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RESPONSE TO COMMENTS
RCRA FACILITY INVESTIGATION (RFI) REPORT

FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

U.S. EPA ID# MIR000020743

Volume I - Letter and Attachments A through E

MARCH 2002

This report is printed on recycled paper.

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March 28, 2002

Mr. Kevin Holdwick
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Waste Management Division
P.O. Box 30241
Lansing, MI 48909-7741

Re: Response to Comments
Draft RCRA Facility Investigation RFI Report
Former Peregrine (US) Inc. Coldwater Road Facility, Genesee Township, Michigan
MIR 000 020 743

Dear Mr. Holdwick:

This letter (four copies are provided here) presents Remediation and Liability Management Company, Inc.'s (REALM)'s response to your comments dated March 29, 2001 on the Draft RCRA Facility Investigation (RFI) Report (CRA, November 2000) for the Former Peregrine (US) Inc. Coldwater Road Facility (Facility). This Response to Comments includes the following Attachments:

Attachment A-	Response to Comment No. 2, Section 2.2 - Surrounding Land Use (Genesee Township Zoning Ordinance).
Attachment B-	Response to Comment No. 3, Section 4.3.2 - Former Scrap Metal Storage Area Investigation (AOI 8).
Attachment C-	Response to Comment No. 4, Section 4.3.3 - Former Chrome Plating Area Investigation (AOI 9).
Attachment D-	Response to Comment No. 5, Section 4.3.10 - Former Press Room Investigation (AOI 19).
Attachment E-	Response to Comment No. 8, Section 5.2 - Groundwater Use Inventory.
Attachment F-	GWNIAA Determination Review (CRA, March 1, 2002).
Attachment G-	Response to Comment No. 10, Section 5.3.4 - Hydrology.
Attachment H-	RFI Work Plan Addendum #2 (CRA, March 2002).
Attachment I-	Memo Re: Remediation of Soil Surrounding BH-9-26-00 in Basement (CRA, March 1, 2002).

It should be noted that REALM has utilized the time frame between March 2001 and March 2002 to implement some of the actions identified in the MOEQ-WMD comments. These actions have included additional field investigations and selected remediation activities. As you are also aware, REALM and MDEQ are in the process of negotiating a Voluntary Corrective Action Agreement for this Site. Comments on the recent draft of the agreement will be handled under separate cover.

COMMENT NO. 1

Section 1.4, RFI Strategy
Please be aware that the use of Industrial Criteria limits the future zoning of the land to industrial and any change to that zoning may require additional investigation/remediation activities.

RESPONSE TO COMMENT NO. 1

Noted. As stated in Section 2.2 of the RFI Report, the Facility is currently zoned for and has been historically utilized for industrial activities since 1952. The associated land uses for the current zoning classification are discussed in Response to Comment No. 2. Future land uses at the Facility are expected to remain industrial and/or commercial. The property is being marketed for industrial and/or commercial activities. As identified in the comment, REALM is aware that changes to the land use to accommodate future redevelopment options would require review of residual Facility-related impacts, if any, in the context of the proposed use. As a result, institutional controls will be reviewed as a component of the Corrective Measures (CM) required to address this Facility.

COMMENT NO. 2

Section 2.2, Surrounding Land Use
A copy of the Genesee Township zoning ordinance must be provided in the RFI Report in order to confirm the associated land uses for each land use zoning classification.

RESPONSE TO COMMENT NO. 2

A copy of the Genesee Township zoning ordinance will be provided in Appendix C of the revised RFI Report (see Attachment A to this letter).

The following sentences will be added to the end of the first paragraph in Section 2.2 – Surrounding Land Use: "The Facility is located in an area classified by Genesee Township as a General Industry District (M-2) as described in Section 185.312 of the Genesee Township Zoning Ordinance. A copy of the Genesee Township Zoning Ordinance is presented in Appendix C. "

COMMENT NO. 3

Section 4.3.2, Former Scrap Metal Storage Area Investigation (AOI 8)
The proposed soil investigation presented in the RFI Work Plan indicated that soil samples would be collected "either through or immediately adjacent to" the five storage pits (8'x10'x10' deep) present in the area. The RFI Report indicates that none of the five borings were placed through the former sump locations, and

no discussion was provided regarding why the borings were not placed through the pit bottoms where contamination might be expected to be present. In addition, it is not clear from the RFI Report where the borings were placed in relation to the storage pits. Additional justification and or discussion of sample location criteria must be provided in the RFI Report.

RESPONSE TO COMMENT NO. 3

Five boreholes locations were proposed for AOI 8 in the RFI Work Plan (CRA, May 2000). Three of these five boreholes were proposed at locations immediately adjacent to the former scrap metal collection bins (BH-8-1-00, BH-8-2-00, and BH-8-3-00) in Building 63.

BH-8-2-00 was installed immediately adjacent to concrete bin #7 as shown on Figure D.1. Due to accessibility issues caused by vertical support beams, floor structures etc., BH-8-1-00 and BH-8-3-00 were attempted as close as possible to the bins as shown on Figure D.1 (see Attachment B). The conditions encountered at AOI 8 are shown in the photographs presented on Figure D.2 (Attachment B). Refusal at twelve feet below ground surface (bgs) was encountered at BH-8-1-00 and BH-8-3-00. As a result, these boreholes were offset to the offset locations as shown on Figure D.1 (BH-8-1-00 to BH-8-1A-00 and BH-8-3-00 to BH-8-3A-00).

After drilling was completed, REALM subsequently reviewed this issue and decided to further decommission and demolish the bins (the bins had been previously reported to have been cleaned, backfilled with gravel, and capped in place with concrete by Peregrine) and inspect the subsurface soils for any indication of contamination. As indicated in Section 4.3.2 of the RFI Report, the concrete caps of each of the bins were cleared and demolished. On August 22, 2000, CRA initiated the removal of the backfilled gravel that had been placed by Peregrine. Clean gravel was segregated from stained gravel for the purpose of reusing the clean gravel as backfill elsewhere on Site. Subsequently, the bins were inspected and re-cleaned through pressure washing. The bins were identified to be in good condition based on visual inspection. Finally, the base of the bins were broken and the subsurface conditions were inspected. No visual staining, PID readings, or odors were identified below the pit bottoms within AOI 8. Available photos illustrating AOI 8 and the decommissioning of the concrete bins are presented on Figure D.2 and D.3 (see Attachment B). After inspection of the base of each of the bins and the subsurface soils, the bins were backfilled with clean sand. Building 63, which housed the bins, has been subsequently demolished leaving the slab in place.

The following will be added to the last paragraph in Section A (AOI 8 Description) in Section 4.3.2: " The clean gravel removed from the pits was segregated from the stained gravel. The pits were subsequently backfilled with the clean removed gravel and clean sand. The stained backfill materials removed from the concrete bins were characterized for disposal. The analytical waste characterization data for this material is presented in Table D.1 in Appendix D. Photos illustrating AOI 8 and the decommissioning of the concrete bins are presented on Figure D.2 and D.3 in Appendix D."

The following will be added to the end of the first paragraph in Section B (AOI 8 Investigation Summary) in Section 4.3.2: " The locations of the boreholes in relation to the concrete bins at

AOI 8 are presented on Figure D.1 in Appendix D." Appendix D is presented in Attachment B of this letter.

COMMENT NO. 4

Section 4.3.3, Former Chrome Plating Area Investigation (AOI 9)

No samples were collected immediately adjacent to the location of historical sample K-35 where significant exceedances were noted. This type of situation may be true at other Areas of Interest (AOI) as well. The facility must incorporate historical data into the characterization of each AOI.

RESPONSE TO COMMENT NO. 4

This situation is only true at K-35 (AOI 9) and does not occur at any other AOIs. The available historical data for the Facility is presented in Appendix B of the RFI Report.

The historical borehole logs will be added to Appendix B of the RFI Report. In particular, historical soil exceedances of MDEQ generic industrial screening levels, as well as RFI soil exceedances, will be summarized together on a new figure (Figure 5.14 in the revised RFI Report) which will be added to the RFI Report (see Attachment C). The following paragraph will be added to Section 5.4 – Summary of Exceedances of MDEQ Generic Industrial Screening Levels:

"Figure 5.14 presents the historical and RFI soil exceedances of MDEQ generic industrial screening levels at the Facility."

All subsequent Figure numbers and corresponding text will be adjusted accordingly.

The following summarizes a review of the historical soil exceedances and how they were further investigated as part of the RFI:

HISTORICAL SOIL EXCEEDANCES

Location of Historical Soil Exceedance	*Criteria Exceeded*	*AOI #*	*AOI Description*	*RFI Investigation Details*
PFW-6, MW-14	IDWPC (TCE), IDWPC (TCE)	1	Former Drum Storage Area	• Separate RCRA closure sampling performed (not part of RFI) • BH-12-1-00 placed adjacent to these borehol as part of investigation of Former Caustic Tanks
PFB-7	IDWPC (Arsenic)	8	Former Scrap Metal Storage Area	• Two samples collected (0.66'–2.66' bgs and 5'–7' bgs) at BH-8-1A-00 located immediatel adjacent to PFB-7 • Three samples collected at BH-8-2-00 and BH-8-3A-00 in close proximity to PFB-7 and former scrap metal collection bins
K-32	IDWPC (Lead)	9	Former Plating Areas	• Sample collected at BH-9-13C-00 located immediately adjacent to K-32
K-35	IDCC (Lead)	9	Former Plating Areas	• Will be addressed as part of RFI Work Plan Addendum #2 (see Attachment H)
F-30	IDWPC (Cyanide)	9	Former Plating Areas	• Sample collected at BH-9-26-00 and BH-9-26A-00 located adjacent to F-30 • Additional investigation in the basement of Bldg. 44 as part of RFI Work Plan Addendu #1 (see Attachment J for a summary of delineation and remediation activities in the basement)
MW-12, WWT-3	IDWPC (Cyanide), IDWPC (TCE)	None	Former Wastewater Treatment Plant (WWTP)	• Separate RCRA closure sampling performed (not part of RFI)

There were no other historical exceedances.

COMMENT NO. 5

Section 4.3.10, Former Press Room Investigation (AOI 19)

The proposed soil investigation presented in the RFI Work Plan indicated that the AOI had several miscellaneous sumps and pits present (depths not defined) that were presumably the main reason for concern in the area. No discussion was provided in the RFI Report regarding why the borings were not placed through the sump or pit bottoms where contamination might be expected to be present. In addition, it was not clear from the RFI Report where the borings were placed in relation to the sumps or pits. Additional justification and or discussion of sample location criteria must be provided.

RESPONSE TO COMMENT NO.5

As discussed in Section 4.3.10 (and Response to Comment No. 3), the concrete pits, trenches, and sumps that were previously backfilled with gravel and capped with concrete by Peregrine were re-visited by REALM as part of the environmental decommissioning and demolition performed at the Facility. Backfill materials within such structures were removed and characterized for off-Site disposal.

During the months of September and October, 2000, the pits, trenches, and sumps were opened and re-cleaned by first removing accumulated solid wastes (if present) either manually, or with the aid of a vacuum truck. Solids and residual oils, if present, were removed from the pits, trenches, and sumps and were separated in vacuum trucks. Pressure water blasting and steam cleaning was used to remove residue from walls and bottoms of pits, sumps, and trenches. Solids were placed in roll-off boxes for disposal. Rinse waters generated were collected and transported to an off-Site wastewater treatment plant for treatment/disposal.

The bases of the pits were subsequently broken and the subsurface conditions were inspected. This waste removal, cleaning, and breaking of bottoms was also completed on each of the open pits and trenches in the south end of Building 44. All of the pits appeared to be in good condition. No visual staining, PID readings, or odors were identified below the pit bottoms in AOI 19. Photos illustrating the decommissioned sumps, pits, trenches, and sumps in AOI 19 are presented on Figure E.2 through E.7 (see Attachment D).

On June 2 and 5, 2000, CRA supervised the installation of eight boreholes in AOI 19. The location of the sample locations in relation to the sumps and pits in AOI 19 is presented on Figure E.1 (see Attachment D). As indicated on Figure E.1, the boreholes were installed in the general vicinity of the pits, trenches, and sumps to provide a general indication of the subsurface conditions at AOI 19.

The following will be added to the last paragraph in Section A (AOI 19 Description) in Section 4.3.10: "Photos illustrating AOI 19 and the decommissioned pits, trenches, and sumps are presented on Figure E.2 through E.7 in Appendix E."

The following paragraph will be added to Section A (AOI 19 Description) in Section 4.3.10:

"In addition, all of the backfilled materials removed from the pits were characterized for disposal. The sampling and analysis plan and resulting data are presented in Appendix E."

The following will be added to the end of the first paragraph in Section B (AOI 19 Investigation Summary) in Section 4.3.10:

"The location of the sample locations in relation to the pits, trenches, and sumps in AOI 19 is presented on Figure E.1 in Appendix E."

Appendix E is presented in Attachment D of this letter.

COMMENT NO. 6

Section 5.0, RFI Results, General

Only one round of groundwater sampling was conducted for the RFI. In addition, some wells where previous exceedances were noted (historical investigations) were dry when sampling was attempted during the RFI. Additional monitoring may be required as part of the Corrective Measures Study (CMS) at monitoring well locations where exceedances have been noted in previous investigations.

RESPONSE TO COMMENT NO. 6

The RFI Work Plan (CRA, May 2000) identified that groundwater samples would be collected at five pre-RFI monitoring well locations (PFW-9, MW-3, MW-4, MW-10 and MW-13) to determine present chemistry. An exceedance of Act 451, Part 201 generic industrial screening levels had been previously encountered at each of these monitoring well locations during various historical investigations at the Facility.

All monitoring wells where previous historical exceedances had been historically noted were resampled during the RFI. The results of groundwater samples collected at each of these locations during the RFI are presented in Table 5.19 of the RFI Report. The historical exceedances are compared to the RFI data for each location on Figure 5.13 of the RFI Report. One additional round of groundwater sampling at these five monitoring wells will be scheduled during future investigative activities to respond to MDEQ concerns on this issue.

In order to clarify that no exceedances of Act 451, Part 201 generic industrial screening levels were encountered in the groundwater sample collected from PFW-9, MW-3, MW-4, MW-10, and MW-13 respectively, the following paragraph will be added to Section 5.4.5 – Other Act 451, Part 201 Generic Industrial Screening Levels:

"There were no exceedances of MDEQ IDWC, GCC, or IGVIAIC generic screening levels."

COMMENT NO. 7

Section 5.0, RFI Results, General

The reason for the relatively high number of elevated detection limits and "estimated" results must be explained in the text.

RESPONSE TO COMMENT NO. 7

We do not believe there was a "high number" of elevated detection limits and "estimated" results. The laboratory provided report limits (RLs) that are quantitation limits based on low calibration standards which are adjusted for preparation/matrix factors. These RLs met the

MDEQ-ERD targeted detection limits (TDLs), in accordance with MDEQ Operational Memorandum #6 for the majority of the parameters tested. Some samples were reported with elevated RLs for organics (volatiles and semi-volatiles) due to the presence of both target and non-target compounds.

A few inorganic parameters (hexavalent chromium, cadmium, and cyanide) had RLs above the MDEQ TDLs in soil samples. All the RLs were below the most restrictive MDEQ Act 451, Part 201 generic soil clean-up criteria with the exception of the RL for cyanide. However, consistent with all of the other analytes, cyanide was reported to the laboratory's method detection limit (MDL), as opposed to the RL, which is below the lowest state residential soil cleanup criteria.

As discussed above, in an effort to achieve the MDEQ-ERD TDLs the laboratory provided reporting to their method detection limits (MDLs). The laboratory reported concentrations detected below their RL and above their MDL and these concentrations were qualified as estimated values with a "J" qualifier. The majority of the qualified data were reported as J values for this reason. This information will be presented clearly in the Data Validation Memorandum presented in Appendix E of the revised RFI Report.

COMMENT NO. 8

Section 5.2, Groundwater Use Inventory

Previous investigations related to the closure/landfill construction to the north revealed significantly more residential groundwater wells in the vicinity of the site. An additional well record search, incorporating records from previous investigations, the local Health Department, the DEQ Drinking Water and Radiological Protection Division (DWRPD), and any other applicable source must be conducted. In addition, the radial distance to be searched from the plant boundary must be expanded to 1.5 miles. Local groundwater use information will become very important in evaluating potential exposure via the groundwater pathway at the site.

RESPONSE TO COMMENT NO. 8

Additional well records have been obtained from the MDEQ and the Genesee County Health Department. Previous investigation reports have also been consulted. REALM is aware of only one previous investigation report which discusses local water well logs. This was confirmed by Mr. Tony Finch (O'Brien and Gere Engineers), a consultant for REALM for the landfill remediation area north of the Facility. The following paragraph is the sole discussion on water well records in the Hydrogeological Investigation Report for the Coldwater Road Plant Waste Management Area (Dames and Moore, 1980. pg.3):

> "Logs of 115 water wells located in Section 18 and the surrounding 8 sections were analyzed. Of the 115 well logs analysed, 23 tapped the drift aquifers while the rest tapped aquifers in the Saginaw Formation. In the 9-section area, the depth to bedrock ranges

from 75 feet in areas having a high bedrock elevation to 348 feet in the bedrock valleys. The average depth to bedrock is 169 feet."

The results of the additional well inventory searches completed, as discussed above, identified additional wells within the original search radius of one mile. Figure C.1 (to become Figure F.1) has been revised accordingly. The well records found within the expanded 1.5 mile radius have been presented on Figure F.1 and will be added to Appendix F of the RFI Report. The text of Sections 3.1.2 and 5.2 will be changed to reflect the expanded search radius and additional sources contacted. The additional water well records will be presented within Appendix F of the RFI Report.

Further to the additional well inventory searches, the City of Mount Morris, Charter Township of Mount Morris, Charter Township of Genesee, and Beecher Metropolitan District Department of Sewer and Water were contacted in order to determine addresses within 1.5 miles of the Facility that are not connected to a city/township water supply and/or do not receive a water bill. Of all the addresses which were found to have a water well record, only one was found to receive a water bill. In addition to the 216 addresses for which a water well record was found, 111 additional addresses that are not connected to a city/township water supply and/or do not receive a water bill were encountered.

The existing table at the end of Section 5.2 – Task 2: Groundwater Use Inventory will be removed. Instead, the following information concerning the domestic wells identified on Figure F.1 will be summarized in Table F.1 to be included in Appendix F of the RFI Report:

- Location;
- Total Depth (ft);
- Overburden Thickness (ft);
- Clay Aquitard Thickness (ft);
- Static Water Level (ft);
- Screened Interval; and
- Layer Protected (YES/NO).

The last sentence of the last paragraph of Section 5.2 will be adjusted to read: "A summary of the residential wells identified within a radius of 1.5 miles of the Facility is presented in Table F.1 in Appendix F."

Appendix F is presented in Attachment E of this letter.

COMMENT NO. 9

Section 5.3.3.1, Groundwater Not In An Aquifer (GWNIAA) Evaluation

The demonstration for GWNIAA provided in the RFI Report is not adequate. The information presented must adhere to the recommendations of the May 4, 2000 WMD Guidance Document. The demonstration of GWNIAA at this site will need

to be very conclusive due to the local use of the drift aquifer as a potable water source in the vicinity of the site. An alternative approach of implementing site-specific deed restrictions regarding impacted areas of groundwater in the perched zone may be more appropriate at this site.

If the facility wishes to proceed with the GWNIAA determination, then additional information is required. A significant amount of information was collected during the RFI; however, it is not summarized and presented as recommended in the GWNIAA Guidance Document. In addition, a significant amount of potentially applicable information was collected and evaluated by General Motors as part of the closure/landfill construction project completed north of the plant. Additional information (or a more focused presentation of existing data) that may be required includes the following:

- ***Cross-Sections mapping the contacts between the perched zone, the upper till, and the overburden water bearing unit (Drift Aquifer).***
- ***Groundwater elevation data from both the perched zone and the drift aquifer supporting hydraulic isolation.***
- ***Location of utility corridors, foundations, tunnels, sumps, and other structures that may be important in hydraulic communication between the two units. This is especially important with respect to foundations, sumps, etc. related to the basement of the plant building.***
- ***Contact with local health department and DEQ, DWRPD verifying conditions required in guidance.***
- ***Additional information on groundwater use per Comment Number 8 above.***
- ***A pump-test to conclusively demonstrate the lack of hydraulic communication between the two units.***
- ***Additional information demonstrating the insignificant yield of the perched zone per guidance document recommendations.***
- ***Analytical groundwater monitoring data from the Drift Aquifer to demonstrate/verify it has not been impacted as a result of on-site activities.***

RESPONSE TO COMMENT NO. 9

A memorandum presenting a review of the GWNIAA determination is presented in Attachment F. A Scope of Work for additional field activities to be completed to supplement the GWNIAA determination is included in RFI Work Plan Addendum #2 (see Attachment H). However, it should be noted that it is REALM's understanding that the May 4, 2000 WMD Guidance is strictly internal guidance and not a promulgated requirement for determination of GWNIAA. The REALM GWNIAA determination is consistent with Act 451 policy that has been represented by MDEQ management, and good engineering and scientific practice.

COMMENT NO. 10

Section 5.3.4, Hydrology
The presence of Hughes drain and the surface water bodies associated with the constructed wetlands for the closure/landfill construction project to the north were not mentioned in this evaluation. These are the closest surface water bodies present to the site and their presence and impact on site hydrology must be discussed.

RESPONSE TO COMMENT NO. 10

Agreed. The following paragraphs will be added to Section 5.3.4:

"Surface water drainage at the Facility is generally toward a low area, which occupies the northwest corner of the adjacent REALM property. This area comprises an area of reconstructed wetlands owned and maintained by REALM. A copy of the "as built" construction drawings for the wetlands is presented in Appendix J.

Water drainage in the storm sewer network at the Facility discharges northwest of the Facility to Hughes Drain. The location of Hughes Drain is presented on Figure J.1 in Appendix J. A copy of the storm sewer network showing the known and estimated surface drainage directions is also presented in Appendix J."

Appendix J is presented in Attachment G of this letter.

COMMENT NO. 11

Section 5.3.5.1, Former Waste Pile Pad (AOI 2) Results
Arsenic in BH-2-3-00 is present at a concentration of 61,000 ug/kg. This concentration is equal to the industrial direct contact criteria (IDCC). The fact that samples from surrounding borings displayed much lower arsenic concentrations is indicative of an arsenic hotspot. The extent of contamination associated with this area of elevated arsenic concentration must be defined.

RESPONSE TO COMMENT NO. 11

This result does not exceed the IDCC for arsenic and therefore, this meets the requirements according to MDEQ-ERD Operational Memorandum 18 (August 31, 1998). However, REALM will re-visit this area with additional sampling as requested by MDEQ-WMD. RFI Work Plan Addendum #2 (see Attachment H) includes the Scope of Work for the delineation of arsenic surrounding BH-2-3-00.

COMMENT NO. 12

Section 5.5.1, Evaluation of DEQ SVIAIC Exceedances
The RFI Report states that the SVIAIC pathway is incomplete due to the presence of the concrete slab. However, if the facility is sold there is no guarantee that future owners will retain the concrete slab. Therefore, the pathway must be evaluated and the extent of contamination associated with the SVIAIC exceedance must be defined. If the concrete slab is left in place as an engineered control barrier, a deed restriction will be required.

RESPONSE TO COMMENT NO. 12

There are no buildings currently existing at this Facility. However, REALM will re-visit this area with additional sampling as requested by MDEQ-WMD. RFI Work Plan Addendum #2 (see Attachment H) includes a Scope of Work for the delineation of 1,1-dichloroethene surrounding BH-9-23-00.

COMMENT NO. 13

Section 5.5.2, Evaluation of DEQ PSIC Exceedances
Comment 12 above applies also to PSIC Exceedances.

RESPONSE TO COMMENT NO. 13

The concrete slab currently covers these areas. However, REALM will re-visit this area with additional sampling as requested by MDEQ-WMD. RFI Work Plan Addendum #2 (see Attachment H) includes a Scope of Work for the delineation of hexavalent chromium surrounding BH-9-24-00. It should be noted that the area surrounding BH-9-26-00 has already been delineated for nickel and lead and remediated based on the investigative results. A summary of the investigative and remediation activities in the area surrounding BH-9-26-00 is present in a memorandum presented in Attachment I.

COMMENT NO. 14

Section 5.5.3, Evaluation of IDWPC Exceedances
As discussed in Comment 10 above, the GWNIAA demonstration provided is inadequate. Until such time that a satisfactory GWNIAA demonstration is approved by the WMD or other site-specific restrictions are implemented, the extent of contamination associated with the exceedances must be defined and the pathway evaluated.

RESPONSE TO COMMENT NO. 14

See Response to Comment No. 9.

COMMENT NO. 15

Section 6.0, Preliminary Risk Evaluation
The Preliminary Risk Evaluation (PRE) was undertaken to assess the potential risk to human health posed by arsenic and lead impacted soils at AOI 9 and AOI 11.
a) Observation of the analytical soil data for AOI 9, Table 5.8, showed that only one sample (BH-9-26-00) exceeded the Part 201 Industrial Direct Contact Criteria (DCC) for lead, which is 900 ppm. Lead was detected at a concentration of 28,100 ppm, which is over 31 times the criteria.

b) Observation of the analytical soil data for AOI 11, Table 5.9, showed that only one sample (BH-11-1-00) exceeded the Part 201 Industrial DCC for arsenic, which is 61 ppm. Arsenic was detected at a concentration of 131 ppm, which is over twice the criteria

Based upon the previous findings, it can be concluded that these two samples represent significantly elevated areas for lead (BH-9-26-00) and arsenic (BH-11-1-00) and are not consistent with other sample concentrations found in their respective exposure areas. Therefore, these two samples, BH-9-26-00 and BH-11-1-00, represent hot spots for lead and arsenic respectively, and should be addressed separately and not included in calculation of the 95 percent upper confidence limit, which has been proposed in the PRE. Please see the DEQ Environmental Response Division's Part 201 Generic Soil Direct Contact Criteria Technical Support Document for further guidance.
Further delineation of the lead and arsenic hot spots is necessary. Following proper delineation, remediation or removal of the soils found to exceed the Part 201 DCC is recommended. Exposure controls and land use restrictions may be employed to prevent exposures under the limited land use category.

Also, analysis of the analytical soil data for AOI 2, Table 5.6, showed an arsenic concentration equal to the Part 201 DCC for arsenic in borehole BH-2-3-00. Concentrations at or approaching applicable Part 201 criteria may pose a risk to human health. This sample is not consistent with other sample concentrations found in this exposure area, and because it is so much higher than other sample concentrations detected in this exposure area, it should also be considered a potential hotspot. Further delineation in this area is recommended.

RESPONSE TO COMMENT NO. 15

Arsenic concentrations in soil around locations BH-2-3-00 at AOI 2 and BH-11-1-00 at AOI 11 will be further characterized as described in RFI Work Plan Addendum #2 (see Attachment H). Lead concentrations in soil around location BH-9-26-00 at AOI 9 were further characterized as described in RFI Work Plan Addendum #1 (REALM, April 27, 2001). Based on the additional characterization, soil around BH-9-26-00 was removed to allow the basement of former Building 44 to be backfilled without potentially delaying basement backfilling and redevelopment opportunities of the Facility. The characterization results, extent of soil removal, and soil disposal are summarized in Attachment I.

Further characterization of arsenic at AOI 2 and AOI 11, as described in RFI Work Plan Addendum #2, is intended to support a more reliable estimate of risk associated with potential long-term exposures to arsenic in soil at these AOIs. That is, data from the additional

characterization, along with data from the initial samples, will be used to estimate the arsenic concentration to which receptors might be exposed over the long-term at each AOI, using standard and accepted risk assessment principles. Specifically, the exposure concentration for arsenic at each AOI will be calculated as a 95% upper confidence limit (UCL) on the mean using all characterization data at each AOI (excluding data where soil has been removed). The need to further address soil at each AOI will be determined by evaluating the risk associated with potential exposures to the 95% UCL concentration.

Concentrations at individual sampling locations that are higher than the Act 451, Part 201 IDCC do not automatically warrant remedial action, as implied in Comment 15. The IDCC were developed to be protective of long-term exposures, and as such, should be used to evaluate long-term exposure concentrations, which are represented by 95% UCLs based on all data for an area over which long-term exposure is to be evaluated. The MDEQ's Part 201 Generic Soil Direct Contact Criteria Technical Support Document (TSD) specifically recognizes the use of 95% UCLs, which means that it recognizes that concentrations at individual sampling locations higher than the IDDC are allowed. The TSD also mentions "hot spots" but provides no guidance on what constitutes a hot spot. However, interpreting every concentration higher than the DCC as a hot spot that must be removed from the 95% UCL calculation (and remediated) would be inconsistent with the basis on which the IDCC were derived and are being applied across the State. Because the IDCC were derived for evaluating long-term exposures, exposure of receptors to concentrations higher than the IDCC can be acceptable as long as a conservative estimate of the long-term average concentration (i.e., the 95% UCL) is not higher than the IDCC. Further, if only concentrations lower than the IDCC can be included in 95% UCL calculations, then the 95% UCL calculations would have no purpose.

Because further characterization will be conducted at AOI 2 and AOI 11, and soil characterization and removal have been completed at AOI 9, REALM is withdrawing Section 6.0 of the RFI Report. A risk-based evaluation of arsenic concentrations at AOI 2 and AOI 11 will be conducted after the additional characterization described in RFI Work Plan Addendum #2 is completed, as discussed above.

Finally, it should be noted that MDEQ has recently developed statistical guidelines which are consistent with this response to comment No. 15.

COMMENT NO. 16

Section 6.0, Preliminary Risk Evaluation

As noted in comments 12 through 15 above, there are additional pathways present at the site that must be addressed in this section, although it is not clear that this exercise is required at this point in the investigation. Should a risk evaluation ultimately be included as part of the final RFI Report, the data utilized must be collected on a random basis, as opposed to the biased sampling done to date. Also, hotspots must be delineated and removed from the data set prior to performing the statistical manipulations used in risk evaluations.

RESPONSE TO COMMENT NO. 16

As discussed in response to comment No. 15, REALM is withdrawing Section 6.0 of the RFI Report at this time. A risk-based evaluation will be conducted after completing the scope of work described in RFI Work Plan Addendum #2 (see Attachment H).

The soil characterization data that have been collected during the RFI and are proposed to be collected in RFI Work Plan Addendum #2 are from locations that are biased to where contamination, if present, would most likely be found. This "biased" sampling is typically required to evaluate the most likely areas of contamination. Random sampling is not the standard of practice at Corrective Action sites. As such, these data are expected to provide 95% UCL estimates that are conservatively biased (i.e., higher, or more conservative, than estimates based on random samples). Therefore, use of these data would be expected to provide a more conservative risk-based evaluation than if data from random sampling were used. A random sampling approach could be utilized in the future if these 95% UCLs calculated based upon the biased data set are not below the applicable Act 451, Part 201 screening levels (i.e., random sampling with a statistical analysis provides an appropriate approach to determine if the Facility meets applicable screening levels).

Please see response to Comment 15 regarding "hot spots" and use of data in 95% UCL calculations.

Should you have any questions regarding any of the information presented in this package, please do not hesitate to call me at 248-680-5219.

Yours truly,

Cheryl Hiatt
Project Manager
REALM, Inc.

CH/nm/3

Enclosures

c.c.: Marilyn Dedyne – REALM
Jean Caufield – REALM
Steve Song - ENVIRON
Glenn Turchan - CRA

ATTACHMENT A

RESPONSE TO COMMENT NO. 2
SECTION 2.2 - SURROUNDING LAND USE

ZONING

ORDINANCE

CHARTER TOWNSHIP OF

GENESEE

STATE OF MICHIGAN

Published by Order of the Township Board

MUNICIPAL CODE CORPORATION

Tallahassee, Florida

1992

Reprinted 1998

INSTRUCTION SHEET
SUPPLEMENT/REPLACEMENT
May 1998

Zoning Ordinance

CHARTER TOWNSHIP OF GENESEE

State of Michigan

Replacement Volume

This copy of the Zoning Ordinance is issued as a "replacement" copy and contains all amendatory ordinances deemed advisable to be included at this time through Ordinance No. 423, adopted June 10, 1996. Ordinances setting out zoning district changes are merely listed herein: See Article XVI, Use Zoning District Changes. For all other ordinances, see the Listing of Ordinances for further information.

This copy replaces all exiting copies of the Zoning Ordinance. Future Supplements will commence with "Supplement No. 1."

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ZONING

ORDINANCE

CHARTER TOWNSHIP OF

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LISTING OF ZONING ORDINANCES*

Ord. No.	Date	Description
234	4-26-76	Amends Zoning Ord. No. 222, Temp rary Uses/185.509
235	6-28-76	Amends Zoning Ord. No. 222, Permi ted Conditional Uses/185.404
263	8-14-78	Amends Zoning Ord. No. 222, Miscell neous Amendments/185.201, 185.30 185.404, 185.611, 185.1009
308	10-14-80	Amends Zoning Ord. No. 222, Cond tional Use Application Procedures an Use Zoning District Changes/185.100 185.2000
317	6-28-81	Amends Zoning Ord. No. 222, Defin tion of One Family Dwelling/185.218
329	5-10-82	Fees for Proceedings Under Zoning O dinance (Repealed by Ord. No. 389)
330	9-27-82	Amends Zoning Ord. No. 222, Princip Conditional Uses/185.313
339	11-28-83	Amends Zoning Ord. No. 222, Temp rary Trailer Coach Parking/185.509
343	2-11-85	Amends Zoning Ord. No. 222, Defin tions of and Elderly Housing Distric 185.221A, 185.313A
350	11-25-85	Amends Zoning Ord. No. 222, Defin tion of Accessory Structure/185.201
372	3-28-88	Amends Zoning Ord. No. 222, Permi ted Conditional Uses—Planned Unite Development
376	10-24-88	Amends Zoning Ord. No. 222, Fence and Screening/185.609
382	9-11-89	Amends Zoning Ord. No. 222, Permi ted Conditional Uses and Variance Re view

*Note—Ordinances listed above have amended the provisions of the zonir code set out in Ord. No. 222. Other ordinances changing zoning use classificatior for specific properties are listed in Article XVI herein.

Ord. No.	Date	Description
384-A	11-13-89	Amends Zoning Ord. No. 222, Permitted Conditional Uses—Family Day-Care Homes and Group Day-Care Homes
396	6-22-92	Amends Zoning Ord. No. 222, Use Zoning District Changes—Mini Warehouses
399	2- 8-93	Amends Zoning Ord. No. 222, Use Zoning District Changes—Keeping Horses in Residential Urban District
423	6-10-96	Amends Zoning Ord. No. 222, Penalties for Violation

Part 185

185.000

ZONING
Ord. No. 222
Adopted: June 23, 1975

ARTICLE I

PURPOSE, INTERPRETATION, ETC.

185.100 Purpose.

Sec. 1.00. The purpose of this Ordinance is to pro mote the public health, safety, morals, and genera welfare; to encourage the use of lands in accordanc with their character and adaptability; and to limit th improper use of land; to avoid the overcrowding o population; to provide adequate light and air; to lesse congestion on the public roads and streets; to reduc hazards to life and property; to facilitate adequat provisions for a system of transportation, sewage dis posal, safe and adequate water supply, education, rec reation and other public requirements; and to conserv the expenditure of funds for public improvements an services to conform with the most advantageous uses o land, resources and properties, and with reasonabl consideration among other things, to the character o each district, its peculiar suitability for particular uses the conservation of property values and natural re sources, and the general and appropriate trend an character of land, building, and population develop ment, as studied and recommended within a genera plan by the Genesee Township Planning Commissio and endorsed, and regulations adopted, therefore, b the Genesee Township Board.

185.101 Interpretation.

Sec. 1.01. The provisions of this Ordinance shall b considered as minimum standards and requirement within each respective zoning district and shall no preclude the establishment of higher, or more restric tive standards, or requirements for the authorizatio of any conditional use permit, where such higher o

more restrictive standards or requirements are found necessary by the Township Planning Commission to attain the intent of this Ordinance.

185.102 Conflicting Laws, Ordinances, Regulations, or Restrictions.

Sec. 1.02. Conflicting laws of a more restrictive nature are not affected or repealed by this Ordinance. The provisions of this Ordinance shall be considered as minimum, and such conflicting laws of a more restrictive nature shall supersede any provisions of this Ordinance. Conflicting laws of a less restrictive nature, or those conflicting in other ways than degrees of restrictiveness, are hereby repealed.

ARTICLE II

185.200 DEFINITIONS

For the purposes of this Ordinance, certain terms o words used herein shall be interpreted as follows:

The word "person" includes a firm, association, or ganization, partnership, trust, company, or corpora tion, as well as an individual.

The present tense includes the future tense, th singular number includes the plural, and the plura number includes the singular.

The word "shall" is mandatory, the word "may" i permissive.

The words "used" or "occupied" include the word intended, designed, or arranged to be used or occupied

185.201 Accessory structures.

Sec. 2.01. A detached structure on the same lo with, and of a nature customarily incidental and sub ordinate to, the principal structure.

1. In an RU-1 District and RU-2 District, an acces sory structure may not exceed 1200 square feet side walls may not exceed 10 feet in height, an total height may not exceed 15 feet.
2. In an RSA District, an accessory structure ma not exceed 1800 square feet, side walls may no exceed 12 feet in height, and total height may no exceed 17 feet.
3. In an RA District, an accessory structure may no exceed 30% of the required rear yard area an may not exceed 17 feet in height.

Exterior finishes must be of material normally use on the exterior of one family dwellings.

All detached accessory structures on said parcel shall be included when calculating allowed total square feet. (85-4R)
(Amended: Ord. No. 263, 8-14-78; Ord. No. 350, 11-25-85)

185.202 Accessory Use.

Sec. 2.02. A use on the same lot with, and of a nature customarily incidental and subordinate to, the principal use.

185.203 Area, floor.

Sec. 2.03. Floor area shall constitute the total floor area occupied by a use and measured to include all space used primarily or incidentally for such use.

185.204 Area, sales.

Sec. 2.04. Sales area shall only include that area customarily open and accessible to the public.

185.205 Basic plan.

Sec. 2.05. The master plan, general development plan, guide plan or the plan referred to in Act 168 of the Public Acts of 1943, as amended, or the plan referred to in Act 168 of the Public Acts of 1959, as amended, being the basis on which the zoning plan is developed.

185.206 Block face.

Sec. 2.06. A block face is defined as and consists of those properties fronting along an existing right-of-way and located between the intersections of existing streets, or between intersections and dividers such as rivers, railroads, and other similar natural or man-made features.

185.207 Board of appeals.

Sec. 2.07. The Board of Appeals as provided unde provisions of the Township Rural Zoning Act, being Ac 184, Public Acts of 1943, as amended, and as modifie by the Township Planning Commission Act, being Ac 168, Public Acts of 1959, as amended, with powers an duties as defined in those statutes, except as modifie herein, and referred to alternatively as the Board.

185.208 Building.

Sec. 2.08. Any structure (excluding fences) havin a roof or walls and built for, or capable of, the shelter o enclosure of persons, animals, chattels, or property o any kind.

185.209 Building, height of.

Sec. 2.09. The vertical distance from the grade a the center of the front of the building to the highes point of the roof surface in a flat roof, to the deck lin for mansard roofs, and to the mean height level be tween eaves and ridge for gable, hip and gambrel roofs

185.210 Building inspector.

Sec. 2.10. The person designated by the Townshi Board to enforce the provisions of this Ordinance.

185.211 Building permit.

Sec. 2.11. An authorization issued by the Townshi Building Inspector to move, erect or alter a structur within the Township.

185.212 Cellar or basements.

Sec. 2.12. A cellar or basement is that portion of structure with not less than three (3) walls thereo partly below grade and so located so that the vertica distance from the grade to the floor is greater than th vertical distance from the grade to the ceiling.

185.213 Clinic.

Sec. 2.13. A medical facility at which patients are not lodged overnight and designed for examination, treatment, and therapy by medical professionals. The facility may contain a pharmacy, X-ray, laboratory, and offices for medical professionals. Group practice of medicine shall take place in a clinic.

185.214 Conditional use.

Sec. 2.14. A conditional use is a use of land for an activity which, under usual circumstances, would be detrimental to other land uses permitted within the same district, but which is permitted because of circumstances unique to the location of the particular use and which use can be conditionally permitted without jeopardy to use permitted within such district.

185.214A Conditional use permit.

Sec. 2.14A. An authorization approved by the Township Planning Commission to use a parcel of land and/or structure for a conditional use.

185.215 Corral or barnyard.

Sec. 2.15. A pen or enclosure for confining animals or livestock, but not including an area for grazing of such.

185.216 Cul-de-sac.

Sec. 2.16. A street terminated at one end, with a turning radius.

185.217 District.

Sec. 2.17. Each part, or parts of the unincorporated area of the Township for which specific zoning regulations are prescribed.

185.218 Dwelling, one family.

Sec. 2.18. A detached residential dwelling unit, nc including a mobile home, as defined in Sec. 233, an including a premanufactured or precut residential struc ture designed and used for the complete living accom modations of a single family, which comply with th following standards:

(a) Minimum living area of 960 square feet.

(b) Minimum floor to ceiling height of 7.5 feet.

(c) Minimum exterior width of any side elevation 2 feet.

(d) Firm attachment to a cement block or poure cement foundation, measuring 42″ deep and 8 wide and not less in area than the perimeter are of the structure constructed in accordance wit the Township Building Code and all state regula tions.

(e) No exposed wheels, towing mechanism, or under carriage.

(f) Connection to a public sewer and water suppl system or to private facilities approved by th local health department.

(g) Aesthetic compatibility in design and appearanc to conventionally onsite constructed homes.

(h) Compliance with all pertinent building and fir codes.

(i) Sewer and water hookups must be within four dation and concealed from view.

(j) Electrical service must be permanently attache to structure. (81-3R)

(Amended: Ord. No. 317, 6-22-81)

185.219 Dwelling unit.

Sec. 2.19. One (1) room, or rooms connected to gether, constituting a separate, independent house

keeping establishment for owner occupancy, or rental or lease on a weekly, monthly, or longer basis, and physically independent of any other group of rooms and containing independent cooking and sleeping facilities.

185.220 Employee load factor.

Sec. 2.20. Employee load factor is that number equal to the maximum number of employees that can be employed at any one time in a particular structure or parcel of land, and refers to the basis upon which the number of parking spaces required is determined.

185.221 Essential services.

Sec. 2.21. The phrase "essential services" means the erection, construction, alteration or maintenance by public utilities, commercial communication facilities or any governmental department or commission of underground or overhead gas, electrical, steam or water transmission or communication, supply or disposal systems, including poles, wires, drains, sewers, pipes, conduits, cables, towers, fire alarm boxes, police call boxes, traffic signals, hydrants, and other similar equipment and accessories in connection with, but not including structures which contain a total site coverage, as measured by the area of the foundation(s), of greater than 100 square feet.

185.221A [Family.]

Sec. 2.21A.

(a) An individual or group of two or more persons related by blood, marriage or adoption, together with foster children and servants of the principal occupants, with not more than one additional unrelated person, who are domiciled together as a single, domestic, housekeeping unit in a dwelling unit, or

(b) A collective number of individuals domiciled together in one dwelling unit whose relationship is

of a continuing nontransient domestic character and who are cooking and living as a single nonprofit housekeeping unit. This definition shall not include any society, club, fraternity, sorority, association, lodge, coterie, organization, or group of students or other individuals whose domestic relationship is of a transitory or seasonal nature or for an anticipated limited duration of a school term or terms or other similar determinable period.

(Amended: Ord. No. 343, 2-11-85)

185.222 Farm.

Sec. 2.22. Any tract of land used for agriculture horticultural, truck gardening, nursery, or other similar purposes for growing crops or plants and/or for the raising of cattle, swine, horses or other animals, consisting of four (4) or more animals and uses incidental thereto.

185.223 Feedlot.

Sec. 2.23. Feedlots shall be construed to be any facility or enclosed area where farm animals are fed and maintained for more than four (4) hours out of twenty-four (24) hours at a density greater than four (4) heads per acre for cattle and horses, ten (10) heads per acre for smaller animals, or more than thirty (30 fowls per acre.

185.224 Floodplain.

Sec. 2.24. Lands which are subject to periodic flooding and have been defined by the Soil Conservation Service of the U.S. Department of Agriculture to have alluvial soil deposits, indicating that such flooding has taken place, or as defined by any technically qualified engineer and accepted by the Township Board as such as floodplain.

185.225 Frontage.

Sec. 2.25. The lands and distance thereof of any lot fronting on one (1) side of a street between intersecting or intercepting streets, or between a street and another right-of-way, waterway, end of a dead end street or Township boundary measured along the street line.

185.226 Garden apartments.

Sec. 2.26. A multiple family structure which contains semi-private access to dwelling units in which no more than four such units have access from a single hallway on a given floor, and which contains three or less floors.

185.227 Home occupation.

Sec. 2.27. An occupation conducted wholly within a dwelling unit.

185.228 Kennel.

Sec. 2.28. The housing or keeping of four (4) or more animals on a lot or in a structure.

185.229 Loading space, off-street.

Sec. 2.29. Space logically and conveniently located for bulk pickups and deliveries, scaled to delivery vehicles expected to be used, and accessible to such vehicles when required off-street parking spaces are filled. Required off-street loading space is not to be included as off-street parking space in the computation of required off-street parking space.

185.230 Lot.

Sec. 2.30. For purposes of this Ordinance, a lot is a parcel of land of at least sufficient size to meet minimum zoning requirements for use, coverage, and area, and to provide such yards and other open spaces as

herein required. Such lot shall have frontage on a improved public street, or on an approved privat street, and may consist of:

A. A single lot of record;

B. A portion of a lot of record;

C. A combination of contiguous lots of record; o contiguous portions of lots of record;

D. A parcel of land described by metes and bounds.

185.231 Lot of record.

Sec. 2.31. A lot which is part of a subdivision re corded in the office of the County Register of Deeds, o a lot or parcel described by metes and bounds, th description of which has been so recorded.

185.232 Major street.

Sec. 2.32. A street designed for carrying large traf fic volumes and which contains a main traffic route t primary areas of traffic origin or destination. As con tained in the Basic Plan for Genesee Township, th following roads are the major streets in Genesee Town ship:

Saginaw

Dort Highway

Bray

Center (south of Mt. Morris)

Genesee

Belsay

Vassar (south of Coldwater)

Richfield

Pierson (west of Center)

Carpenter

Coldwater

Stanley (west of Genesee)

Mt. Morris

Branch

185.233 Mobile home.

Sec. 2.33. A detached residential dwelling unit with a body width greater than eight (8) feet, of not less than thirty-five (35) feet in length, and designed for transportation, after fabrication, on streets or highways, on its own wheels, and arriving at the site where it is to be occupied as a dwelling complete and ready for occupancy except for minor and incidental unpacking and assembly operations, location on jacks or other temporary or permanent foundations, connections to utilities, and the like. A travel trailer is not to be considered as a mobile home.

185.234 Mobile home park.

Sec. 2.34. A park licensed under provisions of the Trailer Coach Park Act of 1959, being Act 243, Public Acts of 1959, as amended.

185.235 Motels.

Sec. 2.35. Groups of furnished rooms or separate structures providing sleeping and parking accommodations for transient tourist trade, commonly known as tourist cabins or motor courts, and as distinguished from a lodging house.

185.236 Non-conforming lot.

Sec. 2.36. A lot with dimensions which conflict with the provisions of this Ordinance.

185.237 Non-conforming structure.

Sec. 2.37. A structure conflicting with the regulations of the district in which it is located.

185.238 Non-conforming use.

Sec. 2.38. A use of land or a structure for purpos which conflict with the provisions of this Ordinance.

185.239 Parking space, off-street.

Sec. 2.39. For the purposes of this Ordinance, a off-street parking space shall consist of a space ad quate for parking an automobile, with room for openi doors on both sides, together with properly relat access to a public street or alley and maneuveri room, and located on a lot with the land use to which is related.

185.240 Planned unit development.

Sec. 2.40. An integrated and coordinated develo ment of various residential land uses, with or witho retail stores, service stations, drugstores, person service offices, and restaurants, but excluding a manufacturing or wholesale activity, and developed accordance with the conditions as prescribed und provisions of this Ordinance.

185.241 Roadside stands.

Sec. 2.41. Retail outlets with all related structur primarily for the sale of farm produce grown on t farm upon which such stand is located.

185.242 Sanitary landfills.

Sec. 2.42. Any parcel of land used for the dumpi of refuse for the purposes of disposing of such refus and operated in accordance with Act 87 of the Publ Acts of 1954, as amended.

185.243 Screening, screen planting, buffer or landscap buffer.

Sec. 2.43. Areas whose purpose is to offer visua access, and environmental protection to surroundi

properties from a specified use. As required in specific sections of this ordinance, these are accomplished through the use of open green areas, decorative and screen fencing landscaped strips, and evergreen planting strips. No other use, either permanent or temporary, is allowed within such designated areas.

185.244 Service station.

Sec. 2.44. Buildings and premises where gasoline, oil, grease, batteries, tires and automobile accessories may be supplied and dispensed at retail, and where, in addition, the following services may be rendered and sales made, and no other:

A. Sale and servicing of spark plugs, batteries, and distributors and distributor parts;

B. Tire servicing and repair, but not recapping or regrooving;

C. Replacement of mufflers and tail pipes, water hose, fan belts, brake fluid, light bulbs, fuses, floor mats, seat covers, windshield wipers and wiper blades, grease retainers, wheel bearings, mirrors, and the like;

D. Radiator cleaning and flushing;

E. Washing and polishing, and sale of automotive washing and polishing materials;

F. Greasing and lubrication;

G. Replacing or repairing of carburetors, fuel pumps, oil pumps, and lines;

H. Emergency wiring repairs;

I. Minor motor adjustments not involving removal of the head or crankcase or racing the motor;

J. Adjusting and repairing brakes;

K. Sale of cold drinks, packaged foods, tobacco, and similar convenience goods for service station customers, as accessory and incidental to principal operation;

L. Provision of road maps and other informationa material to customers; provision of restroom fa cilities.

Uses permissible at a service station do not includ major mechanical and body work, straightening c body parts, painting, welding, storage of automobile not in operating condition, or other work involvin noise, glare, fumes, smoke, or other characteristics t an extent greater than normally found in servic stations. A service station is not a repair garage or body shop.

185.245 Setback.

Sec. 2.45. Distance from the right-of-way lines c streets to the building line for the purpose of definin limits within which no building or structure, or an part thereof, shall be erected or permanently main tained.

185.246 Shopping center.

Sec. 2.46. A group or groups of three (3) or mor commercial establishments developed in accordance t an overall plan and design and built as an interrelate project.

185.247 Sign.

Sec. 2.47. Any device designed to inform or attrac the attention of persons not on the premises on whic the sign is located; excepting, however, the followin which shall not be included within this definition:

A. Signs not exceeding 10 square feet in area an bearing only property numbers, post box num bers, names of occupants of premises, or othe identification of premises not having commercia connotations;

B. Flags and insignia of any government, except when displayed in connection with commercial promotion;

C. Legal notices; identification, informational, or directional signs erected or required by governmental bodies;

D. Integral decorative or architectural features of buildings, except letters, trademarks, moving parts, or moving lights;

E. Signs directing and guiding traffic and parking on private property, but bearing no advertising matter.

185.248 Sign area.

Sec. 2.48. The area of a sign consisting of the entire surface of any regular geometric form, or combinations of regular geometric forms, comprising all of the display area of the sign and including all of the elements of the matter displayed. Frames and structural members not bearing advertising matter shall not be included in computation of such area.

185.249 Sign, on-site.

Sec. 2.49. A sign relating in its subject matter to the premises on which it is located, or to products, accommodations, services, or activities on the premises.

185.249A Sign, off-site.

Sec. 2.49A. A sign other than an on-site sign.

185.250 Standard sheet.

Sec. 2.50. A sheet which measures 8½ inches by 11 inches or consists of multiples of such dimensions such that a larger sheet can be folded into such dimensions.

185.251 Story.

Sec. 2.51. That part of a building included between the surface of any floor and the surface of the floor or roof, next above. When the distance from the average established grade to the ceiling of a portion of a structure partly below such grade is greater than the distance from the average established grade to the floor, such portion shall constitute a story.

185.252 Street.

Sec. 2.52. A public thoroughfare which affords a principal means or access to abutting property, and with a right-of-way exceeding 30 feet.

185.253 Structure.

Sec. 2.53. Anything constructed or erected with a fixed location on the ground, or attached to something having a fixed location on the ground. Among other things, structures include buildings, mobile homes, walls, fences, billboards, and poster panels.

185.254 Structure, two family residential.

Sec. 2.54. A dwelling occupied by but two (2) families and so designed and arranged as to provide living cooking and sleeping accommodations for two (2) families only.

185.255 Structure, three family residential.

Sec. 2.55. A dwelling occupied by but three (3) families and so designed and arranged as to provide living, cooking and sleeping accommodations for three (3) families only.

185.256 Structure, multiple family.

Sec. 2.56. A dwelling containing four (4) or more dwelling units and which shall be further classified as one of the following:

A. *Townhouse,* a multiple family structure which contains direct, private access to all dwelling units.

B. *Garden Apartment,* a multiple family structure which contains semiprivate access to dwelling units in which no more than four such units have access from a single hallway on a given floor, and which contains three or less floors.

C. *Apartment-low rise,* a multiple family structure which has access to more than four dwelling units from a single hallway on a given floor, and which contains three or less floors.

D. *Apartment-high rise,* a multiple family dwelling which has more than three floors.

185.257 Township.

Sec. 2.57. The Township of Genesee, Genesee County, Michigan.

185.258 Township board.

Sec. 2.58. The Township Board of the Township of Genesee, Genesee County, Michigan.

185.259 Township planning commission.

Sec. 2.59. The Genesee Township Planning Commission as established by the Genesee Township Board under provisions of the Township Planning Commission Act, being Act 168, Public Acts of 1959, as amended, and referred to alternatively as the Commission.

185.260 Travel trailer.

Sec. 2.60. A vehicular, portable structure built on a chassis, designed to be used as temporary dwelling for travel and recreational purposes, having a body width not exceeding eight (8) feet and a length not to exceed thirty-five (35) feet.

185.261 Travel trailer park.

Sec. 2.61. A park licensed under the provisions of the Trailer Coach Park Act of 1959, being Act 243, Public Acts of 1959, as amended, and being designed specifically to permit the parking of travel trailers.

185.262 Variance.

Sec. 2.62. An authorization permitting change i the requirements of this Ordinance by the Board (Appeals in cases where the general requirements (this Ordinance and the literal enforcement of suc would result in an unnecessary and undue hardshi upon the variance applicant.

185.263 Yard.

Sec. 2.63. A required open space, other than a cour unoccupied and unobstructed by any structure or po tion of a structure from thirty (30) inches above th general ground level of the graded lot upward; pr vided however, that fences, walls, poles, posts, an other customary yard accessories, ornaments, and fu niture may be permitted in any yard, subject to heigh limitations and requirements limiting obstruction (visibility.

185.264 Yard, front.

Sec. 2.64. A yard extending between side lot line across the front of a lot and adjoining a public street

185.265 Yard, side.

Sec. 2.65. A yard extending from the rear line of th required front yard and being between the principa structure and side lot line to the rear yard or, in th absence of any clearly defined rear yard, to the point o the lot farthest from the intersection of the lot lin involved with the public street.

185.266 Yard, rear.

Sec. 2.66. A yard extending across the rear of th lot between inner side yard lines. In the case of throug lots and corner lots, there will be no rear yards, bu only front and side yards.

ARTICLE III

185.300 ZONING MAP AND DISTRICTS

185.301 Zoning district map.

Sec. 3.01. The land areas and sizes of dwellings assigned to the zoning districts, the designation o same, and the boundaries of said districts are shown or the map attached hereto and made part of this Ordi nance, said map being designated as the Zoning Dis trict Map showing use districts and building districts in the unincorporated portions of this Township and said map and the proper notations, references and other information shown thereon shall be as much a part of this Ordinance as if the matters and informa tion set forth by said map were all fully described herein.

185.302 Zoning districts.

Sec. 3.02. For the purpose of this Ordinance all o the unincorporated area of the Township is divided into the following use zoning districts:

RA - Residential Agricultural District

RSA - Residential Suburban Agricultural District

RU-1 - Residential Urban District

RU-2 - Residential Urban Multiple Family District

C-1 - Commercial Local District

C-2 - Commercial General District

C-3 - Commercial Recreation District

M-1 - Light Industry

M-2 - General Industry

185.303 Bulk and density regulations.

Sec. 3.03. The following Table 1 specifies the required lot area per family, building setback, dimensions, minimum lot frontage, maximum building heights, and maximum lot coverage for buildings in all use zoning districts.

TABLE I
BULK AND DENSITY REGULATIONS

District	Use (k)	Minimum Lot Area Per Family (Sq. Ft.)	Minimum Building Setbacks			Minimum Lot Frontage (a)	Maximum Building Height Feet	Floors	Maximum Lot Coverage (c)
			Front Yard(b)	Side Yard	Rear Yard				
RA	Residential Agricultural	43.560	50 ft.	30 ft.	50 ft.	120 ft.	35 ft. (j)	3	—
RSA	Residential Suburban Agricultural	15,000 (c)	35 ft.	20 ft.	40 ft.	100 ft.	35 ft.	3	—
RU-1	Residential Urban	9,000 (c)	25 ft.	— (d)	30 ft.	75 ft.	35 ft.	3	—
RU-2	Residential Urban	9,000 (1 fam.)	25 ft.	10 ft. (d)	30 ft.	60 ft.	35 ft.	3	—
		6,000 (2-3 fam.)	25 ft.	10 ft. (d)	20 ft.	80 ft.	35 ft.	3	30 percent
		5,000 (mult. fam.)	25 ft.	5 ft. (e)	20 ft.	100 ft.	35 ft.	3	40 percent
C-1	Neighborhood Commercial	(no res.)	25 ft.	— (g)	20 ft.	—	25 ft.	2	FAR-1
C-2	General Commercial	(no res.)	50 ft.	— (g)	20 ft.	—	60 ft.	4	FAR-4
C-3	Commercial Recreation	(no res.)	50 ft.	25 ft. (h)	— (h)	—	— (i)	—	—
M-1	Light Industry	(no res.)	50 ft.	25 ft. (h)	30 ft.	—	35 ft.	2	30 percent
M-2	General Industry	(no res.)	25 ft.	25 ft. (h)	— (h)	—	— (i)	—	—

Footnotes to Table I:

(a) Lot frontage is to be measured at the front yard building line.

(b) Shall be 50 feet for a lot in any residence district which abuts a major street so designated in the major roadway plan of the Genesee Township Basic Plan.

(c) Shall be 20,000 square feet for lots not served by public sanitary sewer.

(d) (1) Lots having frontage in excess of 75 feet: Side yards must total 20 feet. Side yards adjoining an attached garage may be a minimum of 7 feet so long as the total 20 feet is provided.

(2) Lots having frontage of 75 feet or less. Side yard setback is 5 feet and side yards must total 10 feet.

(e) Shall be increased by one-half foot for each foot a building adjacent to a lot line exceeds 25 feet in height.

(f) The percent of the lot area occupied by the primary structure. FAR denotes the ratio of the total structure(s) area to the lot area.

(g) A 10 foot side yard set back when it adjoins a residence district and no side yard set back when it adjoins a commercial district and a solid fireproof wall is used.

(h) Shall be 50 feet when a lot adjoins a residence district.

(i) No maximum height. When a structure or portion thereof exceeds 35 feet in height, all applicable setbacks shall be increased by one-half foot for every foot the structure or portion thereof exceeds 35 feet.

(j) No maximum height for farm service buildings set a minimum of 100 feet from property boundaries.

(k) When a part of a planned development project densities of dwellings, in permitted districts, shal be those set in article IV, section 4.04 [185.404](23)

(l) In RU-1 District and RU-2 District, accessor buildings must be located so as to allow a 3 foo side yard setback, a 5 foot rear yard setback an not closer than 10 feet from the main structure.

(Amended: Ord. No. 263, 8-14-78)

185.304 Residential Agricultural Districts (RA).

Sec. 3.04. The following regulations shall apply t all Residential Agricultural Districts (RA):

Sec. 3.04-1. *Uses permitted:* No structure or par thereof shall be erected, altered, or used and no lan may be used except for one or more of the followin purposes:

A. General or specialized farming, truck gardening greenhouses, nurseries, and fowl and rabbit rais ing, providing no killing shall be done on the farn other than of animals raised on the farm.

1. On farms devoted to the housing or breedin of cattle, swine, sheep or goats, no pens corrals, or barns shall be closer than tw hundred (200) feet to any side property lin or less than one hundred fifty (150) feet t any existing right-of-way; provided furthe that the minimum side yard setback shall b reduced one foot for each additional foot tha the barn, pen or corral is set back from th existing right-of-way over one hundred fift (150) feet; provided further that the sid yard setback shall not be reduced below minimum of fifty (50) feet.

2. Barns and appurtenances thereto which ar in existence at the time of passage of thi Ordinance shall be excluded from the abov setback requirements under the non-conform ing use provisions of this Ordinance.

3. Farmers are permitted to pasteurize milk from their own farms as well as those of other farms.
4. Minimum land area required for the above purposes shall be ten (10) acres.

B. The keeping of horses for recreational purposes shall be permitted in a Residential Agricultural District upon a land area of less than ten (10) acres provided that such use shall be for the private personal use of the owner or lessee of such land, his family, and friends and shall not constitute a commercial occupation nor a public stable.

1. No barns, pens or corrals shall be located closer than two hundred (200) feet from all property lines or less than one hundred fifty (150) feet from all street right-of-way lines; provided further that the minimum side yard setback shall be reduced one foot for each additional foot that the barn, pen or corral is setback from the existing right-of-way over one hundred fifty (150) feet; provided further that the side yard setback shall not be reduced below a minimum of fifty (50) feet.
2. At least four acres shall be provided for the first horse kept on a property and one acre per horse thereafter, except that properties for which Board of Appeals approval has been obtained at the time of passage of this Ordinance may be continued under the non-conforming use provisions of this Ordinance.
3. Foals born on parcels where horses are kept may be kept on said parcel for two (2) years even though such additional horses may increase the number of horses on such parcel beyond the one horse per four acres and one horse per acre requirements, but in no case shall there be no more than one horse and one foal for the first four acres and one horse and one foal per acre thereafter.

C. Detached one-family dwelling.

D. Home occupations.

E. Accessory structures.

F. On-site signs as provided in Article IX [185.900].

G. Convalescent homes.

H. Commercial activities located on farms and limited to the sale of produce on such farms.

I. Roadside stands.

J. Off-site signs as provided in Article IX [185.900].

185.305 Residential Suburban Agricultural Districts (RSA).

Sec. 3.05. The following regulations shall apply to all Residential Suburban Agricultural Districts (RSA):

Sec. 3.05-1. *Uses permitted:* No structure, or part thereof, shall be erected, altered or used, and no land shall be used except for one or more of the following:

A. All uses permitted in the RA District and subject to the same standards as required in such district provisions, except as otherwise permitted within this Ordinance.

185.306 Residential Urban Districts (RU-1).

Sec. 3.06. The following regulations apply to all Residential Urban Districts (RU-1):

Sec. 3.06-1. *Uses permitted:* No structure or part thereof, shall be erected, altered, or used, and no land shall be used except for one or more of the following:

A. Detached one-family dwelling.

B. Home occupations.

C. Accessory structures.

D. Plant cultivation including the sale of products grown on the premises and excluding the commercial raising, feeding, or slaughtering of livestock or poultry.

185.307 Residential Multiple Family Districts (RU-2).

Sec. 3.07. The following regulations apply to all Residential (Multiple Family) Districts (RU-2):

Sec. 3.07-1. *Uses permitted:* No structure, or part thereof shall be erected, altered, or used, and no land shall be used except for one or more of the following:

A. A Detached one-family dwellings.

B. Two and three family dwellings.

C. Multiple family structures.

D. On-site signs as provided in Article IX [185.900].

E. Accessory buildings.

Sec. 3.07-2. *Site plan review:* All proposed structures or uses of land or structures shall be subject to the site plan review procedures of Article X [185.1000].

185.308 Local Commercial Districts (C-1).

Sec. 3.08. The following regulations shall apply to all Local Commercial Districts (C-1):

Sec. 3.08-1. *Uses permitted:* No structure or part thereof, shall be erected, altered or used, and no land shall be used except for one or more of the following:

A. Professional and business offices and similar activities employing a predominantly clerical staff which is not engaged in retail sales on the premises of articles or products of a tangible nature and where no heavy or noisy machinery is utilized in the operation of the business. Permitted uses shall include the following:

1. Abstract office.
2. Accountant.
3. Advertising.
4. Appraiser.
5. Architect.

6. Bank and/or trust company.
7. Bonding company.
8. Brokerage house.
9. Building contractor office (not including equip ment or material storage).
10. Building and loan association.
11. Buildings, office.
12. Chiropodist.
13. Chiropractor.
14. Christian science practitioner.
15. Collection agency office.
16. Commission house, office.
17. Credit reporting bureau.
18. Credit unit office.
19. Dentist.
20. Detective agency.
21. Doctor and other medical professionals.
22. Electric light and power company or tele phone company, office and billing.
23. Engineer office.
24. Finance companies, loan offices.
25. Insurance office.
26. Lawyer.
27. Office service (stenographic service, lette preparation, addressing and mailing, dupli cating, multigraphing, mimeographing, ma chine tabulation, research, and statistical).
28. Real estate sales office.
29. Restaurant, without drive-in service, an not serving alcohol.

B. Business activities of a local or neighborhoo character, conducted within an enclosed buildin

only, providing necessary services for day to day operation of a household, and which can be supported economically by a small neighborhood area, including the following:

1. Bakery shop where no baking is done on the premises.
2. Barber and beauty shop.
3. Cigar shop.
4. Cleaning and dyeing distribution shop (no processing).
5. Dairy products, retail sales.
6. Dressmaker, custom.
7. Drugstore.
8. Florist, retail sales.
9. Laundry, collecting shop, self-service laundry, hand laundry.
10. Local store selling, at retail, fish, fruit, food, hardware, meats (no killing), vegetables, and beer and wine under SDM license.
11. Newsstand.
12. Shoe repair.
13. Stationery store.
14. Tailor shop catering to custom tailoring and minor cleaning and pressing activities.

C. Signs as provided in Article IX [185.900].

Sec. 3.08-2. *Site plan review:* All proposed structures or uses of land or structures shall be subject to the site plan review provisions of Article X [185.1000].

Sec. 3.08-3. *Merchandise displays:* Merchandise may be displayed or stored only within the established building setback line but not on public property.

Sec. 3.08A. *Parking:* Parking areas shall be provided as required in Article VIII [185.800]; provided

further that there shall be dedicated to the Township an easement to be regulated by the Township Board upon the advice and recommendation of the Township Planning Commission, providing for vehicle access to adjacent parking lots to minimize the need for drive ways to each land use area and thereby decreasing hazards to vehicular traffic. The advice and recommendation of the Township Planning Commission shall cover the design and layout of the entire parking area including roadways, and be based on documented findings of safe ingress and egress from the public right of-way and maneuvering within said parking area, and such other requirements as deemed necessary to provide a safe and healthy environment for the general public.

Sec. 3.08-5. *Loading and unloading:* Loading and unloading areas as required by Article VIII [185.800 shall be provided.

185.309 General Commercial Districts (C-2).

Sec. 3.09. The following regulations shall apply to General Commercial Districts (C-2):

Sec. 3.09-1. *Uses permitted:* No structure, or part thereof, shall be erected, altered or used, and no land shall be used except for one or more of the following:

A. Any use in the C-1 District.

B. Business and commercial activities, conducted within an enclosed building only, of a general character of large service activity and normally depending for support on more than a neighborhood area and including the following:

1. Art, antique, book, curio, gift, or novelty shop.
2. Auction or secondhand store.
3. Auditorium.
4. Bakeries.

5. Ballroom.
6. Billboards, lighted and unlighted as permitted in Sec. 3.21.
7. Blueprinting or photostating.
8. Bowling alley, or billiard or pool hall.
9. Broadcasting or recording studio, radio or television.
10. Casket sales.
11. Catering establishment.
12. Cleaning establishment.
13. Clothing store.
14. Community auction sales area.
15. Dance Hall-Dancing School.
16. Delicatessen.
17. Department store and/or variety store.
18. Dress shop.
19. Drygoods store.
20. Express office and/or terminal without warehousing or wholesaling.
21. Floor covering and wallpaper store.
22. Furniture and/or appliance store.
23. Ice skating and roller rinks.
24. Interior decorating store.
25. Intoxicating liquor, package sales.
26. Jewelry store.
27. Kennel for boarding only of dogs, cats, and other household pets, no outside runs permitted.
28. Millinery store.
29. Motels or hotels.
30. Movers, terminal, garage and storage without warehousing or wholesaling.

31. Nursery or greenhouse.
32. Pawn shop.
33. Pet shop, bird store or taxidermist.
34. Photographer.
35. Schools of commercial art, private busines and commercial schools, correspondence an stenographic schools.
36. Supermarket.
37. Turkish bath.
38. Weaving, custom.
39. The following general sales and service uses

    Agricultural implements, equipment and ma chinery; aircraft; automobiles, automotiv parts; supplies and mechanical repair; bicy cles; boats and marine supplies; busines machines; feed; fuel; hardware; ice; indus trial and residential machinery and tools motorcycles and motor scooters; office equip ment; plumbing and heating; radio and tele vision; and utility trailers; provided tha storage only for such uses shall be in an are enclosed by a solid wall, evergreen hedge, o uniformly painted solid board fence not les than five (5) feet high, but only when suc areas have been treated or surfaced so as t prevent dust or dirt from blowing. Parkin areas must be protected by posts, curbs, o similar construction to prevent encroach ment upon adjacent properties.

Sec. 3.09-2. *Site plan review:* All proposed struc tures, or uses of land or structures shall be subject t the site plan review provisions of Article X [185.1000]

Sec. 3.09-3. *Merchandise displays:* Merchandise ma be displayed or stored only within the establishe building setback line but not on public property.

Sec. 3.09-4. *Parking:* Parking areas shall be provided as required in Article VIII [185.800]; provided further that there shall be dedicated to the Township an easement to be regulated by the Township Board, upon the advice and recommendation of the Township Planning Commission, providing for vehicle access to adjacent parking lots to minimize the need for driveways to each land use area and thereby decreasing hazards to vehicular traffic. The advice and recommendation of the Township Planning Commission shall cover the design and layout of the entire parking area, including roadways, and be based on documented findings of safe ingress and egress from the public right-of-way and maneuvering within said parking area, and such other requirements as deemed necessary to provide a safe and healthy environment for the general public.

Sec. 3.09-5. *Loading and unloading:* Loading and unloading areas as required by Article VIII [185.800] shall be provided.

185.310 Commercial Recreation Districts (C-3).

Sec. 3.10. The following regulations apply to all Commercial Recreation Districts (C-3):

Sec. 3.10-1. *Uses permitted:* No building or structure, or part thereof shall be erected, altered or used, and no land shall be used except for one or more of the following uses, and access is to a paved primary road, to-wit:

A. All uses in the RSA District.

B. Public and private golf courses, lighted and unlighted and normal locker and commercial restaurant facilities connected therewith. Alcoholic beverages for consumption on the premises wholly within an enclosed building shall be allowed as part of the restaurant facilities of golf course

provided that such use shall be incidental an subordinate to the primary development of sai golf course.

C. Horse race tracks and normal commercial an restaurant facilities connected therewith. Alco holic beverages for consumption on the premise wholly within an enclosure shall be allowed a part of the restaurant facilities of a horse rac track provided that such use shall be incidenta and subordinate to the primary developments o horse race tracks. Automobile race tracks shal not be permitted.

D. Public horse stables and riding facilities.

E. Outdoor and indoor sports stadiums and norma commercial and restaurant facilities connecte therewith. Alcoholic beverages for consumptio on the premises wholly within an enclosure shal be allowed as part of the restaurant facilities of a outdoor and indoor sports stadium provided tha such use shall be incidental and subordinate t the primary development of outdoor and indoo stadiums.

F. Winter sports recreational facilities.

G. Amusement park or arcade.

H. Carnival or circus or amusement enterprise of similar type.

I. Fairgrounds.

Sec. 3.10-2. *Site plan review:* All proposed struc tures, or uses of land or structures shall be subject t the site plan review provisions of Article X [185.1000]

Sec. 3.10-3. *Parking:* Parking areas shall be pro vided as required in Article VIII [185.800]; provide further that there shall be dedicated to the Townshi an easement to be regulated by the Township Board upon the advice and recommendation of the Townshi Planning Commission, providing for vehicle access t

adjacent parking lots to minimize the need for driveways to each land use area and thereby decreasing hazards to vehicular traffic. The advice and recommendation of the Township Planning Commission shall cover the design and layout of the entire parking area, including roadways, and be based on documented findings of safe ingress and egress from the public right-of-way and maneuvering within said parking area, and such other requirements as deemed necessary to provide a safe and healthy environment for the general public.

Sec. 3.10-4. *Loading and unloading:* Loading and unloading areas as required by Article VIII [185.800] shall be provided.

185.311 Light Industry Districts (M-1).

Sec. 3.11. The following regulations shall apply to Light Industry Districts (M-1):

Sec. 3.11-1. *Uses permitted:* No structure, or part thereof, shall be erected, altered, or used, and no land shall be used except for one or more of the following:

A. The following uses which must be conducted wholly within an enclosed building except for on-site delivery vehicles:

   1. The manufacturing, compounding, processing and packaging or treatment of bakery goods, candy, cosmetics, dairy products, drugs, perfumes, pharmaceuticals, toiletries, condiments, (except fish, meat, fowl, vegetables, vinegar and yeast).

   2. The manufacturing, compounding, assembling or treatment of articles of merchandise from the following previously prepared materials: bone, cellophane, fur, glass, hair, horn, leather, paper, plastics, precious or semi-precious metals or stones, shell, tex-

tiles, tobacco, wood (excluding planing mill) yarns, and paint not requiring a boilin process.

3. The manufacturing of musical instruments toys, novelties, rubber or metal stamps.
4. The manufacturing of pottery, figurines, o similar ceramic products, using previousl pulverized clay.
5. The manufacturing of and maintenance o electric and neon signs, billboards, commer cial advertising structures, sheet (light) meta products, including heating and ventilatin ducts and equipment, cornices, eaves an the like.
6. Blacksmith shop or machine shop, wrough iron shop excluding punch presses over on half inch capacity or delivering more than 1 strokes per minute, drop hammers, and au tomatic screw machines.
7. Laundry, cleaning and dyeing works an carpet or rug cleaning.
8. Distribution plants, parcel delivery service ice and cold storage plants.
9. Assembly of electrical appliances, electroni instruments and devices, radios and phono graphs, including the manufacture of smal parts, such as condensers, transformers, crys tal holders, and the like.
10. Laboratories, experimental or testing.
11. Poultry or rabbit killing incidental to a retai business on same property.

B. Building material sales yard, including but no limited to rock, sand, gravel and the like (exclud ing concrete mixing).

C. Contractors equipment storage yard or plant o centers.

D. Retail lumber yard including incidental millwork.

E. Coal yard.

F. Draying, freighting or trucking terminals.

G. Plumbing or sheet metal shop.

H. Freight yards.

I. Public utility service yard or electrical receiving transforming station.

Sec. 3.11-2. *Site plan review:* All proposed structures, or uses of land or structures shall be subject to the site plan review provisions of Article X [185.1000].

Sec. 3.11-3. *Parking:* Parking areas shall be provided as required in Article VIII [185.800]; provided further that there shall be dedicated to the Township an easement to be regulated by the Township Board, upon the advice and recommendation of the Township Planning Commission, providing for vehicle access to adjacent parking lots to minimize the need for driveways to each land use area and thereby decreasing hazards to vehicular traffic. The advice and recommendation of the Township Planning Commission shall cover the design and layout of the entire parking area, including roadways, and be based on documented findings of safe ingress and egress from the public right-of-way and maneuvering within said parking area, and such other requirements as deemed necessary to provide a safe and healthy environment for the general public.

Sec. 3.11-4. *Loading and unloading:* Loading and unloading areas as required by Article VIII [185.800] shall be provided.

185.312 General Industry Districts (M-2).

Sec. 3.12. The following regulations shall apply to General Industry Districts (M-2):

Sec. 3.12-1. *Uses permitted:* No structure, or part thereof, shall be erected, altered, or used, and no land shall be used except for one or more of the following:

A. Any use permitted within the M-1 District.

B. The following activities involving the manufacturing, assembly, processing, storage, packing and/or treatment of raw materials or previously processed material:

1. Acetylene gas manufacture.
2. Ammonia, bleaching powder or chlorine manufacture.
3. Asphalt mixing plant, manufacture, or refining.
4. Automobile assembly, tire recapping or retreading, battery manufacture.
5. Boiler works.
6. Brick, tile or clay products manufacture.
7. Chemical manufacture.
8. Concrete or cement products manufacture.
9. Dye stuff manufacture.
10. Food processing, smoking, curing or canning.
11. Freight classification yards.
12. Iron, steel, brass, or copper foundry or fabrication plant.
13. Oil drilling and production of oil, gas, or hydrocarbons.
14. Paint, oil (including linseed), shellac, turpentine, lacquer, or varnish manufacture.
15. Power plants.

16. Quarry and stone mill.
17. Railroad repair shop.
18. Rolling mills.
19. Rubber manufacture.
20. Salt works.
21. Soap manufacture.
22. Stove or shoe polish manufacture.
23. Tar or tar products manufacture or distilling.
24. Wholesale storage of petroleum.
25. Wool pulling or scouring.

Sec. 3.12-2. *Site plan review:* All proposed structures, or uses of land or structures shall be subject to the site plan review provisions of Article X [185.1000].

Sec. 3.12-3. *Parking:* Parking areas shall be provided as required in Article VIII [185.800]; provided further that there shall be dedicated to the Township an easement to be regulated by the Township Board, upon the advice and recommendation of the Township Planning Commission, providing for vehicle access to adjacent parking lots to minimize the need for driveways to each land use area and thereby decreasing hazards to vehicular traffic. The advice and recommendation of the Township Planning Commission shall cover the design and layout of the entire parking area, including roadways, and be based on documented findings of safe ingress and egress from the public right-of-way and maneuvering within said parking area, and such other requirements as deemed necessary to provide a safe and healthy environment for the general public.

Sec. 3.12-4. *Loading and unloading:* Loading and unloading areas as required by Article VIII [185.800] shall be provided.

185.313 Principal conditional uses.

Sec. 3.13. Any use authorized in a Commercial Lo cal District (C-1) and any use authorized in a Commer cial General District (C-2) shall be permitted in an Light Industry District (M-1) and in any Genera Industry District (M-2) when authorized by the Town ship Planning Commission after a hearing upon a application therefor in accordance with Sec 10.01[185.1001]F of Article X. (82-2R)
(Amended: Ord. No. 330, 9-27-82)

185.313A Elderly housing district (EH).

Sec. 3.13. The following regulations shall apply t all Elderly Housing Districts (EH):

Sec. 3.13-1. *Uses permitted:* No structure, or par thereof, shall be erected, altered or used, and no lan shall be used, except for the following:

A. Residential accommodations, including units i apartment houses, garden apartments an townhouses, but not including motels, roomin houses or tourist homes. Dwelling units may b the one-room-efficiency type or may have one (1 or two (2) bedrooms. In no event, however, shall dwelling unit have more than two (2) bedroom nor shall the number of efficiency-type apar ments exceed twenty-five (25%) per cent of th total dwelling units. All rooms of a dwelling un must be on one (1) level.

B. Recreational and cultural facilities for the sol use of residents and their guests, which ma include but are not limited to the following: lake golf courses, picnic grounds, sitting areas, grou game areas and swimming pools.

C. Accessory uses: Necessary accessory building and uses, such as barbershops, cafeterias, libra

ies, medical offices and other similar on-site services to be rendered primarily for the benefit of the residents and guests.

D. Occupancy of the dwelling units shall be limited to persons who are fifty-five (55) years of age or over, with the following exceptions:

(1) A husband or wife under the age of fifty-five years who is residing with his or her spouse who is fifty-five (55) years of age or over.

(2) Children and grandchildren residing with their parents or grandparents where one (1) of said parents or grandparents with whom the child or children or grandchild or grandchildren is residing is fifty-five (55) years of age or older, provided that said child or children or grandchild or grandchildren are over the age of nineteen (19) years.

(3) Adults under fifty-five (55) years of age may be admitted as permanent residents if it is established to the satisfaction of the Township Board that the presence of such person is essential for the physical care or economic support of eligible older persons.

Sec. 3.13-2. *Site plan review:* All proposed structures or uses of land or structures shall be subject to the site plan review provisions of Article X [185.1000]. In addition to the criteria set forth in Article X [185.1000] for the site plan review, the Township Planning Commission, in the site plan review, shall consider the following:

The architectural design and location of all buildings, the site selection and recreational facilities must be consistent with the ultimate purpose of achieving independent, self-reliant and pleasant living arrangements for a group of older persons and should take into account the desires and needs of older persons for privacy, participation in social and community activities and access to

community facilities. Consideration shall be give in planning walks, ramps and driveways to pre vent slipping or stumbling, and handrails an ample places for rest shall be provided. All out door areas available to the residents shall permi them to move about without danger and witl minimum effort. At the same time, provision should be made to accommodate the limitation that sometimes accompany advanced years s that independent living can be sustained as lon as possible.

Sec. 3.13-3. *Minimum requirements:* A site develop ment plan shall meet at least the following minimun requirements:

A. Minimum area: The minimum area shall be fiv (5) acres, except that an area of less than five (5 acres may be added to an existing Elderly Hous ing District if it is adjacent thereto.

B. Residential density: There shall be a minimun area of 4200 square feet of land zoned Elderl Housing District for each dwelling unit.

C. Building area: Principal and accessory building shall together not cover more than forty (40% percent of the gross area.

D. Habitable Area: Each dwelling unit shall contai the minimum habitable floor area, as follows:

(1) One room efficiency units ..... 550 sq. fee

(2) One bedroom units ..... 550 sq. fee

(3) Two bedroom units ..... 720 sq. fee

E. Height: No building shall exceed thirty-five (35 feet. There shall be no height limit on flag poles domes, spires, chimneys, skylights, water tanks elevator shaft enclosures, television antennas an other necessary appurtenances usually place above the roof level, provided that they shall b erected only to the minimum height necessary t

accomplish the purpose they are intended to serve and which present no hazard to abutting properties. Such bulky appurtenances as elevator shaft enclosures shall be enclosed within walls of material and designed in harmony with the main walls of the building on or near which they are located.

F. Yard requirements: No building or structure other than walls or fences shall be located within thirty (30) feet of any exterior boundary line.

G. Off-street parking: There shall be provided at least one and one-half (1.50) parking spaces for each dwelling unit.

Sec. 3.13-4. *Supplemental requirements:*

A. All doors shall be of sufficient width to accommodate wheel chairs.

B. All areas of public use shall have doors of sufficient width to accommodate wheel chairs.

C. Wherever steps are located, ramps or elevators shall be provided in addition.

D. Cooking units shall have no open flame.

E. Emergency signal facilities shall be provided in each residential unit and shall register a signal at a central location.

F. Electric outlets shall be located at least 24 inches above floor level.

G. Grab bars shall be located around all tubs and showers.

H. Toilet areas shall be adaptable for the installation of grab bars.

I. All floor surfaces shall be nonskid.

J. Central heating and air conditioning shall be individually adjustable for each residential unit.

K. Artificial lighting of the grounds shall provide illumination sufficient for the convenience and safety of the residents.

L. Shower stalls shall include a built-in seat or shal provide room enough for a bath stool.

M. The size of the bathroom and arrangement of the fixtures, accessories and trim shall be selected fo and provide the maximum features of design tha contribute to the safety, convenience and aid t older persons.

N. Single riser grade changes in walks shall not b permitted.

(Amended: Ord. No. 343, 2-11-85)

ARTICLE IV

185.400 CONDITIONAL USES

185.401 Purpose.

Sec. 4.01. The principal objective of this Ordinanc is to provide for the orderly placement and use of lan and buildings in order to minimize the social, economi and physical welfare of the Township. Most uses ar allowed within a specific district, with regulation applying to all uses allowed within that district. Som activities, however, have characteristics which requir specific conditions in order to ensure their own prope functioning or to avoid possible adverse effects t adjacent property. Even though they are encourage within their permitted zoning district, a site plan mus be submitted and approved to establish conformanc with regulations of this Article.

185.402 Environmental statements.

Sec. 4.02. In addition to the requirements con tained in this ordinance, the Planning Commissio may require submission of an environmental impac statement assessing specified features of the propose project or use.

A. Upon decision by the Commission that element of the proposed Conditional Use might adversel affect environmental elements, it may requir assessment of one or more of the following ele ments. The statement shall be received prior t action by the Commission on the conditional us application.

(1) Soils, flora, and fauna

(2) Surface water, ponds, streams, flood plains

(3) Subsurface water, wells, and aquifers

(4) Ambient air quality, smoke, dust, and odor

(5) Noise

(6) Historic or cultural facilities or areas

B. The Environmental Statement shall consist of the following:

(1) Description of existing conditions, setting, or features. Inventories and/or base data shall be included if relevant to the analysis.

(2) Description of probable effects of the proposed action, quantified where possible.

(3) Reference to appropriate and applicable standards. In the case any standard is exceeded by the proposed project, modifications or alternatives shall be indicated which would bring the project into compliance.

185.403 Screening and buffers.

Sec. 4.03. One concern, common to most conditional uses, is the adequate screening of buildings, activities or parking from adjoining properties.

This protection shall be offered by either a landscape buffer or by screening. A landscape buffer shall consist of a landscaped and planting strip, of a specified width and containing evergreen planting. Evergreen and deciduous shrubs, bushes, and trees are all permitted, although the primary objective of a landscape buffer is to provide a year-round visual border of moderate visual height, 3 to 5 feet.

Screening requirements can be satisfied by screen planting of evergreens or by erection of a screen fence.

185.404 Permitted conditional uses.

Sec. 4.04. The following uses require conditional use approval and are subject to the specific conditions contained herein. All other regulations for specific zoning districts apply unless specifically modified herein.

(1) Gasoline or service stations:

(a) These uses are allowed only in the C-2 General Commercial, or any "M" district.

(b) The required site plan drawing shall include the location of buildings, drives, pumps, underground storage tanks, signs, screening or fences, and lighting.

(c) A service station site shall be required to have a minimum area of 15,000 square feet. On a corner lot, minimum frontage on a street shall be 100 feet. In addition, there shall be a requirement of 2,000 square feet extra for any additional service bays over three. On interior sites, minimum frontage shall be 150 feet with a depth of 100 feet.

(d) The minimum distance between a pump island curb and a front or side street shall be 10 feet. A pump island can be placed at the rear property line only if a masonry wall of acceptable size and quality is erected. Then such an island shall be only of the single access variety.

(e) There shall be two parking spaces per service bay with three additional spaces.

(f) Curb openings and driveways shall be a minimum of twenty-four feet in width. They shall be located a minimum of twenty feet from adjacent property; a minimum of thirty feet from a street or alley intersection when located on a minor street; a minimum of sixty feet from a street or alley intersection when located on a major street.

Driveways shall be located no closer to each other than forty feet when on a minor street. A minimum of 125 feet of frontage is required for two (2) curb openings.

(g) A six (6) foot high screen fence shall be provided on all lot lines adjoining an "R district.

(h) A minimum twenty (20) foot side yard setback shall be maintained.

(i) No permanent storage of disabled vehicles shall be made on this site.

(j) No pumps shall be located within fifty feet of an "R" Residence District, and shall be a minimum of fourteen feet from all right of way lines.

(k) Any gasoline or service station shall have its primary frontage on a major street.

(l) No luminaire shall be directly visible from an adjoining "R" district.

(m) A gasoline or service station must be removed if abandoned or if use is discontinued. For purposes of this ordinance, this is defined to be a gasoline or service station which accumulates a period totalling twelve months of no operation since its last period of six months of continuous operation. If this condition is deemed met by the Building Inspector, he shall send notice to the owner of record of said gasoline or service station that the station is considered to be abandoned. The owner or last operator has sixty days after issuance of said notice to:

a. demonstrate that the gasoline or service station was not abandoned according to the criteria of this paragraph,

b. obtain an occupancy permit from the Township for another use permitted within this district, or

c. remove all structures, pumps and islands, signs and standards, and fill all buried tanks with sand.

If none of these conditions is met within the allowed sixty (60) days, the Township shall remove all structures, pumps and islands,

signs and standards, and fill all buried tanks and shall assess the cost against the property.

(2) Automobile wrecking, scrap, and junk yards including or processing of automobiles, scrap, or junk:

(a) These uses are allowed only in the M-2 General Industry District.

(b) These uses must be carried on within an enclosed building or when the premises or which said uses are carried on are used and developed in accordance with the following

1. A buffer zone of at least forty (40) feet adjacent to all right-of-ways, which buffer shall be landscaped with lawn and evergreens or other suitable plantings, and shall be used for no other purposes.

2. The yard within which the business is conducted shall be enclosed on all sides by a tight unpierced fence or wall or relative durable material not subject to dry rot or termite attack, except for gates and places of ingress and egress with a height of not less than eight (8) feet.

3. The fence or wall shall be maintained in such a manner that its initial appearance at time of installation is maintained.

(c) No open burning, cutting or processing is permitted.

(3) Airports and landing fields:

(a) These uses are allowed in any "M" industrial or RA Residence Agricultural District.

(b) The required site plan shall show the location of all the landing strips or runways

taxiways and aircraft parking areas; all buildings, hangers, and terminals, all drives and parking areas, and screening and planting. The Commission shall ensure that adequate ingress and egress, parking, and environmental protection of adjacent property is provided.

(4) Cemeteries:

(a) This use is allowed in any "R" Residential District.

(b) The required site plan shall show the location of all drives, structures, and parking. The Commission shall ensure that adequate ingress, egress, and parking is provided.

(c) Screening shall be required for structures located within 100 feet of side or rear property lines.

(5) Mobile Home Parks:

(a) This use is allowed only in a Residential Urban (RU) District.

(b) The minimum site shall contain eighty (80) acres unless the development is an extension of an existing park.

(c) The park must have frontage on a major street for at least one hundred (100) feet.

(d) A six (6) foot decorative fence shall be placed along the front yard setback line and a six foot decorative fence in a ten (10) foot landscape buffer shall be placed along the side and rear property lines. The front yard shall be landscaped and maintained in good condition.

(e) Each trailer site shall contain two off-street, vehicle parking spaces of a minimum 2½ inch bituminous surface over a compacted sand fill.

(f) In each mobile home park, there shall b provided a minimum of one-half (½) acr recreational site for each additional fifteer (15) trailer sites, or portion thereof, beyon fifteen (15) sites.

(g) An all weather community building of a least six hundred (600) square feet floor are with space for an assembly or meeting roon and a laundry room shall be provided. I addition, the building shall be increased b five (5) square feet for every trailer site ove fifty (50) sites. Off-street parking as re quired in Article VIII [185.800] shall b provided.

(h) The minimum lot frontage for each site shal be fifty (50) feet, and the minimum dept shall be one hundred (100) feet, or the min imum lot size shall be five thousand (5,000 square feet, whichever is greater. The gros density shall not exceed that of the currentl adopted master plan for the Township.

(i) The mobile home park shall be maintaine as a single lot of record, and individual lot are not to be sold.

(j) Side yards.

(1) There shall be minimum side to sid spacing of not less than twenty (20) fee between mobile homes.

(2) No mobile home shall be placed les than ten (10) feet from the side lot line

(3) End to end spacing of not less tha twenty (20) feet shall be maintained.

(4) The minimum setback from any exist ing road right-of-way shall be one hun dred fifty (150) feet.

(k) Perimeter setbacks.

(1) There shall be maintained on all exte rior lot lines of the mobile home park not on a public street, a 25 foot setback

(2) There shall be maintained on the primary frontage of the mobile home park, a one hundred fifty (150) foot setback. Within the mobile home park, there shall be maintained a twenty-five (25) foot setback from an interior roadway.

(3) No structure, vehicle, or storage shall be placed within the required perimeter setback, either temporary or permanent, except the required decorative fence (Sec. 4.04 [185.404] (5)(d).

(4) Within the required perimeter setback and in addition to required landscaped buffers, all areas shall be seeded and maintained.

(l) Height of buildings - No building or structure in a mobile home park shall be more than two (2) stories or twenty-five (25) feet in height.

(m) Sidewalks shall be provided on both sides of all interior streets and along at least one side of entry roads. Sidewalks shall be a minimum of three (3) feet wide.

(n) Lawn - A lawn shall be maintained in a neat manner in all public areas and along roadways within the park.

(1) All electric lines within the mobile home park shall be underground and meet the requirements of the state electrical code and provide three wire balanced 115, 230 volts supply. When separate meters are installed, each meter shall be located on a uniform standard post on the lot line of each trailer coach space.

(2) The park shall be connected to a public sanitary sewer or to a township approved facility meeting the require-

ments of the Township Plumbing Code and the Plumbing Code of the State of Michigan, and each site shall be provided with adequate fittings permitting connection to facilities in each trailer coach.

(3) Running water from a public or state tested and approved water supply shall be piped to each mobile home and adequate connections provided at site and shall be adequately protected from the frost. All sources of water to each individual mobile home site shall be underground and in no event shall rubber hose or other temporary measures be used.

(4) The occupancy load of any mobile home shall be limited to provide no less than three hundred (300) cubic feet of air space per occupant exclusive of the cubic air space of toilet rooms and closets.

(5) All roads within the mobile home park shall be constructed in accordance with the specifications of the Board of County Road Commissioners of the County of Genesee for local roads in Genesee County in effect at the time of the construction of the roads in the mobile home park except that the width of the road shall be as required under the provisions of the Trailer Coach Park Act of 1959 as amended, being Act 243 of the Public Acts of 1959. The construction shall be supervised by a licensed engineer hired by the owner of the mobile home park who must certify to the township that the roads within the mobile home park were constructed according to said specifications.

(6) Capacities of water lines for fire protection and the location and spacing of hydrants shall be as specified in Standards for Mobile Home Parks, Section 501A, of the National Fire Protection Association (NFPA) National Fire Codes, 1973-74 Edition Paragraph 10.3. Fire protection within mobile home units shall be as specified in the NFPA Code, Section 501 A, Paragraph 10.4.

(7) The grounds of a mobile home park shall be graded to drain properly and to satisfactorily meet the approval of the Engineer, the Genesee County Drain Commission, and the Board of County Road Commissioners of the County of Genesee.

(8) Skirting around each mobile home and tie-downs shall be required on each mobile home. Plans and methods of installation for awnings or canopies, tie-downs, and skirting shall be approved by the Building Inspector. After placement on a site, tires shall be removed and the mobile home placed on a raised block foundation. Skirting shall be installed within thirty (30) days of placement of the mobile home on the site. Tie downs shall be installed prior to occupancy of any mobile home.

(9) There shall be no storage or any kind underneath any mobile home and each mobile home shall be maintained in a clean and presentable condition at all times.

(10) Each mobile home site shall be provided with one metal utility cabinet which shall be not less than seven (7) feet in width, five (5) feet in depth and

six (6) feet in height, nor more thar twelve (12) feet wide, twelve (12) fee deep and eight (8) feet high, whicl shall be uniform as to location through out the mobile home park. All cabinet: shall be kept clean and shall be main tained a good condition. The utilit cabinet shall be placed on a concrete o bituminous slab, four (4) inches in thick ness.

(11) Every lot shall be provided with a sub stantial fly-tight metal garbage depos itory from which the contents shall b removed by the operator of the mobil home park as required by the statute of the State of Michigan relative t trailer coach parks.

(12) All cooking and fuel service shall b provided through electricity or gas fron public utility mains or from a centra storage tank within the mobile hom park or fuel oil from a central storag tank within the mobile home.

(13) Street and yard lights, sufficient i number and intensity to permit th safe movement of vehicles and pedes trians at night, shall be provided an shall be effectively related to buildings trees, walks, steps and ramps. Sai lighting shall be located and arrange so that it will not shine, reflect or glar or otherwise affect the safety and wel fare of highway or neighboring residen tial districts.

(14) The mobile home park may be devel oped in steps of a minimum of sixty (60 lots each, and a Certificate of Occu pancy as required in Article X [185.1000 may be issued upon completion of th

space for sixty (60) mobile homes; an additional sixty (60) spaces must be completed within two (2) year intervals from the issuance of the original building permit as required in Article X [185.1000], otherwise the Conditional Use approval for further units becomes void and a new application must be made prior to initiation of further construction.

(o) The required site plan shall show the location of all drives, parking areas, trailer pads, trailer lots, community buildings, recreation areas, screening, screen planting, and landscape buffers.

(p) All interior roadways and drives shall be a minimum of twenty-five (25) feet wide.

(q) Every mobile home site shall contain a 4 inch concrete pad with a design strength of three thousand (3,000) pounds per square inch.

(r) All enclosed additions to mobile homes must be of a pre-manufactured type. (86-1R-C)

(6) Mortuaries:

(a) This use is allowed in any "C" Commercial or RU-1 or RU-2 Residential District.

(b) The minimum lot size shall be one-half (½) acre in a C-1 or a C-2 District and two (2) acres in an "R" District. Only temporary sleeping room are permitted in a mortuary located in a C-1 or C-2 District.

(c) The required plan shall show the location of all buildings, drives, parking, landscape buffer, screening or screen planting, and interior location and size of any parlors of service rooms.

(d) A four foot high screen fence or planting and a 10 foot landscape buffer shall be provided where any parking area adjoins a residential district or a residential use.

(e) In an "R" District, a single, non-illuminated or indirectly illuminated exterior sign containing a maximum of twenty-four square feet (24) shall be permitted.

(7) Nursing Homes, Rest Homes or Homes for the Aged:

(a) These uses are allowed in an RU-1 or RU-2 Residential District.

(b) The minimum lot size shall be twelve thousand (12,000) square feet for the first ten beds and one thousand (1,000) square feet for each additional bed.

(c) A three foot decorative fence shall be provided for all parking or drives within fifty (50) feet of an adjoining "R" Residential District, and a 10 foot landscape buffer shall be provided on side and rear lot lines.

(d) An enclosed-recreation area, open or partially under roof, containing a minimum of fifty (50) square feet per bed shall be provided.

(e) The site shall have a minimum of sixty (60) foot frontage on a major street, which frontage shall contain at least one entry drive to the site.

(f) The required site plan shall show all drives, parking areas, building locations, recreation areas, and screening or screen planting.

(8) Golf or Country Club, Lodge, or Private Recreation Club:

(a) These uses may be located in any district except an "M" Industrial District.

(b) A three foot high decorative fence, screen planting, or earthen mound shall enclose all parking areas when located within fifty (50) feet of any "R" District.

(c) The required plan shall show the location of all buildings, drives, parking areas, and fencing or screen planting.

(9) Hospital, Medical Clinic or Dental Clinic:

(a) These uses may be located in any "C" District.

(b) There shall be a minimum of 60 feet of frontage on a major street, which frontage shall contain the primary public and service access to the site.

(c) A three foot high decorative fence or screen planting within a 10 foot landscape buffer or earthen mound shall enclose all drives, parking areas or structures located within 50 feet of any "R" District.

(d) The required plan shall show the location of all buildings, drives, parking areas, and fencing or screen planting.

(10) Churches:

(a) The minimum lot for a church shall be three acres.

(b) A church is permitted in any "R" or "C" District.

(c) The required site plan shall show the location of all structures, parking areas, drives and entries, and screen fencing or planting.

(d) All off-street parking lots or drives located within fifty feet of any "R" District shall be enclosed by a three foot decorative fence or screen plumbing.

(e) A ten foot landscape buffer shall be located on side and rear lot lines for a site located in an "R" district.

(11) Reserved.

(12) Excavations and Sanitary Landfills:

(a) The excavation and removal of soils shall be permitted only under a permit granted by the Township Planning Commission upon a finding by such Commission that the pro-

posed excavation operation and the conditions in which the excavation site will be left shall not be detrimental to the surrounding land uses, nor to the public health, safety, and general welfare.

(b) The sanitary landfill of any lot shall be permitted only under a permit granted by the Township Planning Commission upon a finding by such Commission that the proposed landfill will not be detrimental to surrounding land uses, nor to the public health, safety, and the general welfare.

(c) The Commission may require all documents necessary to make the foregoing finding, and impose such conditions as it deems necessary to safeguard the public health, safety, and the general welfare. By way of illustration and not limitation, the following types of conditions may be imposed:

(1) Control over the district from adjoining property within which no activity may be conducted.

(2) Control over the angle of the bank of the excavation.

(3) The manner in which the area involved must be enclosed and posted.

(4) The kind and depth of fill material.

(5) The grade of the area which must be established at the expiration of the permit term.

(6) Reasonable measures to prevent air and noise pollution.

(7) Reasonable measures to keep public roads free of excavated and fill material.

The submitted plans shall indicate methods of protecting underground or surface water from siltation or contamination. Collection of dust and debris shall be indicated.

(d) The findings of the Commission shall be made upon a review procedure outlined in Article X [185.1000] of this Ordinance.

(e) The Commission shall require the posting of a bond in an amount determined by the Commission running to the Township holding the Township free of all liabilities incidental to the excavation or landfill and to assure the performance of the privileges of the conditional use permit according to the ordinances of the Township and the special conditions set forth by the Genesee Township Planning Commission.

(f) Excavations, or any surface mining activity, may not be located closer than 200 feet from any RU-1 or RU-2 District.

(g) Access to sites shall be from a major street.

(h) Sorting, grading, or processing equipment shall be located at least 500 feet from an RU-1 or an RU-2 District and 300 feet from an RSA District.

(i) The permits issued by the Commission in accordance with this paragraph shall be for such period as the Commission may determine, by may not exceed one year. Permits shall not be automatically renewable. The permit may restrict the days of the week and the hours of the day during which time its privileges may be exercised.

(j) The provisions of this paragraph shall not apply to excavations for the construction of a structure for which a building permit has been issued.

(13) Private Parks and Recreation Areas:

(a) This use is allowed in any district and may be for the use of residents of a limited and defined geographic area or by employees of a firm.

(b) Permitted facilities include indoor tennis or ice skating, community buildings, outdoor courts, ballfields, and recreation areas.

(c) Structures or active play or recreation areas within 100 feet of an RU-1 or RU-2 District shall be bounded by six foot screen plantings and a 10 foot landscape buffer.

(d) All exterior lighting shall be shaded so as not to shine onto adjacent lots.

(14) Fraternal and Club Houses, Private Community Buildings:

(a) These uses are allowed in any residential or commercial district.

(b) The minimum site shall contain one acre.

(c) Structures or off-street parking and drives shall be screened by a three foot decorative fence or by screen planting and a 10 foot landscape buffer when located within 50 feet of an RU-1 or RU-2 District.

(15) Auto Bumping, Painting, Welding, Upholstering and General Repair Garage:

(a) These uses are allowed in any industrial district or in a C-2 District.

(b) All open storage areas or work areas shall be screened by a six foot screen fence.

(c) All cutting, welding, painting, materials reduction, and other similar processing shall take place in an enclosed structure.

(d) Methods for control of noise, smoke, gases and dust shall be subject to approval.

(16) Drive-in Business of a Retail Sales or Service Nature:

(a) These uses shall be allowed in a C-2 or any "M" District.

(b) Uses located in an "M" district shall be located on a major street.

(c) Continuous curb openings are not permitted and entry and exit to the site shall be on delineated drives with a maximum curb opening or driveway width of 30 ft. Where curbs are present, a radius of 10 feet shall be used.

(d) Vehicle storage areas shall be so located as to prevent back up of traffic into adjoining streets.

(17) Public Commercial Parking Lots and Off-Premise Customer Parking Lots:

(a) These uses are permitted in any commercial or industrial district, or in a Residence District for uses located in that district.

(b) Each lot shall be lighted, and lighting fixtures shall be shaded so as not to shine onto adjoining property.

(c) There shall be at least one entrance from a major street.

(d) All such parking lots shall be enclosed by a 3 foot decorative fence or by a 4 foot screen planting and a 5 foot landscape buffer (10 feet within a residence district).

(e) All portions of the lot, not paved, shall be planted or landscaped.

(f) There shall be a 10 foot setback of parking areas where the parking lot adjoins a residence district.

(g) Any additional requirements as contained in Article VIII [185.800] shall also apply.

(18) Restaurant selling beer, wine or spirits for consumption on the premises, and Bars or Nightclubs:

(a) These uses shall be allowed in a C-2, C-3 or any "M" District.

(b) Uses located in an M district shall be located on a major street.

(c) Other than descriptive titles such as "lounge" or "bar", signs shall not contain produc identifications or advertisements for beer wine, or alcoholic products.

(19) Potentially Noxious or Hazardous Manufacturing or Processing Activities:

(a) The following activities, permitted in an M-2 district, because of potential hazards of ex plosion or of excessive noise, smoke, or odor require conditional use approval:

1) acid manufacture
2) blast furnaces or coke ovens
3) cement, lime, gypsum or plaster of pari manufacture
4) distillation of bones, coal, tar, or wood
5) drop forge industries using power ham mers
6) fat rendering, except as an incidenta use
7) explosives, manufacture or storage
8) fertilizer manufacture
9) garbage, offal, or dead animals dump ing or reduction
10) glue manufacture
11) incineration of garbage
12) meat packing plants
13) paper and pulp manufacture
14) rock crushing
15) sawmill
16) slaughter of animals and killing of poul try
17) smelting of tin, copper, zinc, or iron ores
18) stockyards or feeding pens
19) tannery or the curing or storage of raw hides

20) storage, sorting, collecting or baling of rags, paper, or junk

(b) Submitted plans shall include measures to control these potential hazards and shall indicate the expected levels of critical environmental elements.

(20) Duplexes in a RU-1 District:

(a) Although permitted by right in the RU-2 District, two family dwellings are allowed in the RU-1 District upon approval of a Conditional Use Permit.

(b) Bulk and density regulations for two family dwellings shall be as on Table I for RU-1 except that the minimum lot area per family shall be 7500 square feet and the minimum lot frontage shall be 100 feet.

(c) The required site plan shall be submitted for each lot containing a duplex. Within limitations of sheet size, more than one site may be shown on a drawing.

(d) An application may be filed for more than one site, although the Commission shall evaluate each site individually and may accept any number of proposed sites.

(e) The review of proposed sites shall be based on achieving compatibility with the surrounding neighborhood and shall include review of: building siting, yards, lot size and configuration, provisions for off-street parking including enclosed and open spaces.

(21) Motion Picture Theaters:

(a) Any establishment, showing motion pictures to the public or for a fee, whether in a structure designed for projection of motion pictures, an outdoor theater, or as a secondary use of a structure, such use is allowed in a C-2 district.

(b) The required plan shall show proposed off-street parking, screening, public entry and exit, signs, building or structure heights and lighting.

(22) Public Buildings and Schools:

(a) Any public building or public or private school shall require conditional use approval. These uses are permitted in any district.

(b) Access to any public building or school shall be from a major street on paved roads or streets.

(c) The required site plan shall indicate the following:

(1) Method of pedestrian and vehicular access to the site

(2) Off-Street parking provisions

(3) Screen fencing and landscape buffer areas

(4) Heights of structures.

(23) Planned Development:

(a) Definition: A development often implemented in phases, which is planned and approved as a total package. P.U.D.s are generally regulated with regard to the total density of the development, not on a parcel-by-parcel basis.

(b) A planned unit development project shall be recognized as a Conditional Use and controlled by the guidelines thereof and the regulations hereinafter set forth.

(c) The purpose of these regulations is to permit greater regulation of land development; encourage innovation in land use and variety in design, layout and type of structures constructed; achieve economy and efficiency

in the use of land, natural resources, energy, and the provision of public services and utilities; encourage useful open space; and provide better housing, employment and shopping opportunities particularly suited to the needs of the residents of the Township.

(d) Planned unit development projects shall be allowed only within the RA, RSA, RU-1, RU-2, C-1 and C-2 Districts.

(e) Application Procedure. In addition to the requirements in Section 10.01 [185.1001], the following apply to planned development applications:

1) The Applicant, prior to filing application for a Conditional Use, shall meet with the Planning Commission for a preliminary review of the proposed development. Such review shall be informal and does not require notice as in Section 10.01 [185.1001] nor final drawings.

2) An area plan shall be included showing the site and its relation to major streets, schools, park and recreation areas, community facilities, and nearby residential, commercial or industrial land use areas.

3) The Planning Commission shall review the preliminary plan for the criteria established in this ordinance and shall return it to the petitioner with comments or as disapproved. Disapproval shall be based only upon the site being located in an area shown on the master plan as non-residential, or in areas without adequate utilities or roadway access. In areas of question, the Planning Commission may ask for further analysis of commercial markets, road-

way capacity or markets for specific housing proposed on the site. The Commission may also request that an Environmental Assessment be prepared Such an Assessment shall usually be required for projects located in areas whose natural features could affect or be affected by the project, wetlands floodplains, bedrock areas, unique natural areas or unstable soils areas, or for large sized projects.

4) After the preliminary have been reviewed by the Planning Commission the petitioner shall then file for a Conditional Use Permit in accordance with Section 10.01 [185.1001]. The developer shall also file with the Planning Commission a development schedule indicating
   (a) The approximate date when construction of the project can be expected to begin.
   (b) The stages in which the project will be built and the approximate date when construction of each stage can be expected to begin.
   (c) The anticipated rate of development.
   (d) The approximate dates when the development of each of the stages in the development will be completed.
   (e) The area and location of open space that will be provided at each stage

5) Action by the Planning Commission and the Township Board shall be based on one of the following:

-Approval of the plan as conforming to this ordinance and all applicable requirements and design standards.

-Approval with conditions for modifications in design or layout.

-Disapproval as based on excessive density, inadequate buffers or protection of adjoining land, inadequate utilities, or inadequate roadway access.

6) The Planning Commission when granting the Conditional Use Permit for a Planned Development Unit Project may direct the order of development and determine the percentage of completion of a phase of development before the next phase of development may be commenced. The Township Board may concur with the direction of the Planning Commission or it may change the order of phase development and the percentage of completion of a phase of development and the percentage of completion of a phase of development before the next phase of development may be commenced.

7) If no construction has begun in the Planned Unit Development within two years from the approval of the final development plan, the plan shall lapse and be no longer effective.

(f) General Requirements.

1. The minimum area for planned developments shall be:
   a. Residential—15 acres
   b. Commercial—5 acres
   c. Mobile Home Park
      1. Extension of existing park—20 acres
      2. A new park—80 acres.
2. The developer shall provide within the planned unit development a sanitary

sewage system which shall be of sufficient size and design to collect all sewage from all present and proposed structures in the planned unit, shall connect with the Township system if available and shall be otherwise constructed and maintained in conformity with the statutes, ordinances, and regulations of the State of Michigan, the Genesee County Health Department, the Genesee County Drain Commissioner and the Township. Such system shall be reviewed and approved by the Township Engineer prior to submission for site plan review by the Planning Commission.

3. The developer shall provide within the planned unit development a storm drainage system which shall be of sufficient size and design to carry off and dispose of all predictable surface water run-off within the development and any adjoining contributory areas, and shall be so constructed as to conform with the statutes, ordinances and regulations of the State of Michigan, the Genesee County Health Department, the Genesee County Drain Commissioner and the Township. Such system shall be reviewed and approved by the Township Engineer prior to submission for site plan review by the Planning Commission.

4. If a public water system is not available, the developer shall provide within the planned unit development, a potable water system which shall be of sufficient size and design to supply potable water to each of the structures to be erected in the development.

   a. The developer shall provide a fire hydrant within four hundred (400 feet of each structure.

b. Water systems shall conform to the statutes, ordinances, and regulations of the State of Michigan, the Genesee County Drain Commissioner, the Genesee County Health Department and the Township.

c. Such water system shall be reviewed and approved by the Township Engineer prior to submission for site plan review by the Planning Commission.

(g) Permitted Uses.

(1) Residential projects limited to RA, RSA, RU-1 and RU-2 Districts:

a. Single, two or three family attached or detached dwellings and accessory buildings.

b. Multiple family dwellings and accessory buildings.

c. Mobile home parks.

d. Public park or recreation area or private park or recreation area solely for the use of tenants of the project and which may include a golf course, swimming pool, tennis court, ski slope, toboggan run, ice skating rink and other similar recreational uses, but which may not include any use or activity which produces noise, glare, odor, hazards, smoke, fumes or other pollutants detrimental to existing or prospective occupants or to the general public.

e. Municipal and/or community facilities

f. Institutions for public or private instruction for five or more persons per group.

g. Church, temple, synagogue, parsonage or parish house, convent.

h. Studio of artist, sculptor, musician or photographer, but no goods or objects shall be sold or publicly displayed on the premises.

i. Commercial or business activity designed to serve a local neighborhood and in particular, the residents of the project. Allowed are neighborhood oriented retail sales retail service, professional offices medical clinics, and services, and restaurants. Not allowed are wholesale sales or services, general merchandise stores such as department stores, discount department stores, furniture stores automotive or automotive parts gas stations automotive repairs or service, drive-in establishments such as drive-in cleaners, banks or restaurants, and commercial activities of a similar nature. Single structures may not exceed 25,000 square feet of ground floor area. Allowed uses include the following and those of a similar nature:

1. Grocery and food stores
2. Drug stores and pharmacies
3. Clothing and apparel stores
4. Financial institutions
5. Cleaning and laundry
6. Florist
7. Doctor or dentist, attorney or other professional office.
8. Restaurant, not including drive-in restaurants providing in-the-car service.

9. Medical clinic

(2) Commercial Projects limited to C-1 and C-2 Districts.

a. Neighborhood commercial uses as allowed in a C-1 District for portions of the project located in a C-1 district.

b. General commercial uses as allowed in a C-2 District for portions of the project located in a C-2 district.

c. Multiple family dwellings and accessory buildings.

(h) Density and Design Standards.

(1) Density of dwellings.

a. The gross density of a project containing dwellings shall not exceed that as set forth in Sec. 3.03.

b. Within residential portions of projects, densities shall not exceed the following:

1. Single family dwellings—10 units per net acre

2. 2 or 3 family dwellings—12 units per net acre

3. Townhouse—14 units per net acre

4. Garden apartments—16 units per net acre

5. Apartments, 3 floors or less—16 units per net acre

6. Apartments, more than 3 floors—30 units per net acre

7. Mobile home park—as set forth in Sec. 4.04(5).

(2) Densities of commercial projects shall not exceed the following ratios of gross building floor area to net site area (F.A.R.):

a. commercial structures F.A.R. 1

b. office structures F.A.R. 3

(3) Design standards.

a. Area limitations for residential projects: Within a planned project containing residential uses, the following percentages of the total land area shall be devoted to specified uses:

1. A maximum of 20 percent of the net site area including drives and parking area (less public right-of-way) may be devoted to commercial activities. Such activities shall conform to all other sections of this ordinance relating to commercial activities. Pedestrian and vehicular access from residential areas of the site shall be provided. At least 100 feet of frontage on a public right-of-way shall be included within any commercial area. There shall be no joint usage of parking areas with residential portions of the site.

2. Residential areas must occupy at least 80 percent of the site including drives and parking areas (less public rights-of-way). Such area include at least the following amounts of contiguous, us-

able open space to be made available to project residents for recreational activities:

-Under 50 dwelling units—1 acre

-For each additional 65 dwelling units—1 acre

b. Required open space in commercial projects containing residential uses shall be located adjacent to and have direct access from residential areas or structures. The following shall be provided:

-Under 50 dwelling units—1 acre

-For each additional 65 dwelling units—1 acre

c. Lot size: For residential projects there shall be no maximum percentage of lot coverage and no minimum lot width for any unit; provided, however, that in areas of single family and/or townhouse structures which are to be sold and for which the care and maintenance of the grounds and exteriors associated with such structures will be the responsibility of the purchasers of such structure or portions thereof, such areas shall be platted with applicable and recordable provisions of the Subdivision Regulations. For purposes of determining overall densities within the planned unit development, the number of units located in such platted areas shall be included. A fifteen (15) foot front yard only setback shall apply. Minimum lot area for single

or two family attached or detached residences shall be three thousand five hundred (3500) square feet.

d. Height: There shall be no height limitation on structures. Proposed structure heights may be justified by the use of section sketches to indicate the visual effects of the structure on surrounding areas.

e. Location of structures: The following minimums shall be observed for locations of structures on the site:

1. No primary structure shall be placed closer than a distance equal to its height from a lot line.
2. No freestanding primary structures shall be placed closer together than a distance equal to the average of their heights.
3. No surface off-street parking area shall be placed closer than 20 feet from a ground floor door or window opening directly to the parking area. Otherwise no parking shall be placed closer than 5 feet from a primary structure.
4. No drive may be located less than 10 feet from a residential structure, or five feet from a commercial or office structure.
5. No primary structure may be placed closer than 25 feet from a perimeter lot line.

f. The following shall apply to protection of open spaces:
   1. Areas shown for public park or recreation shall be deeded to an appropriate Township or county agency and such areas shall be so reserved on the drawing and on any subdivision plats.
   2. Provisions for maintenance and protection from encroachment shall be provided on the subdivision plat or the deed for privately retained park and open space areas.
   3. No required front, side, or rear yard, roadway or parking area or building setback shall be included in the required open space.

g. Roads and parking areas: The dimensions and construction of roads, alleys and parking areas within the development, whether or not dedication of them to the Township is contemplated, shall conform with all applicable state, county and Township ordinances.

h. Off-Street Parking. Off-street parking shall be provided according to the standards in Article VIII [185.800]. Required parking shall be provided for each functional area; single family, multiple family or commercial; and access to such parking must be directly from public streets and not through another functional area.

i. Number of Structures: There shall be no limit to the number of struc-

tures on a lot or parcel and own ership may be individual, joint o common.

j. Signs.

1. One project identification sig shall be permitted for eac road frontage of the projec containing an access drive Maximum area of the sig shall be 100 square feet.
2. Other signs shall be attache to buildings. No sign shal extend to less than 8 fee from the ground nor projec more than five feet above wall.
3. Signs larger than 50 squar feet may not be used excep for project identification o for identification of primar tenant.

k. Circulation. The circulation pla shall provide direct vehicular ac cess to parking terminals. The in ternal circulation system shoul be kept to a minimum and shoul not isolate functional areas. Join use, whenever possible, should b made of parking areas, by simila establishments or uses. Similarl the number of access points t exterior streets should be kept t a minimum, and should prefera bly be located to ensure controlled safe vehicular entry and exit fron the project. Easements should b used where necessary from use to common parking areas an drives.

1. Mobile Home Parks: The design standards set forth in Sec. 4.04 [185.404](5) shall apply to the Mobile Home Park portion of a planned unit development project.

(24) Essential Services:

(a) Any essential service having an above ground structure containing a foundation or base area of greater than 100 square feet and electric power transmission towers 125′ or greater in height may be permitted in any district.

(b) The required site plan shall indicate the following:

1. Building and structure plans and elevations.
2. Screen fencing and landscape buffer areas.
3. Access drives and parking.

(25) Reserved.

(26) Veterinary Clinic and Animal Hospital:

(a) This use is allowed within a C-2, General Commercial, District.

(b) Outside runs or exercise areas shall be no closer than 100 feet to any residence district. All outside runs or exercise areas closer than 200 feet to any residence district shall be enclosed by a six foot high screen fence.

(c) Any incinerator and disposal facility shall meet all applicable State and local regulations and shall be located no closer than 100 feet to a residence district.

(d) The required site plan shall show the location of all buildings, drives, parking areas, outside runs and exercise areas, screen fencing and landscaping.

(27) Used Car Lots:

(a) This use is allowed only in a C-2 District.

(b) The display area outside an enclosed building shall be surfaced with concrete or plant mixed bituminous material, shall be maintained in a smooth and useable condition, and shall be properly graded and drained to dispose of all surface water.

(c) Lighting used to illuminate any area shall be arranged so as to direct light away from adjoining property and streets.

(d) Display and parking areas must be protected by posts, curbs or similar construction to prevent encroachment upon adjacent properties.

(e) When the used car lot adjoins a residential districts, all display and parking areas shall be closed by a 3 foot decorative fence or by a 4 foot screen planting and a 10 foot landscape buffer.

(28) Mini Warehouses:

(a) This use is allowed in the following districts: C-1, C-2, M-1 and M-2.

(b) Access must be from a major street.

(c) All driveways and parking areas shall be surfaced with concrete or plant mixed bituminous material, shall be maintained in a smooth and usable condition, and shall be properly graded and drained to dispose of all surface water.

(d) Lighting used to illuminate the area shall be arranged so as to direct light away from adjoining property and streets.

(e) Within C-1 and C-2 Districts, all storage must be within a completely enclosed building.

(f) Within M-1 and M-2 Districts, all storage must be within a completely enclosed structure.

(g) All storage outside a building in M-1 and M-2 Districts must be located more than two hundred feet (200) feet from any road right-of-way.

(29) Keeping of Horses in a Residential Urban District (RU-1):

(a) Horses may be kept in a Residential Urban District (RU-1) subject to the provisions of this section.

(b) The minimum land area for one horse shall be 4 acres, and an additional acre for each additional horse. The maximum number of horses shall be four.

(c) The use shall be for the private personal use of the owner or lessee of such land, his family, and friends and shall not constitute a commercial occupation nor a public stable.

(d) No barns, pens or corrals shall be located closer than two hundred (200) feet from all property lines or less than one hundred fifty (150) feet from all street right-of-way lines; provided further that the minimum side yard setback shall be reduced one foot for each additional foot that the barn, pen or corral is setback from the existing right-of-way over one hundred fifty (150) feet; provided further that the side yard setback shall not be reduced below a minimum of fifty (50) feet.

(e) Foals born on parcels where horses are kept may be kept on said parcel for two (2) years even though such additional horses may increase the number of horses on such parcel beyond the one horse per four acres and one horse per acre requirements, but in no case

shall there be no more than one horse and one foal for the first four acres and one horse and one foal per acre thereafter.

(f) The permit to keep horses pursuant to this section shall be issued for a twelve (12) month period. A renewal may be requested by filing a petition with the Planning Commission and the payment of a $75.00 filing fee. The Planning Commission shall hold a pubic hearing on the petition in accordance with the provisions of Section 10.01, as amended, except there shall be no newspaper publication of the hearing.

(29.1) Tall Buildings:

(a) For purposes of this sub-section, a tall building shall mean a building to be constructed of a height greater than (1) the height of a building as set forth in Section 3.03 [185.303] or (2) the height of an accessory structure as set forth in Section 2.01 [185.201] as amended

(b) Any tall building to be constructed shall require conditional use approval.

(c) A tall building is allowed in any zoning district.

(d) The required plan shall show the location and approximate height of all structures within 300 feet of the site of the proposed tall building.

(30) Bed and Breakfast Accommodations:

(a) For purpose of this sub-section, a bed and breakfast accommodation shall mean over night sleeping accommodations made available to the general public, with a breakfast meal available to the guest. The maximum number of sleeping rooms made available to the general public shall be four (4).

(b) A bed and breakfast accommodation is allowed in any zoning district.

(c) A bed and breakfast accommodation must be located on a section line road or a primary road.

(d) Each sleeping room made available to the general public must have one additional off-street parking space.

(e) One additional sewer connection unit fee shall be paid the Township for each two (2) additional sleeping rooms.

(f) A sign advertising the bed and breakfast may not exceed six (6) square feet.

(g) The dwelling unit in which the bed and breakfast is operated is the principal residence of the owner/operator and said owner/operator shall live on the premises during the operation of the bed and breakfast.

(h) The maximum stay for any occupants of the bed and breakfast operations shall be fourteen (14) days.

(i) No structure is to be altered to provide more sleeping rooms than the total number of bedrooms that already exist. No addition may be constructed to a residential structure for the purpose of operating a bed and breakfast.

(j) In the Planning Commission's consideration of a petition it shall consider whether or not the public welfare will be served, the suitability of the property and the character of the neighborhood. These procedures are adopted to provide guidelines for the Planning Commission to follow in arriving at a decision and to provide for the public health safety, morals, and general welfare, as well as to provide for the interest of the property owner.

(k) The Planning Commission may direct the petitioner to comply with any condition which it deems necessary to provide for the public health, safety, and welfare of present or prospective occupants of any lands contiguous to the proposed use or deemed necessary for the prevention of any nuisance condition

(31) Flea Market:

(a) Flea Market, definition: The sale of new and used clothing, new and used household furniture and furnishings and equipment and other new and used items of personal property of a similar nature. All items for sale are priced and not auctioned. The vendor may be a single person, firm or corporation or may be several vendors, each selling only that vendor's property.

(b) A flea market may be operated in only a C-2 District.

(c) No flea market may be operated outside an enclosed building unless the operator also conducts a related business in an enclosed building adjacent thereto in which are located restroom facilities available to the general public.

(d) No selling activity may be conducted within a setback area of 100 feet from the road right-of-way

(e) Off-street paved parking must be provided as required in Article VIII [185.800].

(32) Family Day-Care Homes and Group Day-Care Homes:

(a) *Definitions:*

1) As used in this section (32), "family day-care home" means a private home in which 1 but less than 7 minor children are received for care and supervi-

sion for periods of less than 24 hours a day, unattended by a parent or legal guardian, except children related to an adult member of the family by blood, marriage, or adoption. Family day-care home includes a home that gives care to an unrelated minor child for more than 4 weeks during a calendar year.

2) As used in this section (32), "group day-care home" means a private home in which more than 6 but not more than 12 minor children are given care and supervision for periods of less than 24 hours a day, unattended by a parent or legal guardian, except children related to an adult member of the family by blood, marriage, or adoption. Group day-care home includes a home that gives care to an unrelated minor child for more than 4 weeks during a calendar year.

3) As used in this section (32), "Building Inspector" shall mean the duly appointed Building Inspector of the Township.

4) As used in this section (32), "Township" shall mean the Charter Township of Genesee.

(b) *Family day-care home use of property.* A family day-care home licensed or registered under Act No. 116 of the Public Acts of 1973 shall be considered a residential use of property for the purposes of zoning and a permitted use in all residential zones, including those zoned for single family dwellings and shall not be subject to a special use or conditional use permit or procedure different from those required for other dwellings of similar density in the same zone.

(c) *Group day-care home use of property:*

1) A group day-care home licensed or registered under Act No. 116 of the Public Acts of 1973 shall be issued a special use permit, conditional use permit, or other similar permit if the group day-care home meets the following standards:

a. Is located not closer than 1,500 feet to any of the following:

(i) Another licensed group day-care home.

(ii) Another adult foster care small group home or large group home licensed under the Adult Foster Care Facility Licensing Act, Act No. 218 of the Public Acts of 1979, being sections 400.701 to 400.737 of the Michigan Compiled Laws.

(iii) A facility offering substance abuse treatment and rehabilitation service to 7 or more people licensed under Article 6 of the Public Health Code, Act No. 368 of the Public Acts of 1978, being sections 333.6101 to 333.6523 of the Michigan Compiled Laws.

(iv) A community correction center, resident home, halfway house, or other similar facility which houses an inmate population under the jurisdiction of the Department of Corrections.

b. Has appropriate fencing for the safety of the children in the group day-care home as determined by the Township.

c. Maintains the property consistent with the visible characteristics of the neighborhood.

d. Does not exceed 16 hours of operation during a 24 hour period. The Township may limit but not prohibit the operation of a day-care home between the hours of 10 P.M. and 6 A.M.

e. Meets regulations, if any, requiring a group day-care home operator to provide off-street parking accommodations for his or her employees.

2) The subsequent establishment of any of the facilities listed in subsection (c)(a)(i) to (iv) of this section, within 1,500 feet of the licensed or registered group day-care home will not affect any subsequent special use permit renewal, conditional use permit renewal, or other similar permit renewal pertaining to the group day-care home.

3) The distances specified in subsection (c)1) and (c)2) shall be measured along a road, street, or place maintained by this state or a political subdivision of this state and generally open to use by the public as a matter of right for the purpose of vehicular traffic, not including an alley.

(d) *Permits for group day-care homes:*

1) Any person or firm proposing to operate a group day-care home must obtain a permit from the Township.

2) Upon receipt of an application for a permit to operate a group day-care home, the Building Inspector shall inspect the premises and determine whether or not the group day-care home meets all of the standards set forth in subsection (c)1).

3) If the group daycare home meets all of the standards set forth in subsection (c)1), the Building Inspector shall issue a permit which shall authorize the operation of a group day-care home for one year from the date of the issuance of the permit.

4) If the group day-care home does not meet all of the standards set forth in subsection (c)1), the Building Inspector shall set the petition for public hearing by the Planning Commission as an application for a Conditional Use Permit to operate a day-care center in accordance with Section 404(11) entitled "Day-Care Centers."

(e) *Inspections.* The Township may inspect a family or group day-care home for the home's compliance with the Township's ordinance and enforcing the Township's ordinance, if the ordinance is not more restrictive for that home than Act No. 116 of the Public Acts of 1973, laws or rules promulgated pursuant to Act No. 116 of the Public Acts of 1973.

(f) *Fee.* The filing fee for a permit to operate a group day-care home shall be the same as the fee for filing a petition for a conditional use permit.

(Amended: Ord. No. 235, 6-28-76; Ord. No. 263, 8-14-78; Ord. No. 336, 6-27-83; Ord. No. 356, 7-14-86; Ord. No. 372, 3-28-88; Ord. No. 382, 9-11-89; Ord. No. 384-A, 11-13-89; Ord. No. 396, 6-22-92; Ord. No. 399, 2-8-93)

ARTICLE V

185.500 GENERAL PROVISIONS

185.501 Scope.

Sec. 5.01. Except as elsewhere provided in this Ordinance, no structure, or part thereof, shall hereafter be erected, constructed, reconstructed or altered in any manner; and no structure, land, premises, or part thereof, shall be used for a purpose and, no open space surrounding any structure shall be reduced or encroached upon, other than as permitted by the provisions of this Ordinance, for the district in which such structure, land or premises is located.

185.502 District boundaries.

Sec. 5.02. The boundaries of these districts are hereby established as shown on a map entitled "Zoning District Map, " Genesee Township, Genesee County, Michigan, dated June, 1975, which accompanies and is hereby made a part of this Ordinance. Except where specifically designated on said map, the district boundary lines are intended to follow lot lines, the center lines of creeks, streams or rivers, the center lines of streets or alleys, the center lines of streets or alleys projected, railroad right-of-way lines, section lines, one-quarter section lines, one-eighth section lines or the corporate limit line, all as they existed at the time of the enactment of this Ordinance; except as otherwise specifically described; but, where a district boundary line does not coincide with rear lot lines, said boundary lines shall be dimensioned on the Zoning Map.

185.503 Building regulation.

Sec. 5.03.

A. No structure shall be erected, altered, or moved into this Township except in conformity with all of

the regulations pertaining to such structure and pertaining to the district within which such structure is located, or to be located.

B. Nor shall any such structure be erected, altered, or moved into this Township without having been issued previously a building permit authorizing such erection, alteration or movement.

C. No building permit shall be issued unless a site plan showing compliance with all requirements of this Ordinance has been approved by the Building Inspector or, in the case of a use requiring approval of the Township Planning Commission, approval by such Commission, or, in the case of an existing structure, a finding by the Building Inspector that the structure is in conformance with all existing ordinances and regulations, or the alteration of moving will permit compliance with all such ordinances and regulations; provided, however, nothing in this section shall prevent the issuance of a building permit for a variance duly granted by the Board of Appeals.

D. No structure shall hereafter be erected or altered (1) to exceed the height or bulk; (2) to accommodate, or house a greater number of families; (3) to occupy a greater percentage of lot area; (4) to have narrower or smaller rear yards, front yards, side yards, or other open spaces than herein required; or in any other manner contrary to the provisions of this Ordinance.

E. No part of a yard, or other open space, or off-street parking or loading space, required for, or in connection with, any land use, or structure for the purpose of complying with this Ordinance, shall be included as part of a yard, open space, or off-street parking, or loading space similarly required for any other land use or structure, except as otherwise specifically permitted under provisions of this Ordinance.

F. No yard, or lot existing at the time of passage of this Ordinance shall be reduced in dimension or area below the minimum requirements set forth herein. Yards or lots created after the effective date of this Ordinance shall meet at least the minimum requirements established by this Ordinance.

G. No structure shall be constructed within a floodplain of any natural water course, such as to diminish the capacity of the floodplain to store runoff, or to impede the free flow of such runoff.

185.504 Construction or contracts under permits issued prior to this ordinance.

Sec. 5.04. Any structure for which a building permit has been issued and construction of the whole, or a part of which has been started, or for which a contract or contracts have been entered into pursuant to a building permit issued prior to the effective date of this Ordinance, may be completed and used in accordance with the plans and applications on which said building permit was granted, provided the construction permitted by such permit shall have been prosecuted and completed within one year from the date of issue of such building permit.

185.505 Non-conventional dwelling.

Sec. 5.05. No cellar, garage, or any incompletely constructed structure in use as a dwelling at the effective date of this Ordinance shall be used as a dwelling for more than three (3) years following said date, unless such structure has been brought to a state of external completion in conformity with the regulations of this Ordinance relative to dwellings in the district in which said structure is located.

A. No such structure constructed after the effective date of this Ordinance shall be used as a dwelling

unless such structure has been completed as a dwelling and an occupancy permit issued for such structure.

185.506 Essential service.

Sec. 5.06.

A. Nothing in this Ordinance shall prohibit the provision of essential services, provided the installation of such service does not violate any other applicable provision of this Ordinance.

B. Nothing in this Ordinance shall be construed to prohibit the erection, construction or enlargement of any above ground structure including utility poles and wires having a foundation or base area of not greater than 100 square feet and electric power transmission towers not exceeding 125′ in height.

185.507 Storage in front yard.

Sec. 5.07. Nothing in this Ordinance shall permit the storage or parking of any vehicle or non-permanent structure within the required front yard of any lot within a residential district, except that the parking of an operable passenger vehicle on a driveway located on private property shall not be prohibited.

185.508 Home occupation.

Sec. 5.08. A home occupation may be permitted within a single family residential dwelling subject to the following conditions:

A. No person other than members of the family residing on the premises shall be engaged in such occupation.

B. The use of the dwelling unit for the home occupation shall be clearly incidental and subordinate to its use for residential purposes by its occupants, and not more than twenty-five (25) percent of the

floor area of the dwelling unit shall be used for the purposes of the home occupation, and shall be carried out completely within such dwelling.

C. There shall be no change in the outside appearance of the structure or premises, or other visible evidence of the conduct of such home occupation, other than one (1) sign not exceeding two (2) square feet in area, non-illuminated, and mounted flat against the wall of the dwelling.

D. No home occupation shall be conducted in any accessory structure.

E. There shall be no sale of any goods manufactured elsewhere in connection with such home occupation.

F. No traffic shall be generated by such home occupation in greater volumes than would normally be expected in a residential neighborhood, and any need for parking generated by the conduct of such home occupation shall be provided by an off-street area, located other than in a required front yard.

G. No equipment or process shall be used in such home occupation which creates noise, vibration, glare, fumes, odors, or electrical interference detectable to the normal senses of persons off the lot. In the case of electrical interference, no equipment or process shall be used which creates visual or audible interference with any radio or television receivers off the premises, or causes fluctuations in line voltage off the premises.

H. No home occupation shall be conducted unless there shall have been previously issued a Permit to conduct a Home Occupation by the Board of Appeals.

185.509 Temporary use.

Sec. 5.09.

A. Temporary Trailer Coach Parking:

1. No person shall park, or cause to be parked, any trailer coach over forty-eight (48) hours on any street, alley, highway, or other public place.

2. No trailer coach shall at any time be parked and lived in between the established setback line and the curb line on any lot.

3. No trailer coach shall be used or occupied unless there is a clear unoccupied space of at least ten (10) feet on all sides thereof.

4. No person shall park, or permit the parking of, any occupied trailer coach, or use, occupy or permit the use or occupancy of any trailer coach on any size lot, field, or tract of land not specifically licensed as a trailer coach park, except as otherwise provided in this Ordinance.

5. Not more than one trailer coach may be parked, used and occupied on the premises of any dwelling, and then only if the occupants of the trailer coach have access to, and the unlimited use of, the sanitary facilities of the dwelling on said premises and if the occupant or owner of such trailer coach secures a permit as elsewhere provided in this Ordinance.

5a. (1) No trailer coach may be parked, used and occupied for any purpose other than a dwelling, except

(a) A trailer coach situated at a construction site used as an office for a tractor.

(b) A trailer coach situated on the site of mobile home and travel trailer sales and used as an office.

(2) A trailer coach may be parked, used and occupied as a dwelling on any premises not specifically licensed as a trailer coach park only in the following instances:

(a) In case of a fire or act of God which makes the permanent dwelling on the premises uninhabitable.

(b) In the event extensive repairs or renovation of the permanent dwelling makes the occupancy of the permanent dwelling impossible.

6. Application for a permit to park, use and occupy a trailer coach on a lot shall be made to the Board of Appeals and shall state the address of the dwelling, the name of the owner or occupant in control thereof, and the name of the owner or occupants and license number of such trailer coach.

The consent in writing of the owner or of the occupant in control of the dwelling premises to such parking, use and occupancy and to the use of the sanitary facilities as herein provided must be attached to the application. Upon the filing of such application, the Board of Appeals shall cause an inspection to be made by the Building Inspector of such dwelling premises and trailer coach and if he finds facilities are afforded on the premises in accordance with the laws of the State of Michigan for the disposal of waste and excrements and it appears that the parking, use and occupancy of such trailer coach complies with the statutes of the State of Michigan and the Ordinances of the Township, they shall approve such application. Upon approval and filing thereof with the Township Clerk and payment of a fee of $10.00, the Clerk shall issue a permit, which permit shall limit the time of parking, use or occupancy to a period of not longer than three (3) months from the date of the application thereof. Every permit shall be displayed in or on the trailer coach for which it is issued on the side nearest to a public street in such a manner as to be readily noticeable at all times.

7. No person shall spill or drain any waste water or liquid waste of any kind upon the surface of the ground or upon any paved area.

8. No person shall remove or cause to be removed the wheels or tires from any trailer coach except for the purpose of repair, nor shall any person elevate, block or stabilize any trailer coach other than with jacks designed, provided and intended for that purpose. No parked trailer coach shall be occupied for sleeping purposes by a greater number of persons in any twenty-four (24) hours than said vehicle is designed and arranged to accommodate at one time.

9. The Building Inspector shall have the authority to enter at any reasonable time any premises upon which a trailer coach is parked, used or occupied for the purpose of ascertaining that the owner, operator or occupant thereof is complying with all the statutes, ordinances and rules and regulations governing the same.

B. Circuses, carnivals, or other transient amusement enterprises may be permitted in any district, upon approval by the Board of Appeals based upon review procedures as outlined in Section 10.05 [185.1005] B-4 of this Ordinance and a finding that the location of such an activity will not adversely affect adjoining properties, nor adversely affect public health, safety, morals, and the general welfare; provided, however, the Commission may require a posting of a bond running to the Township in an amount sufficient to hold the Township free of all liabilities incident to the operation of such activity and to indemnify any adjoining land owner for any damages resulting from the operation of such activity, and which

damages shall be provable before the court having jurisdiction over the premises on which the damages occurred and payable through such court.

C. Temporary storage facilities.

1. No enclosure which was originally designed and constructed for highway travel, such as semi-trailers and truck boxes, may be placed on any size lot, field or tract of land for storage purposes for a period in excess of 15 days except when authorized by the Board of Appeals.
2. Application for a permit to use an enclosure which was originally designed and constructed for highway travel for storage purposes for a period in excess of 15 days shall be made to the Board of Appeals.
3. The Board of Appeals may grant approval for storage facilities as above for a period not to exceed one year after conducting a hearing based on the review procedures as outlined in Section 10.05 [185.1005] B-4 of this Ordinance and finding that the placing, location and use of such facility will not adversely affect adjoining properties nor adversely affect public health, safety, morals and the general welfare. Notice as required in Section 10.04 [185.1004] B-4 shall be given for the hearing.
4. Upon request the Board of Appeals may grant extensions for periods not to exceed one year each upon finding the continued use of such facility will not adversely affect adjoining properties, not adversely affect public health, safety, morals and the general welfare. Notice of the hearing upon the request for an extension need not be given in the discretion of the Board of Appeals.
5. As a condition of granting approval, the Board of Appeals may impose conditions relating to location on the site, foundation, exterior appearance and security.

6. Upon receiving a report from the Building Inspector that the conditions imposed upon granting approval have not been fulfilled or have been violated or that to a change of circumstances the location and use of such facility adversely affects public health, safety morals and the general welfare, the Board of Appeals may, after conducting a public hearing with reasonable notice to the owner of the site where the facility is located, revoke approval or place additional conditions upon the continued use of such facility.

7. The foregoing prohibition shall not apply to the following:

   (a) Temporary storage facilities used in connection with the construction or renovation of a building.

   (b) The parking of a mobile home, travel trailer, boat or recreational vehicle so long as it is not used for storage purposes. (76-1R)

(Amended: Ord. No. 234, 4-26-76; Ord. No. 339, 11-28-83)

185.510 Structure completion.

Sec. 5.10. All structures shall be completed on the outside in conformance with the building code and with finish materials; such as wood, brick, or brick veneer, shingle, concrete or similar performance tested material as approved by the Building Inspector within one year after construction is started unless an extension for not more than one additional year is granted by the Building Inspector as provided elsewhere in this Ordinance.

185.511 Personal construction authority.

Sec. 5.11. Nothing in this Ordinance shall be constructed as prohibiting an owner, tenant, occupant, or

land contract vendee from doing his or her own building, erecting, altering, plumbing, electrical installation, etc., provided the minimum requirements of the State Electrical and Plumbing Codes of the State of Michigan, and the applicable Genesee County Health Department regulations are complied with.

185.512 Domestic pets.

Sec. 5.12. The keeping of four or more domestic pets, of a single species on a premises shall require approval of the Board of Appeals. Litters shall be exempt for six months after birth.

185.513 Size of dwellings.

Sec. 5.13. The minimum square feet of living floor space for one family detached houses shall be as follows:

960 sq. ft., 1 floor house

1250 sq. ft., 1½ or two floor house

1350 sq. ft., Tri-level house

1750 sq. ft., Quad-level house (76-2R)

(Amended: Ord. No. 234, 4-26-76)

ARTICLE VI

185.600 SITE REGULATIONS

185.601 On-site sewage disposal systems.

Sec. 6.01. Before any building permit shall be issued under the terms of this Ordinance, the applicant shall obtain the endorsement in writing from the Genesee County Health Department or the Township Building Inspector approving his plan for any on-site sewage disposal system in accordance with state law, county regulations, or Township Ordinance, whichever is the most restrictive and in accordance with the applicable regulations of the Genesee County Sewage Disposal District in which the premises are located.

185.602 Water supply.

Sec. 6.02.

A. Every building or structure hereafter erected or moved upon any premises and used in whole, or in part, for dwelling, recreational, business, commercial or industrial purposes shall be provided with a safe, adequate and sanitary water supply. All plumbing work relating to the water supply system shall conform to the standards of material and installations set forth by the Michigan State Plumbing Code, a copy which is on file in the Township Clerk's Office.

B. Where a public water system is not available, each fixture from which water for human consumption may be obtained shall be supplied from a system which meets the minimum requirements of the State of Michigan, the Genesee County Health Department and the Michigan State Department of Health.

185.603 Yard and lot area requirement.

Sec. 6.03.

A. Lot Measurements: No area shall be counted as accessory to more than one principal structure or use, and no area necessary for compliance with the open space requirements for one principal structure or use shall be included or counted in the calculation of the open space accessory to any other principal structure or use. In the determination of a land area where a structure is to be erected, altered, or used, no road right-of-way shall be included in the computation of the required minimum land area.

1. Depth of a lot shall be considered to be the distance between the mid-points of straight lines connecting the foremost points to the side lot lines in front and the rearmost points of the side lot lines in the rear.
2. Width of a lot shall be the distance along a straight line connecting side lot lines and measured across the lot between side lot lines and measured across the lot at the required setback; provided, however, that the width between side lot lines at their foremost points (where they intersect with the front lot line) shall not be less than eighty (80) percent of the required lot width, except in the case of lots on the turning circle of culs-de-sac, where the eighty (80) percent requirement shall not apply.
3. The front of a lot shall be the portion nearest the street and, for the purposes of determining yard requirements on corner lots and through lots, all sides of a lot adjacent to streets shall be considered frontage, and setbacks shall be provided as required in this Ordinance.

B. *Dimension criteria:*

1. Height Limitations: The limitations affecting the height of structures shall not apply

to the appurtenant appendages and structures such as parapet walls not exceeding three (3) feet in height, chimneys, smokestacks, church spires, flagpoles, radio or TV towers, masts and aerials, penthouse for mechanical equipment, and water tanks; provided, however, such appendages and structures shall comply with all other provisions of this or any other applicable Ordinance.

2. Yards: All front, side and rear yards shall be the minimum perpendicular distance measured from the principal structure, excluding all projections not exceeding five (5) feet in length from the structure wall, nor measuring five (5) feet in width to the respective front, side, or rear lot line; provided, however, the point of measurement of such front, side, or rear lot line shall be at a point within the subject lot and on a line which will measure not less than twenty (20) feet in length and is parallel to the side of the structure from which the distance is measured, or a parallel line to the lot line tangent to the nearest point of the structure.

   a. In the case of corner lots which do not have reversed frontage, the front yard requirements shall apply to all sides of the lot which abut a street.

   b. In any district where a lot runs through a block from street to street and where a front yard is required, such front yard shall be provided along each street lot line.

   c. In the case of through lots, side yards shall extend from the setback lines of required front yards. In the case of corner lots, yards remaining after full front yards have been established shall

be considered side yards and comply with applicable requirements for side yards.

d. Width of a required side yard shall be measured in such a manner that the yard established is a strip of at least the minimum width required by district regulations.

e. Depth of a required rear yard shall be measured in such a manner that the yard established is a strip of at least the minimum width required by district regulations.

185.604 Exception to yard and lot area requirements.

Sec. 6.04. Lot area and yard requirements normally required within this Ordinance may be changed upon the approval of a variance by the Board of Appeals, in accordance with the provisions of Section 10.04 [185.1004] and subject to the following provisions.

A. *Lot width:* A single family dwelling may be constructed on any officially platted and recorded lot which is less than the minimum width required by this Ordinance provided that the structure complies with all other requirements herein.

B. *Lot area:* A single family dwelling may be constructed on any officially platted and recorded lot which has less than the minimum area required by this Ordinance, provided that the structure shall comply with all other requirements of this Ordinance.

C. *Front yards:* In all residence districts, the front yard may not be less than the required front yard or the average of houses on the same block face and within 400 feet of said lot in platted areas in which 50 percent or more of the lots are developed.

D. *Side yards:* In any case, there shall be provided a minimum of a 5 foot side yard and a total of 15 feet with adjacent side yards between structures.

E. *Rear yards:* The required rear yard depth may be measured to the center line of any adjoining alley, but no building shall be erected within five feet of the alley line, and no dwelling unit shall be erected within 25 feet of the alley line.

185.605 Clear vision zone.

Sec. 6.05. There shall be maintained a clear vision zone at the intersections of all public streets. Such zone shall consist of a triangular area which shall be defined by 1) the point of intersection of the centerlines of the two streets 2) a point on the centerline of each street as defined by the following table:

CLEARZONE POINTS

Zoning District	*Distance of Clearzone from Street Centerlines Intersection*
RA, C-2, C-3, M-1	160 feet
RSA	130 feet
RU-1, RU-2, C-1, M-2	110 feet

Within the clearzone no obstruction to vision, excluding existing topography, shall be permitted from a height of two (2) feet to eight (8) feet above centerline elevation of abutting streets, except that not more than two (2) trees with trunks of not more than thirty (30) inches in diameter each, and clear of any branches for such heights may be located within such area; provided, however, that this section shall not prohibit the requirement of a greater clear vision area where such is necessary in view of permitted traffic, anticipated traffic volumes, or geographic conditions.

185.606 Lot grade.

Sec. 6.06.

A. All structures shall be constructed or located with a ground elevation such as to provide a sloping grade to cause the surface drainage to flow away from the walls of such structures.

B. Grades on any lot upon which new construction or earth movement is to be carried out shall be related to existing grades and drainage systems such as to provide adequate drainage and not jeopardize such existing drainage systems, and shall be approved by the Building Inspector and other authorities having jurisdiction over such system.

C. The foundation of any structure shall be one foot above the grade at the sidewalk and in the case of a lot without a sidewalk, it shall be one foot above the grade at the lowest point on the property boundary.

D. Lots shall be graded so that no occupied floor shall be located at an elevation lower than a 25 year reoccurrence flood level as established by the Genesee County Drain Commission.

185.607 Curb cuts and driveways.

Sec. 6.07. Curb cuts and driveways may be located only upon approval by the Building Inspector and such other county and state authorities as required by law; provided, however, such approval shall not be given where such curb cuts and driveways shall cause an unreasonable increase in traffic hazards.

185.608 Unstable soils areas.

Sec. 6.08. Before a building permit is issued for any structure located in an area designated by the Genesee County Drain Commissioner as "Unstable Soils Area," which area might not be suitable for the proposed use

of the land, such application shall be subject to the Conditional Use Provisions of Section 10.01 [185.1001], for approval by the Township Planning Commission and subject to whatever conditions are necessary to permit the location, construction, and use of the structure without undue hazard to the occupants and users of such structure.

185.609 Fences and screening.

Sec. 6.09.

A. Height: A fence in a residence district shall not exceed the following heights:

1. Six (6) feet to the rear face of the primary structure.
2. Five (5) feet between the front yard setback line (or the average building setback when fifty (50) percent or more of the structures on a block face exceed the minimum setback) and the rear face of the primary structure.
3. Forty-eight (48) inches when located in the front yard setback (or the average building setback when fifty (50) percent or more of the structures on a block face exceed the minimum setback.)

B. Screen fencing shall be constructed of maintenance free materials and shall contain no more than ten (10) percent openings in its surface. Screen fencing shall be a minimum of sixty (60) inches in height.

C. Screen planting shall consist of evergreen plant materials, of a minimum height of forty-eight (48) inches at planting, and which shall constitute a closed planting strip within two (2) years after planting. Owners of required screen planting have the obligation to replace or maintain the condition of plantings. Screen planting shall be placed in a planting strip of at least five (5) feet width.

D. Decorative fencing or planting shall consist of fencing constructed of decorative or partially open materials or of non-continuous shrubs or flowering plants. Owners of required decorative fencing or planting are required to maintain the fencing or planting in good condition and to replace dead plants or plant areas. Decorative planting shall be in a strip of at least five (5) feet width.

E. Security fencing; Open mesh fencing to be used to limit access to a property or place.

F. Boundary fencing: When the boundary of property zoned for C-1, C-2, C-3, M-1 or M-2 use adjoins property zoned for any residential use, a screen fence shall be established on the property zoned for commercial or industrial use at its boundary adjacent to the residential district.

G. Dumpster fencing: Whenever a dumpster is placed on property to collect waste from the structure on the property, a screen fence of a height equal to the height of the dumpster shall be established on three (3) sides of the dumpster, and the fourth side shall be enclosed with a gate.

(Amended: Ord. No. 376, 10-24-88)

185.610 Integrated commercial driveways.

Sec. 6.10.

A. Background: Commercial areas are typically developed in one of three fashions; integrated shopping center, freestanding primary commercial unit, and linear district. In the first two types, access to the site and to off-street parking is a part of the design of the overall project. In linear commercial districts, on the other hand, individual units are more often designed and built over a long period of time. Typically, a linear commercial street will contain numerous and uncoordinated driveways and access points.

Numerous and uncoordinated driveways and access points offer several hazards to the public, including:

1. Traffic safety resulting from numerous, closely spaced, and conflicting entry points into the public roadway.
2. Difficulties in designing traffic control measures and equipment which help orderly traffic flow.
3. Inconvenience to the public wishing to travel to several stores within the district.
4. The general unkept and unorderly appearance of random driveways and parking areas.

In order to promote safety and efficiency in linear commercial districts, certain design standards on the location of driveways, parking areas, and internal connectors are made a part of these regulations.

B. The following standards shall apply to site plans in linear commercial districts:

1. As a general principal, driveways shall not exceed one per property per street face and shall be regularly spaced. A request for more than one driveway entrance shall be justified by the petitioner. More than one driveway entrance shall be related to specific circulation patterns on the site or to the vehicle capacity of the parking lot.
2. Driveways shall be a maximum of 40 feet wide, and located no closer than 20 feet from a lot line.
3. Driveways on opposite sides of a street shall be aligned when possible.
4. Parking areas shall be consistently located to the front or rear of buildings along a stretch of roadway.

5. A stub roadway drive connection shall be provided from any parking area to each lot line adjoining a linear commercial district. Such drive shall be a minimum of 20 feet wide and shall be located at the front lot line wherever possible. Such driveway shall be constructed of the same materials as the parking lot. The driveway shall connect to an adjoining drive where a stubbed driveway has been provided on an adjoining lot.

C. The Township reserves the right, at a future time, to consolidate driveways along a linear commercial district. Such consolidation may include; designation and improvement of prime driveways, elimination of driveways, landscaping, and improvement of internal drive connections.

185.611 Site preparation.

Sec. 6.11.

A. Definitions.

1. Site preparation shall mean the grading, minor excavation, and removal of soil from a lot where the primary purpose of the activity is the preparation of the lot for future development.

B. The site preparation of a lot having an area of three acres or more shall be permitted only under a permit granted by the Township Planning Commission upon a finding by such Commission that the proposed site preparation and the condition in which the site will be left shall not be detrimental to the surrounding land uses nor to the public health, safety, and the general welfare. The findings of the Commission shall be made upon the criteria set forth in paragraph (12) entitled "Excavations and Sanitary Landfills" of Section 4.04 [185.404] of Article IV of this Ordinance and in accordance with the review procedures set forth

in Article X [185.1000] of this Ordinance. The permit which the Commission may issue hereunder may be subject to the same conditions and may contain the same restrictions as set forth in said paragraph (12) of Section 4.04 [185.404]. The Commission shall request a bond in accordance with said paragraph (12) of Section 4.04 [185.404].

C. The site preparation of a lot having an area of less than three acres shall be permitted only under a permit granted by the Building Inspector upon a determination by the Building Inspector that the proposed site preparation and the condition in which the site will be left shall not be detrimental to the surrounding land uses nor to the public health, safety and the general welfare. The determination of the Building Inspector shall be made upon the criteria set forth in paragraph (12) entitled "Excavations and Sanitary Landfills" of Section 4.04 [185.404] of Article IV of this Ordinance. The permit which the Building Inspector may issue hereunder may be subject to the same conditions and may contain the same restrictions as set forth in said paragraph (12) of Section 4.04 [185.404].

(Amended: Ord. No. 263, 8-14-78)

ARTICLE VII

185.700 NON-CONFORMING USES

185.701 Non-conforming use, structure, and lot.

Sec. 7.01.

A. *Non-conforming use.* Any use of land or structure, which use was lawful at the time of the effective date of this Ordinance, may be continued; provided, however, such use shall have continued in operation, does not constitute a nuisance, and shall not be enlarged, altered, or changed in area, activity, or content during its continuance, except as provided otherwise by proper authority.

1. Any non-conforming use of land or structure which has ceased its usual conduct of such business for a period of one (1) year or more shall be considered to have terminated, and may not thereafter commence operation.

B. *Non-conforming structure.* The use of or occupancy of a non-conforming structure, which was a lawful structure at the time of the effective date of this Ordinance, may be continued; provided, however, no enlargement, change, or alteration shall be permitted upon such non-conforming structure, beyond the 10 percent enlargement permitted in this paragraph, except upon a finding by the Building Inspector that such enlargement, change or alteration will bring such structure into conformance with this Ordinance, and that the use within such structure is in conformity with the requirements of this Ordinance; and further provided, that no enlargement, change, or alteration of a non-conforming structure housing a non-conforming use shall be permitted, except upon a finding by the Board of Appeals that such enlargement, change or alteration will permit greater compliance with the provisions of this

Ordinance and that adequate provisions, as required by the Board of Appeals, are installed or instituted to minimize the detrimental effects of the nonconforming use upon adjoining conforming use.

1. Nothing in this Ordinance shall be deemed to prevent the strengthening or restoring to a safe condition of any structure, or part thereof, declared to be unsafe by any official charged with providing for the public safety, and which strengthening or restoration is ordered by such official.

2. Any structure, the use or occupancy of which was lawful at the time of the effective date of this Ordinance, may be increased in total floor area by an amount not to exceed 10 percent of its floor area at the time of the effective date of this Ordinance. This allowance shall not be accumulative, that is, the total enlargement shall at no time exceed 10 percent of the floor area as existed at the effective date of this Ordinance, except by provisions in Section 7.01B [185.701].

C. *Non-conforming lot.* Any lot which was lawful at the time of the effective date of this Ordinance, but does not comply with all the provisions of this Ordinance may be continued in use; provided, however, the change in use of, or the location, modification, or construction of any structure on such lot shall not be permitted, except upon a variance approved by the Board of Appeals based upon a finding that such a variance is warranted, and subject to such conditions as the Board may find necessary to provide for the public health, safety, morals, and general welfare.

1. No building permit shall be issued for the construction of any structure upon any lot within any zoning district, which lot cannot meet the dimensional standards and require-

ments of such district and which lot was created after the enactment of this Zoning Ordinance, or after the enactment of any amendment which affects such standards or requirements, except as provided above.

D. *Destruction of structure.* Nothing in this Ordinance shall prevent the restoration, rebuilding, or repairing of any non-conforming structure, or a structure housing a non-conforming use, which structure has been damaged by fire, acts of God, or any act of a public enemy, subsequent to the effective date of this Ordinance, in an amount up to and including sixty-five (65) percent of the replacement value of the structure as determined by an assessment board consisting of a qualified appraiser appointed by the Township Board, another by the owner of the structure, and a third appointed by the first two appointees, with the cost of such appraisers shared equally by the Township and the owner, and provided that the restoration or repairing shall have commenced and is diligently prosecuted within one (1) year after the date of destruction.

Nothing in this Ordinance shall prevent the renovation or repair of nonstructural members, or the maintenance of a non-conforming structure made necessary by ordinary wear and tear, provided the cost per year of such repair or maintenance does not exceed twenty-five (25) percent of the value of the structure as determined by its state equalized valuation.

ARTICLE VIII

185.800 OFF-STREET PARKING REGULATIONS

185.801 Off-street parking and off-street loading space requirement.

Sec. 8.01.

A. *Off-street parking spaces* shall be provided for each land use activity in accordance with the following minimum schedule:

1. Residential Uses.

Dwelling unit	2 spaces per unit
Motels	1 space per rooming unit
Hotels	1 space per rooming unit
Rooming houses, fraternity houses, dormitories, etc.	1 space per bed or each 100 square feet, whichever will require the larger number of parking spaces
Mobile Home Parks	2 spaces per site
Travel Trailer Parks	1 space per site
Multiple Family Projects for the elderly	1 space per two units when space is reserved on the site for two spaces per unit

2. Institutional and Public Assembly Uses.

Nursery, elementary and junior high schools	1 space per classroom plus 5 spaces, or 1 space per 3 permanent seats or per 21 square feet of assembly hall, whichever will require the largest number of parking spaces

High schools, and colleges with dormitory facilities	4.5 spaces per classroom, or 1 space per 3 permanent seats or 21 square feet of assembly space, whichever will required the largest number of parking spaces
Colleges without dormitory facilities	10 spaces per classroom, plus 1 space per 3 permanent seats or 21 square feet of assembly space whichever will require the largest number of parking spaces
Stadium and sport area	1 space per 4 seats
Swimming pools	1 space per 3 seats, or per 40 square feet of pool surface, whichever will require the largest number of parking spaces
Assembly halls, churches, mortuaries, theaters	1 space per 3 seats or per 21 square feet of assembly space, whichever will require the largest number of parking spaces
Hospitals	2.25 spaces per bed
Convalescent homes, homes for the aged	1.0 space per bed

3. Commercial Uses.

Bowling alley	6 spaces for each lane plus 1 for each 150 square feet of floor area in a restaurant or bar area within the structure

Restaurant (including drive-in service) bar, nightclubs, dance hall, or other similar place of recreation or entertainment, assembly or exhibit hall	15 spaces for the first 1,000 square feet plus 1 per 100 square feet over 1,000 square feet
Business or professional office, bank or financial institution	5 spaces plus 1 space for each 200 square feet of gross floor area over 1,000 square feet of floor area
Retail sales or service establishment except as otherwise specified herein	1 space for each 200 square feet of gross floor area
Furniture or appliance store, hardware store, wholesale establishment, machinery or equipment sales or service, repair service	5 spaces plus 1 for each 300 square feet over 1,000 square feet of floor area
Integrated business structure, containing varied retail or business uses such as in a shopping center or a strip commercial building	5 spaces per 1,000 square feet of floor area. In making computations, freestanding individual businesses are not included in the total floor area total, and are computed separately. Total spaces shall be the sum of the computed spaces.
Medical or Dental Clinic	10 spaces plus one for each 150 square feet of gross floor area
Day Care Center	2 spaces for each certified staff member

4. Industrial Uses. Parking space requirements for all industrial uses shall equal the employee load factor, as proposed in the application for a building permit, or at a rate of 1 space per 50 square feet, whichever appears reasonable and accurate to the Town-

ship Planning Commission provided, however, parking requirements for administrative offices shall be in addition to any such industrial use requirement.

5. Exception. The parking requirements for all uses proposed on a lot shall be cumulative, unless the Commission shall find that the parking requirements of a particular land use occur at different hours from those of other contiguous land uses, such that such particular land use parking requirements can be advantageously used during other non-conflicting hours by the other contiguous land uses, in which event the required parking spaces for such particular land uses may be reduced by the Commission to a minimum of the greatest number of spaces required for any of such contiguous land uses.

6. Design Requirements. An off-street parking layout and dimensional requirements showing compliance with this Ordinance shall be submitted to the Building Inspector for approval before the issuance of a building permit for the structure for which the parking facility is required.

   a. Each parking space shall contain a minimum of 200 square feet and shall have a minimum width of 9 feet, measured perpendicular to side lines. There shall be an average of 300 square feet per parking space for an off-street parking area.

   b. Required off-street parking areas for three (3) or more automobiles shall have individual spaces marked and shall be so designed, maintained, and regulated that no parking or maneuvering incidental to parking shall be on any

public street, walk, or alley, and so that any automobile may be parked and maneuvered without moving or damaging another.

c. For purposes of rough computation, an off-street parking space and necessary access and maneuvering room may be estimated at three hundred (300) square feet, but off-street parking requirements will be considered to be met only when actual spaces meeting the requirements above are provided and maintained, or improved in a manner appropriate to the circumstances of the case, and in accordance with all ordinances, and regulations of the Township.

7. The off-street parking areas and the driveways from public streets shall be surfaced with concrete or plant mixed bituminous material, shall be maintained in a smooth and useable condition and shall be properly graded and drained to dispose of all surface water. When such parking area boundary adjoins property zoned for any residential use, a forty two (42) inch decorative fence with openings not to exceed twenty five (25) percent of the surface area or a dense shrubbery planting of trees and shrubs which will obscure vision from adjoining properties during all seasons shall be established on a strip of land eight (8) feet in width adjacent to the residential district. Shrub planting shall be dense, not less than five (5) feet in height, and shall be maintained in a healthy growing condition, except that said planting shall terminate ten (10) feet from any street right-of-way and plantings not exceeding thirty (30) inches in mature height shall be permitted within this area. Any lighting used to

illuminate any off-street parking and loading area shall be so arranged so as to direct light away from adjoining property and streets.

B. *Off-street loading spaces* for specified land uses shall be provided in accordance with the following requirements:

1. Retail Uses. All retail sales facilities exceeding 10,000 square feet in area shall provide 2 loading spaces plus 1 loading space for each additional 30,000 square feet of floor area over 10,000 square feet.

2. Industrial Uses. All industrial land uses shall provide 1 loading space for each 10,000 square feet of floor area, with a minimum of not less than 2 loading spaces.

3. All loading spaces shall be located and designed to avoid creating traffic hazard to public use of all public rights-of-way.

4. A site plan showing the loading area layout and dimensional requirements shall be submitted to the Building Inspector for approval before the building permit for the structure for which the loading facility is required is issued.

C. *Parking requirements for handicapped persons.* In order to allow for use of off street parking facilities by handicapped persons, the following shall be required in any lot or parcel containing five or more off street parking spaces:

1. Based on the following schedule, off street parking spaces reserved for the handicapped shall be provided:

Total Spaces on Lot	*Required Handicapped Spaces*
5 to 25	1
26 to 50	2

Total Spaces on Lot	*Required Handicapped Spaces*
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of Total
Over 1000	20 plus 1 percent of Spaces Over 1000

When fractional spaces occur, the required number shall be the next larger whole number.

2. Required parking spaces for handicapped persons shall be a minimum of 12 feet wide, measured perpendicular to side lines. The minimum area for such spaces shall be 240 square feet exclusive of aisleways.

3. Signs located 6 feet above grade shall indicate reservation of spaces for handicapped persons. Where a curb exists between a parking lot surface and a sidewalk surface, an inclined approach or a ramped curb cut with a gradient of not more than one foot rise in 12 feet and a width of not less than four feet shall be provided for wheelchair access. Parking spaces for the handicapped shall be located as close to building entrances and walkways as possible. Signs shall indicate the direction of building entrances for handicapped parking spaces located more than 100 feet from a public building entrance.

ARTICLE IX

185.900 SIGNS

185.901 Sign.

Sec. 9.01.

A. *On-site signs* may be permitted in residential and agricultural districts as follows:

1. One professional sign or nameplate sign not more than two (2) square feet in area which shall be non-illuminated.
2. One non-illuminated temporary sign pertaining to the lease or sale of the premises upon which it is placed, not exceeding twelve (12) square feet in total area, provided that it shall be removed within fifteen (15) days after the consummation of a lease or sale transaction.
3. A sign or signs aggregating not more than twelve (12) square feet in area indicating the name of a church on the premises, its pastor and its activities.
4. One temporary sign having a maximum area of twenty-four (24) square feet announcing the sale of lots or structures in any one subdivision, for a maximum period of one (1) year.
5. Signs permitted in the residential districts shall not be erected closer to any adjacent street right-of-way line than one-half (½) the setback required for said lot, provided that a nameplate sign not more than two (2) square feet in area, as regulated above, may be placed anywhere within the front yard.
6. One ground or wall sign, not over twelve (12) square feet in area with a maximum height of six (6) feet, may announce the sale of farm products grown on the premises.

B. *On-site signs* may be permitted in the commercial and manufacturing districts as follows:

No on-site sign shall be permitted which is not accessory to the business conducted on the property. Such sign may only be erected on an exterior wall providing all of the following requirements are met:

1. No business establishment shall have a total of more than two (2) such signs, provided the total sign area for all signs permitted on the face of any wall shall not exceed thirty (30) percent of the area of the face of the wall upon which such sign or signs are attached.
2. All such signs shall be flat signs, attached and parallel to the face of any building wall complying with the following requirements:
   a. No such signs shall extend farther than fifteen (15) inches from the face of the building upon which it is attached, provided, however, that where a sign extends more than three (3) inches from the face of said wall, the bottom of said sign shall not be closer than eight (8) feet from the ground level below said sign.
   b. The maximum height of any single on-site sign shall not exceed ten (10) feet and the maximum width shall not exceed ninety (90) percent of the width of the wall to which said sign is attached.
3. No such sign shall be lighted by means of flashing or intermittent illumination. All lights used for the illumination of business establishments, or for the illumination of business structures or areas surrounding them, or for the illumination or display of merchandise or products of business estab-

lishments shall be completely shielded from the view of vehicular traffic using the road or roads abutting such business properties, such that direct glare shall not be a hazard to such traffic.

Floodlights used for the illumination of said premises, or any sign thereon, whether or not such floodlights are attached to or separate from the structures on which such sign is attached, shall not be directed in such a manner as to adversely affect adjoining or nearby properties, or traffic.

4. No on-site sign, as permitted, shall extend or project above the highest elevation of the wall to which it is attached, provided, however, signs may project above said wall when they are an integral part of such wall.

5. One (1) free-standing or pylon sign per business establishment advertising the name of said establishment including any special company or brand name, insignia or emblem and special announcement of services, provided that such sign shall not exceed eighty (80) square feet in area and be located on the same property upon which said business establishment is located, and shall be located such that no part of such structure extends over the public domain and shall be located or constructed so as not to obscure vision and contribute to hazardous conditions.

6. Customary lettering or other insignia which are a structural part of a gasoline pump, consisting only of the brand name of gasoline sold, leading warning sign, a price indicator, and any other sign required by law, and not exceeding a total of four (4) square feet on each pump; and if illuminated, such signs shall not be the flashing or intermit-

tent type and shall not in any manner constitute a traffic hazard with respect to adjacent streets or intersections.

7. A freestanding identification sign for a shopping center shall be permitted for each public street face of the center which contains an access drive. Such sign may contain only the name of the center and tenants, address of the center, and hours of operation. No product advertising shall be permitted on the sign. The maximum area of such signs shall be 250 square feet each. Restrictions as to location and construction as contained in Item No. 5 shall also apply. For a shopping center containing a drive and street frontage of more than 500 feet, an additional identification sign shall be permitted for each 300 feet of frontage, but not portion thereof, beyond the first 500 feet. Such signs may contain only the name of the shopping center and tenants. The maximum area of such signs shall be 80 square feet.

C. *Off-site signs* may be permitted in Residential Agricultural Districts, Residential Suburban Agricultural Districts, commercial and industrial districts subject to the conditional use provisions of Section 13.01 [185.1301] and subject to the following conditions:

1. Free standing advertising signs or billboards shall not be placed closer than two hundred (200) feet to any residential district other than a Residential Agricultural District or a Residential Suburban Agricultural District.

2. Off-site signs may be either non-illuminated or illuminated, but non-flashing, provided the direct source of light is shielded in such a manner that it is not visible from the street or any adjoining residential property.

3. No off-site advertising sign or billboard shall exceed a height of twenty (20) feet or exceed a length of thirty (30) feet.
4. Off-site sign may only be permitted on unoccupied lots.

ARTICLE X

185.1000 ADMINISTRATION

185.1001 Conditional use permit application procedure.

Sec. 10.01.

A. *Intent.* These conditional use permit review procedures are instituted to provide an opportunity to use a lot for an activity which, under usual circumstances, would be detrimental to other permitted land uses and cannot be permitted within the same district, but which use can be permitted under circumstances unique to the proposed location and subject to conditions acceptable to the community and providing protection to adjacent land uses. In its consideration of applications for conditional uses, the Commission shall consider whether or not the public welfare will be served, whether or not the proposed use will be in harmony with the general purpose and intent of this Ordinance, whether or not the proposed use will be obnoxious, injurious, hazardous or offensive and the suitability of the property, the character of the neighborhood and the economic and aesthetic effects of the proposed use. These procedures are adopted to provide guidelines for the Township Planning Commission to follow in arriving at any decision over which such Commission has jurisdiction, and to provide for the public health, safety, morals, and general welfare, as well as to provide for the interest of the property owner.

B. *Plan required.* Any authorized agency of the township, county, state or federal government or the owner or owners of any tract of land may submit to the Township an application for a conditional use specified in Article IV [185.400] for the uses and purposes set forth. In addition, at such time

that the conditional use is approved, or before a building permit is issued for new construction or alterations, a site plan must be approved by the Planning Commission as set forth in this Article. The plan submitted shall be composed of the following elements and subject to the following conditions:

1. The site plan shall consist of the location of all buildings, drives, and parking areas. Shown on the plan will be all building heights, number of dwelling units, setbacks, and screening as required.
2. The size of buildings, distance between buildings, width of drives and parking areas, and setback distances shall be shown on the drawings by dimensions.
3. The dimensions and area of the property shall be shown. The total number of dwelling units shall be shown for each residential portion of the site and for the total site. Gross and net residential densities shall be shown.
4. All plans shall be drawn at a scale of 100 or fewer feet to the inch and shall contain a location sketch drawn at a scale of 2,000 feet to the inch.
5. All plans shall be prepared by a design professional; a registered community planner; a registered architect; a registered engineer; or a registered landscape architect licensed to practice in the State of Michigan.
6. The plan shall show the location of proposed curb cuts, radii on all curbs and streets, water lines and hydrant locations, and sewer line locations. All proposed utility plans shall be reviewed and approved by the Township Engineer.

7. A traffic and circulation plan shall show the location and design of all exits and entrances to the site, circulation drives, and parking areas showing the number of proposed parking spaces.
8. All regulations pertaining to setbacks from and screening along adjoining property shall apply. All regulations pertaining to setbacks along streets, between buildings, and from drives and parking areas shall apply.
9. The site shall have adequate access from public thoroughfares and shall provide adequate interior circulation and access to buildings and parking areas. The design and location of access points, drives, and parking shall be subject to review and approval by the Zoning Inspector. Driveways and parking areas shall be hard surfaced and dustless.
10. The plans shall include topographic contours at an interval of two feet and shall show the grading plans. The site shall drain surface water to an approved watercourse or pipe enclosure as reviewed and approved by the Township Engineer.
11. Planting plan indicating the location and species of plant materials.
12. Additional reasonable requirements concerning the protection of adjoining activities, the provision of elevation, drawings, of setbacks, screening, lighting, signs, and drives may be set by the Planning Commission as in the normal course of site plan review or because of special or unusual conditions of the proposed use, site or area.

C. *Right of appeal.* The petitioner shall have the right to appeal the decision of the Planning Commission as set forth in Section 10.05 [185.1005] which appeal shall be made in the procedure set forth.

D. *Term of approval.* In the event a building permit is not issued within the period of two years from the date of the approval of the conditional use by the Commission, the Commission may, upon application filed with the Building Inspector before the expiration of the two years, renew its approval of the conditional use for one year periods; and no notice need be given either by publication or by certified mail of the hearing on the application to renew the conditional use.

E. *Modification of plans.* Minor modifications of an approved plan may be approved by the Building Inspector so long as they do not involve:

1. Increase in the number of dwellings
2. Decrease in the amount of open or recreation areas
3. Reduction in the amount of off-street parking
4. Enlargement of any individual structure's ground area by 10 percent or total floor area by 5 percent
5. Location of driveways or curb cuts
6. Elimination of required screening
7. Change in the general location or character of planting or landscaping
8. Change in location or design of public streets

Other proposed changes shall be submitted to the Planning Commission for review and approval. Any alterations shall be noted on the approved drawings and signed by the Building Inspector and Chairman of the Planning Commission. Approved alterations shall not affect the two-year term of approval.

F. *Application procedure.*

1. The conditional use permit application may be accompanied by an application for a zone

change, where such a zone change is necessary to the consideration of the application, provided all applicable provisions for a zone change application have been complied with.

2. Upon receipt of an application as provided in Paragraph 1, the Township Building Inspector shall determine the sufficiency of the application under the Township Rural Zoning Act, Act 184 of Public Acts of 1943, as amended, and under this Ordinance. If he finds the application insufficient, he shall so advise the applicant in writing. If he finds the application in proper form, he shall cause notice of such hearing to be given by two (2) publications in a newspaper of general circulation in the Township, the first to be printed not more than 30 days nor less than 20 days and the second not more than 8 days before the date of such hearing.

3. The Township Building Inspector shall give notice that an application for Conditional Use Permit has been received by mail or personal delivery to the owners of property for which approval is being considered, to all persons to whom real property is assessed with 300 feet of the boundary of the property in question, and to the occupants of all structures within 300 feet. The notice shall be given not less than 5 nor more than 15 days before the date the application will be considered. If the name of the occupant is not known, the term "occupant" may be used in making notification. Notification need not be given to more than 1 occupant of a structure, except that if a structure contains more than 1 dwelling unit or spatial area owned or leased by different individuals, partnerships, businesses or organizations, 1 occupant of each unit or spatial area shall re-

ceive notice. In the case of a single structure containing more than 4 dwelling units or other distinct spatial areas owned or leased by different individuals, partnerships, businesses or organizations, notice may be given to the manager or owner of the structure who shall be requested to post the notice at the primary entrance to the structure.

4. The Commission may direct the applicant to comply with reasonable conditions necessary to insure that public services and facilities affected by a proposed land use or activity will be capable of accommodating increased service and facility loads caused by the land use or activity, to protect the natural environment and conserve natural resources and energy, to insure compatibility with adjacent use of land, and to promote the use of land in a socially and economically desirable manner. Conditions imposed shall meet all of the following requirements:

   (a) Be designed to protect natural resources, the health, safety and welfare and the social and economic well-being of those who will use the land use or activity under consideration, residents and landowners immediately adjacent to the proposed land use or activity, and the community as a whole.

   (b) Be related to the valid exercise of the police power, and purposes which are affected by the proposed use or activity.

   (c) Be necessary to meet the intent and purpose of the zoning ordinance, be related to the standards established in the ordinance for the land use or activity under consideration, and be necessary to insure compliance with those standards.

5. Upon the approval of the application, the Commission shall give notice to the Township Board of its approval, together with any conditions which the Commission has determined to be necessary and its findings, if any, regarding vehicular traffic circulation, geological considerations, air, water and land pollution and waste disposal. Within 30 days of the receipt of the notice of approval, the Township Board may order a public hearing by the Township Board to review the application, the conditions imposed by the Commission and the findings of the Commission, and hear comments from the public. Following the public hearing, the Township Board may confirm the action of the Commission, make modifications to the approval of the Commission or reject the action of the Commission and deny the application. In the event the Township Board does not order a public hearing on the application within 30 days of the receipt of the notice, the action of the Commission shall be final.

6. If, after such hearing, the Commission denies the application, the Petitioner may, within fifteen (15) days following such decision, appeal said decision to the Township Board, and the application shall be considered by the Township Board at a public hearing. The Township Board may confirm the action of the Commission, grant the application with conditions, or grant the application without conditions.

7. The Building Inspector shall, upon receipt of notices of approval by the Commission which has become final or upon the action of approval by the Township Board and upon application by the applicant, accompanied by a receipt duly executed by the Township

Treasurer attesting to the payment of all required fees, issue a building permit for the approved conditional use, provided he has found satisfactory compliance with all condition precedents imposed by such approval.

8. The privileges of a conditional use permit may be exercised only at the premises described in the permit. (80-14R)

(Amended: Ord. No. 289, 10-22-79; Ord. No. 308, 10-14-80; Ord. No. 311, 2-8-81)

185.1002 Site plan review procedure.

Sec. 10.02.

A. *Intent.* These site plan review procedures are instituted to provide an opportunity for the Township Planning Commission to review the proposed use of a site in relation to drainage, pedestrian and vehicular circulation, off-street parking, structural relationships, public utilities, landscaping, accessibility and other site design elements which may have an adverse effect upon the public health, safety, morals and general welfare, as well as to provide for the interests of the property owner.

B. Site plan review and approval is required for any proposed structure, facility, addition or alteration which, under Act 240 of the Public Acts of 1937 of the State of Michigan, as amended, requires plans to be prepared by a design professional and which is located within a district required by this ordinance to have site plan review. Said plans shall be submitted to the Township Building Inspector and shall conform to the following:

1. The site plan shall consist of the location of all buildings, drives, and parking areas. Shown on the plan will be all building heights, number of dwelling units, setbacks, and screening as required.

2. The size of buildings, distance between buildings, width of drives and parking areas, and setback distances shall be shown on the drawings by dimensions.
3. The dimensions and area of the property shall be shown. The total number of dwelling units shall be shown for each residential portion of the site and for the total site. Gross and net residential densities shall be shown.
4. All plans shall be prepared by a design professional; a registered community planner, a registered architect, a registered engineer, or a registered landscape architect licensed to practice in the State of Michigan.
5. The plan shall show the location of proposed curb cuts, radii on all curbs and streets, water lines and hydrant locations, and sewer line locations. All proposed utility plans shall be reviewed and approved by the Township Engineer.
6. A traffic and circulation plan shall show the location and design of all exits and entrances to the site, circulation drives, and parking areas showing the number of proposed parking spaces.
7. The plans shall include topographic contours at an interval of two feet and shall show the grading plans. The site shall drain surface water to an approved watercourse or pipe enclosure as reviewed and approved by the Township Engineer.
8. Planting plan indicating the location and species of plant materials.
9. Additional reasonable requirements concerning the protection of adjoining activities, the provision of elevation, drawings, of setbacks, screening, lighting, signs, and drives may be

set by the Planning Commission as in the normal course of site plan review or because of special or unusual conditions of the proposed use, site or area.

C. 1. Site Plans for alterations or additions to existing structures where not more than 1,000 square feet is involved shall be reviewed and approved, approved with modifications or rejected by the Township Building Inspector.

a. The site plan shall be approved if it contains the information required by this Ordinance, is in compliance with this ordinance, the conditions imposed pursuant to this ordinance, other applicable ordinances, and state and federal statutes, and, upon a finding that the proposed use will not, upon the facts known at the time of submission of the site plan, cause undue hardship, or create unsafe or hazardous health or safety conditions or create a nuisance condition to the detriment of adjoining land users or the general public.

2. All other site plans shall be referred to the Township Planning Commission for its review and evaluation.

D. The Planning Commission shall review and communicate its approval or recommended site plan modifications to the applicant. In cases where modifications have been recommended, the applicant shall resubmit a site plan incorporating those modifications to the Planning Commission for their review.

1. The site plan shall be approved if it contains the information required by this Ordinance and is in compliance with this ordinance, the conditions, and state and federal statutes,

and upon a finding that the proposed use will not, upon the facts known at the time of submission of the site plan, cause undue hardship, or create unsafe or hazardous health or safety conditions or create a nuisance condition to the detriment or adjoining land users or the general public.

2. Any required modification shall be directed to the specific elimination of unsafe or hazardous health or safety conditions or the prevention of nuisance conditions, and shall be noted.

E. Upon receipt of the modified site plan the Township Planning Commission shall evaluate the changes which have been made and if deemed acceptable shall communicate its approval of the site plan to the applicant.

F. Disapproval of a site plan may be appealed to the Township Board of Appeals under the provisions of Section 10.05 [185.1005].

(Amended: Ord. No. 289, 10-22-79)

185.1003 Variance.

Sec. 10.03.

A. A variance from the provisions of this Ordinance may be granted by the Board of Appeals, subject to the provisions of Section 10.04 [185.1004] of this Ordinance and upon finding by such Board of all of the following: (1) the strict enforcement of the provisions of this Ordinance would cause an unnecessary hardship and deprive the owner of rights enjoyed by all other property owners owning property within the same zoning district; (2) there are conditions and circumstances unique to the property which are not similarly applicable to other properties in the same zoning district; (3) the conditions and circumstances unique to the property were not created by the owner, or his

predecessor in title, within the time following the effective date of the provisions alleged to adversely affect such property; (4) the requested variance will not confer special privileges that are denied other properties similarly situated and in the same zoning district; and (5) the requested variance will not be contrary to the spirit and intent of this Zoning Ordinance.

B. A variance granted under this Ordinance shall not permit a use not otherwise permitted within the zoning district, upon the property for which a variance is being requested.

185.1004 Variance review procedures.

Sec. 10.04.

A. *Intent.* These variance review procedures are instituted to provide an opportunity for the relaxation of the terms of the Zoning Ordinance through a variance, where such variance will not be contrary to the public interest and where, owning to conditions peculiar to the property and not the result of the actions of the applicant, or his predecessors in title, a literal enforcement of the Ordinance would result in an unnecessary and undue hardship. As used in this Ordinance, a variance is authorized only for area and size of structure, or size of yards and open spaces; establishment or expansion of a use otherwise prohibited shall not be allowed by variance, nor shall a variance be granted because of the presence of non-conformities in the Zoning District or uses in an adjoining Zoning District.

B. *Procedures.*

1. An application for the approval of a variance shall be made, by an owner of an interest in the lot, to the Township Building Inspector accompanied by the necessary fees and documents as provided in this Ordinance.

2. The application shall be accompanied by a site plan drawn to the scale of 1″ equals 20′ and placed on a standard sheet and containing the following information:
   a. Dimensional elements for which a variance is requested.
   b. Dimensional relationships of the subject lot to the structures on all adjacent lots.
3. The application shall be accompanied by an affidavit by the applicant explaining:
   a. How the strict enforcement of the provisions of the Township Zoning Ordinance would cause an unnecessary hardship and deprive the owner of rights enjoyed by all other property owners owning property within the same Zoning District.
   b. The conditions and circumstances unique to the property which are not similarly applicable to other properties in the same Zoning District.
   c. The conditions and circumstances unique to the property were not created by the owner, or his predecessor in title, within the time following the effective date of the provisions alleged to adversely affect such property.
   d. Why the requested variance will not confer special privileges that are denied other properties similarly situated and in the same Zoning District.
   e. Why the requested variance will not be contrary to the spirit and intent of this Zoning Ordinance.
4. The Township Building Inspector shall notify the applicant and all owners of an interest in lots, as recorded on the Township tax

roll, and within 300 feet of the subject lot upon which a variance is requested, of the time and place of the Board of Appeals meeting at which such application will be considered; provided, however, such notice shall be given not less than fifteen (15) days before such meeting.

5. The Board shall consider the application for variance at its next regular meeting, which provides sufficient time for notice, as required heretofore, or within not more than thirty-five (35) days after receipt of the application by the Township Building Inspector and hear and question any witness appearing before the Board.

6. The Board shall approve, with or without conditions, or disapprove the application and shall communicate its action, in writing, to the applicant, the Township Board, the Building Inspector, and the Township Planning Commission within two (2) weeks from the time of the meeting at which it considered the application.

   a. The Board shall not approve an application for a variance unless it has found positively that:

      (1) The strict enforcement of the Zoning Ordinance would cause unnecessary hardship and deprive the owner of rights enjoyed by all other property owners owning property within the same Zoning District.

      (2) The conditions and circumstances are unique to the subject property and are not similarly applicable to other properties in the same Zoning District.

      (3) The conditions and circumstances unique to the property were not

created by the owner, or his predecessor in title, within the time following the effective date of the provisions alleged to adversely affect such property.

(4) The requested variance will not confer special privileges that are denied other properties similarly situated and in the same Zoning District.

(5) The requested variance will not be contrary to the spirit and intent of the Township Zoning Ordinance.

7. The Building Inspector shall, upon receipt of the notice of approval and upon application by the applicant, accompanied by a receipt duly executed by the Township Treasurer attesting to the payment of all required fees, issue a building permit or such other approval permitting the variance, subject to all conditions imposed by such approval.

(Amended: Ord. No. 282, 9-11-89)

185.1005 Appeals procedures.

Sec. 10.05.

A. *Intent.* These appeals procedures are instituted to hear and decide appeals from and review any order, requirement, decision, or determination made by an administrative official charged with the enforcement of the Township Zoning Ordinance, except the issuance of a variance which shall follow the procedures of Section 10.03 [185.1003] of this Ordinance.

B. *Procedures.* An appeal shall be filed with the officer from whom the appeal is taken and with the Board of Appeals specifying the grounds for the appeal.

1. The officer from whom the appeal is taken shall forthwith transmit to the Board all papers constituting the record upon which the appeal is taken.

2. An appeal stays all proceedings in furtherance of the action appealed from, unless the officer from whom the appeal is taken certifies to the Board after the notice of appeal shall have been filed with him, that by reason of facts stated in the certificate, a stay would in his opinion cause imminent peril to life or property, in which case proceedings shall not be stayed otherwise than by a restraining order, which may be granted by the Board, or by the Circuit Court, on application, on notice to the officer from whom the appeal is taken, and on due cause shown.

3. Such appeal may be taken by any person aggrieved or by any officer, department, board, or bureau of the Township, County, or State.

4. The Board shall fix a reasonable time for the hearing of the appeal and give due notice thereof to the parties, and decide the same within a reasonable time. Upon the hearing, any party may appear in person or by agent or by attorney. The Board may reverse or affirm, wholly, or partly, or may modify the order, requirement, decision, or determination, as in its opinion ought to be made in the premises, and to that end shall have all the power of the officer from whom the appeal was taken and may issue or direct the issuance of a permit. Where there are practical difficulties or unnecessary hardships in the

way of carrying out the strict letter of such Ordinance, the Board shall have power in passing upon appeals to vary or modify any of its rules, regulations, or provisions so that the spirit of the Ordinance shall be observed, public safety secured, and substantial justice done. The decision of such Board shall not be final, and any person having an interest affected by any such Ordinance shall have the right to appeal to the Circuit Court on questions of law and fact.

5. The concurring vote of a majority of the members of the Board shall be necessary to reverse any order, requirement, decision, or determination of any such administrative official.

6. Any action by the Board shall be stated in writing.

185.1006 Board of appeals.

Sec. 10.06.

A. The Board of Appeals shall perform the duties and exercise the powers assigned to it under this Ordinance and under Act 184 of the Public Acts of Michigan for 1943, as amended.

B. Meetings of the Board of Appeals shall be held once a month and upon the call of the Chairman. All meetings of the Board of Appeals shall be open to the public. The Board of Appeals shall maintain a record of its proceedings which shall be filed in the office of the Township Clerk and shall be a public record.

C. The Board of Appeals shall, among other things, and within the scope of the standards set forth in Sec. 10.05 [185.1005]B-4, have the following authority:

1. Grant approval pursuant to Sec. 3.04 [185.304]1-A-2

2. Grant a permit pursuant to Sec. 5.09 [185.509]A
3. Grant a permit pursuant to Sec. 5.09 [185.509]B
4. Grant a permit for the enlargement, change or alteration of a non-conforming structure housing a non-conforming use pursuant to Sec. 7.01 [185.701]B.

185.1007 Zoning ordinance amendment procedures.

Sec. 10.07.

A. *Initiation of amendments.*

1. Any proposal for an amendment to the Zoning Ordinance text or map may be initiated by any qualified voter, resident in the Township upon the filing with the Township Clerk of a petition containing the proposed text or map change and endorsed by Township electors numbering not less than ten (10) percent of the number of Township electors voting for the office of the governor at the last election at which a governor was elected, and accompanied by any necessary documents.
2. Any proposal for an amendment to the Zoning Ordinance map may be initiated by any owner of an interest in the lot as to the rezoning of such lot, upon the filing with the Township Clerk of a petition proposing the zone change, accompanied by a map showing the subject parcel in relation to adjoining parcels of land, and the necessary fees for such zone change.
3. Any proposal for an amendment to the Zoning Ordinance text or map may be initiated by the Township Board or the Township Planning Commission, upon filing with the

Township Clerk of a petition proposing the zone change, accompanied by a map showing the subject parcel in relation to adjoining parcels of land, and the necessary fees for such zone change.

B. *Procedures.*

1. Notice shall be given of the time and place of the Township Planning Commission meeting at which the amendment will be heard in the following manner:

   a. Upon receipt of a petition as provided in Paragraph A above, the Township Building Inspector shall determine the sufficiency of the petition under the Township Rural Zoning Act, Act 184 of Public Acts of 1943, as amended, and under this Ordinance. If he finds the petition insufficient, he shall so advise the petitioner in writing. If he finds the petition in proper form, he shall cause notice of such hearing to be given in two (2) publications in a newspaper of general circulation in the Township, the first to be printed not more than 30 days nor less than 20 days and the second not more than 8 days before the date of such hearing.

2. Not less than 20 days' notice of the time and place of the hearing shall also be given by mail to each electric, gas, pipeline and telephone public utility company, and to each railroad operating within the district or zone affected, that registers its name and mailing address with the Township Planning Commission for the purpose of receiving the notice.

3. If an individual property or several adjacent properties are proposed for rezoning, the

township shall give a notice to all persons to whom any real property within 300 feet of the premises in question is assessed, and to the occupants of all single and 2-family dwellings within 300 feet. The notice shall be delivered personally or by mail to the respective owners and tenants at the address given in the last assessment roll. If the tenant's name is not known, the term "occupant" may be used. If the notice is delivered by mail, an affidavit of mailing shall be filed with the zoning board before the hearing. The notice shall be made not less than 8 days before the hearing stating the time, place, date and purpose of the hearing.

4. Following such hearing, the Commission shall process the proposed Zoning Ordinance in accordance with the procedures outlined in Act 184, Public Acts of 1943, as amended.

5. If, after such hearing, the Commission recommends, that such proposed amendment or change not be adopted, the Petitioner may, within fifteen (15) days following such decision, appeal said decision to the Township Board, which may in said Township Board's discretion, direct the Commission to process the proposed amendment or change in accordance with the procedures outlined in Act 184, Public Acts of 1943, as amended, and thereafter such amendment or change shall be considered by the Township Board for such action as it deems appropriate.

(Amended: Ord. No. 289, 10-22-79)

185.1008 Administration and enforcement.

Sec. 10.08.

A. *Administrative official.* The Building Inspector designated by the Township Board shall adminis-

ter and enforce this Ordinance. He may be provided with the assistance of such other persons as the Township Board may direct.

1. If the Building Inspector shall find that any of the provisions of this Ordinance are being violated, he shall notify, in writing, the person responsible for such violation, or the owner of record of the lot upon which such violation is taking place, indicating the nature of the violation and ordering the action necessary to correct it. He shall order discontinuance of the illegal use of any lot or structures; or of illegal additions, alterations, or structural changes; discontinuance of any illegal work being done; or shall take any other action authorized by this Ordinance to ensure compliance with or to prevent violation of its provisions.

B. *Building permits required.* No structure shall be erected, moved, added to, or structurally altered without a permit therefor, issued by the Building Inspector. No building permit shall be issued by the Building Inspector except in conformity with the provisions of this Ordinance, unless he receives a written approval for a conditional use permit from the Township Planning Commission, or a reversal on appeal, or variance from the Board of Zoning Appeals, in accordance with the provisions as provided by this Ordinance.

185.1009 Building permits.

Sec. 10.09.

A. *Building permit application.* All Application for building permits shall be accompanied by two (2) sets of plans drawn to scale, showing the actual dimensions and shape of the lot to be built upon; the exact sizes and locations on the lot of structures already existing, if any; and the location

and dimensions of the proposed structure or alteration. The application shall include such other information as lawfully may be required by the Building Inspector, including data on existing or proposed structures or alteration; existing or proposed uses of the structure and lot; the number of families, housekeeping units, or rental units the structure is designed to accommodate; conditions existing on the lot; and such other information as may be necessary to determine conformance with, and provide for the enforcement of, this Ordinance.

1. One (1) copy of the plans shall be returned to the applicant by the Building Inspector after he shall have marked such copy either as approved, or disapproved, and attested to same by his signature on such copy. One (1) copy of the plans, similarly marked, shall be retained by the Building Inspector.

B. *Issuance.* A building permit shall be obtained from the Building Inspector before any construction, erection, alteration, or addition to any structure may be undertaken, or before any structure is relocated into or within the Township. No permit shall be valid until the required fee has been paid. For each building permit so issued, a fee shall be paid to the Township Treasurer, based on an affidavit on construction value as provided by the Building Inspector, in accordance with the schedule set forth in Sec. 10.11 of this Article.

1. No building permit fee will be charged for the repair of damages to one-family dwellings, two-family residential structures, three-family residential structures and accessory structures caused by fire, windstorm or act of God; provided, however, all other requirements of this Ordinance shall be met, a building permit is issued for the construction proposed and the work is to be done by the owner.

2. In applying the schedule of fees, the physical value of the work shall be determined by the Building Inspector on the basis on current costs and an affidavit of such determination issued. If, upon the completion of the structure, it is found by the Building Inspector that the estimated fee was less than required for the actual cost, the applicant shall forthwith pay any additional fee for which he would have been liable initially and, in default thereof, shall not be entitled to receive a certificate of occupancy and compliance until such additional fee is paid.
3. In the event that a building permit is not issued, the fee so paid shall be returned to the payor thereof.

C. *Violations and cancellation of permit.*

1. Should the Building Inspector determine that the construction is not proceeding according to the plan filed, or is in violation of any provision of this code, or any other applicable ordinance, regulations, or law, he shall so notify the permit holder and further construction shall be stayed until correction has been effected and approved by the Building Inspector, upon notice and request for reinspection duly made.
2. Should the permit holder fail to comply with any applicable requirements, at any stage of construction, the Building Inspector is hereby empowered to cancel the building permit issued and shall cause notice of such cancellation to be securely posted upon said construction and at a location of ready visibility. Posting of such notice shall be considered sufficient notification to the permit holder of cancellation thereof. No further work shall be undertaken, or permitted upon such construction until a new building permit shall have been issued.

3. Any permit holder whose construction shall have been stayed under subparagraph 1 above, or whose building permit shall have been cancelled under subparagraph 2 above, shall not be granted any building permit for any other construction of any type whatever, until correction has been effected and approved as provided in subparagraph 1 above, or until a new building permit shall have been issued to replace the cancelled building permit, as provided in subparagraph 2 above.

D. *Expiration of building permit.*

1. If the work described in any building permit has not begun within six (6) months from the date of issuance thereof, said permit shall become void and shall be cancelled by the Building Inspector and written notice thereof shall be given to the persons affected. Provided, however, such permit may be continued by the Building Inspector if he finds that construction was delayed by causes beyond the control of the applicant.

2. If the work described in any building permit has not been substantially completed within one (1) year of the date of issuance thereof, said permit shall expire and be cancelled by the Building Inspector, and written notice thereof shall be given to the persons affected, together with notice that further work as described in the cancelled permit shall not proceed unless and until a new building permit has been obtained.

3. The Building Inspector may, on application renew a permit for not to exceed one additional year, without additional charge, if a satisfactory degree of progress in construction is shown.

4. All permits and renewals thereof shall be in writing.

E. *Subdivision control act.* No building permit shall be issued for the construction of any structure on any lot, tract, or parcel of land subdivided in violation of Act 288 of Michigan Public Acts of 1967, as amended.

(Amended: Ord. No. 263, 8-14-78)

185.1010 Construction and compliance.

Sec. 10.10.

A. *Construction and use to be as provided in application, plans, permits, and certificates of zoning compliance.* Building permits or certificates of zoning compliance shall be issued by the Building Inspector on the basis of plans and applications approved, where necessary, by the Township Planning Commission or the Board of Zoning Appeals and authorize only the use, arrangement, and construction set forth in such approved plans or constructions. Use, arrangement, or construction at variance with that authorized shall be deemed violation of this Ordinance, and punishable as provided under applicable provisions of this Ordinance.

B. *Certificates of zoning compliance for new, altered or non-conforming uses.* It shall be unlawful to use, or occupy, or permit the use, or occupance of any structure or premises, or parts thereof, hereafter created, erected, changed, converted, or wholly or partly altered or enlarged in its use or structure, until a certificate of zoning compliance shall have been issued therefor by the Building Inspector stating that the proposed use of the structure or lot conforms to the requirements of this Ordinance.

1. No non-conforming structure or use shall be maintained, renewed, changed, or extended until a certificate of zoning compliance shall have been issued by the Building Inspector.

The certificate of zoning compliance shall state specifically wherein the non-conforming use differs from the provisions of this Ordinance, provided that upon enactment or amendment of this Ordinance, owners or occupants of non-conforming uses or structures shall have six (6) months to apply for certificates of zoning compliance. Failure to make such application within such six (6) months shall be presumptive evidence that the property was in conforming use at the time of enactment or amendment of this Ordinance.

2. No permit for erection, alteration, moving, or repair of any structure shall be issued until an application has been made for a certificate of zoning compliance, and the certificate shall be issued in conformity with the provisions of this Ordinance upon completion of the work.

3. The Building Inspector shall maintain a record of all certificates of zoning compliance, and a copy shall be furnished upon request to any person.

4. Failure to obtain a certificate of zoning compliance shall be a violation of this Ordinance and punishable under the applicable provision of this Ordinance.

5. All building projects requiring the preparation of plans, in accordance with Act 240 of the Public Acts of the State of Michigan of 1937, as amended, a registered design professional, either Architect or Professional Engineer, who may be retained by the Owner to provide contract administration during construction of a building project, will be required to sign a certification attesting to adequacy of construction in conformance with

local codes, and other regulations. The following is the form that this certification shall take:

In accordance with your instructions to our client, we have been retained to perform inspection services on the above referenced project pursuant to provisions of the zoning ordinance of Genesee Township. Services have been performed within the scope of our agreement with our client.

We hereby certify to the best of our knowledge, information, and belief that the portion of the project encompassed under this certification complies with the requirements of the drawings, specifications, approved site plans and all Genesee Township building ordinances and regulations. This certification is based on our professional judgments made during periodic observations of the progress of construction. Signed and notarized.

185.1011 Schedule of fees, charges, and expenses.

Sec. 10.11.

A. Fees, charges and expenses shall be assessed as part of the application for conditional use permits, variances, appeals, building permits, certificates of zoning compliance, and amendments to defray expenses incurred in processing such application.

B. Fees to be paid in connection with proceedings under this Ordinance shall be established by the Township Board by separate ordinance.

C. Fees to be paid for the issuance of building permits shall be established by the Township Board by separate ordinance.

D. No action shall be taken on any application or appeal until all applicable fees, charges, and expenses have been paid in full.

ARTICLE XI

185.1100 PENALTIES FOR VIOLATION

A. *General Penalty Clause.* Violation of this Ordinance is hereby designated a municipal civil infraction and a civil fine in an amount not to exceed $500.00 plus costs shall be paid by a defendant who is found responsible for each such violation. Violators shall also be subject to sanctions, remedies and procedures set forth in Ordinance No. 420 and Act 236 of the Public Acts of 1961, as amended.

B. *Fines Paid at Violations Bureau.* If the civil fine is paid at the Charter Township of Genesee Municipal Violations Bureau pursuant to a municipal ordinance violation notice, the fine shall be $100.00. No costs shall be imposed or collected at the Violations Bureau for this violation.

C. Each day such violations continue shall be considered a separate offense.

D. The owner or tenant of any building, structure, premises, or part thereof and any architect, builder, contractor, agent, or other person who commits, participates in, assists in, or maintains such violation may each be found guilty of a separate offense and suffer the penalties herein provided.

E. Nothing herein contained shall prevent the Township from taking such other lawful action as is necessary to prevent or remedy any violation.

(Amended: Ord. No. 423, 6-10-96)

ARTICLE XII

185.1200 NUISANCE PER SE

Uses of land and dwelling, buildings, or structures, including tents and trailer coaches, used, erected, altered, raised or converted, in violation of any provision of this Ordinance or any regulation adopted pursuant to this Ordinance are hereby declared to a Nuisance Per Se. The Court shall order such Nuisance abated.

ARTICLE XIII

185.1300 SEVERABILITY CLAUSE

This Ordinance and the various parts, sections, subsections, provisions, sentences, and clauses therefor are hereby declared to be severable. If any part, section, subsection, provision, sentence, or clause is adjudged unconstitutional or invalid, it is hereby declared that the remainder of this Ordinance shall not be affected thereby.

ARTICLE XIV

185.1400 REPEAL OF EXISTING ORDINANCE

The existing Zoning Ordinance of the Township of Genesee, being Ordinance No. 11, adopted July 25, 1955, and all amendments thereto, are hereby repealed. The adoption of this Ordinance, however, shall not affect or prevent any pending or future prosecution of, or action to abate, any existing violation of Ordinance No. 11, as amended, if the use, so in violation, is in violation of the provisions of this Ordinance.

ARTICLE XV

185.1500 EFFECTIVE DATE

This Ordinance shall become effective on June 23, 1975.

ARTICLE XVI

185.1600 USE ZONING DISTRICT CHANGES*

Ord. No.	Date	Section	Description
230	12-22-75	16.01	Rezones premises to Residential Urban District (RU-1)
		16.02	Rezones premises to Commercial Local District (C-1)
		16.03	Rezones premises to Residential Urban Multiple Family District (RU-2)
		16.04	Rezones premises to Commercial General District (C-2)
232	2- 2-76	16.05	Rezones premises to Commercial Local District (C-1)
233	3- 8-76	16.06	Rezones premises to Commercial Local District (C-1)
236	6-28-76	16.07	Rezones premises to Commercial Local District (C-1)
		16.08	Rezones premises to Light Industry (M-1)
237	8- 9-76	16.09	Rezones premises to Commercial Local District (C-1)

*Editor's note— Ordinances amending Art. XVI, Use Zoning District Changes, are listed herein. Complete copies of these ordinances are available in the office of the Township Clerk.

Ord. No.	Date	Section	Description
238	12-13-76	16.10	Rezones premises to Commercial General District (C-2)
		16.11	Rezones premises to Commercial Local District (C-1)
		16.12	Rezones premises to Commercial General District (C-2)
239	12-24-76	16.13	Rezones premises to Commercial General District (C-2)
242	3-14-77	16.14	Rezones premises to Light Manufacturing District (M-1)
245	4-25-77	16.15	Rezones premises to General Commercial District (C-2)
246	6-27-77	16.16	Rezones premises to General Commercial District (C-2)
247	8- 8-77	16.17	Rezones premises to Commercial Local District (C-1)
251	10-11-77	16.18	Rezones premises to Commercial Local District (C-1)
254	12-27-77	16.19	Rezones premises to General Commercial District (C-2)
255	2-14-78	16.20	Rezones premises to Commercial General District (C-2)

Ord. No.	Date	Section	Description
		16.21	Rezones premises to Commercial General District (C-2)
		16.22	Rezones premises to Commercial General District (C-2)
		16.23	Rezones premises to Commercial General District (C-2)
256	2-27-78	16.24	Rezones premises to Commercial Local District (C-1)
259	6-12-78	16.25	Rezones premises to Commercial Local District (C-1)
261	7-10-78	16.26	Rezones premises to Commercial Local District (C-1)
		16.27	Rezones premises to General Commercial District (C-2) Rezones premises to Light Industry District (M-1)
264	10-10-78	16.28	Rezones premises to Light Industry District (M-1)
266	10-23-78	16.29	Rezones premises to Commercial General District (C-2)
268	12-11-78	16.30	Rezones premises to Residential Suburban Agricultural (RSA) District
274	1- 8-79	16.31	Rezones premises to General Commercial (C-2) District

Ord. No.	Date	Section	Description
275	2-13-79	16.32	Rezones premises to Light Industry (M-1) District
		16.33	Rezones premises to Commercial Local (C-1) District
276	3-26-79	16.34	Rezones premises to Commercial General (C-2) District
285	8-13-79	16.35	Rezones premises to Light Industry (M-1)
286	8-13-79	16.36	Rezones premises to General Industry (M-2)
289	10-22-79	16.37	Rezones premises to Commercial Local District (C-1)
292	11-13-79	16.37	Rezones premises to Commercial General District (C-2)
293	11-13-79	16.38	Rezones premises to Commercial General District (C-2)
		16.39	Rezones premises to Commercial General District (C-2)
298	4-28-80	16.40	Rezones premises to General Industry (M-2)
301	6-23-80	16.40	Rezones premises to Residential Urban Multiple Family District (RU-2)
		16.41	Rezones premises to Residential Urban Multiple Family District (RU-2)

Ord. No.	Date	Section	Description
		16.42	Rezones premises to Commercial General District (C-2)
302	7-14-80	16.43	Rezones premises to General Industry District (M-2)
		16.44	Rezones premises to Commercial General District (C-2)
303	8-11-80	16.45	Rezones premises to Commercial General District (C-2)
		16.46	Rezones premises to Residential Urban Multiple Family District (RU-2)
306	9- 8-80	16.47	Rezones premises to Commercial Local District (C-1)
308	10-14-80	16.48	Rezones premises to Light Industry (M-1)
310	1-12-81	16.49	Rezones premises to Commercial General District (C-2)
311	2- 8-81	16.50	Rezones premises to Commercial Local District (C-1)
315	6- 8-81	16.52	Rezones premises to Commercial General District (C-2)
319	8-24-81	16.53	Rezones premises to Commercial General District (C-2)

Ord. No.	Date	Section	Description
321	9-28-81	16.54	Rezones premises to Commercial General District (C-2)
331	2-14-83	16.55	Rezones premises to Commercial General District (C-2)
333	3-28-83	16.56	Rezones premises to Light Industry District (M-1)
335	6-13-83	16.57	Rezones premises to Residential Urban District (RU-1)
336	6-27-83	16.58	Rezones premises to Commercial General District (C-2)
337	8-22-83	16.59	Rezones premises to Commercial General District (C-2)
338	9-26-83	16.60	Rezones premises to Commercial General District (C-2)
340	7-23-84	16.61	Rezones premises to Local Commercial District (C-1)
341	8-27-84	16.62	Rezones premises to Local Commercial District (C-1)
342	1-28-85	16.63	Rezones premises to Commercial General District (C-2)
345	4-22-85	16.64	Rezones premises to Elderly Housing District (EH)
		16.65	Rezones premises to Local Commercial District (C-1)

Ord. No.	Date	Section	Description
347	5-28-85	16.64	Rezones premises to Residential Urban Multiple Family District (RU-2)
348	10-15-85	16.65	Rezones premises to Commercial General District (C-2)
351	2-24-86	16.67	Rezones premises to Commercial General District (C-2)
354	4-14-86	16.68	Rezones premises to Commercial General District (C-2)
355	6- 9-86	16.69	Rezones premises to Commercial General District (C-2)
		16.70	Rezones premises to Commercial Local District (C-1)
356	2-14-86	16.71	Rezones premises to Commercial Local District (C-1)
357	11-10-86	16.72	Rezones premises to Commercial General District (C-2)
358	6-23-75	16.73	Rezones premises to Residential Urban Multiple Family District (RU-2)
359	2- 9-87	16.74	Rezones premises to Commercial Local District (C-1)
362	5-11-87	16.75	Rezones premises to Commercial General District (C-2)

Ord. No.	Date	Section	Description
367	7-27-87	16.76	Rezones premises to Commercial General District (C-2)
368	8-10-87	16.76	Rezones premises to Light Industry District (M-1)
369	9-28-87	16.78	Rezones premises to Commercial Local District (C-1)
375	9-12-88	16.79	Rezones premises to Light Industry District (M-1)
377	4-24-89	16.79	Rezones premises to Commercial Local District (C-1)
381	6-26-89	16.80	Rezones premises to Commercial General District (C-2)
383	6-26-89	16.81	Rezones premises to Commercial Local District (C-1)
385	4-23-90	16.[82]	Rezones premises to Residential Urban Multiple Family District (RU-2)
386	8-27-90	16.[83]	Rezones premises to Residential Urban Multiple Family District (RU-2)
387	8-27-90	16.[84]	Rezones premises to Residential Urban Multiple Family District (RU-2)
388	3-11-91	16.[85]	Rezones premises to Light Industry District (M-1)
391	5-28-91	[16.86]	Rezones premises from RU-1 to C-2

Ord. No.	Date	Section	Description
392	6-10-91	16.[87]	Rezones premises to Commercial Local District (C-1)
393	2-10-92	16.[88]	Rezones premises to Commercial Local District (C-1)
394	4-27-92	16.[89]	Rezones premises to Commercial Local District (C-1)
397	10-26-92	16.[90]	Rezones premises to Residential Urban Multiple Family District (RU-2)
401	6-28-93	16.[91]	Rezones premises to Residential Urban District (RU-1)
404	11-22-93	16.[92]	Rezones premises to Commercial Local District (C-1)
405	11-22-93	16.[93]	Rezones premises to General Commercial District (C-2)
408	4-11-94	16.[94]	Rezones premises to Commercial Local District (C-2)
411	7-11-94	16.[95]	Rezones premises to Light Manufacturing District (M-1)
412	8- 8-94	16.[96]	Rezones premises to General Commercial District (C-2)
413	11-14-94	16.[97]	Rezones premises to Commercial General District (C-2)

Ord. No.	Date	Section	Description
415	6-12-95	16.[98]	Rezones premises to Commercial General District (C-2)
418	1-22-96	16.[99]	Rezones premises to Elderly Housing District (EH)
419	5-28-96	16.[100]	Rezones premises to Residential Urban Multiple Family District (RU-2)
423	6-22-96	16.[101]	Rezones premises to Residential Urban District (RU-1)
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		16.[104]	Rezones premises to Residential Urban District (RU-1)
424	7- 8-96	16.[105]	Rezones premises to Residential Urban Multiple Family District (RU-2)
428	10-15-96	16.[107]	Rezones premises to Commercial General District (C-2)
430	12- 9-96	16.[108]	Rezones premises to Elderly Housing District (EH)
431	4-28-97	16.[109]	Rezones premises to Light Industrial District (M-1)

[The next page is 233]

185.2000

APPENDIX
(RESERVED)*

*Editor's note— The appendix to the zoning ordinance, relative to the creation of specific transitional conditional uses, has not been printed herein, but may be found on file in the office of the Township Clerk.

[The next page is 283]

Section

Z

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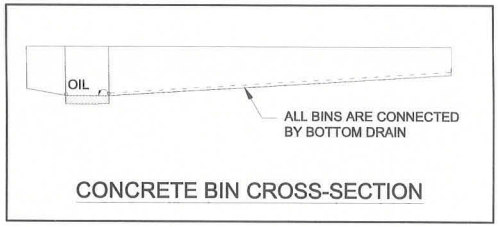
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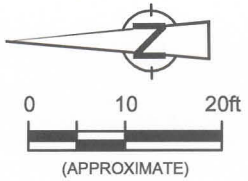
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ATTACHMENT B

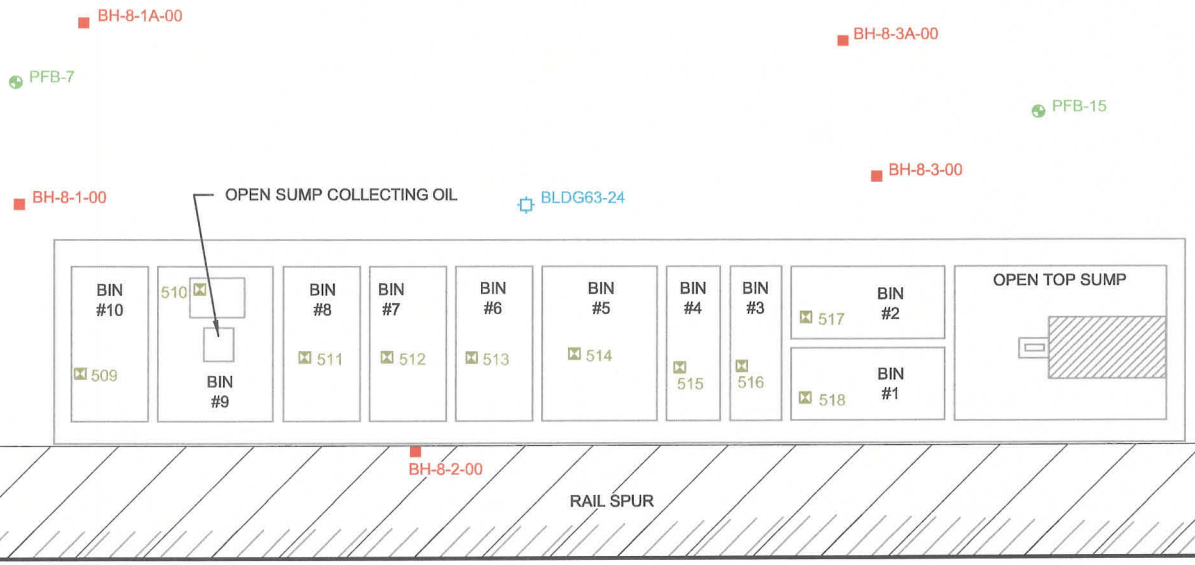
RESPONSE TO COMMENT NO. 3

SECTION 4.3.2 - FORMER SCRAP METAL STORAGE AREA INVESTIGATION (AOI 8)





BUILDING #63



LEGEND

511	COMPOSITE SAMPLE FROM CONCRETE BIN
BH-8-1A-00	RFI BOREHOLE LOCATION
PFB-7	STUDY 4 SOIL BORING LOCATION
BLDG63-24	STUDY 2 GEOPROBE LOCATION

figure D.1

AOI 8 - FORMER SCRAP METAL STORAGE AREA
CONCRETE BIN SAMPLE LOCATIONS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY

Genesee Township, Michigan

12636-40(HOLD003)GN-WA005 MAR 07/2002



PHOTO 1 - MAY 18, 2000
BUILDING 63 - CONCRETE BINS PRIOR TO BREAKING



PHOTO 2 - SEPTEMBER, 2000
BUILDING 63 - COMPACTOR AREA AFTER REMOVAL OF COMPACTOR

figure D.2

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



PHOTO 3 - SEPTEMBER, 2000
BUILDING 63 - BIN

figure D.3

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

TABLE D.1

WASTE CHARACTERIZATION ANALYTICAL RESULTS
AOI 8 - FORMER SCRAP METAL STORAGE AREA CONCRETE BINS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		S-12636-082200-CK-509	S-12636-082200-CK-510	S-12636-082200-CK-511	S-12636-082200-CK-512
Sample Date:		08/22/00	08/22/00	08/22/00	08/22/00
Concrete Bin#:		10	9	8	7
Parameter:	*Regulatory Limit*				
Physical Properties Analysis (%)					
Total Solids		**94.1**	**95.8**	**89.8**	**90.4**
GC SVOCs (ug/kg)					
Aroclor-1016	9900	ND(180) D	ND(170) D	ND(110)	ND(110)
Aroclor-1221	9900	ND(180) D	ND(170) D	ND(110)	ND(110)
Aroclor-1232	9900	ND(180) D	ND(170) D	ND(110)	ND(110)
Aroclor-1242	9900	ND(180) D	ND(170) D	ND(110)	ND(110)
Aroclor-1248	9900	ND(180) D	**2000 D**	ND(110)	ND(110)
Aroclor-1254	9900	**2300 D**	**3200 D**	ND(110)	ND(110)
Aroclor-1260	9900	**770 D**	**1100 D**	**120**	ND(110)
TCLP Metal Analysis (mg/L)					
Arsenic	5	**0.019**	**0.035**	ND(0.011)	ND(0.011)
Barium	100	**0.36**	**0.91**	**0.57**	**0.71**
Cadmium	1	**0.20**	**0.11**	**0.017**	ND(0.0022)
Chromium	5	**1.9**	**9.2**	**0.033**	ND(0.022)
Lead	5	**1.6**	**8.3**	**0.097**	ND(0.022)
Mercury	0.2	**0.0011**	**0.0014**	ND(0.0002)	ND(0.0002)
Selenium	1	**0.059**	**0.097**	ND(0.045)	ND(0.044)
Silver	5	ND(0.0043)	ND(0.0042)	ND(0.0045)	ND(0.0044)
TCLP VOCs (mg/L)					
1,1-Dichloroethylene	0.7	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
1,2-Dichloroethane	0.5	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
1,4-Dichlorobenzene	7.5	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
2-Butanone	200	**1.1 D**	ND(0.10)	ND(0.11)	ND(0.11)
Benzene	0.5	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Carbon tetrachloride	0.5	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Chlorobenzene	100	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Chloroform	6	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Tetrachloroethene	0.7	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Trichloroethene	0.5	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
Vinyl chloride	0.2	ND(0.021) D	ND(0.010)	ND(0.011)	ND(0.011)
TCLP SVOCs (mg/L)					
2,4,5-Trichlorophenol	400	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
2,4,6-Trichlorophenol	2	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
2,4-Dinitrotoluene	0.13	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
2-Methylphenol	200	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
3&4-Methylphenol	200	ND(0.11) D,M	ND(0.10) D,M	**0.026**	ND(0.022)
Hexachlorobenzene	0.13	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
Hexachlorobutadiene	0.5	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
Hexachloroethane	3	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
Nitrobenzene	2	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
Pentachlorophenol	100	ND(0.053) D,M	ND(0.052) D,M	ND(0.011)	ND(0.011)
Pyridine	5	ND(0.11) D,M	ND(0.10) D,M	ND(0.022)	ND(0.022)

Notes:

Bold Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)

ND Not Detected

D Dilution

M Matrix Interference

J Estimated Result

TABLE D.1

WASTE CHARACTERIZATION ANALYTICAL RESULTS
AOI 8 - FORMER SCRAP METAL STORAGE AREA CONCRETE BINS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		S-12636-082200-CK-513	S-12636-082200-CK-514	S-12636-082200-CK-515	S-12636-082200-CK-516
Sample Date:		08/22/00	08/22/00	08/22/00	08/22/00
Concrete Bin#:		6	5	4	3
Parameter:	*Regulatory Limit*				
Physical Properties Analysis (%)					
Total Solids		**94.6**	**93.1**	**93.3**	**79.7**
GC SVOCs (ug/kg)					
Aroclor-1016	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1221	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1232	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1242	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1248	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1254	9900	ND(35)	ND(36)	ND(36)	ND(42)
Aroclor-1260	9900	ND(35)	ND(36)	ND(36)	ND(42)
TCLP Metal Analysis (mg/L)					
Arsenic	5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Barium	100	**0.47**	**0.25**	**0.45**	**0.55**
Cadmium	1	ND(0.0021)	ND(0.0021)	ND(0.0021)	ND(0.0025)
Chromium	5	ND(0.021)	ND(0.021)	ND(0.021)	ND(0.025)
Lead	5	ND(0.021)	ND(0.021)	ND(0.021)	**0.032**
Mercury	0.2	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Selenium	1	ND(0.042)	ND(0.043)	ND(0.043)	ND(0.050)
Silver	5	ND(0.0042)	ND(0.0043)	ND(0.0043)	ND(0.0050)
TCLP VOCs (mg/L)					
1,1-Dichloroethylene	0.7	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
1,2-Dichloroethane	0.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
1,4-Dichlorobenzene	7.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
2-Butanone	200	ND(0.11)	ND(0.11)	ND(0.11)	ND(0.13)
Benzene	0.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Carbon tetrachloride	0.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Chlorobenzene	100	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Chloroform	6	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Tetrachloroethene	0.7	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Trichloroethene	0.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Vinyl chloride	0.2	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
TCLP SVOCs (mg/L)					
2,4,5-Trichlorophenol	400	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
2,4,6-Trichlorophenol	2	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
2,4-Dinitrotoluene	0.13	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
2-Methylphenol	200	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
3&4-Methylphenol	200	ND(0.021)	ND(0.021)	ND(0.021)	ND(0.025)
Hexachlorobenzene	0.13	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Hexachlorobutadiene	0.5	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Hexachloroethane	3	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Nitrobenzene	2	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Pentachlorophenol	100	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.013)
Pyridine	5	ND(0.021)	ND(0.021)	ND(0.021)	ND(0.025)

Notes:

_____	Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)
ND	Not Detected
D	Dilution
M	Matrix Interference
J	Estimated Result

TABLE D.1

WASTE CHARACTERIZATION ANALYTICAL RESULTS
AOI 8 - FORMER SCRAP METAL STORAGE AREA CONCRETE BINS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		S-12636-082200-CK-517	S-12636-082200-CK-518
Sample Date:		08/22/00	08/22/00
Concrete Bin#:		2	1
	Regulatory Limit		
Parameter:			
Physical Properties Analysis (%)			
Total Solids		**96.4**	**97.1**
GC SVOCs (ug/kg)			
Aroclor-1016	9900	ND(35)	ND(34)
Aroclor-1221	9900	ND(35)	ND(34)
Aroclor-1232	9900	ND(35)	ND(34)
Aroclor-1242	9900	ND(35)	ND(34)
Aroclor-1248	9900	ND(35)	ND(34)
Aroclor-1254	9900	ND(35)	ND(34)
Aroclor-1260	9900	ND(35)	ND(34)
TCLP Metal Analysis (mg/L)			
Arsenic	5	ND(0.010)	ND(0.010)
Barium	100	**0.60**	**1.0**
Cadmium	1	ND(0.0021)	ND(0.0021)
Chromium	5	**0.023**	**0.027**
Lead	5	ND(0.021)	ND(0.021)
Mercury	0.2	ND(0.0002)	ND(0.0002)
Selenium	1	ND(0.041)	ND(0.041)
Silver	5	ND(0.0041)	ND(0.0041)
TCLP VOCs (mg/L)			
1,1-Dichloroethylene	0.7	ND(0.010)	ND(0.010)
1,2-Dichloroethane	0.5	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	7.5	ND(0.010)	ND(0.010)
2-Butanone	200	ND(0.10)	ND(0.10)
Benzene	0.5	ND(0.010)	ND(0.010)
Carbon tetrachloride	0.5	ND(0.010)	ND(0.010)
Chlorobenzene	100	ND(0.010)	ND(0.010)
Chloroform	6	ND(0.010)	ND(0.010)
Tetrachloroethene	0.7	ND(0.010)	ND(0.010)
Trichloroethene	0.5	ND(0.010)	ND(0.010)
Vinyl chloride	0.2	ND(0.010)	ND(0.010)
TCLP SVOCs (mg/L)			
2,4,5-Trichlorophenol	400	ND(0.010)	ND(0.051) D,M
2,4,6-Trichlorophenol	2	ND(0.010)	ND(0.051) D,M
2,4-Dinitrotoluene	0.13	ND(0.010)	ND(0.051) D,M
2-Methylphenol	200	ND(0.010)	ND(0.051) D,M
3&4-Methylphenol	200	ND(0.021)	ND(0.10) D,M
Hexachlorobenzene	0.13	ND(0.010)	ND(0.051) D,M
Hexachlorobutadiene	0.5	ND(0.010)	ND(0.051) D,M
Hexachloroethane	3	ND(0.010)	ND(0.051) D,M
Nitrobenzene	2	ND(0.010)	ND(0.051) D,M
Pentachlorophenol	100	ND(0.010)	ND(0.051) D,M
Pyridine	5	ND(0.021)	ND(0.10) D,M

Notes:

_____	Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)
ND	Not Detected
D	Dilution
M	Matrix Interference
J	Estimated Result

ATTACHMENT C

RESPONSE TO COMMENT NO. 4
SECTION 4.3.3 - FORMER CHROME PLATING AREA INVESTIGATION (AOI 9)

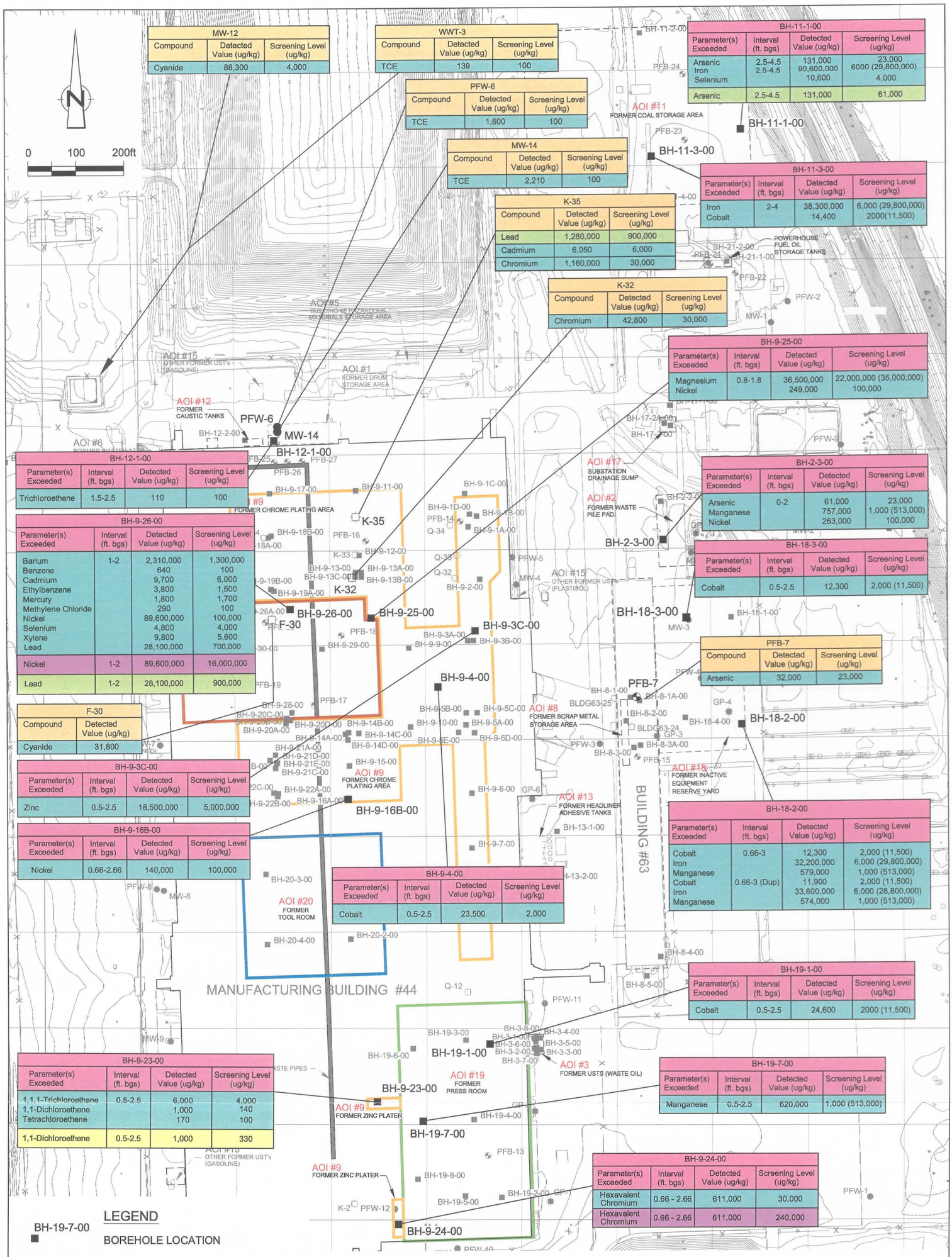


figure 5.14

HISTORICAL AND RFI EXCEEDANCES OF GENERIC INDUSTRIAL SOIL SCREENING LEVELS FORMER PEREGRINE (US) INC., COLDWATER ROAD FACILITY

Genesee Township, Michigan

12636-40(HOLD003)GN-WA003 MAR 07/2002

ATTACHMENT D

RESPONSE TO COMMENT NO. 5
SECTION 4.3.10 - FORMER PRESS ROOM INVESTIGATION (AOI 19)

CONESTOGA-ROVERS & ASSOCIATES

11100 Metro Airport Center Drive, Suite #160
Romulus, Michigan 48174
Telephone: (734) 942-0909 Fax: (734) 942-1858
www.CRAworld.com

MEMORANDUM

TO: Cheryl Hiatt

REF. NO.: 12636-23

FROM: Christopher Kaminski/lr/76/Det

DATE: September 19,2000

C.C.: Fred Blickle, Glenn Turchan, Bob Schloesser

RE: Sampling and Analysis Plan for Pits, Sumps, and Trench Systems in Building 44.
Former Peregrine Coldwater Road Plant
Genesee Township, Michigan

A total of 19 areas of new concrete were identified in Building 44. Thirteen of the nineteen areas were determined to be a pit or sump. The other areas contained "new" concrete above fill material. In these other areas, native clay was found at approximately 4 feet beneath the fill in all cases with sludge or waste not encountered.

On September 1, 2000, it was decided that the pit materials should be characterized. This Sampling and Analysis Plan was developed to minimize sample numbers by compositing several samples from pits that were connected by overhead pipes and trench systems, and contained like waste/sludge. Analytical methods selected for characterization were based on historical knowledge and waste produced in the area.

Pit Dimensions are as follows:

Sampled Pit Numbers	Pit Dimensions (L*W*H)
#1	8′ by 6′ by 6′
#2	10′ by 10′ by 4′
#4	5′ by 5′ by 14′
#6	8′ by 4′ by 2′
#7	12′ by 6′ by 6′
#8	12′ by 6′ by 10′
#9	5′ by 50′ by 8 ′
#10	15′ by 8 ′ by 10′
#11	6′ by 6′ by 6′
#12	8′ by 10′ by 12′
#14	10′ by 14′ by 14′

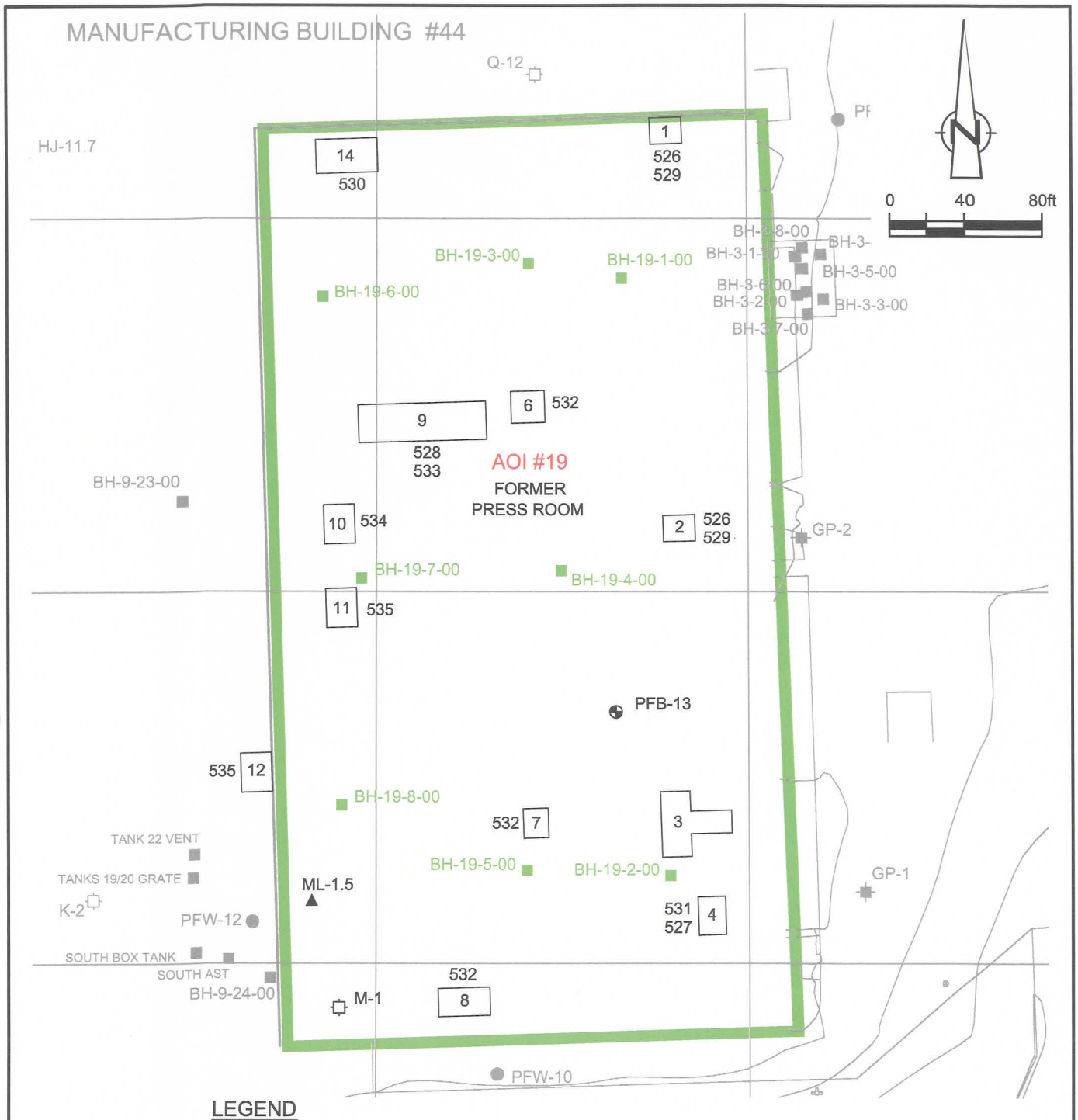
REGISTERED COMPANY
ISO 9001
ENGINEERING DESIGN

The following sampling scheme was used:

Sample Identification	Pit Location	Matrix	Parameters	TAT[1]
L-12636-091100-SM-526	#1, #2	Oil	PCBs	72 hr
L-12636-091100-SM-527	#4	Oil	PCBs	72 hr
L-12636-091100-SM-528	#9	Oil	PCBs	72 hr
S-12636-091200-SM-529	#1, #2	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"
S-12636-091200-SM-530	#14	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"
S-12636-091300-SM-531	#4	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	
			PCBs	"
S-12636-091300-SM-532	#6, #7, #8	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"
S-12636-091300-SM-533	#9	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"
S-12636-091300-SM-534	#10	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"
S-12636-091300-SM-535	#11, #12	Sludge	TCLP SVOCs	2 weeks
			TCLP VOCs	"
			TCLP METALS	"
			PCBs	"

Sample and pit locations are shown on the attached figure. If you have any questions please contact Fred Blickle or Bob Schloesser.

[1] TAT = Turnaround Time



LEGEND

BH-19-7-00	RFI BOREHOLE LOCATION
PFB-13	STUDY 4 SOIL BORING LOCATION
M-1	STUDY 2 GEOPROBE LOCATION
ML-1.5	WOOD BLOCK SAMPLE LOCATION
532	SAMPLING LOCATION
1	SUMP OR PIT

figure E.1

AOI 19 - FORMER PRESS ROOM SUMP SAMPLE LOCATIONS

FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY

Genesee Township, Michigan



PHOTO 1 - OCTOBER 17, 2000
BUILDING 44 - PRESS ROOM PIT # 1 AFTER CLEANING AND FRACTURING

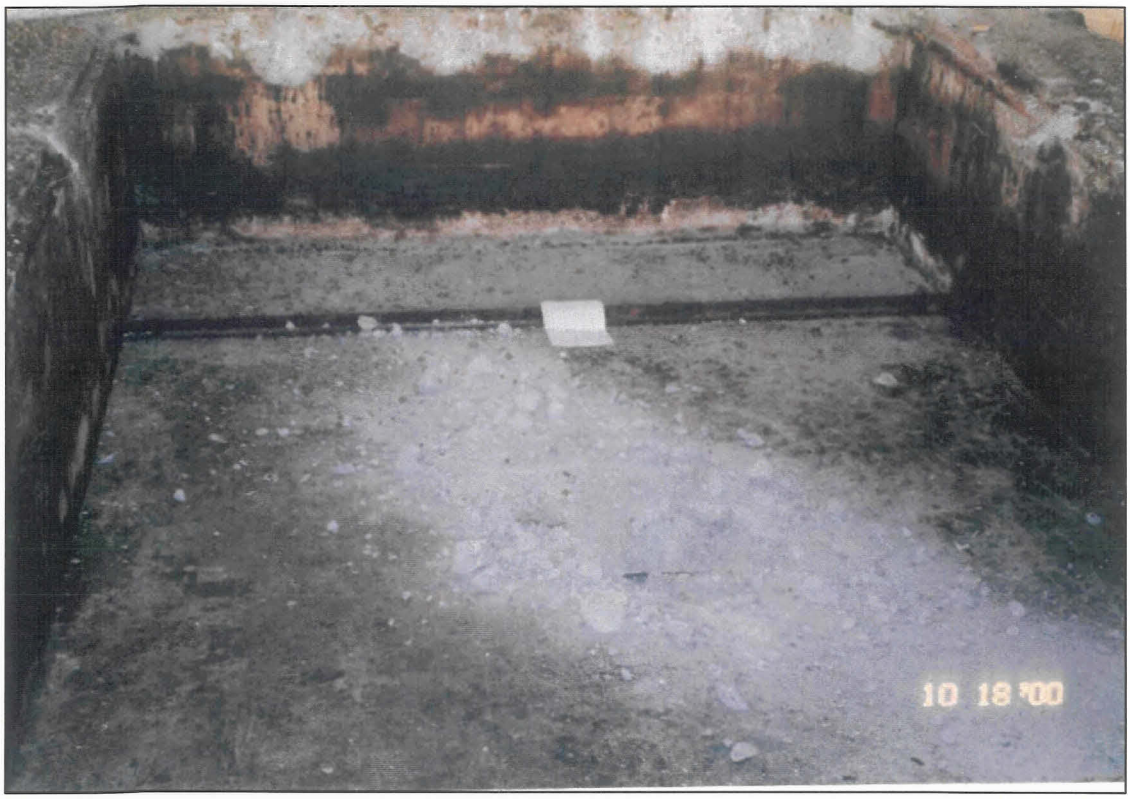


PHOTO 2 - OCTOBER 18, 2000
BUILDING 44 - PRESS ROOM PIT # 2 AFTER CLEANING AND FRACTURING

figure E.2

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



PHOTO 3 - OCTOBER 19, 2000
BUILDING 44 - CLEANED TRENCH SOUTH OF PIT #3 AND PILES OF PEASTONE REMOVED FROM PIT #3



PHOTO 4 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT # 3 AFTER CLEANING AND FRACTURING

figure E.3

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

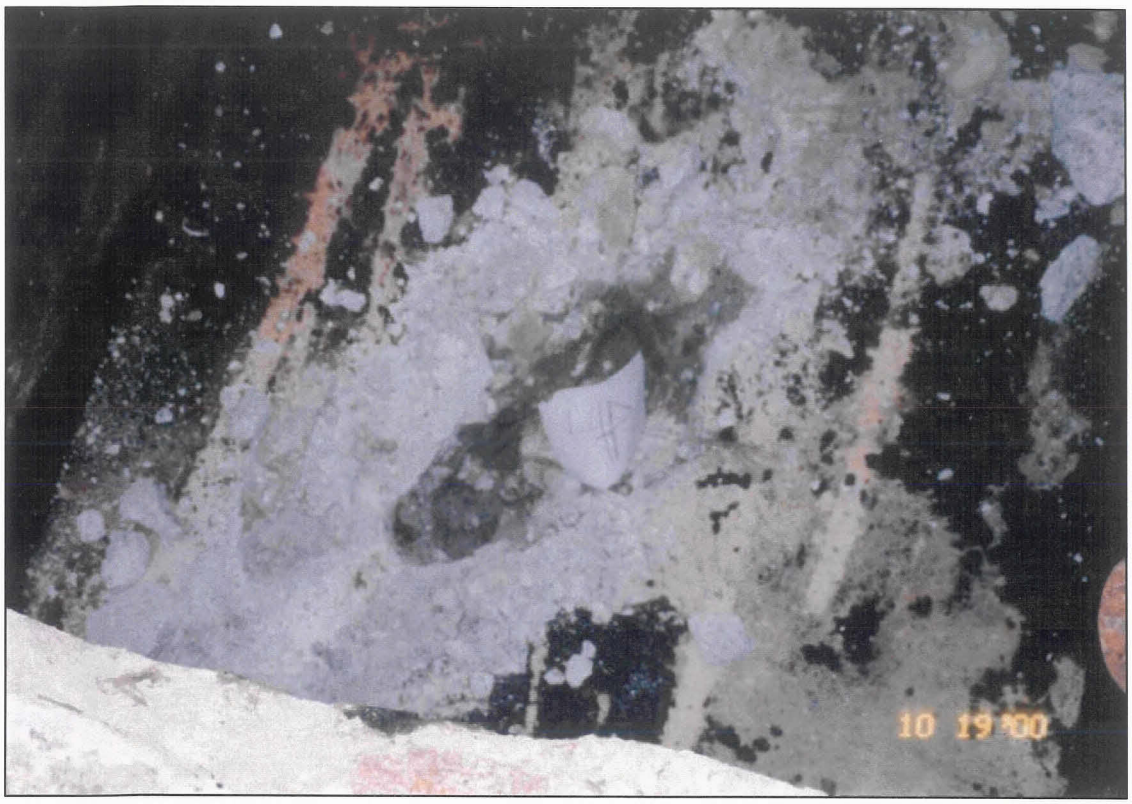


PHOTO 5 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT #4 AFTER CLEANING AND FRACTURING



PHOTO 6 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT # 7 AFTER CLEANING AND FRACTURING

figure E.4

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



PHOTO 7 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT #7 AFTER CLEANING AND FRACTURING(REMOVAL OF STEEL PLATE)



PHOTO 8 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT # 8 AFTER CLEANING AND FRACTURING

figure E.5

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



PHOTO 9 - OCTOBER 17, 2000
BUILDING 44 - PRESS ROOM PIT #9 AFTER CLEANING AND FRACTURING



PHOTO 10 - OCTOBER 17, 2000
BUILDING 44 - PRESS ROOM PIT # 9 AFTER CLEANING AND FRACTURING

figure E.6

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



PHOTO 11 - OCTOBER 19, 2000
BUILDING 44 - PRESS ROOM PIT # 12 AFTER CLEANING AND FRACTURING

figure E.7

PHOTOGRAPHIC LOG
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

TABLE E.1

WASTE ANALYTICAL RESULTS
AOI 19 - FORMER PRESS ROOM SUMPS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		L-12636-091100-SM-526	L-12636-091100-SM-527	L-12636-091100-SM-528	S-12636-091200-SM-529
Sample Date:		09/11/00	09/11/00	09/11/00	09/12/00
Pit/Sump#:		1	4	9	2
	Regulatory Limit				
Parameter:					
Physical Properties Analysis (%)					
Total Solids		-	-	-	86.2
GC SVOCs (ug/kg)					
Aroclor-1016	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1221	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1232	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1242	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1248	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1254	9900	ND(990)	ND(980)	ND(970)	ND(230)
Aroclor-1260	9900	ND(990)	ND(980)	ND(970)	ND(230)
TCLP Metal Analysis (mg/L)					
Arsenic	5	-	-	-	**0.012**
Barium	100	-	-	-	**1.9**
Cadmium	1	-	-	-	ND(0.0023)
Chromium	5	-	-	-	**0.023**
Lead	5	-	-	-	ND(0.023)
Mercury	0.2	-	-	-	ND(0.0002)
Selenium	1	-	-	-	ND(0.046)
Silver	5	-	-	-	**0.0058**
TCLP VOCs (mg/L)					
1,1-Dichloroethylene	0.7	-	-	-	ND(0.012)
1,2-Dichloroethane	0.5	-	-	-	ND(0.012)
1,4-Dichlorobenzene	7.5	-	-	-	ND(0.012)
2-Butanone	200	-	-	-	ND(0.12)
Benzene	0.5	-	-	-	ND(0.012)
Carbon tetrachloride	0.5	-	-	-	ND(0.012)
Chlorobenzene	100	-	-	-	ND(0.012)
Chloroform	6	-	-	-	ND(0.012)
Tetrachloroethene	0.7	-	-	-	ND(0.012)
Trichloroethene	0.5	-	-	-	ND(0.012)
Vinyl chloride	0.2	-	-	-	ND(0.012)
TCLP SVOCs (mg/L)					
2,4,5-Trichlorophenol	400	-	-	-	ND(1.5) D,M
2,4,6-Trichlorophenol	2	-	-	-	ND(1.5) D,M
2,4-Dinetotuluene	0.13	-	-	-	ND(1.5) D,M
2-Methylphenol	200	-	-	-	ND(1.5) D,M
3&4-Melylphenol	200	-	-	-	ND(2.9) D,M
Hexachlorobenzene	0.13	-	-	-	ND(1.5) D,M
Hexachlorobutadiene	0.5	-	-	-	ND(1.5) D,M
Hexachloroethane	3	-	-	-	ND(1.5) D,M
Nitrobenzene	2	-	-	-	ND(1.5) D,M
Pentachlorophenol	100	-	-	-	ND(1.5) D,M
Pyridine	5	-	-	-	ND(2.9) D,M

Notes:

Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)

ND Not Detected
D Dilution
M Matrix Interference
J Estimated Result

TABLE E.1

WASTE ANALYTICAL RESULTS
AOI 19 - FORMER PRESS ROOM SUMPS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		S-12636-091200-SM-530	S-12636-091300-SM-531	S-12636-091300-SM-532	S-12636-091300-SM-533
Sample Date:		09/12/00	09/13/00	09/13/00	09/13/00
Pit/Sump#:		14	4	7	9
Parameter:	*Regulatory Limit*				
Physical Properties Analysis (%)					
Total Solids		84.6	89.8	85.3	66.6
GC SVOCs (ug/kg)					
Aroclor-1016	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1221	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1232	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1242	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1248	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1254	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
Aroclor-1260	9900	ND(5900) D,M	ND(1100)	ND(1200)	ND(1500)
TCLP Metal Analysis (mg/L)					
Arsenic	5	ND(0.012)	ND(0.010)	ND(0.010)	0.013
Barium	100	**0.72**	**0.36**	**0.97**	**4.4**
Cadmium	1	ND(0.0024)	ND(0.0020)	ND(0.0020)	0.0022
Chromium	5	ND(0.024)	ND(0.020)	ND(0.020)	ND(0.020)
Lead	5	ND(0.024)	**0.021**	**0.027**	ND(0.020)
Mercury	0.2	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Selenium	1	ND(0.047)	ND(0.040)	ND(0.040)	ND(0.040)
Silver	5	ND(0.0047)	**0.0044 J,M**	ND(0.0040)	ND(0.0040)
TCLP VOCs (mg/L)					
1,1-Dichloroethylene	0.7	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethane	0.5	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	7.5	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
2-Butanone	200	ND(0.12)	ND(0.10)	ND(0.10)	ND(0.10)
Benzene	0.5	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon tetrachloride	0.5	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	100	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Chloroform	6	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Tetrachloroethene	0.7	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	0.5	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl chloride	0.2	ND(0.012)	ND(0.010)	ND(0.010)	ND(0.010)
TCLP SVOCs (mg/L)					
2,4,5-Trichlorophenol	400	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
2,4,6-Trichlorophenol	2	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
2,4-Dinetotuluene	0.13	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
2-Methylphenol	200	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
3&4-Mehylphenol	200	ND(0.024) D,M	ND(0.20) D,M	ND(2.5) D,M	**0.051**
Hexachlorobenzene	0.13	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
Hexachlorobutadiene	0.5	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
Hexachloroethane	3	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
Nitrobenzene	2	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
Pentachlorophenol	100	ND(0.012) D,M	ND(0.10) D,M	ND(1.3) D,M	ND(0.010) D,M
Pyridine	5	ND(0.024) D,M	ND(0.20) D,M	ND(2.5) D,M	ND(0.020) D,M

Notes:

____ Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)

ND Not Detected
D Dilution
M Matrix Interference
J Estimated Result

TABLE E.1

WASTE ANALYTICAL RESULTS
AOI 19 - FORMER PRESS ROOM SUMPS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID:		S-12636-091300-SM-534	S-12636-091300-SM-535
Sample Date:		09/13/00	09/13/00
Pit/Sump#:		10	11
	Regulatory Limit		
Parameter:			
Physical Properties Analysis (%)			
Total Solids		80	75.8
GC SVOCs (ug/kg)			
Aroclor-1016	9900	ND(250)	ND(1300)
Aroclor-1221	9900	ND(250)	ND(1300)
Aroclor-1232	9900	ND(250)	ND(1300)
Aroclor-1242	9900	ND(250)	ND(1300)
Aroclor-1248	9900	ND(250)	ND(1300)
Aroclor-1254	9900	ND(250)	ND(1300)
Aroclor-1260	9900	ND(250)	ND(1300)
TCLP Metal Analysis (mg/L)			
Arsenic	5	ND(0.010)	ND(0.010)
Barium	100	**0.29**	**0.54**
Cadmium	1	ND(0.0020)	0.0020
Chromium	5	ND(0.020)	ND(0.020)
Lead	5	ND(0.020)	ND(0.020)
Mercury	0.2	ND(0.0002)	ND(0.0002)
Selenium	1	ND(0.040)	ND(0.040)
Silver	5	ND(0.0040)	ND(0.0040)
TCLP VOCs (mg/L)			
1,1-Dichloroethylene	0.7	ND(0.010)	ND(0.010)
1,2-Dichloroethane	0.5	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	7.5	ND(0.010)	ND(0.010)
2-Butanone	200	ND(0.10)	ND(0.10)
Benzene	0.5	ND(0.010)	ND(0.010)
Carbon tetrachloride	0.5	ND(0.010)	ND(0.010)
Chlorobenzene	100	ND(0.010)	ND(0.010)
Chloroform	6	ND(0.010)	ND(0.010)
Tetrachloroethene	0.7	ND(0.010)	ND(0.010)
Trichloroethene	0.5	ND(0.010)	ND(0.010)
Vinyl chloride	0.2	ND(0.010)	ND(0.010)
TCLP SVOCs (mg/L)			
2,4,5-Trichlorophenol	400	ND(0.10) D,M	ND(0.10) D,M
2,4,6-Trichlorophenol	2	ND(0.10) D,M	ND(0.10) D,M
2,4-Dinetotuluene	0.13	ND(0.10) D,M	ND(0.10) D,M
2-Methylphenol	200	ND(0.10) D,M	ND(0.10) D,M
3&4-Mehylphenol	200	ND(0.20) D,M	ND(0.20) D,M
Hexachlorobenzene	0.13	ND(0.10) D,M	ND(0.10) D,M
Hexachlorobutadiene	0.5	ND(0.10) D,M	ND(0.10) D,M
Hexachloroethane	3	ND(0.10) D,M	ND(0.10) D,M
Nitrobenzene	2	ND(0.10) D,M	ND(0.10) D,M
Pentachlorophenol	100	ND(0.10) D,M	ND(0.10) D,M
Pyridine	5	ND(0.20) D,M	ND(0.20) D,M

Notes:

———	Exceeds Regulatory Limit for Hazardous Waste Determination - Resource Conservation and Recovery Act (RCRA) (40 CFR 261.21-24)
ND	Not Detected
D	Dilution
M	Matrix Interference
J	Estimated Result

TABLE F.1

DOMESTIC WELL SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Well ID Number	Location	Total Depth (ft)	Overburden Thickness (ft)	Clay Aquitard (1) Thickness (ft)	Static Water Level (ft)	Screened Interval	Screened Unit	Screened Interval Protected/Confined (Y/N)
1	1038 Agnes St	219	148	145	120	149 - 219	sandstone/limestone	Y
2	1049 Agnes St	262	160	35/95	90	170 - 262	shale/sandstone/limestone	Y
3	1067 Agnes St	300	160	100/44	80	170 - 300	slate/sandstone/limestone	Y
4	1068 Agnes St	300	169	169	90	179 - 300	sandstone/limestone	Y
5	1090 Angola Ave	200	135	98/17	70	151 - 200	shale/sandstone	Y
6	1101 Angola Ave	240	128	97/22	84	149 - 240	shale/sandstone	Y
7	1102 Angola Ave	240	135	34/58/28	85	149 - 240	shale/sandstone	Y
8	1110 Angola Ave	220	159	159	84	165 - 220	shale/sandstone/limestone	Y
9	1129 Angola Ave	300	122	97/14	94	153 - 300	shale/sandstone	Y
10	1038 Bethany St	300	140	18/105	106	145 - 300	shale/sandstone/limestone	Y
11	1050 Bethany St	210	148	48/46/38	79	153 - 210	shale/sandstone	Y
12	5373 Bray Road	160	139	25/99	25	144 - 160	sandstone/limestone	Y
13	5385 Bray Road	180	136	17/92/3	35	143 - 180	sandstone/limestone	Y
14	6139 Bray Road	29	29	14	10	26 - 29	gravel	Y
15	6497 Bray Road	182	145	60/60	30	155 - 182	sandstone/limestone	Y
16	Coldwater + Dort Hwy	200	118	95	40	147 - 200	sandstone/limestone	Y
17	2117 E Coldwater Rd	220	156	156	60	163 - 220	shale/sandstone/limestone	Y
18	2126 E Coldwater Rd	222	147	15/92	45	147 - 222	sandstone	Y
19	2127 E Coldwater Rd	223	144	29/103	55	160 - 223	shale/sandstone	Y
20	2134 E Coldwater Rd	220	130	130	65	160 - 220	shale/sandstone	Y
21	2135 E Coldwater Rd	200	154	135	90	162 - 200	sandstone/limestone	Y
22	2153 E Coldwater Rd	202	140	110	50	147 - 202	sandstone/limestone	Y
23	2182 E Coldwater Rd	226	128	128	85	147 - 226	shale/sandstone/limestone	Y
24	2184 E Coldwater Rd	224	104	83	46	117 - 224	shale/sandstone/limestone	Y
25	2264 E Coldwater Rd	200	118	22/91	N/A	117 - 200	sandstone/limestone	Y
26	2343 E Coldwater Rd	200	135	23/102	50	143 - 200	sandstone/limestone	Y
27	2363 E Coldwater Rd	155	146	25/114	30	147 - 155	limestone	Y
28	2369 E Coldwater Rd	180	137	137	73	141 - 180	sandstone/limestone	Y
29	1020 Collins Ave	268	137	26/95	89	147 -268	shale/sandstone	Y
30	1033 Collins Ave	240	130	130	95	155 - 240	shale/sandstone/limestone	Y
31	1037 Collins Ave	220	130	75/30	85	147 - 220	shale/sandstone/limestone	Y
32	1045 Collins Ave	236	136	136	90	160 - 236	slate/shale/sandstone/limestone	Y
33	1055 Collins Ave	240	158	44/96	65	174 - 240	shale/sandstone	Y
34	1071 Collins Ave	233	130	122	68	155 - 233	shale/sandstone	y
35	1023 W Costello Ave	245	157	30/106	N/A	169 - 245	shale/sandstone/limestone	Y
36	1038 W Costello Ave	260	150	105	85	154 - 260	sandstone/limestone	Y
37	1057 E Costello Ave	268	140	34/25/23	100	160 - 268	shale/sandstone/limestone	Y
38	1063 E Costello Ave	260	157	42/85	95	160 - 260	shale/sandstone/limestone	Y
39	1089 E Costello Ave	262	207	70/65	90	207 - 262	sandstone/limestone	Y
40	1071 Dorothy St	230	152	152	85	160 - 230	shale/sandstone	Y
41	1080 Dorothy St	265	158	158	100	179 - 265	shale/sandstone/limestone	Y
42	1092 Dorothy St	300	185	185	106	200 - 300	shale/sandstone/limestone	Y
43	1104 Dorothy St	300	185	65/85	100	192 - 300	shale/sandstone	Y
44	1130 Dorothy St	280	210	175	100	218 - 280	sandstone	Y
45	East Stanley + North Dort Hwy	302	187	42/129	64	238 - 302	shale/sandstone	Y
46	5021 North Dort Hwy	190	90	N/A	32	90 - 190	N/A	Y
47	5150 North Dort Hwy	161	116	15/54	45	117 - 161	shale/sandstone	Y
48	5158 North Dort Hwy	264	108	108	70	152 - 264	slate/sandstone/limestone	Y
49	5172 North Dort Hwy	170	91	78	45	109 - 170	shale/sandstone	Y
50	5182 North Dort Hwy	170	92	25/62	50	109 - 170	shale/sandstone	Y
51	5199 North Dort Hwy	172	97	18/40	50	113 - 172	shale/sandstone	Y
52	5220 North Dort Hwy	200	128	128	60	155 - 200	shale/sandstone	Y
53	5252 North Dort Hwy	200	112	110	80	150 - 200	shale/sandstone	Y
54	5300 North Dort Hwy	222	110	30/65	48	115 - 222	shale/limestone	Y
55	5320 North Dort Hwy	220	118	26/82	50	136 - 220	shale/sandstone/limestone	Y
56	5420 North Dort Hwy	220	138	48/50	50	146 - 220	sandstone/limestone	Y
57	5432 North Dort Hwy	240	139	25/101	78	149 - 240	shale/sandstone/limestone	Y
58	5452 North Dort Hwy	230	140	20/40/55	70	147 - 230	sandstone/limestone	Y
59	5455 North Dort Hwy	200	141	24/97	50	153 - 200	shale/sandstone	Y
60	5469 North Dort Hwy	212	140	140	52	140 - 212	sandstone	Y
61	6129 North Dort Hwy	242	195	35/75/15	80	195 - 242	sandstone/limestone	Y
62	6136 North Dort Hwy	300	180	57/3/100	102	203 - 300	shale/sandstone	Y
63	6190 North Dort Hwy	260	197	55/112	100	203 - 260	shale/sandstone/limestone	Y
64	6203 North Dort Hwy	264	191	191	87	201 - 264	slate/sandstone/limestone	Y
65	6339 North Dort Hwy	260	165	15/142	90	175 - 260	sandstone	Y
66	6368 North Dort Hwy	327	161	161	52	174 - 327	shale/sandstone	Y
67	6369 North Dort Hwy	230	168	53/78	80	175 - 230	sandstone/limestone	Y
68	6406 North Dort Hwy	220	127	30/85	70	174 - 220	quartz/sandstone/limestone	Y
69	6409 North Dort Hwy	265	192	192	90	199 - 265	slate/sandstone/limestone	Y
70	6455 North Dort Hwy	280	168	30/94	95	178 - 280	shale/sandstone	Y
71	6476 North Dort Hwy	268	189	37/121	80	191 - 268	shale/sandstone	Y
72	6500 North Dort Hwy	225	180	30/125	60	187 - 225	sandstone	Y
73	6524 North Dort Hwy	250	190	190	110	222 - 250	shale/sandstone/limestone	Y
74	7025 North Dort Hwy	270	211	80/125	95	213 - 270	sandstone	Y
75	7040 North Dort Hwy	57	57	46	33	53 - 57	sand	Y
76	7073 North Dort Hwy	277	200	45/140	100	220 - 277	shale/sandstone/limestone	Y
77	7074 North Dort Hwy	56	56	3/34	45	52 - 56	sandy gravel	Y
78	7085 North Dort Hwy	292	223	60/133	110	225 - 292	shale/sandstone/limestone	Y
79	7138 North Dort Hwy	320	235	17/140	95	240 - 320	shale/sandstone	Y
80	7141 North Dort Hwy	280	225	38/12/159	90	139 - 280	sandstone/limestone	Y
81	7191 North Dort Hwy	300	240	240	90	251 - 300	sandstone	Y
82	7257 North Dort Hwy	342	190	80/55/20	135	252 - 342	shale/sandstone	Y
83	7260 North Dort Hwy	339	205	95/95	135	255 - 339	shale/sandstone/limestone	Y
84	7293 North Dort Hwy	114	114	8/47/46	42	110 - 114	gravel	Y
85	7351 North Dort Hwy	104	104	70	40	96 - 104	gravel	Y
86	7365 North Dort Hwy	322	270	35/55/145	90	270 - 322	shale/sandstone/limestone	Y
87	1023 Elstner St	224	160	160	87	166 - 224	sandstone/limestone	Y
88	1030 Elstner St	260	140	80/39	101	171 - 260	shale/sandstone	Y

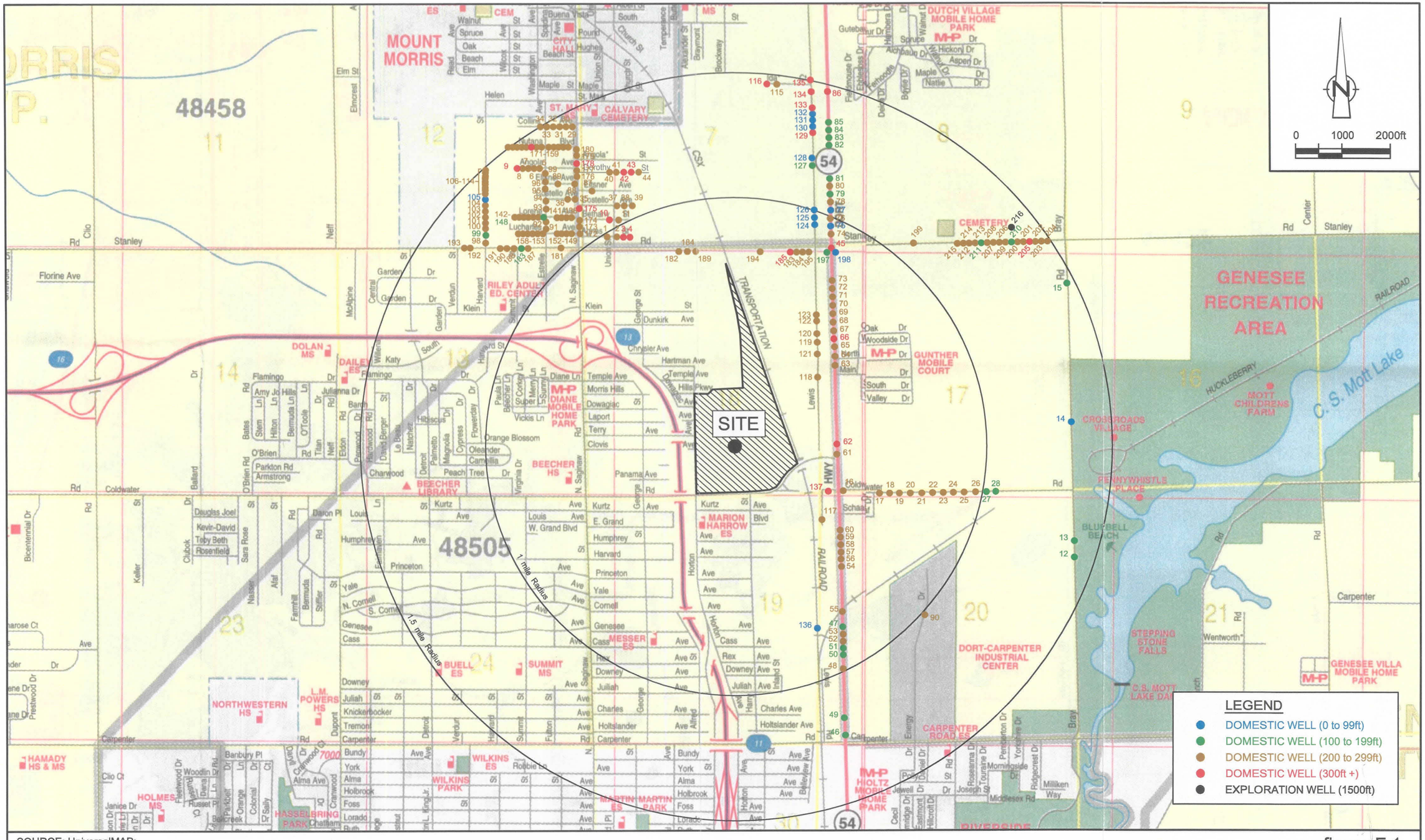
DOMESTIC WELL SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Well ID Number	Location	Total Depth (ft)	Overburden Thickness (ft)	Clay Aquitard (1) Thickness (ft)	Static Water Level (ft)	Screened Interval	Screened Unit	Screened Interval Protected/Confined (Y/N)
89	1104 Elstner St	220	122	45/32	80	135 - 220	sandstone/limestone	Y
90	5315 Energy Dr	260	102	20/43/23	55	140 - 260	shale/sandstone/limestone	Y
91	7051 Estrelle Ave	222	137	42/75	80	140 - 222	sandstone/limestone	Y
92	7065 Estrelle Ave	247	125	38/72	80	140 - 247	shale/sandstone/limestone	Y
93	7103 Estrelle Ave	200	141	18/120	90	144 - 200	sandstone/limestone	Y
94	7117 Estrelle Ave	200	139	35/35/44	82	143 - 200	shale/sandstone	Y
95	7126 Estrelle Ave	220	140	140	85	143 - 220	sandstone/limestone	Y
96	7151 Estrelle Ave	255	117	88/12	92	133 - 255	shale/sandstone	Y
97	7158 Estrelle Ave	240	131	96/20	93	154 - 240	shale/sandstone	Y
98	7041 Harvard St	217	115	42/53	78	120 - 217	shale/sandstone/limestone	Y
99	7060 Harvard St	190	98	30/48	80	125 - 190	shale/sandstone/limestone	Y
100	7061 Harvard St	240	100	25/63	55	157 - 240	shale/sandstone/limestone	Y
101	7078 Harvard St	245	108	108	78	143 - 245	slate/shale/sandstone	Y
102	7070 Harvard St	222	100	45	75	189 - 222	shale/sandstone/limestone	Y
103	7093 Harvard St	244	111	111	75	149 - 244	slate/shale/sandstone/limestone	Y
104	7094 Harvard St	200	92	13/23	80	145-200	shale/sandstone/limestone	Y
105	7098 Harvard St	96	96	18/16	21	90-96	gravel	Y
106	7128 Harvard St	236	119	42/62	82	140 - 236	shale/sandstone/limestone	Y
107	7164 Harvard St	235	137	70/47	80	140 - 235	shale/sandstone/limestone	Y
108	7177 Harvard St	240	120	40/60	80	130 - 240	shale/sandstone/limestone	Y
109	7187 Harvard St	240	120	42/68	90	134 - 240	shale/sandstone/limestone	Y
110	7189 Harvard St	232	118	50/50	83	131 - 232	shale/sandstone/limestone	Y
111	7210 Harvard St	210	175	80/50	40	160-210	clay/shale/sandstone	Y
112	7211 Harvard St	220	120	80	95	156-220	shale/sandstone/limestone	Y
113	7219 Harvard St	247	180	34/64	85	144-247	shale/sand/limestone	Y
114	7244 Harvard St	225	150	119	83	162-225	slate/shale/sandstone	Y
115	1463 Ida Ct	290	254	254	120	254 - 290	sandstone	Y
116	1473 Ida Ct	300	199	69/120	120	254 - 300	shale/sandstone	Y
117	5503 Lewis Rd	220	147	147	90	158 - 220	shale/sandstone	Y
118	6086 Lewis Rd	242	180	60/20/75	95	185 - 242	sandstone/limestone	Y
119	6270 Lewis Rd	265	181	181	108	199 - 265	shale/sandstone/limestone	Y
120	6452 Lewis Rd	260	160	40/113	90	193 - 260	shale/sandstone/limestone	Y
121	6466 Lewis Rd	262	170	40/60	70	196 - 262	shale/sandstone/limestone	Y
122	6472 Lewis Rd	260	180	180	95	190 - 260	sandstone/limestone	Y
123	6480 Lewis Rd	270	183	18/12/24/87	90	203 - 270	shale/sandstone/limestone	Y
124	7049 Lewis Rd	72	72	53	41	67 - 72	gravel	Y
125	7064 Lewis Rd	69	69	58	42	63 - 69	sand	Y
126	7065 Lewis Rd	74	74	56	43	64 - 74	sand	Y
127	7209 Lewis Rd	185	185	68/92	100	180 - 185	gravel	Y
128	7221 Lewis Rd	75	75	62	69	69 - 75	sand and gravel	Y
129	7239 Lewis Rd	340	200	170	88	235 - 340	sandstone	Y
130	7289 Lewis Rd	75	75	15	44	69 - 75	gravel	Y
131	7303 Lewis Rd	75	75	66/2	49	63 - 73	sand	Y
132	7321 Lewis Rd	60	60	47	28	55 - 60	sand and gravel	Y
133	7333 Lewis Rd	322	245	90/130	135	248 - 322	sandstone/limestone	Y
134	7359 Lewis Rd	328	N/A	N/A	125	258 - 328	sandstone/limestone	Y
135	7373 Lewis Rd	300	250	53/78	117	265 - 300	sandstone	Y
136	9468 Lewis Rd	41	41	30	15	38 - 41	sand	Y
137	Lewis Rd + Coldwater Rd	396	177	30/50/57	N/A	N/A	shale/sandstone/limestone	Y
138	1022 Lorene Ave	222	135	20/10/45	95	145 - 222	shale/sandstone/limestone	Y
139	1028 Lorene Ave	220	110	35/55	90	145 - 220	shale/sandstone/limestone	Y
140	1038 Lorene Ave	242	130	130	96	140 - 242	shale/sandstone/limestone	Y
141	1045 Lorene Ave	202	N/A	N/A	82	140 - 202	shale/sandstone/limestone	Y
142	1083 Lorene Ave	205	135	135	85	145 - 205	shale/sandstone/limestone	Y
143	1093 Lorene Ave	200	145	145	90	150 - 200	shale/sandstone	Y
144	1097 Lorene Ave	202	155	40/100	95	155 - 202	sandstone	Y
145	1106 Lorene Ave	202	158	60/88	80	158 - 202	shale/sandstone/limestone	Y
146	1111 Lorene Ave	260	105	105	40	140 - 260	sandstone/limestone	Y
147	1121 Lorene Ave	200	132	132	65	132 - 200	shale/sandstone	Y
148	1127 Lorene Ave	150	132	27/100	70	132 - 150	sandstone	Y
149	1030 Lucharles Ave	223	135	135	78	142 - 223	slate/sandstone/limestone	Y
150	1035 Lucharles Ave	200	133	49/80	82	142 - 200	slate/shale/sandstone	Y
151	1039 Lucharles Ave	218	135	25/95	91	143 - 218	shale/sandstone	Y
152	1040 Lucharles Ave	220	135	20/50/35	50	147 - 220	shale/sandstone/limestone	Y
153	1085 Lucharles Ave	240	130	10/110	60	135 - 240	shale/sandstone/limestone	Y
154	1090 Lucharles Ave	200	135	15/60/40	80	150 - 200	shale/sandstone	Y
155	1094 Lucharles Ave	200	145	67/60	47	150 - 200	sandstone	Y
156	1111 Lucharles Ave	202	121	121	95	131 - 202	shale/sandstone/limestone	Y
157	1116 Lucharles Ave	220	150	150	90	150 - 200	shale/sandstone/limestone	Y
158	1126 Lucharles Ave	200	145	145	76	145 - 200	sandstone	Y
159	Nutana Blvd, 1/4 mi W of Saginaw Rd	240	140	65/10/40	45	168 - 240	shale/sandstone	Y
160	1026 Nutana Blvd	247	147	27/100	94	160 - 247	shale/sandstone/limestone	Y
161	1039 Nutana Blvd	230	150	40/90	40	168 - 230	shale/sandstone	Y
162	1056 Nutana Blvd	227	132	40/55	80	157 - 227	shale/sandstone/limestone	Y
163	1066 Nutana Blvd	260	115	38/45	85	150 - 260	shale/sandstone/limestone	Y
164	1075 Nutana Blvd	247	130	35/20/35	87	145 - 247	shale/sandstone/limestone	Y
165	1076 Nutana Blvd	235	141	141	81	156 - 235	slate/shale/sandstone/limestone	Y
166	1098 Nutana Blvd	300	170	170	88	180 - 300	shale/sandstone	Y
167	1104 Nutana Blvd	260	166	12/60/80	70	180 - 260	shale/sandstone/limestone	Y
168	1117 Nutana Blvd	240	118	35/60	N/A	145 - 240	shale/sandstone/limestone	Y
169	1118 Nutana Blvd	235	143	33/105	70	168 - 235	shale/sandstone	Y
170	1127 Nutana Blvd	230	112	60/39	81	135 - 230	shale/sandstone/limestone	Y
171	1128 Nutana Blvd	260	120	50/40	81	150 - 260	shale/sandstone/limestone	Y
172	7040 N Saginaw Rd	240	148	83/58	85	151 - 240	shale/sandstone	Y
173	7047 N Saginaw Rd	265	146	40/86	80	151 - 265	shale/sandstone/limestone	Y
174	7067 N Saginaw Rd	240	125	65/40	95	150 - 240	shale/sandstone/limestone	Y
175	7101 N Saginaw Rd	305	142	126	60	160 - 305	shale/sandstone	Y
176	7163 N Saginaw Rd	247	150	35/10/60	90	165 - 247	shale/sandstone/limestone	Y

DOMESTIC WELL SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Well ID Number	Location	Total Depth (ft)	Overburden Thickness (ft)	Clay Aquitard (1) Thickness (ft)	Static Water Level (ft)	Screened Interval	Screened Unit	Screened Interval Protected/Confined (Y/N)
177	7166 N Saginaw Rd	247	155	40/90	100	162 - 247	shale/sandstone/limestone	Y
178	7195 N Saginaw Rd	302	180	39/95	80	189 - 302	shale/sandstone/limestone	Y
179	7200 N Saginaw Rd	240	168	80/28	80	168 - 240	sandstone	Y
180	7211 N Saginaw Rd	245	152	8/90/18	60	152 - 245	water rock/limestone	Y
181	1034 W Stanley Rd	215	100	40/40	80	140 - 215	shale/sandstone	Y
182	1097 E Stanley Rd	260	180	30/90	100	195 - 260	sandstone/limestone	Y
183	1128 W Stanley Rd	190	90	15/50/10	71	124 - 190	shale/sandstone	Y
184	1131 E Stanley Rd	290	190	12/100/60	100	212 - 290	shale/sandstone/limestone	Y
185	1290 E Stanley Rd	300	208	208	140	230 - 300	shale/sandstone	Y
186	1297 E Stanley Rd	292	190	6/100/26	95	200 - 292	shale/sandstone/limestone	Y
187	1139 W Stanley Rd	292	215	78/107	102	218 - 292	sandstone/limestone	Y
188	1148 W Stanley Rd	220	114	20/75	60	127 - 220	shale/sandstone/limestone	Y
189	1155 E Stanley Rd	280	230	90/50/78	100	240 - 280	shale/sandstone	Y
190	1166 W Stanley Rd	205	109	109	70	130 - 205	slate/shale/sandstone	Y
191	1180 W Stanley Rd	205	114	27/66	71	133 - 205	shale/sandstone	Y
192	1254 W Stanley Rd	220	89	50/19	50	129 - 220	shale/sandstone/limestone	Y
193	1260 W Stanley Rd	215	85	45/10	60	100 - 215	shale/sandstone	Y
194	1278 E Stanley Rd	295	180	25/20/80	100	231 - 295	shale/sandstone/limestone	Y
195	1302 E Stanley Rd	295	175	140	120	225 - 295	shale/sandstone/limestone	Y
196	1320 E Stanley Rd	245	207	163/27	90	213 - 245	shale/sandstone	Y
197	2008 E Stanley Rd	157	98	26/70	50	112 - 157	shale/sandstone	Y
198	2013 E Stanley Rd	48	48	38	11	44 - 48	sand	Y
199	2056 E Stanley Rd	280	196	196	78	204 - 280	shale/sandstone/limestone	Y
200	2068 E Stanley Rd	252	190	40/125	80	210 - 252	sandstone/limestone	Y
201	2073 E Stanley Rd	205	150	150	50	157 - 205	shale/sandstone/limestone	Y
202	2160 E Stanley Rd	260	164	18/121	102	185 - 260	sandstone/limestone	Y
203	2176 E Stanley Rd	260	160	20/65	36	175 - 260	shale/sandstone/limestone	Y
204	2177 E Stanley Rd	280	201	33/124	N/A	204 - 280	shale/sandstone	Y
205	2240 E Stanley Rd	300	155	130	90	171 - 300	shale/sandstone	Y
206	2382 E Stanley Rd	240	138	120	40	158 - 240	sandstone	Y
207	2389 E Stanley Rd	280	155	120	70	174 - 280	shale/sandstone/limestone	Y
208	2401 E Stanley Rd	198	153	24/56/8	63	153 - 198	shale/sandstone/limestone	Y
209	2434 E Stanley Rd	225	152	152	42	160 - 225	sandstone/limestone	Y
210	2439 E Stanley Rd	185	130	30/90	36	143 - 185	sandstone	Y
211	2454 E Stanley Rd	205	144	144	47	158 - 205	sandstone/limestone	Y
212	2459 E Stanley Rd	220	140	15/108	60	150 - 220	sandstone/limestone	Y
213	2474 E Stanley Rd	205	140	140	45	149 - 205	sandstone/limestone	Y
214	2477 E Stanley Rd	200	143	4/121	60	146 - 200	shale/sandstone	Y
215	2499 E Stanley Rd	202	140	38/80	40	147 - 202	sandstone/limestone	Y
216	Stanley Rd W of Bray Rd	1503	142	8/32	N/A	N/A	shale/sandstone/limestone	Y

Notes: (1) If more than one thickness is present then multiple clay aquitards exist.
(2) Not Available



SOURCE: UniversalMAP;
GREATER FLINT & GENESEE COUNTY, MICHIGAN STREETMAP

figure F.1

DOMESTIC WATER WELL LOCATIONS (1.5 MILE RADIUS)
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(HOLD003)GN-WA009 MAR 07/2002

ATTACHMENT E

RESPONSE TO COMMENT NO. 8
SECTION 5.2 - GROUNDWATER USE INVENTORY

GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

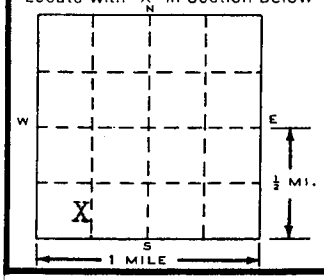
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	8 N/S	7 E/W

tance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: Linda Nicholas

Address: 1038 Agnes

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed) 219 ft. **Date of Completion** 12-3-85

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 149 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter 7 7/8 in. to 149 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface 1 ft.

Weight 2.92 lbs./ft.

Drive Shoe [X] Yes [ ] No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	15	15
Blue Clay	35	50
Sandy Clay	75	125
Blue Clay	20	145
Stones	3	148
Sandstone	20	168
Limestone	51	219

USE A 2ND SHEET IF NEEDED

8 SCREEN: [X] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 120 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

140 ft. after 2 hrs. pumping at 17 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [ ] Pitless adapter [X] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 0 to 149 ft

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sanitary Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP: [X] Not Installed [ ] Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

TYPE: [ ] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gil Sunde Well Drilling 169 ~~1710~~

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G8013 Corunna Rd. Flint, Mi 48504

Signed Gilbert Sunde Date 12/4/85

AUTHORIZED REPRESENTATIVE

JLM

D67d 2/84

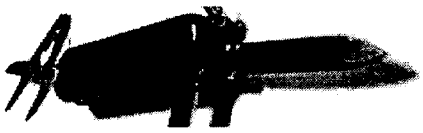
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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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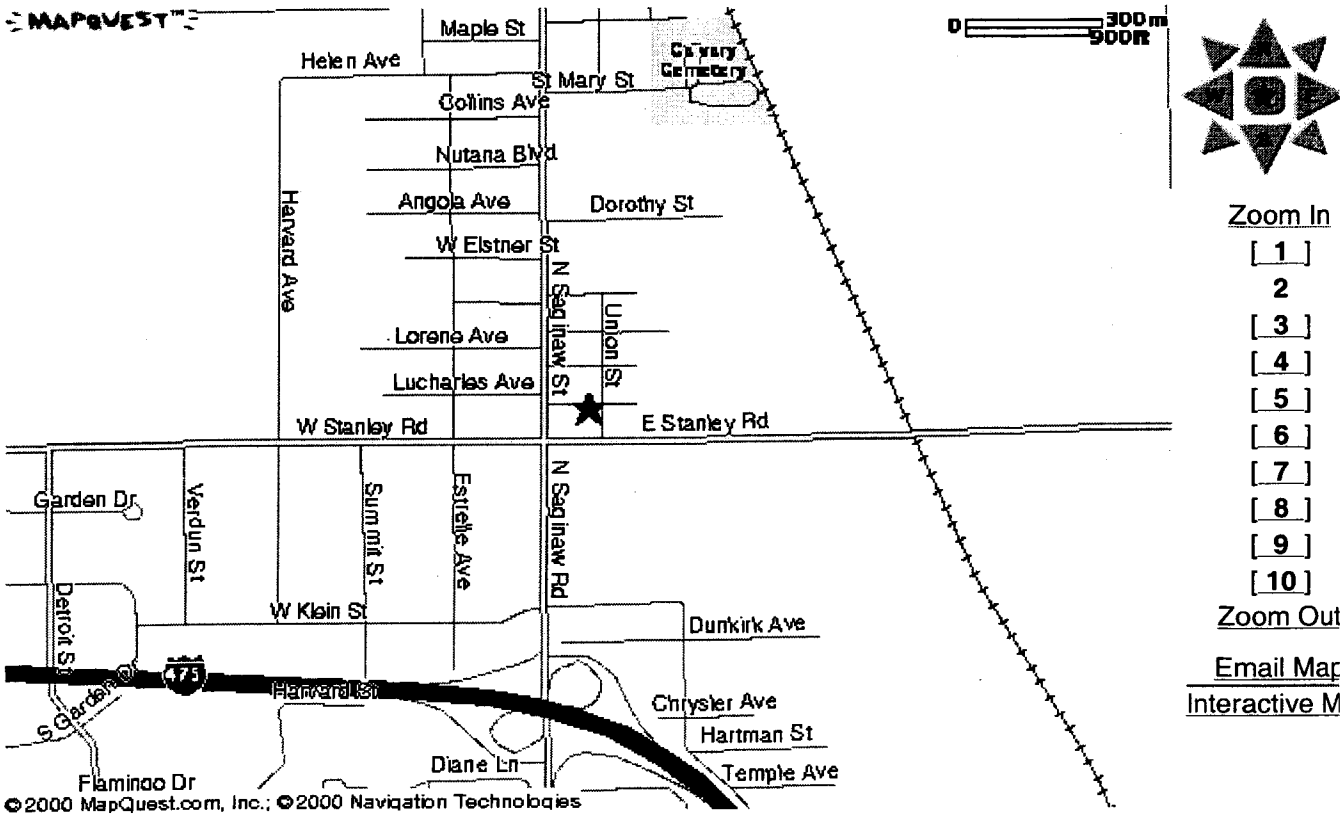
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

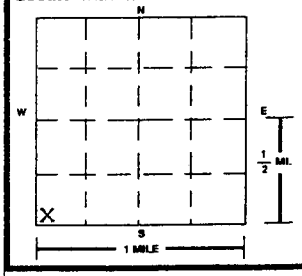
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 SW 1/4 SW 1/4	7	8N	7E

Distance and Direction from Road Intersection

Street Address & City of Well Location

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL
Address: Jim Clark
1049 Agnes St
Mt. Morris MI
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 262 ft. | Date Completed: 0615 98 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 150 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: _____ in. to _____ ft. depth
7 7/8 in. to 163 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☐ Shale Packer

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
90 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
170 ft. After 1 hrs. Pumping at 25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement 'Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 170 to 0 ft.
☐ Neat Cement ☐ Bentonite ☐ Other _____
No. of Bags 4 Additives Crumbles

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Aermotor
Model Number 12-T-75 HP 3/4 Volts 220
Length of Drop Pipe 160 ft. Capacity 12 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name _____
Model Number _____ Capacity _____ Gallons _____

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15	15
Blue Clay	20	35
Sand & Gravel	30	65
~~Blue Clay~~	95	160
Shale	25	185
Sandstone	18	203
Limestone	20	223
~~Sandstone~~	39	262

USE A SEPARATE SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

7. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
~~Dekoski Well~~ Drilling Inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 1151 Paul St Mt. Morris, MI
Signed Robert J Dekoski Date 07-02-98
AUTHORIZED REPRESENTATIVE

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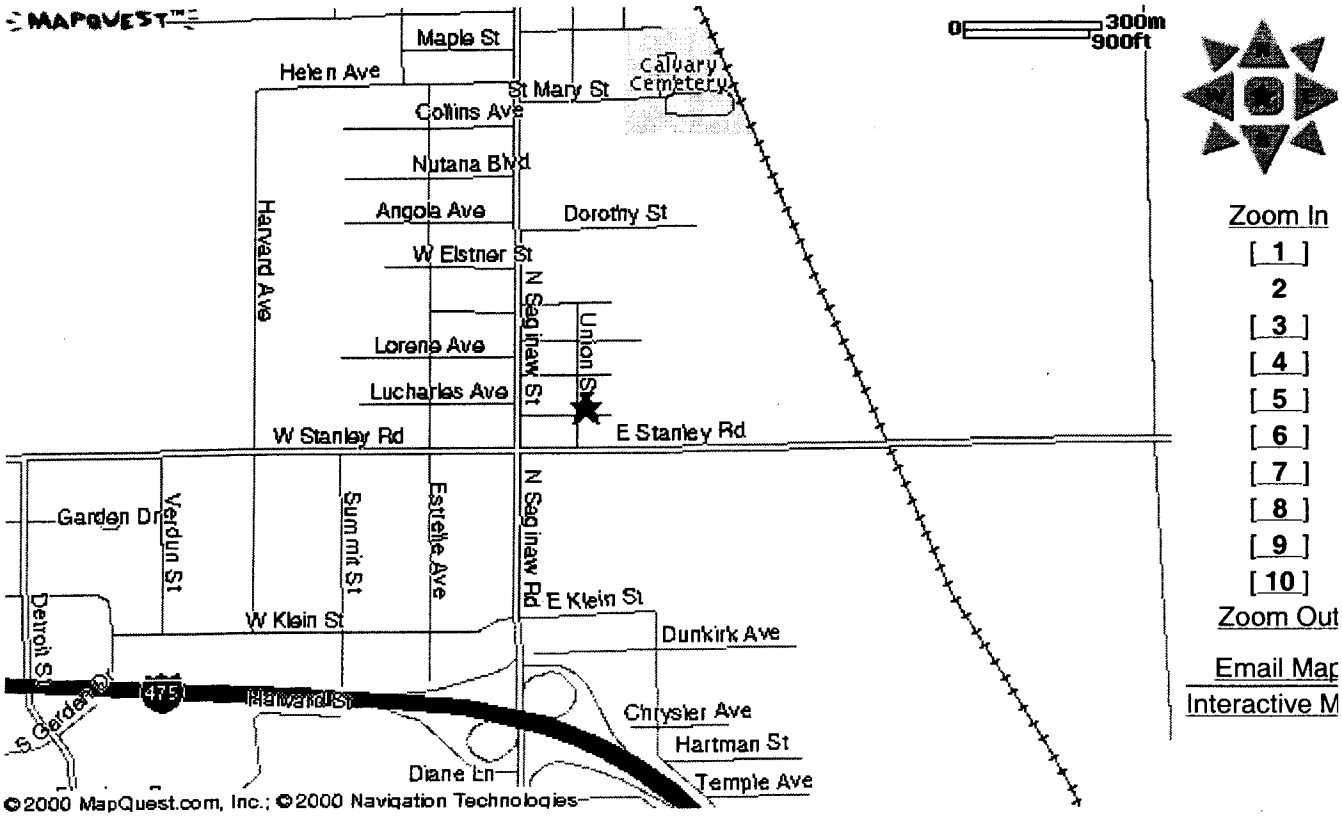
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

1 LOCATION OF WELL

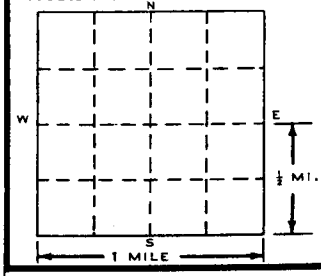
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location 1067 Agnes

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL:

Address: Tina Mizell
1067 Agnes
Mt. Morris

Address Same As Well Location? [ ] Yes [ ] No

4 WELL DEPTH: (completed)

300 ft.

Date of Completion: 7.10.86

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 170 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	18	18
Gray clay	8	26
Sand & clay	14	50
Gray clay	50	100
Gravel	16	116
Clay & stone	44	160
Broken lime & shale	6	166
Sandrock	5	171
Limestone	4	176
Sandstone	15	190
Sandstone & limestone	10	200
Sandrock	15	215
Limestone	15	230
Sandrock	10	240
Slate w/streaks of limestone	60	300

USE A 2ND SHEET IF NEEDED

8 SCREEN:

[ ] Not Installed

Type none Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

300 ft. after _____ hrs. pumping at 10 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [ ] Yes From _____ to _____ ft.

[ ] Neat cement [ ] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance SW ft. Direction 20+

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name MGoulds

Model number 7EH HP ½ Volts _____

Length of Drop Pipe 130 ft. capacity _____ G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well-x-trol

Model number 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor Well Drilling 1590
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewsi Rd., Clio

Signed Brian Taylor Date 7.10.86
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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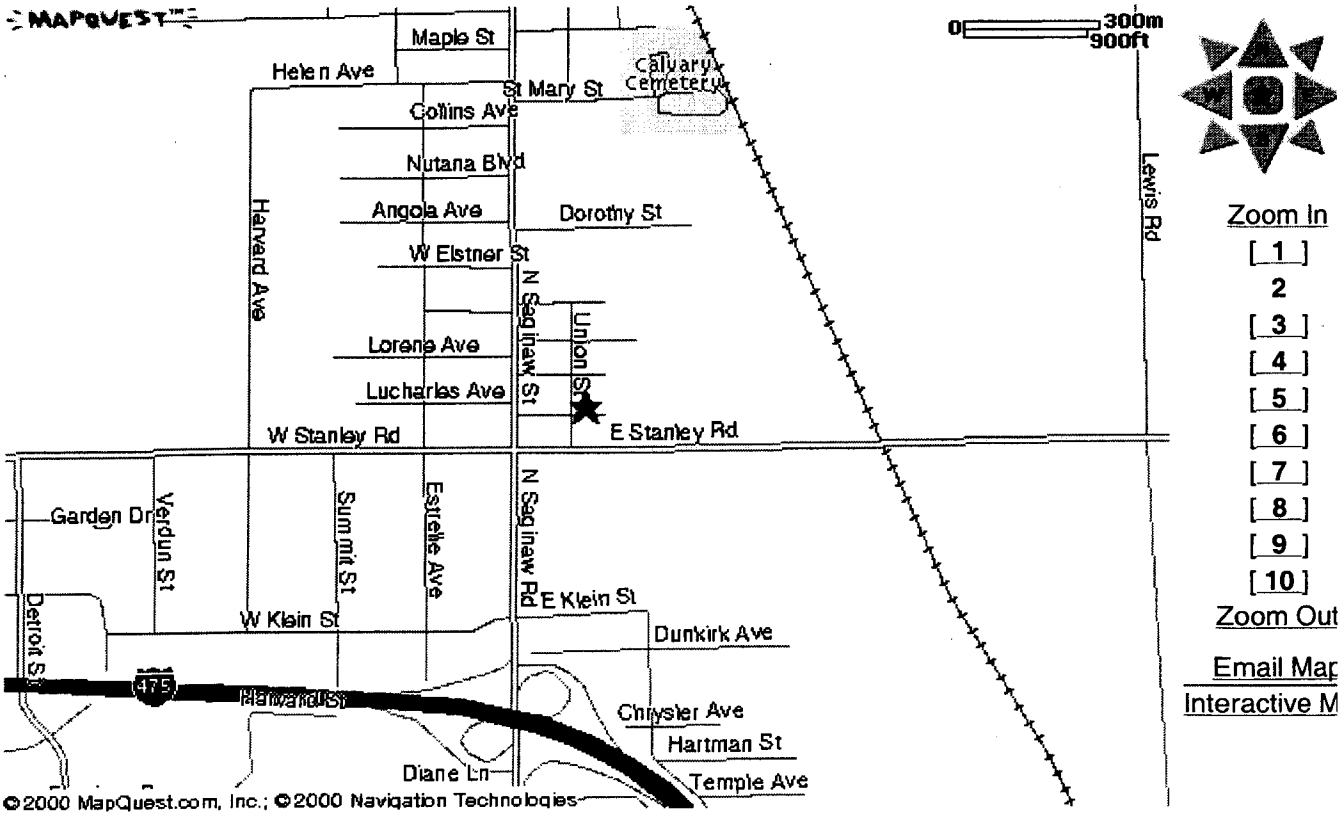
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

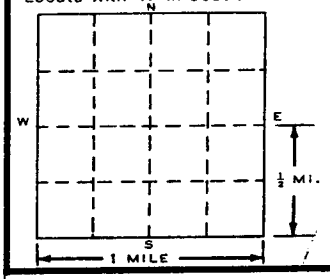
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	8 N	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location 1068 Agnes

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Pam Tyler

Address 1068 Agnes

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

300 FT.

Date Completed MO. 7 DAY 22 YEAR 88

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public

☐ Irrigation ☐ Type IIa Public ☐ Heat pump

☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 177 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☒ Yes ☐ No

Boot

8 SCREEN:

☐ Not Installed

Type none Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

_____ ft. after _____ hrs. pumping at _____ G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade

☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☐ Yes From _____ to _____ ft.

☐ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☐ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Grunflos

Model number S HP 505 Volts _____

Length of Drop Pipe 140 ft. capacity _____ G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-trol

Model number 203 Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay, sand, stones	20	20
Gray clay, sand, stones	149	169
White shale, soft green sandstone	21	190
Sandstone, limestone streaks of green slate	50	240
green slate, limestone	60	300

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

RECEIVED
Mich. Dept. of Public Health
AUG 11 1988
Bureau of Environmental and Occupational Health - GWQS

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor Well Drilling 1590
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd

Signed Brian Taylor Date 8.1.88
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

Brad Taylor

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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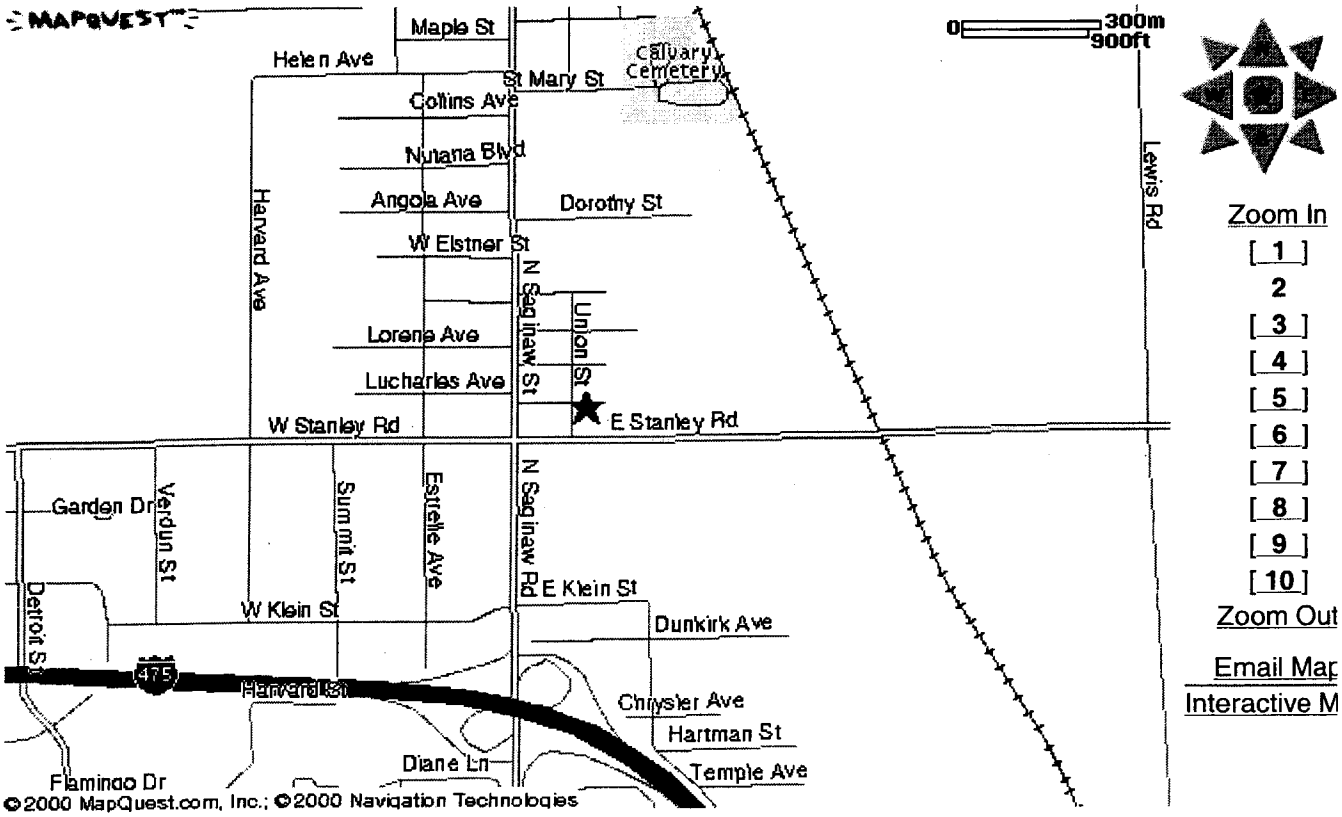
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GEOLOGICAL SURVEY SAMPLE No.

FEB 2 3 1976

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

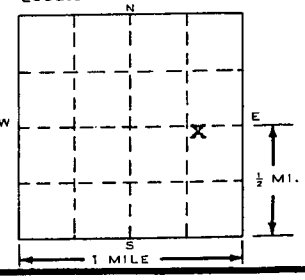
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	[redacted] ¼ NE ¼ SE ¼	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections

Street address & City of Well Location: 1090 Angola Street

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:

Larry Reinhardt

Address 1090 Angola Street

Mt. Morris, Mi

4 WELL DEPTH: (completed) Date of Completion

200 ft. 12-20-75

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry

☐ Irrigation ☐ Air Conditioning ☐ Commercial

☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

Diam. 2 in. to 151 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft.

Weight ____ lbs./ft.

Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Top Soil	2	2
Clay (Red)	10	12
Blue Clay	88	100
Sand & Gravel	18	118
Blue Clay & Stones	17	135
Shale	14	149
Water Rock	10	159
Shale	15	174
Water Rock	26	200

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

70 ft. below land surface

10 PUMPING LEVEL below land surface

105 ft. after 5 hrs. pumping 13 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

____ feet ____ Direction ____ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name Meyers

Model Number ____ HP ¾ Volts 110

Length of Drop Pipe 105 ft. capacity 6 G.P.M.

Type: ☐ Submersible

☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

*CORRECTED BY

**ADDITION BY

ELEVATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — REGISTERED BUSINESS NAME

1242 — REGISTRATION NO.

Address 1151 E. Paul Street

Signed Robert J. Dekoski — AUTHORIZED REPRESENTATIVE

Date 1-8-76

D67d 100M (Rev. 12-68)

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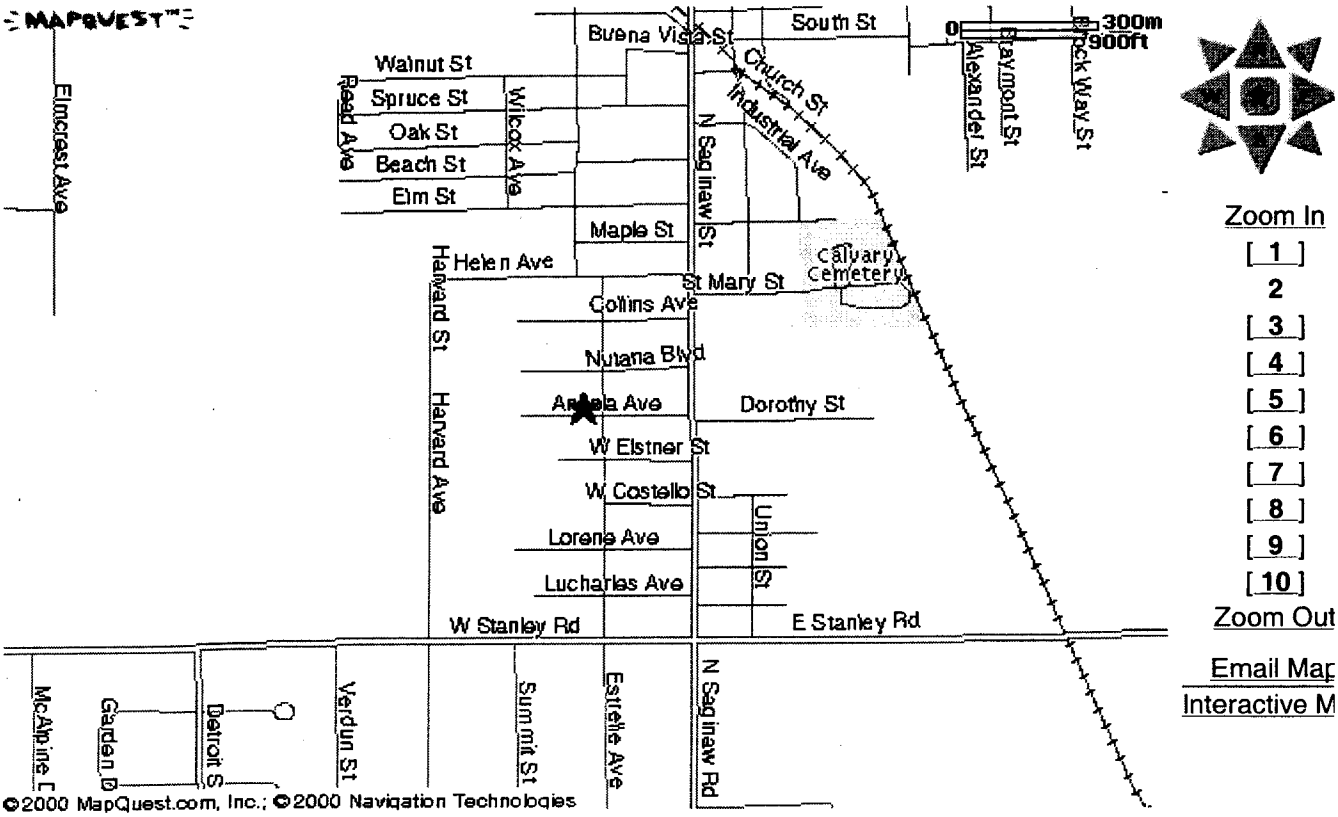
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★ **1090 Angola Street, Mount Morris, MI 48458-2139**

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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

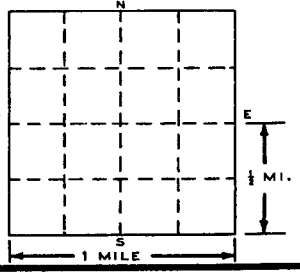
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection
About 0.1 mile W. of Estrelle
About 50ft. S. of Angola Ave

Street Address & City of Well Location At 1101

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

STAN. ECKSTEIN (6)
Address 1101 ANGOLA AVE
MT. MORRIS Mich
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

240 FT. Date Completed MO 10 DAY 27 YEAR 86
[ ] New Well [X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING:

Diameter [ ] Steel [ ] Threaded
[X] Plastic [X] Welded
5 in. to 149 ft. depth
in. to ft. depth
Grouted Drill Hole Diameter
8 in. to 147 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight PVC lbs./ft.
~~Drive Shoe~~ [X] Yes [ ] No
TAPE

8 SCREEN:

[ ] Not Installed
Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL:

84 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

140 ft. after hrs. pumping at 20 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From TOP to 147 ft.
[ ] Neat cement [X] Bentonite [X] Other CLAY Slurry
No. of bags of cement Additives

13 Nearest source of possible contamination

Type SANITARY Distance 10 ft. Direction E
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [X] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name GOULDS
Model number 1DEJ412 HP 3/4 Volts 230
Length of Drop Pipe 160 ft. capacity 15 G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name EXISTING (GAL.)
Model number Capacity Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	17	17
BLUE CLAY	80	97
GRAVEL	9	106
BLUE CLAY	22	128
BLACK SHALE	18	146
GRAY SHALE	15	161
GRAY SANDSTONE	41	202
BROWN SHALE	18	220
WHITE SANDSTONE	20	240

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:
DOUG

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR ST. GENESEE
Signed Doug Perio AUTHORIZED REPRESENTATIVE Date 10-29-86

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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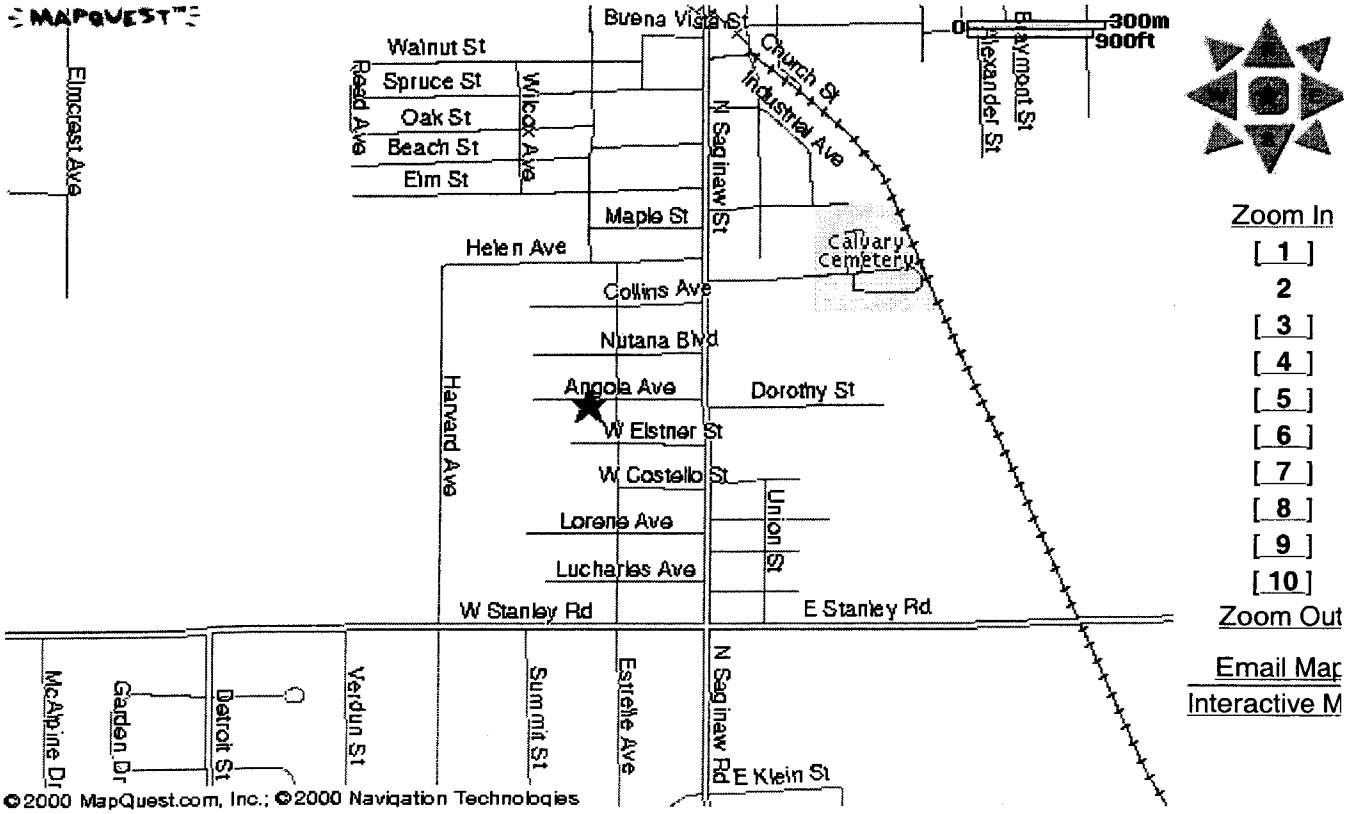
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

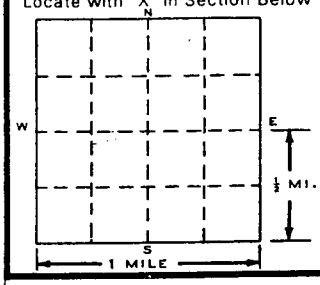
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection: About 400 ft W. of ESTRELL AVE
About 60 ft N. of ANGOLA AVE

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: EARTH HILL

Address 1102 ANGOLA AVE, MT. MORRIS

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 240 ft. **Date of Completion** 7-16-86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded

5 in. to 149 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8 in. to 147 ft. depth

_____ in. to _____ ft. depth

Height: Above/~~Below~~ Surface _____ ft.

Weight PVC lbs./ft.

~~Drive Shoe~~ TAPE ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	10	10
BLUE CLAY	24	34
SAND	8	42
BLUE CLAY	58	100
SAND	7	107
BLUE CLAY	28	135
BLACK SHALE	43	178
GRAY SANDSTONE	9	187
BROWN SHALE	28	215
WHITE SANDSTONE	25	240

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AUG 19 1986
Bureau of Environmental and Occupational Health - GWOS

USE A 2ND SHEET IF NEEDED

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 85 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

120 ft. after _____ hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From TOP to 147 ft.

☐ Neat cement ☒ Bentonite ☒ Other CLAY SLURRY

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type SANITARY Distance 10+ ft. Direction E

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name GOULDS

Model number 10E5412 HP 3/4 Volts 230

Length of Drop Pipe 160 ft. capacity 20 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name A.O SMITH

Model number V-200 Capacity 20 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIDR WELL DRILLING 0202

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGORY GENESEE

Signed DOUG PERIOR Date 7-18-86

AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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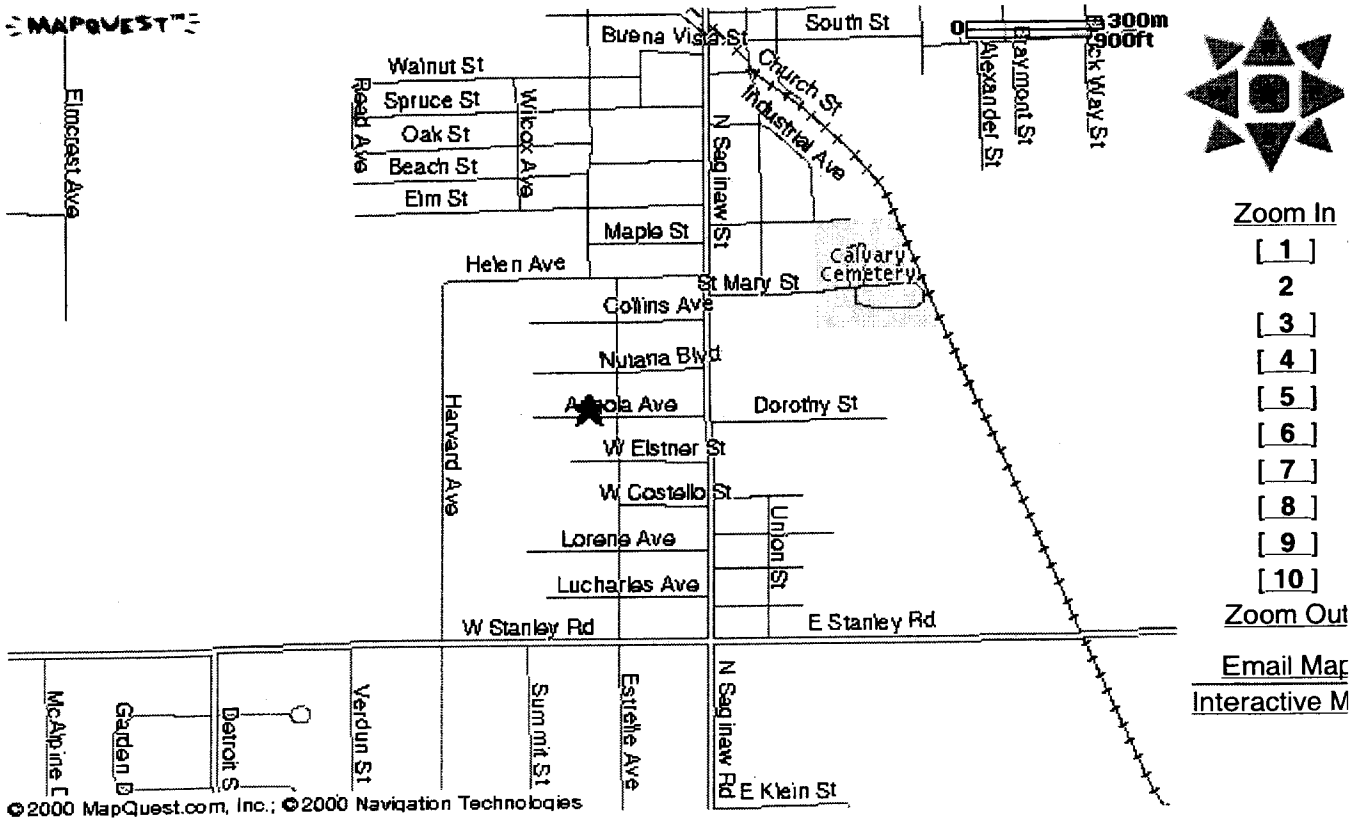
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GEOLOGICAL SURVEY SAMPLE No.

3 SEP 2 8 1978

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

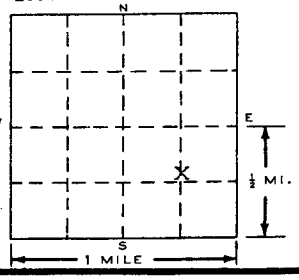
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	~~SW~~ ¼ NE¼ SE¼	12	8 N/S	6 E/W

Distance And Direction from Road Intersections

Street address & City of Well Location: 1110 Angola St

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:
Frank Ramiller
Address 1110 Angola St
Mt. Morris, Mi

4 WELL DEPTH: (completed) 220 ft. Date of Completion 8-15-78

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 155 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface ____ ft. Weight ____ lbs./ft. Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
84 ft. below land surface

10 PUMPING LEVEL below land surface
126 ft. after 6 hrs. pumping 15 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
____ feet ____ Direction ____ Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Myers
Model Number V4H 100 HP 1 Volts 220
Length of Drop Pipe 126 ft. capacity 6 G.P.M.
Type: ☐ Submersible ☒ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	8	8
Blue Clay	45	53
Sand & Blue Clay	23	76
Blue Clay	65	141
lue Clay & Stones	18	159
Water Rock	12	171
Shale	20	191
Water Rock & Limestone	29	220

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB
*ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 1151 Paul Street
Signed Robert O Dekoski Date 9-5-78
AUTHORIZED REPRESENTATIVE

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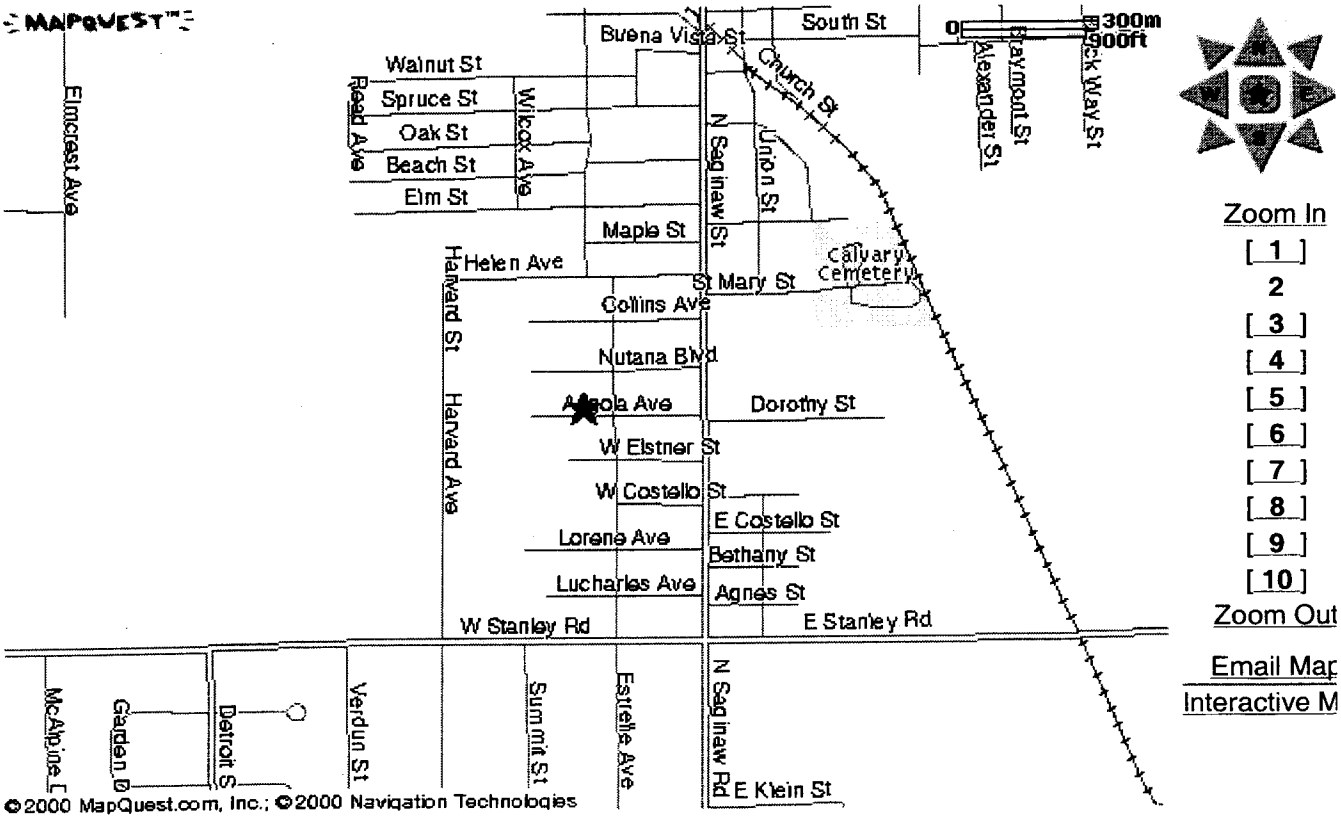
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO. [ ]

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

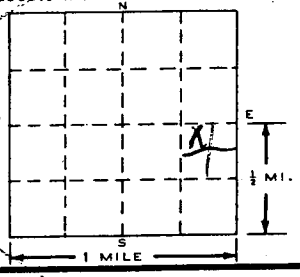
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT MORRIS	NW NE SE	12	8N N/S	6E E/W

Distance And Direction From Road Intersection
ABOUT 600' W OF ESTRELL AVE
ABOUT 110' S OF ANGOLA AVE

Street Address & City of Well Location 1129 ANGOLA MT MORRIS, MI 48458

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

LARRY HENRY
Address 1129 ANGOLA AVE
MT MORRIS MI 48458
Address Same As Well Location? * Yes ☐ No

4 WELL DEPTH:

300 FT. Date Completed MO. 08 DAY 15 YEAR 90
☐ New Well * Replacement Well

5

☐ Cable tool * Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

* Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded
* Plastic ☐ Welded
5 in. to 158 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 153 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight PVC lbs./ft.
Drive Shoe ☐ Yes TAPED ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Y CLAY	16.0	16.0
B CLAY	81.0	97.0
GRAVEL	11.0	108.0
B CLAY	14.0	122.0
SHALE	30.0	152.0
G SHALE	9.0	161.0
G SANDSTONE	39.0	200.0
BR SHALE	20.0	220.0
WH SANDSTONE	5.0	225.0
BR SHALE STRIPS G SANDSTONE	75.0	300.0

USE A 2ND SHEET IF NEEDED

8 SCREEN:

* Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

94 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

160 ft. after _____ hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

* Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No * Yes From 0 to 153 ft.
☐ Neat cement * Bentonite * Other CLAY SL
No. of bags of cement _____ Additives H PLUG

13 Nearest source of possible contamination

Type Sanitary Distance 10+ ft. Direction W
Well disinfected upon completion? * Yes ☐ No
Was old well plugged? ☐ Yes * No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name GOULDS
Model number 10EJ07412 HP 3/4 Volts 230
Length of Drop Pipe 160 ft. capacity 12 G.P.M.
TYPE: * Submersible ☐ Jet
PRESSURE TANK:
Manufacturer's name A-O SMITH
Model number V-200 Capacity 20 Gallons

RECEIVED
Mich. Dept. of Public Health
NOV 6 1990
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-SWQS

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGOR GENESEE, MI 48437

Signed Bud Kinsey Date 8-17-90
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:
DOUG

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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- Days of Our Lives
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- General Hospital
- Guiding Light
- One Life to Live
- Port Charles
- Sunset Beach
- Guiding Light
- One Life to Live
- Port Charles
- Sunset Beach
- Young and the Restless

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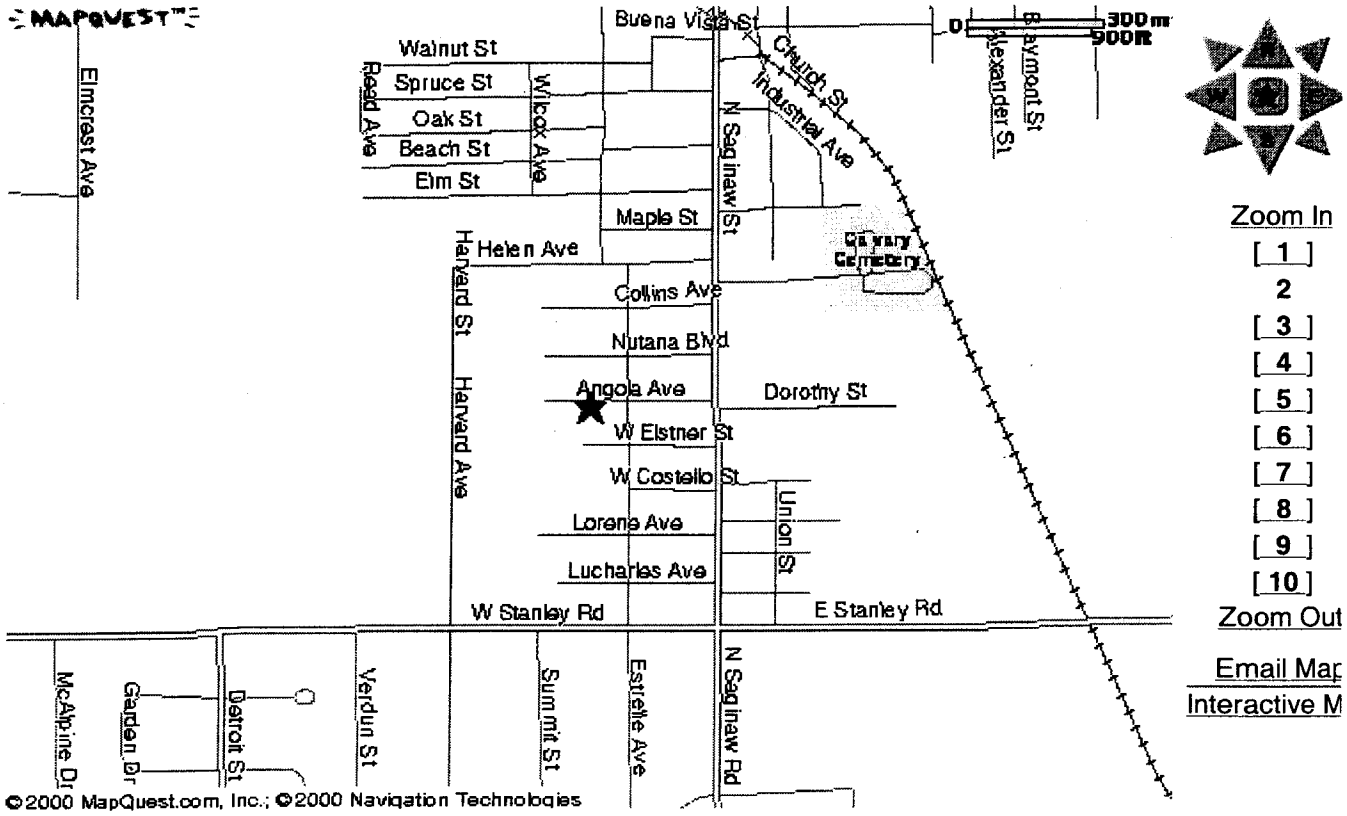
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★ **1129 Angola Avenue, Mount Morris, MI 48458-2123** 9

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

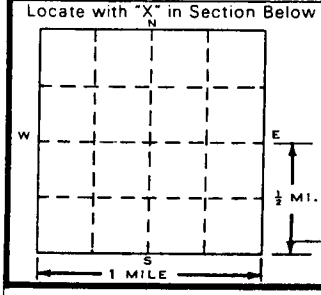
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	1/4 1/4 1/4	7	8N N/S	7E E/W

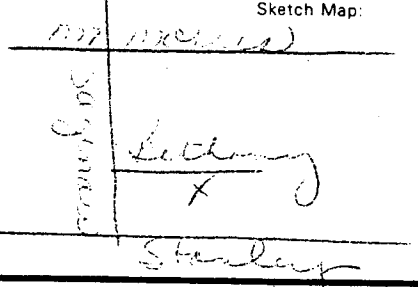
Distance And Direction From Road Intersection: Between Stanley and Mt. Morris Rd. S.N. Side

Street Address & City of Well Location: 1038 Bethany

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

William Hertzberg
1038 Bethany
Address: Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

300 ft.

Date of Completion: Aug. 11, 1987

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING

Diameter: [ ] Steel [ ] Threaded
[X] Plastic [ ] Welded

5 in. to 155 ft. depth
in. to ft. depth

Grouted Drill Hole Diameter
8 in. to 145 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight lbs./ft.
Sdr 21
Drive Shoe [ ] Yes
Shale Boot [X] No

8 SCREEN

[ ] Not Installed

Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL

106 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

200 ft. after 2 hrs. pumping at 25 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 145 ft.

[ ] Neat cement [X] Bentonite [ ] Other
No. of bags of cement Additives

13 Nearest source of possible contamination

Type SEWER Distance ft. Direction

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name: Red Jacket
Model number: 50CNW1 HP: ½ Volts: 230
Length of Drop Pipe: 140 ft. capacity: 10 G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name: Well X-Trol
Model number: 202 Capacity: 20 Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	18'	18'
Sand	12'	30'
Clay	105'	135'
Gravel	5'	140'
Sandstone	15'	155'
Limestone	35'	190'
Bla ck Shale	10'	200'
Sandstone	20'	220'
Limestone	73'	293'
Sandstone	7'	300'

RECEIVED
Mich. Dept. of Public Health
SEP 03 1987
Bureau of Environmental and Occupational Health - GWCS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort. Hwy. Mt. Morris, MI.

Signed Date 8-13-87
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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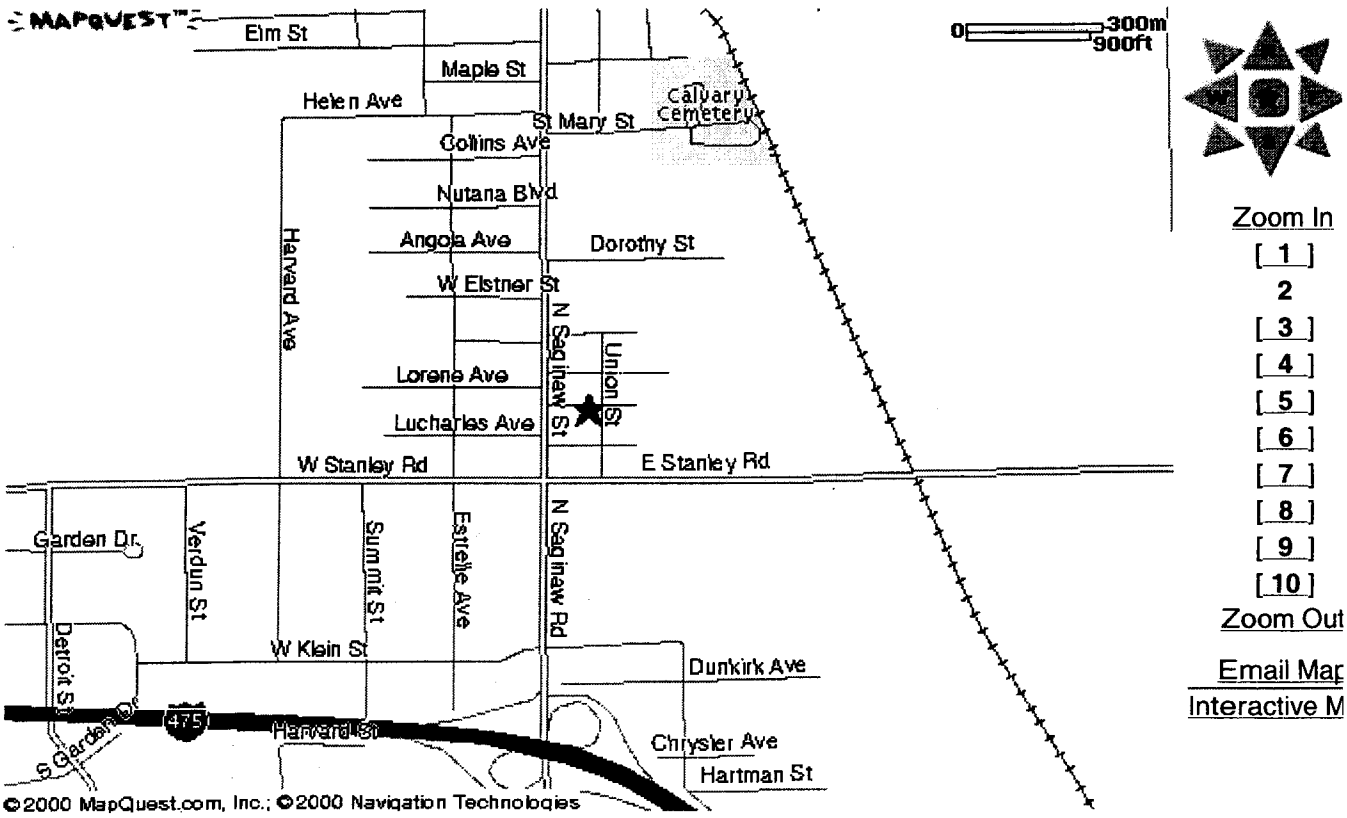
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1038 Bethany, Mount Morris, MI 48458-2222

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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

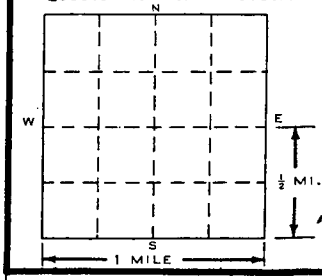
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE¼ SW¼ SW¼	7	8 N	7 E/W

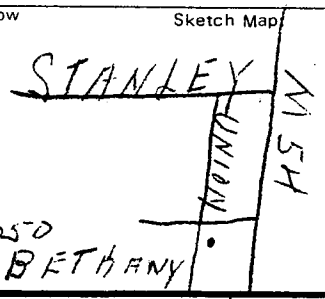
Distance And Direction from Road Intersections

Street address & City of Well Location

Locate with "X" in section below



Sketch Map



3 OWNER OF WELL:
Brother (11)
Address 1050 Bethany rd
mt morris

4 WELL DEPTH: (completed) Date of Completion
210 ft. 4-21-71

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
2 in. to 153 ft. Depth
____ in. to ____ ft. Depth
Height: Above ~~Below~~ Surface 1 ft.
Weight 3.25 lbs./ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
79 ft. below land surface

10 PUMPING LEVEL below land surface
90 ft. after 3 hrs. pumping 8 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted?
☐ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ Materials
Depth: From 0 ft. to 153 ft.

14 Nearest Source of possible contamination
20 feet So. Direction Sanatary Sewer
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Myers
Model Number HVM HP ¾ Volts 110/220
Length of Drop Pipe 105 ft. capacity 5 G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
yellow clay	11	11
Blue clay	37	48
fine Sand	9	57
Blue clay	46	103
Gravel & Stones	7	110
Brown clay	27	137
Gravel clay	11	148
Black Shale	5	153
Sandstone	32	185
Brown Sandstone	25	210

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
DRILLER, ITEM No.

*CORRECTED BY:

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Bader Well Drilling
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 2296 Francis Rd 0201

Signed Lauren Bader Date 4-21-71
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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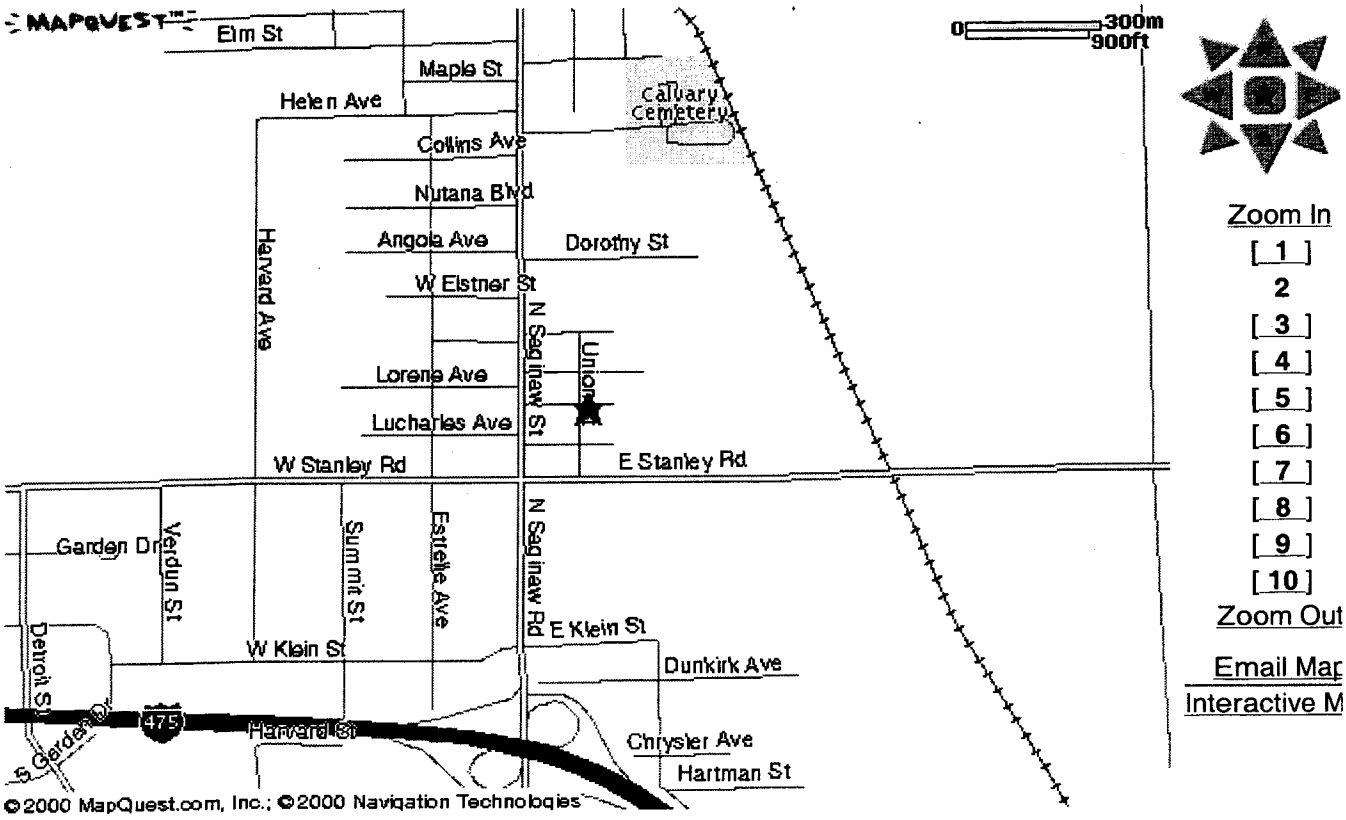
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★ **1050 Bethany Street, Mount Morris, MI 48458-2244** (11)

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

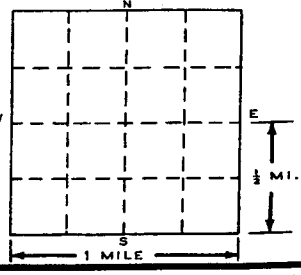
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	20	8 N/S	7 E/W

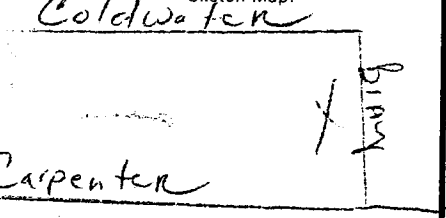
Distance And Direction From Road Intersection: Between Carpenter & Coldwater Rd. W. Side

Street Address & City of Well Location: 5373 Bray Rd.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Dorian Britt (12)
Address: 5373 Bray Rd. Flint, MI. 48505
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 160 ft. | Date Completed MO. 9 DAY 9 YEAR 86 | [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to 144 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter 8 in. to 144 ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe: Sdr 21 [ ] Yes Shale Boot [X] No

8 SCREEN: [ ] Not Installed
Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL: 25 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
152 ft. after 1 hrs. pumping at 38 G.P.M.
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 1 to 144 ft.
[ ] Neat cement [X] Bentonite [ ] Other ____
No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination
Type Septic Distance 100 ft. Direction SE
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name: Goulds
Model number 10EJ05422 HP ½ Volts 230
Length of Drop Pipe 60 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet ____
PRESSURE TANK:
Manufacturer's name: A.O. Smith
Model number V-60 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	25'	25'
Sand & Gravel	15'	40'
Clay	99'	139'
Green Sandstone	10'	149'
Limestone	9'	158'
Green Sandstone	2'	160'

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
OCT 2 1986
Bureau of Environmental and Occupational Health - GWDS

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort. Hwy. Mt. Morris, MI.
Signed ____ Date 8-10-86
AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor

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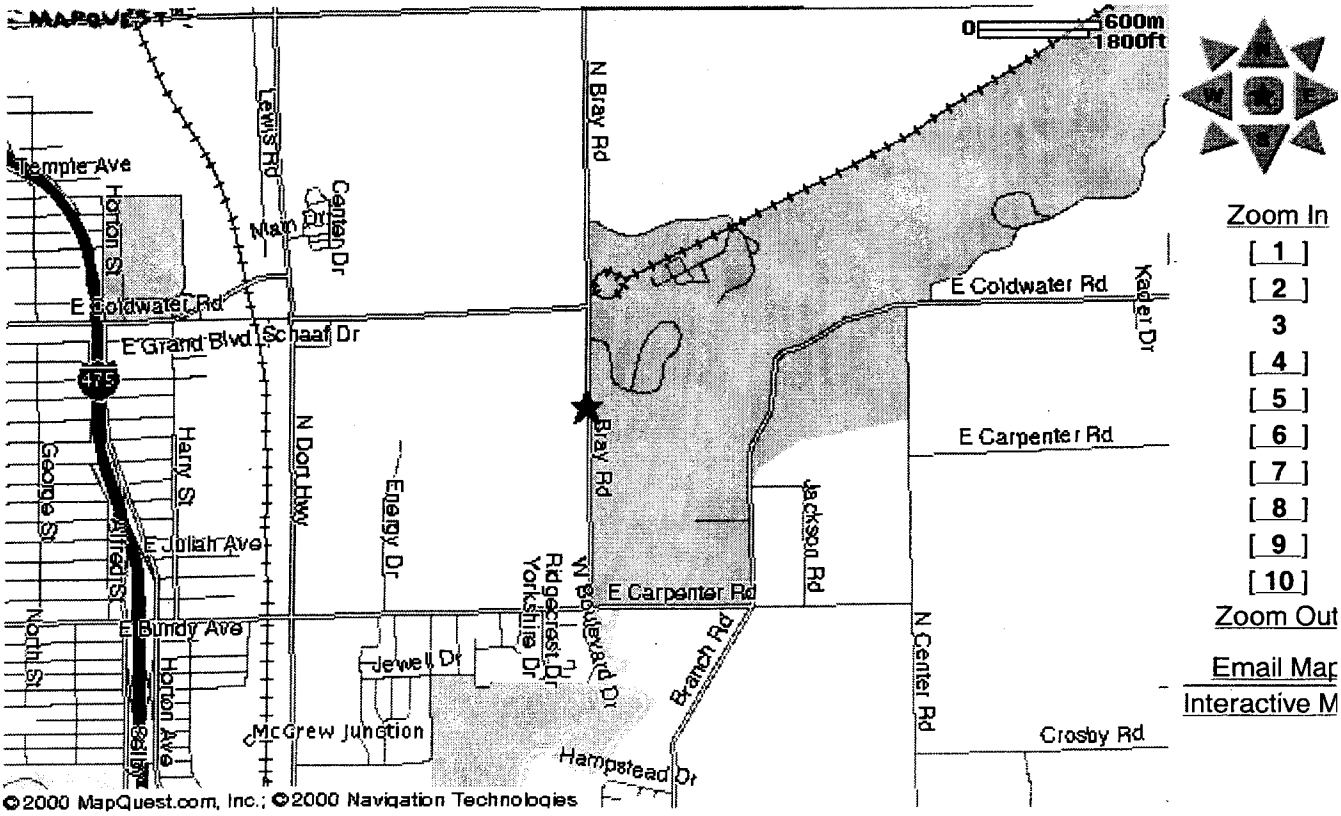
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

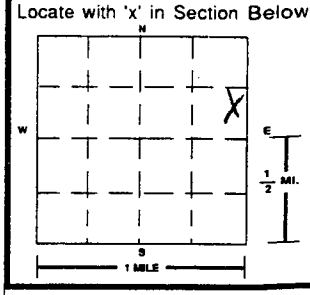
PERMIT NO: 00263

1. LOCATION OF WELL

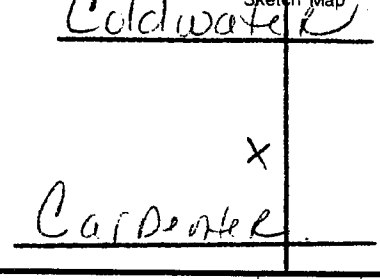
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	NE 1/4 SE 1/4 NW 1/4	20	8n	7e

Distance and Direction from Road Intersection
Between: Carpenter & Coldwater Rd.
OFF: Bray Rd.
5385 Bray Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Bruce Piccobotta
5385 Bray Rd.
Flint, MI. 48505
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 180 ft. | Date Completed 05/24/99 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 143 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 143 ft. depth
4.5 in. to 180 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ DR21 ☒ Shale Packer
SHALE BOOT

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
35 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
160 ft. After 2 hrs. Pumping at 50 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 143 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Septic Distance 50+ ft. Direction W

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Hermotor
Model Number 112-50 HP .50 Volts 115
Length of Drop Pipe 80 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number PC-66 Capacity 20 Gallons 6.2

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	17	17
Sand & Fine Gravel	11	28
Clay	49	77
Clay & Gravel	43	120
Sand & Fine Gravel	13	133
Clay	3	136
Sandstone	24	160
Limestone	8	168
Sandstone	12	180

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No
Casing Diameter 2 in. Depth 42 ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☒ Bentonite Chips
No. of Bags 2 Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name DAN WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 3107 N Dort Hwy Mt Morris MI. 48458
Signed Gary M Piper AUTHORIZED REPRESENTATIVE Date 06/02/1999

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EQP 2017 (12/96)

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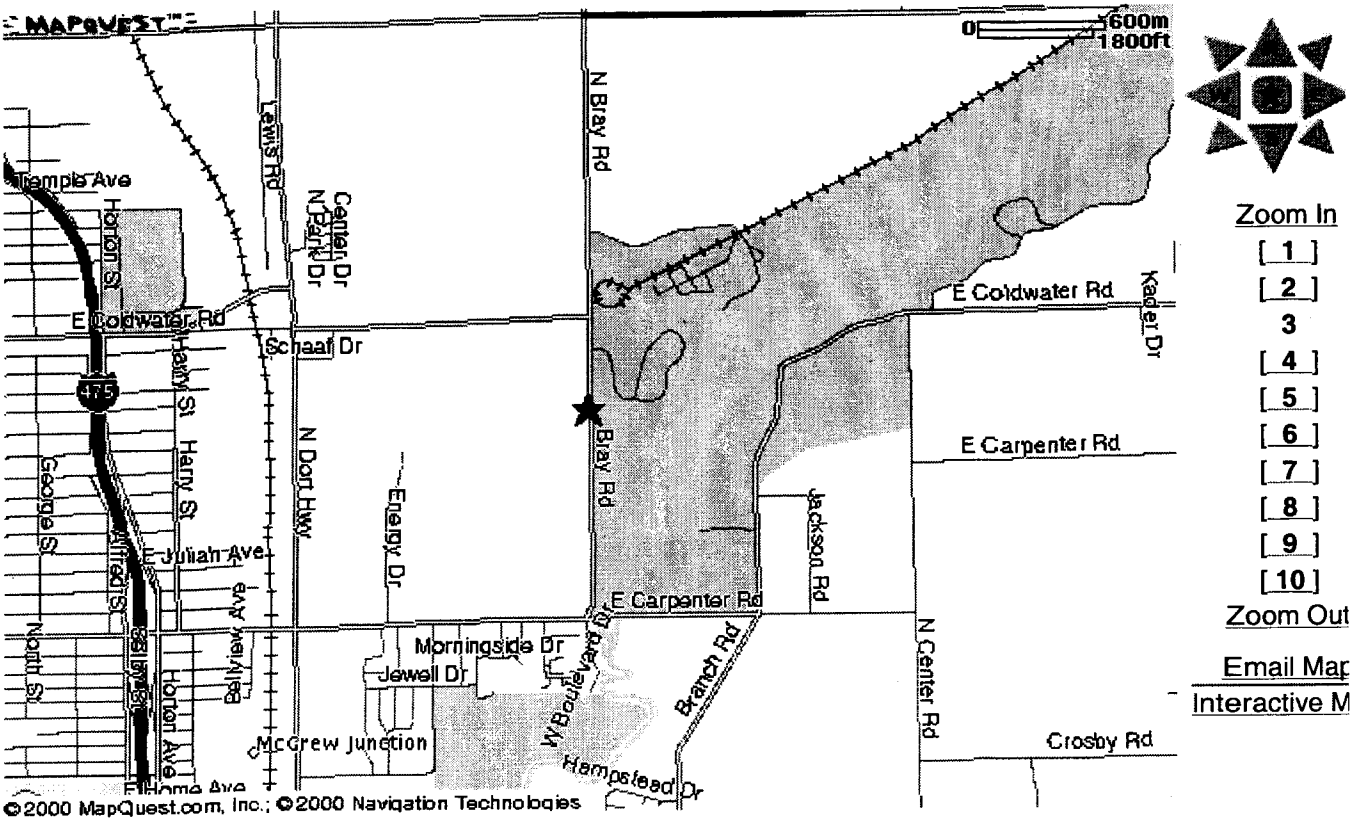
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GEOLOGICAL SURVEY SAMPLE No. _____

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
GENESEE	GENESEE	SE ¼ NE ¼ SE ¼	17	8 N	7 E

Distance And Direction from Road Intersections: 1584' No. S. E. Coldwater Rd W. 200' S. 6139 Bray Rd. FLINT. Mich.

Street address & City of Well Location

OWNER No. _____

3 OWNER OF WELL: LESLIE AMES. 14

Address: 6139 Bray Rd. FLINT. Mich.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND (YELLOW)	10	10
GRAVEL & CLAY	14	24
GRAVEL	5	29

4 WELL DEPTH: (completed) 29 ft. Date of Completion NOV. 21-66

5 ☐ Cable tool ☐ Rotary ☒ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ _____

7 CASING: Diam. Threaded ☐ Welded ☐

2 in. to 25 ft. Depth

___ in. to ___ ft. Depth

Height: Above/Below surface SURFACE

Weight 3.75 lbs/ft.

Drive Shoe? Yes ☒ No ☐ COUPLING

8 SCREEN:

Type CLAYTON MARK 121-60 Dia.: 1 1/4

Slot/Gauze 60 Length 36"

Set between 26 ft. and 29 ft.

Fittings: SEALED WITH 2" BREMER CHECK.

9 STATIC WATER LEVEL

10 ft. below land surface

10 PUMPING LEVEL below land surface

15 ft. after ___ hrs. pumping 12 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☒ No

Material: ☐ Neat Cement ☐ _____

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

75 feet S Direction SEPTIC Type

Well disinfected upon completion ☐ Yes ☒ No

15 PUMP:

Manufacturer's Name NOT INSTALLED

Model Number _____ HP _____

Length of Drop Pipe ___ ft. capacity ___ G.P.M.

Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

RECTED BY:

**ADDITION BY: RS

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B.E. PERIOR WELL DRILLING 0202

REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 4189 GREGOR ST. GENESEE

Signed _____ Date NOV. 24-66

AUTHORIZED REPRESENTATIVE

D67D 100M 6-66 MAY 4 1967

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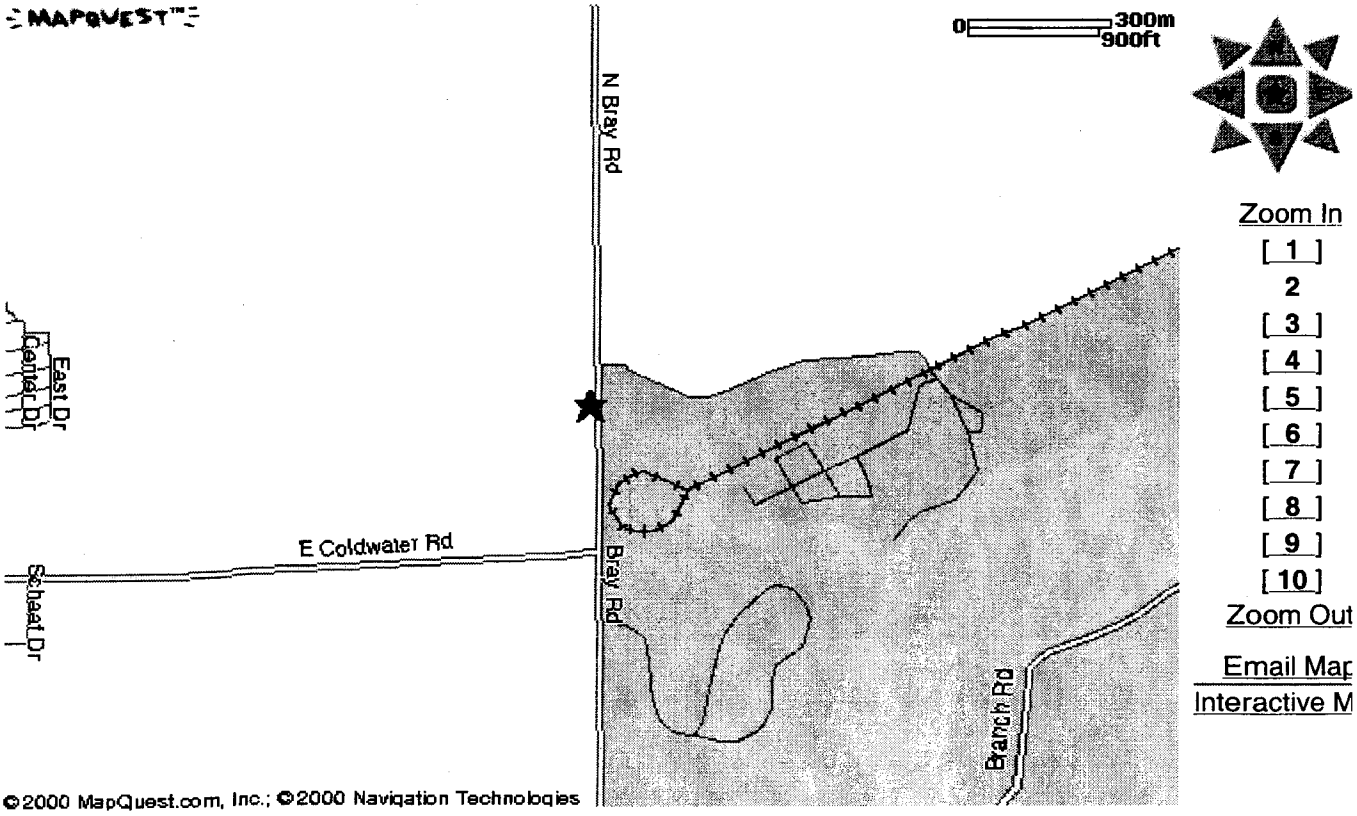
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

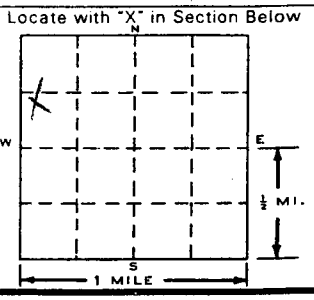
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	8 N/S	7 E/W

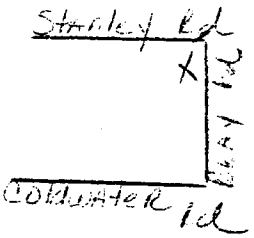
Distance And Direction From Road Intersection: Between Stanley & Coldwater Rds. W side

Street Address & City of Well Location: 6497 Bray Rd. Mt. Morris

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Sara Guy
6497 Bray Rd.
Mt. Morris, MI

(15)

Address

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed)

182 ft.

Date of Completion: May 2, 1984

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 155 ft. depth
in. to ft. depth

Grouted Drill Hole Diameter
8 in. to 155 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight lbs./ft.
SDR 21
Drive Shoe [ ] Yes [ ] No
Shale Boot

8 SCREEN:

[ ] Not Installed

Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL:

30 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

160 ft. after 2 hrs. pumping at 66 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 155 ft.

[ ] Neat cement [X] Bentonite [ ] Other
No. of bags of cement Additives

13 Nearest source of possible contamination

Type San. sewer Distance ft. Direction

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Tait
Model number 5DL210F HP ½ Volts 230
Length of Drop Pipe 80 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name X-trol
Model number 202 Capacity 20.0 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	15'	15'
Blue Clay	20'	35'
Clay & Gravel	40'	75'
Sand	10'	85'
Clay & Gravel	45'	130'
Blue Clay	15'	145'
Gray Sandstone	25'	170'
Limestone	12'	182'

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Mich. Dept. of Public Health
SEP 4 1984
Bureau of Environmental and
Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl F. Lyons Date May 18, 1984
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
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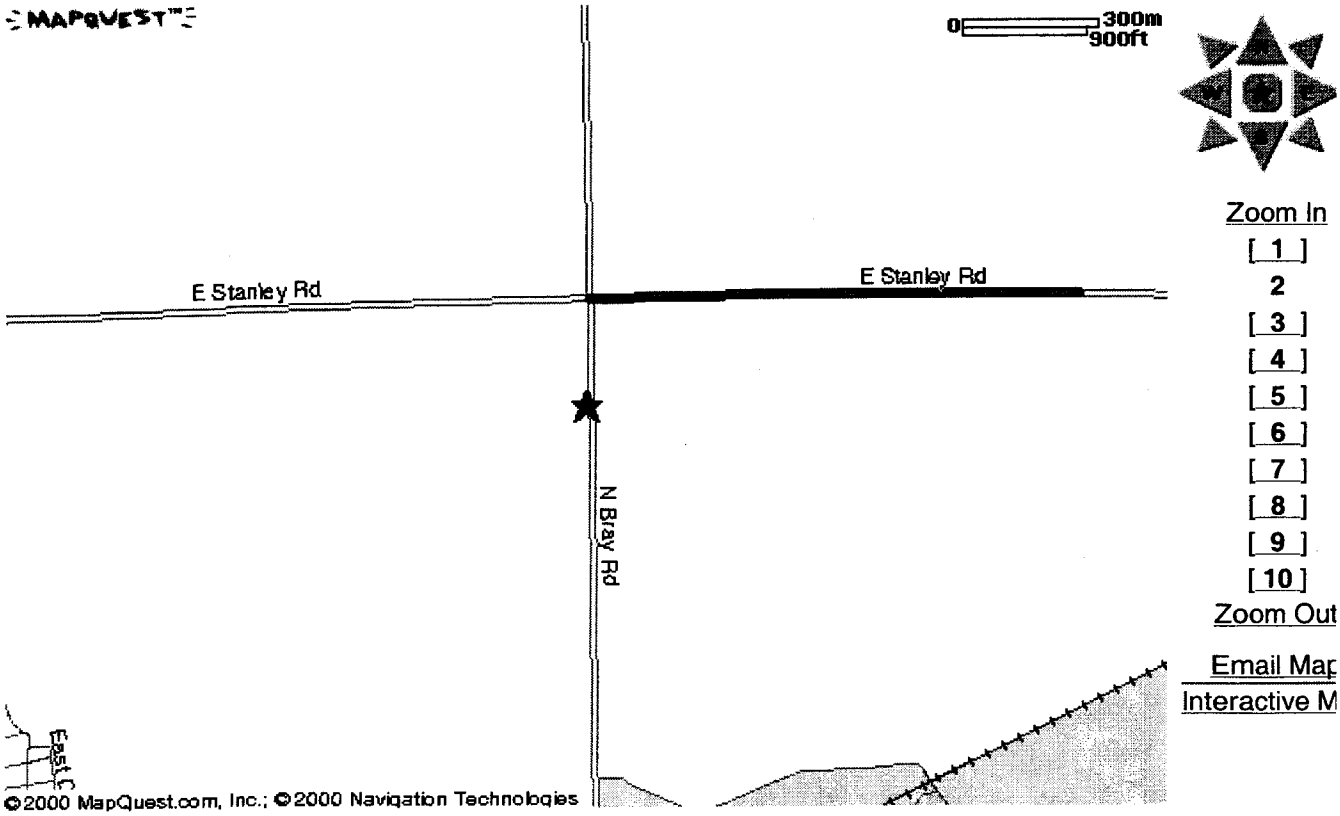
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO.

WATER WELL AND PUMP RECORD

PERMIT NUMBER

AUG 02 1984

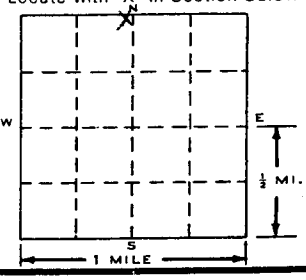
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW¼ NE¼ NE¼	20	8 N/S	7 E/W

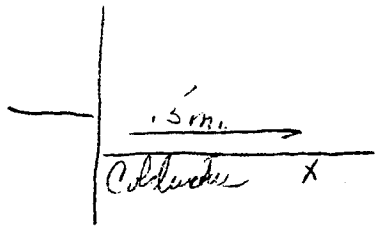
Distance And Direction From Road Intersection: 15 rd. East of Dort Hwy on the south side of Coldwater.

Street Address & City of Well Location: 6 Coldwater Rd

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Don Briege

Address: 5224 N. Byron Rd Montrose Mich 48457

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH (completed)

200 ft.

Date of Completion: 5-16-84

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public

☐ Irrigation ☐ Type IIa Public ☐ Heat pump

☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 171 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

7½ in. to 171 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface 1 ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☒ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay		22
Coarse Sand		27
Clay		118
Hard Rock		139
Clay & Gravel		143
Lime Stone		175
Soft Lime & Flowing Sand R.		200
4½" Rock cut.		
Pumped for an hour and was demineralizing		

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Mich. Dept. of Public Health
JUN 29 1984
Bureau of Environmental and Occupational Health CWQS

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8 SCREEN

☒ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

40 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

N.R. 190 ft. after 1 hrs. pumping at 40-50 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☒ 12" above grade

☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 171 ft.

☐ Neat cement ☐ Bentonite ☐ Other Cuttings

No. of bags of cement _____ Additives E Z Mud

13 Nearest source of possible contamination

Type Sewage Distance 100 ft. Direction S

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Owners Goulds

Model number _____ HP 5 Volts 230

Length of Drop Pipe 140 + 35 ft. capacity 7 G.P.M.

TYPE: ☒ ~~Submersible~~ ☒ Jet

PRESSURE TANK

Manufacturer's name A03 Gould

Model number V-60 Capacity 5-7 Gallons

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

*CORRECTED BY

**ADDITION BY

ELEVATION

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ed Bertmeier Well Drilling LTD 1607

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 10251 Baker Rd Vassar Mich

Signed Edward Bertmeier Date 5-16-84

AUTHORIZED REPRESENTATIVE

D67d 02/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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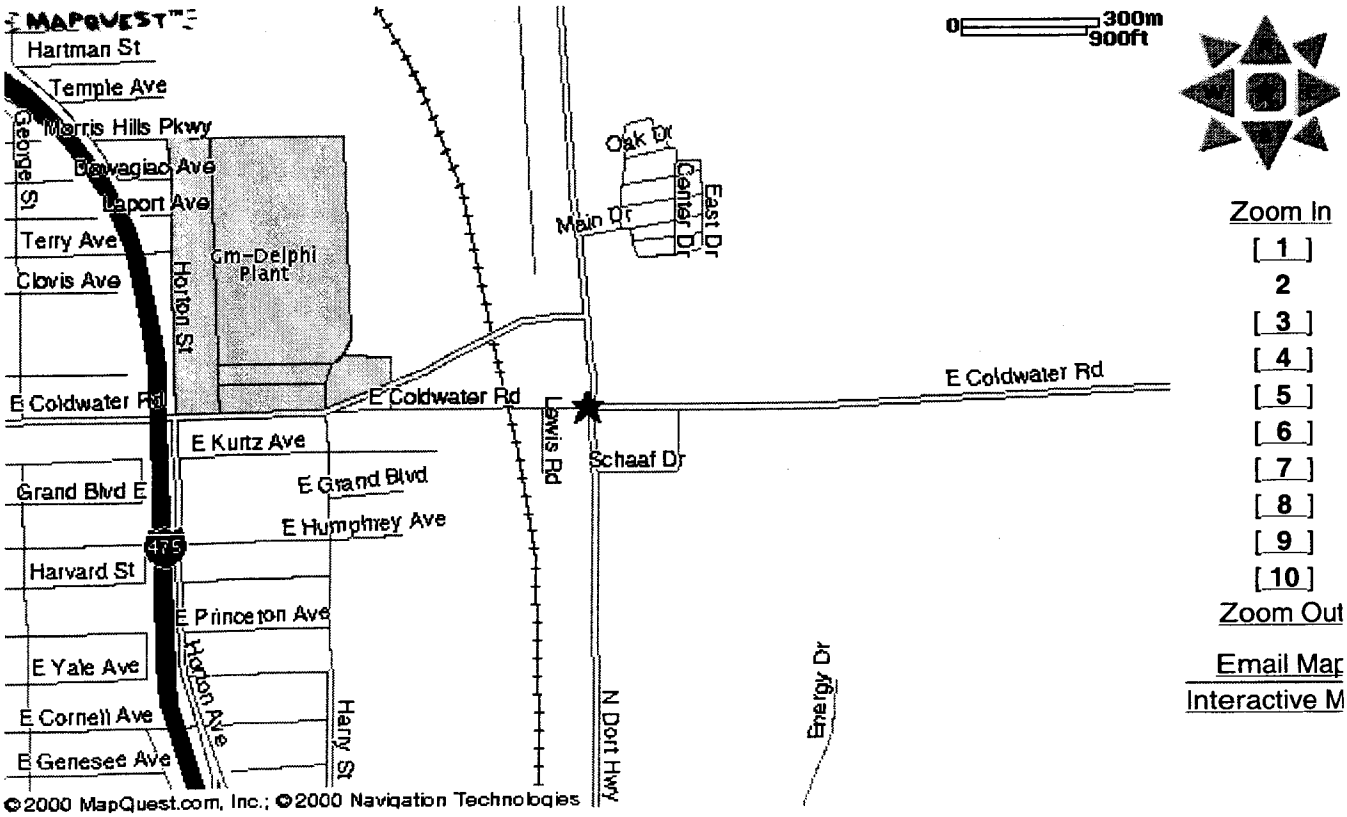
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Coldwater & North Dort Highway, Flint, MI 48505 (16)

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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

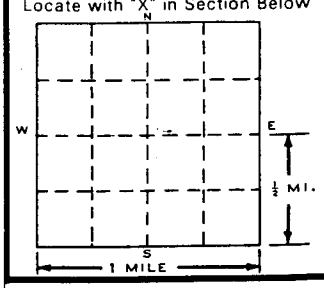
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	8 N/S	7 E/W

Distance And Direction From Road Intersection (17)

Street Address & City of Well Location 2117 Coldwater Rd.

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address Lynetta Eggleston
1955 Laurel Oak Dr.
Flint, MI.

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed) 220 ft. | **Date of Completion** 7.23.86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter 5 in. ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded to 163 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

8 SCREEN: ☐ Not Installed
Type none Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
60 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
220 ft. after _____ hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.
☐ Neat cement ☐ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type Sewer Distance 40 ft. Direction E
Well disinfected upon completion? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name MacDonald
Model number K2 HP ½ Volts _____
Length of Drop Pipe 100 ft. capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name _____
Model number _____ Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	20	20
Gray clay	16	36
Clay & stones	120	156
Shale	4	160
Limestone	25	185
Sandrock	35	220

USE A 2ND SHEET IF NEEDED

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Mich. Dept. of Public Health
AUG 19 1986
Bureau of Environmental and Occupational Health - GWQS

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor Well Drilling 1590
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd., Clio

Signed Brian Taylor Date 8-11-86
AUTHORIZED REPRESENTATIVE

D67d 2/84

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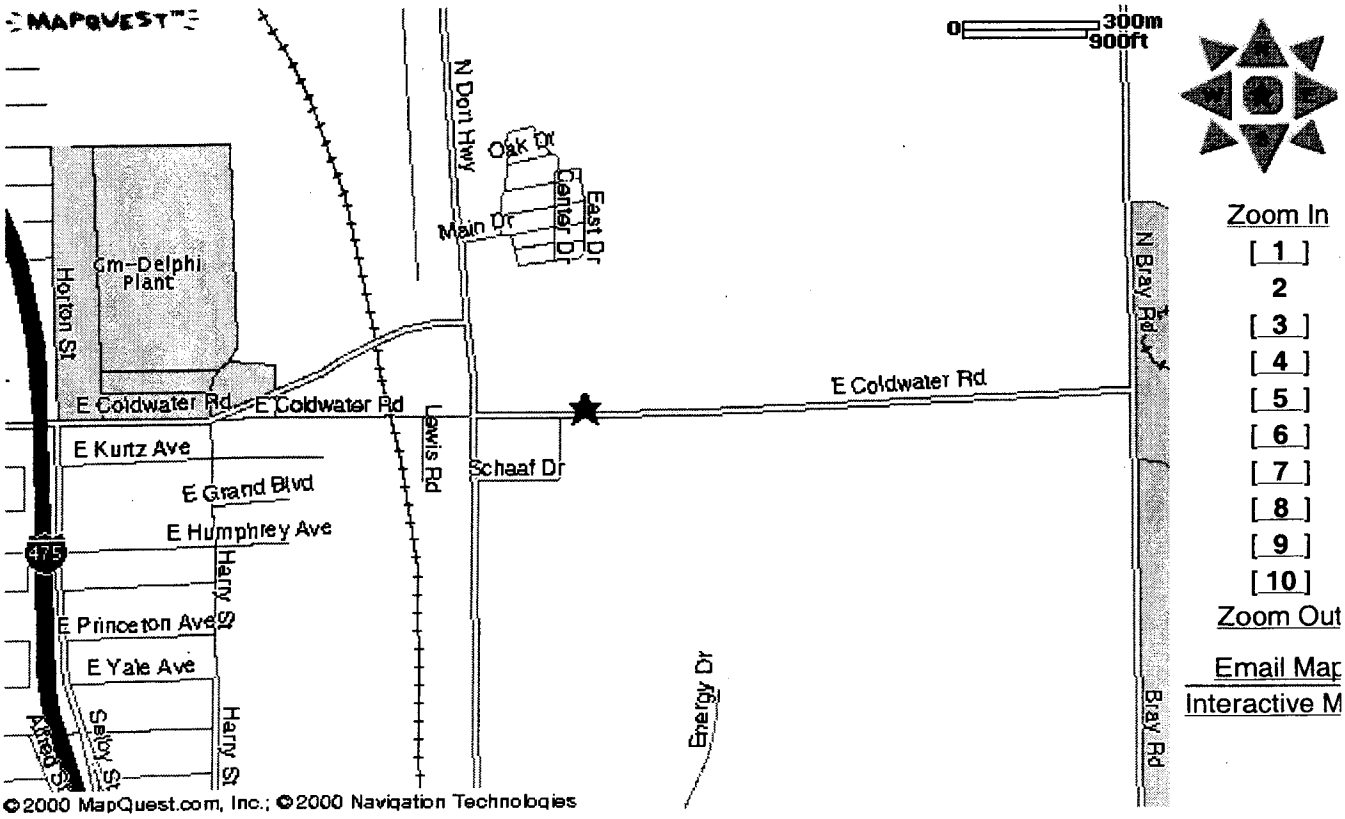
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3 SEP 0 2 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

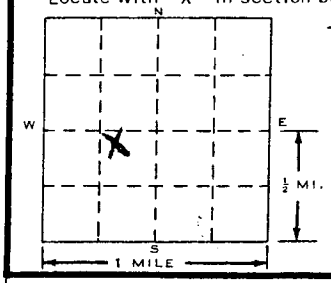
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ NE ¼ SW ¼	20	8 (N) S.	7 (E) W.

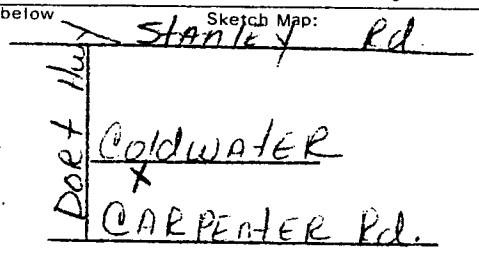
Distance And Direction from Road Intersections: E of Dort Hwy.

Street address & City of Well Location: 2126 E. Coldwater Rd.

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:
Thomas Kerby
Address 2126 E. Coldwater Rd.
Flint, MI (18)

4 WELL DEPTH: (completed) 222 ft. Date of Completion: August 14, 1977

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ] ____

6 USE: [XX] Domestic [ ] Public Supply [ ] Industry [ ] Irrigation [ ] Air Conditioning [ ] Commercial [ ] Test Well [ ] ____

7 CASING: Threaded [X] Welded [ ] Diam. 4 in. to 147 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.; Weight 11 lbs./ft.; Drive Shoe? Yes [XX] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15'	15'
Sand & Gravel	40'	55'
Clay	30'	85'
Clay & Gravel	62'	147'
White Sandstone	75'	222'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL 45 ft. below land surface

10 PUMPING LEVEL below land surface
150 ft. after 3 hrs. pumping 50 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: [ ] In Approved Pit [ ] Pitless Adapter [XX] 12" Above Grade

13 Well Grouted [XX] Yes [ ] No
[ ] Neat Cement [XX] Bentonite [ ] ____
Depth: From 1 ft. to 147 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction sewer Type
Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [XX] Not installed
Manufacturer's Name ____
Model Number ____ HP ____ Volts ____
Length of Drop Pipe ____ ft. capacity ____ G.P.M.
Type: [ ] Submersible [ ] Jet [ ] Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)
Address G-8107 N. Dort Hwy. Mt. Morris, MI
Signed Earl L Lyons (AUTHORIZED REPRESENTATIVE) Date Aug. 15, 1977

D67d 100M (Rev. 12-68)

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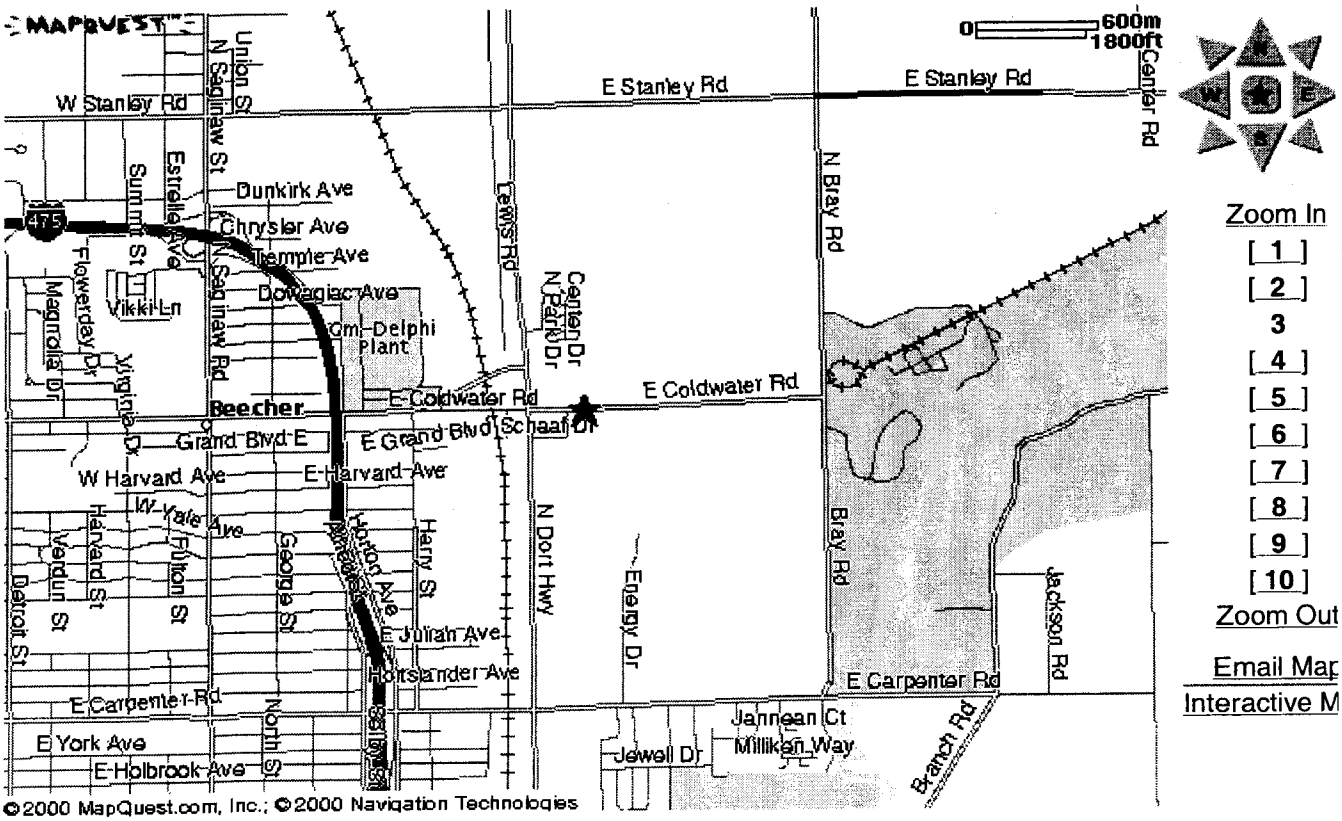
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

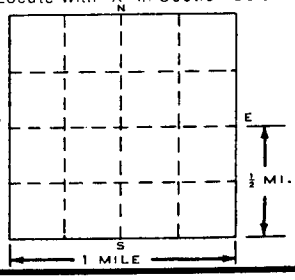
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	¼ ¼ ¼	17	8 N/S	7 E/W

Distance And Direction From Road Intersection
About 0.3 Mile E. of N. Dort Highway
About 75 ft. N. of Coldwater Rd.

Street Address & City of Well Location 2127 E. Coldwater

Locate with "X" in Section Below — Sketch Map



3 OWNER OF WELL: Shirley Murgas (19)
Address 2127 E. Coldwater Rd.
Flint, Mich
Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 223 ft. — **Date of Completion** 10-31-85

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded
5 in. to 160 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 157 ft. depth
_____ in. to _____ ft. depth
Height Above/~~Below~~ Surface _____ ft.
Weight PVC lbs./ft.
~~Drive Shoe~~ ☒ Yes ☐ No
TAPE

8 SCREEN ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft Other _____

9 STATIC WATER LEVEL: 55 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
100 ft. after _____ hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From ~~top~~ to 157 ft
☐ Neat cement ☒ Bentonite ☒ ~~Cuttings~~ Clay Slurry
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SEPTIC Distance 50 ft. Direction N
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Goulds
Model number 10EJ HP 3/4 Volts 230
Length of Drop Pipe 120 ft. capacity 15 G.P.M.
TYPE ☒ Submersible ☐ Jet
PRESSURE TANK
Manufacturer's name A-O Smith
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	12	12
Blue Clay	17	29
GRAVEL	12	41
Blue Clay	103	144
Brown Shale w/	13	157
Strips of Clay	~~20~~	~~187~~
Brown Shale	20	187
Soft Gray Sandstone	36	223

USE A 2ND SHEET IF NEEDED

RECEIVED
[illegible]

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0203
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGOR ST GENESEE, MI

Signed Doug Perin AUTHORIZED REPRESENTATIVE Date 11-2-85

D67d (Rev. 10-80)

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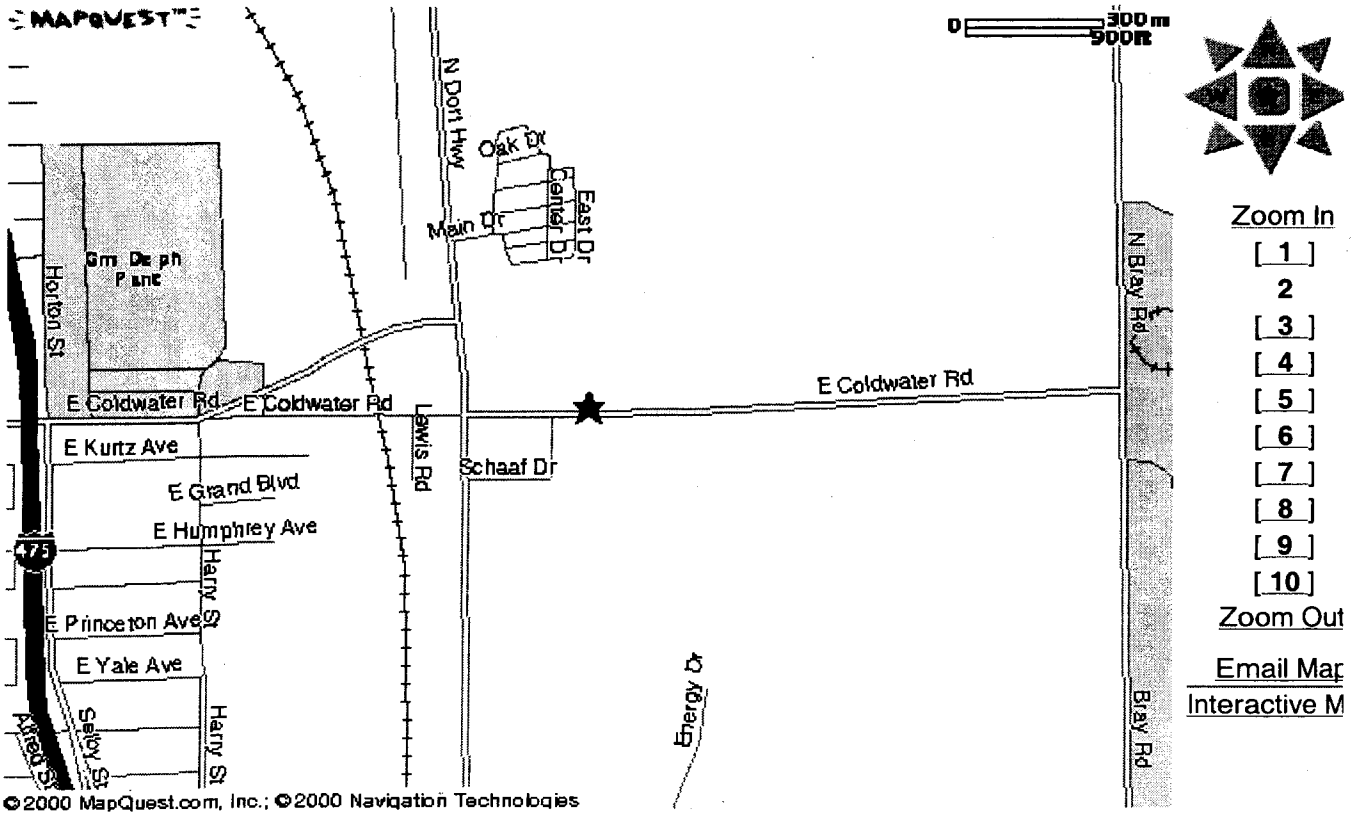
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TAX NO: 38-268-4443

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

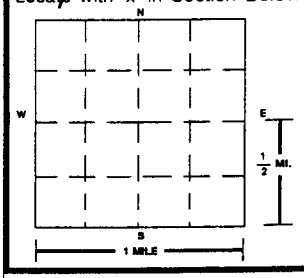
1. LOCATION OF WELL

County	Township Name	Fraction (1/4 1/4 1/4)	Section No.	Town No.	Range No.
Genesee	Genesee		20	T6N	R7E

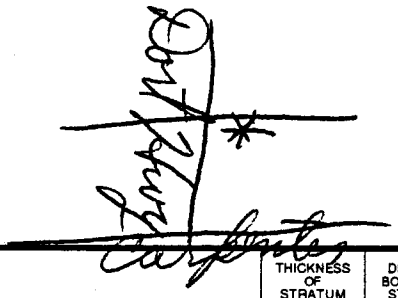
Distance and Direction from Road Intersection: 1300 ft. E. of Dort Hwy on S. Side of Coldwater

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Mr. Chandler 2134 E. Coldwater Rd. Flint, MI 20

Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 220 ft. | Date Completed: 6/29/96 | ☐ New Well ☑ Replacement Well

5. ☐ Cable Tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☑ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☑ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 160 ft. depth; _____ in. to _____ ft. depth
Height: Above/Below Surface: 1 ft
Weight: _____ lbs./ft.
BORE HOLE: Diameter: 7 7/8 in. to 160 ft. depth; 4 1/2 in. to 220 ft. depth
☐ Drive Shoe ☑ Shale Packer

8. SCREEN: ☑ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check ☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 65 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
220 ft. After 1 hrs. Pumping at 30 G.P.M.
☐ Plunger ☐ Bailer ☑ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☑ Pitless Adapter ☑ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☑ Yes From 0 to 160 ft.
☐ Neat Cement ☑ Bentonite ☐ Other _____
No. of Bags 11 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 22 ft. Direction N
Type _____ Distance _____ ft. Direction _____

2. FORMATION DESCRIPTION

	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	42'	42'
Gray Clay	88'	130'
Shale	30'	160'
Sand Stone	60'	220'

USE A 2ND SHEET IF NEEDED

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name: Sta Rite
Model Number _____ HP 1/2 Volts 230
Length of Drop Pipe 160 ft. Capacity 10 G.P.M.
TYPE: ☐ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name: Challenger
Model Number P.C. 66 Capacity 6 Gallons 40

15. ABANDONED WELL PLUGGED? ☑ Yes ☐ No
Casing Diameter 2 in. Depth 2 ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☑ Bentonite Chips
No. of Bags 2 Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
REGISTERED BUSINESS NAME: Thomason Well Drilling REGISTRATION NO. 1276
Address: 4184 N. Center Rd. Flint
Signed: John Thomason (AUTHORIZED REPRESENTATIVE) Date: 6-29-96

'. DRILLING MACHINE OPERATOR:
☐ Employee ☑ Subcontractor
Name: Ed Burkmeier

GW-2-228 9/93

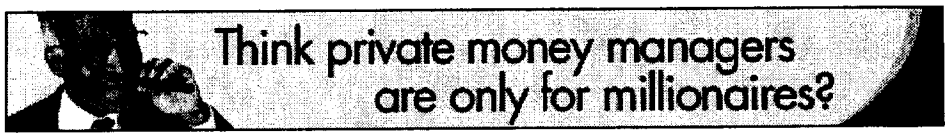
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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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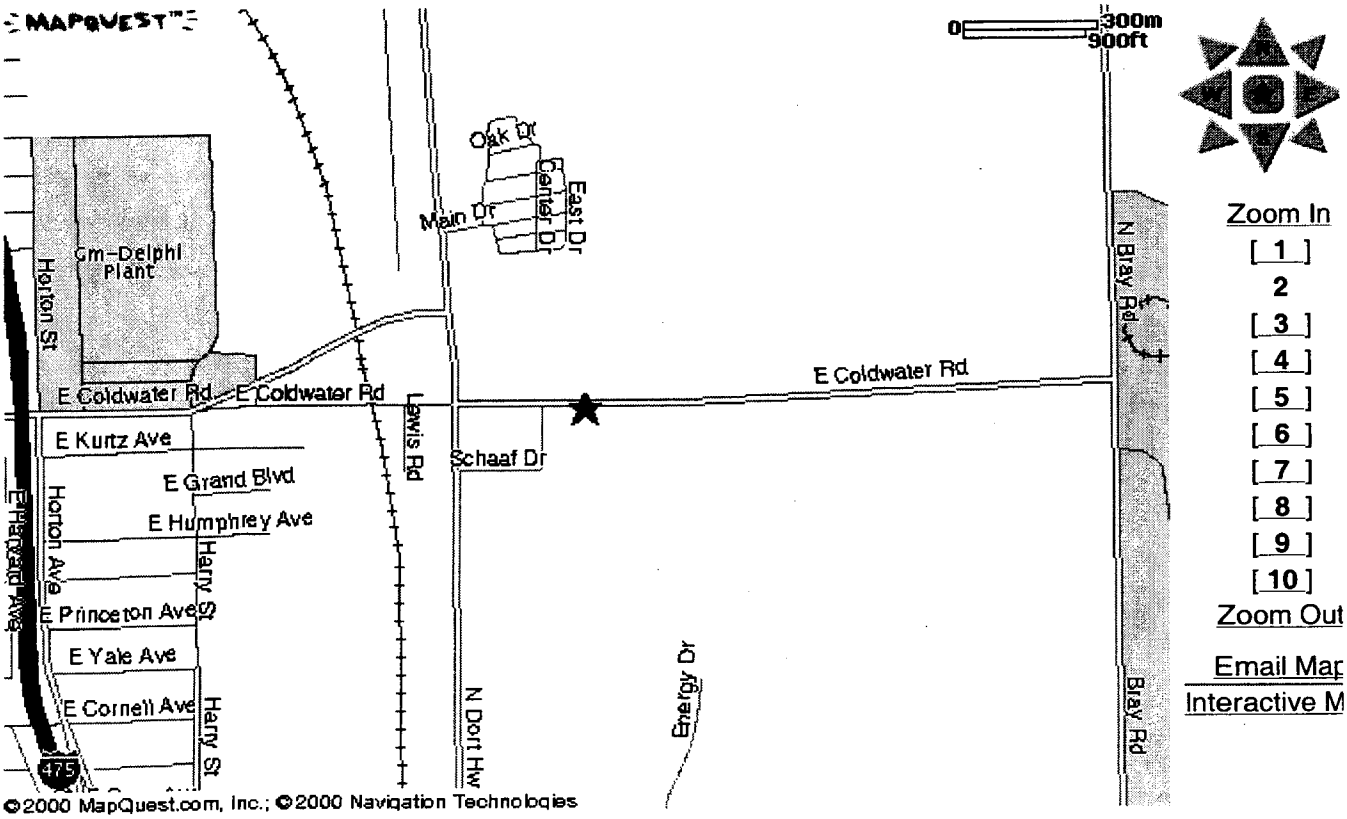
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

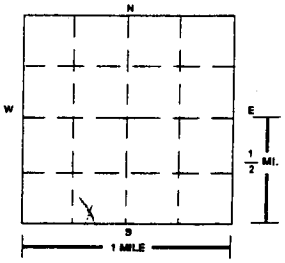
PERMIT NO:

1. LOCATION OF WELL

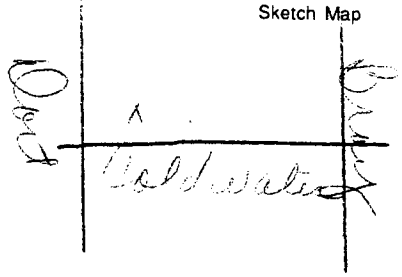
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 SE 1/4 SW 1/4	17	8	7

Distance and Direction from Road Intersection
Between: Dort and Bray Rd.
OFF: Coldwater Rd.
2135 Coldwater Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Genesee Power Station
5315 Engery Dr.
Flint, MI.
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 200 ft. | Date Completed 06/09/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 162 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 162 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer
SHALE BOOT

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	120	120
Clay and Gravel	15	135
Gravel	19	154
Limestone	21	175
Green Sandstone	25	200

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
90 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
180 ft. After 2 hrs. Pumping at 50 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 152 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type San. Sewer Distance _____ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Red Jacket 75GEW1 .75 230
Model Number _____ HP _____ Volts _____
Length of Drop Pipe 140 ft. Capacity 10 G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 202 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 06/19/1996
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Completion: Required
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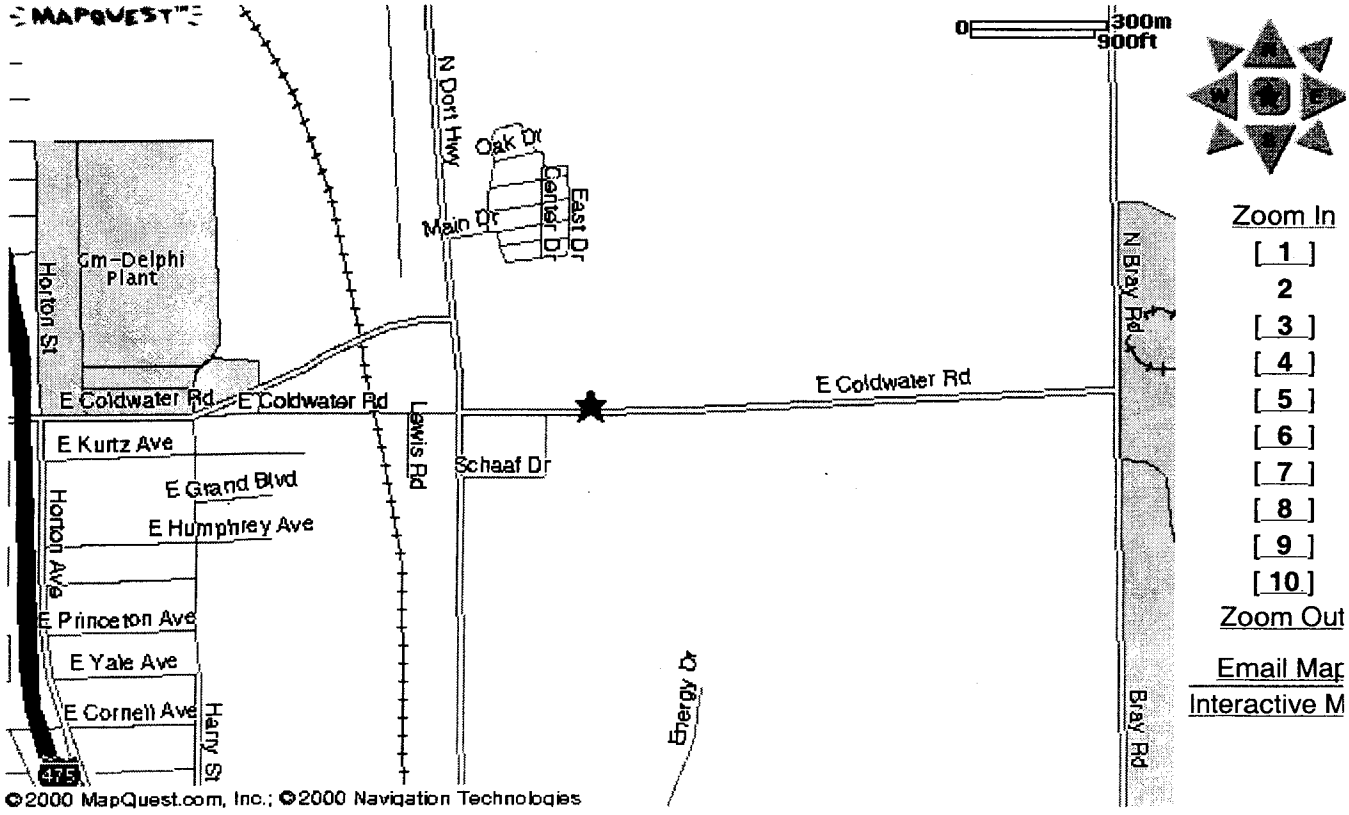
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SEP 02 1977

3

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

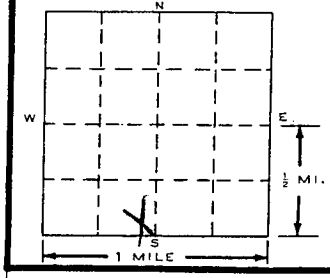
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE ¼ SE ¼ SW ¼	17	8 N/S.	7 E/W.

Distance And Direction from Road Intersections

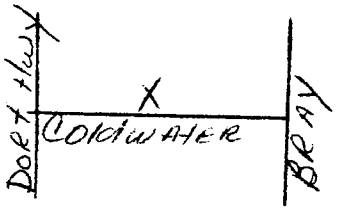
E of Dort Hwy. W of Bray Rd. N side

Street address & City of Well Location 2153 E. Coldwater Flint

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Joe Murgas

Address 2135 E. Coldwater Rd. Flint, MI

4 WELL DEPTH: (completed)

202 ft.

Date of Completion: July 9, 1977

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry

☐ Irrigation ☐ Air Conditioning ☐ Commercial

☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

Diam. 2 in. to 147 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft.

Weight 3.65 lbs./ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

50 ft. below land surface

10 PUMPING LEVEL below land surface

150 ft. after 3 hrs. pumping 10 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted?

☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From 1 ft. to 147 ft.

14 Nearest Source of possible contamination

50 feet W Direction septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name F & W

Model Number C6269 H HP 1 2 stage Volts 110

Length of Drop Pipe 63 ft. capacity 9 G.P.M.

Type: ☐ Submersible

☒ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	15'	15'
Clay & Gravel	110'	125'
Gravel	15'	140'
Limestone	10'	150'
Gray Sandstone	52'	202'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

CORRECTED BY JJ 1/25/83

ADDITION BY

ELEVATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING — REGISTERED BUSINESS NAME

0032 — REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl L Lyons — AUTHORIZED REPRESENTATIVE

Date July 12, 1977

D67d 100M (Rev. 12-68)

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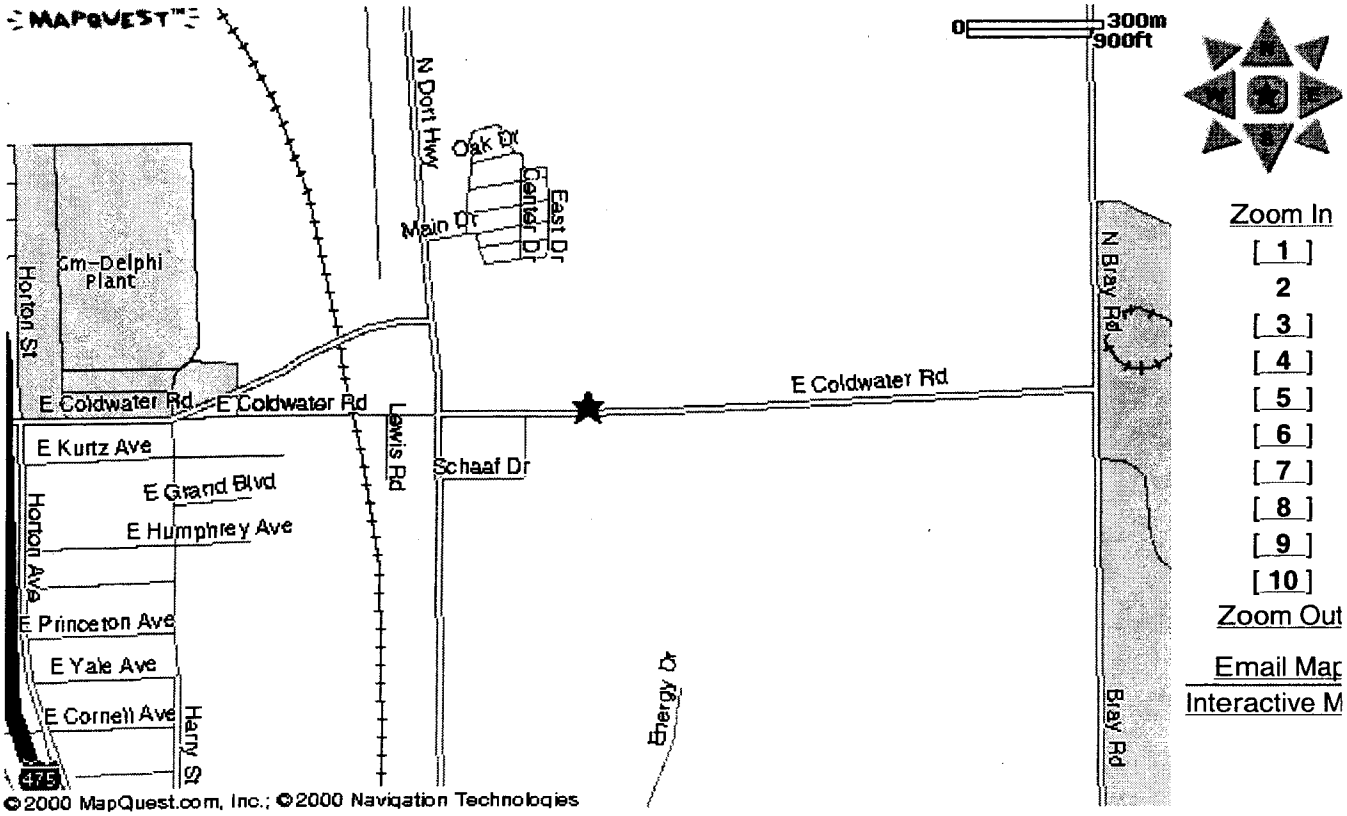
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

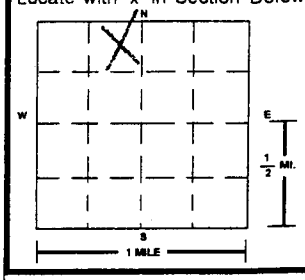
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NE/4 NW1/4	20	8 N	7 E

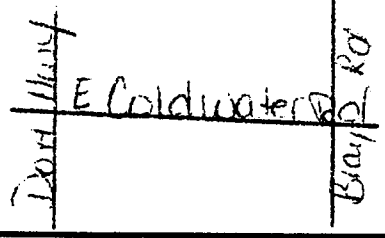
Distance and Direction from Road Intersection
Between Dort Hwy & Bray Rd on South.

Street Address & City of Well Location 2182 E Coldwater Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Ken Loewen
Address 2182 E Coldwater Rd
Flint MI

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 226 ft. | Date Completed 11 /12 /96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 147 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 147 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs/ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	128	128
sandstone, shale	18	146
lime & sandstone	80	226

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
85 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
226 ft. After _____ hrs. Pumping at 30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 147 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type septic Distance 50+ ft. Direction NW
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 140 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No Buried, location unknown
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner taking responsibility for plugging old well! Owner understands that the water table in this area is declining!!!

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 Lewis Rd Clio
Signed Brad Taylor Date 12 26 96
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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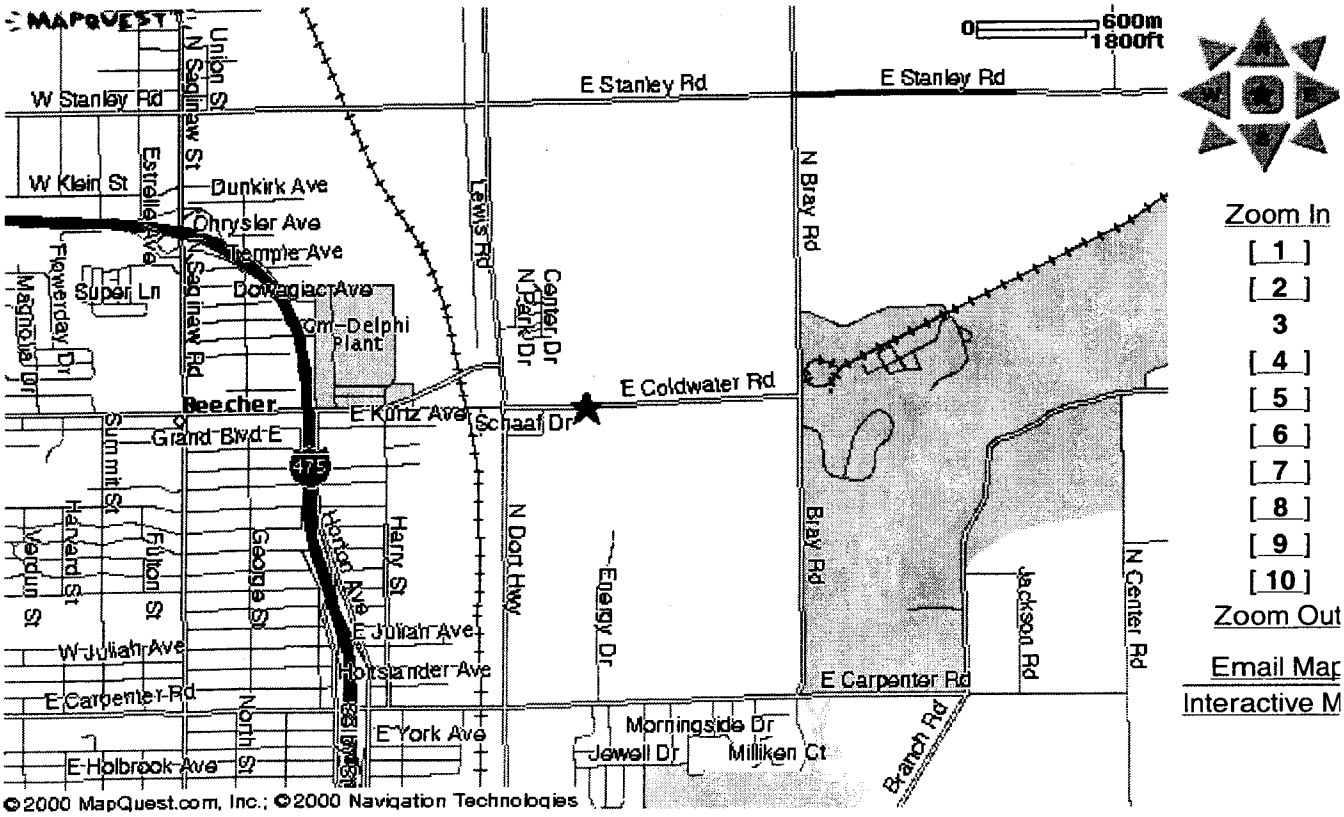
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2182 E. Coldwater Road, Flint, MI 48505-1817 23

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GEOLOGICAL SURVEY SAMPLE No.

SEP 0 5 '72

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

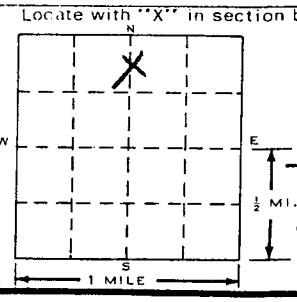
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE¼ NE¼ NW¼	20	8 N/S.	7 E/W.

Distance And Direction from Road Intersections

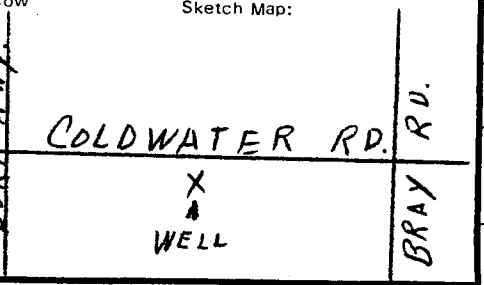
½ Mi. E. Dort Hwy.
½ Mi. W. Bray Rd.

Street address & City of Well Location 2184 E. Coldwater Rd. Flint

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: 24

Address: Ace Asphalt Co.
2184 E. Coldwater Rd.
Flint, Michigan

4 WELL DEPTH: (completed) 224 ft. Date of Completion July 1972

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 6 in. to 117 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft. Weight 19.45 lbs./ft. Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
46 ft. below land surface

10 PUMPING LEVEL below land surface
100 ft. after 2 hrs. pumping 150 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 117 ft.

14 Nearest Source of possible contamination
75 feet N W Direction Septic Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Rapidayton
Model Number 4T5AC50 HP 5 Volts 230
Length of Drop Pipe 105 ft. capacity 100 G.P.M.
Type: ☒ Submersible ☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & fine gravel	21'	21'
Clay & gravel	10'	31'
Clay with gravel embedded	73'	104'
Shale, black	2'	106'
Lime stone, broken	3'	109'
Sand rock, soft	7'	116'
Lime stone	19'	135'
Sand rock, soft	4'	139'
Lime stone, hard, brown	20'	159'
Shale, blue	12'	171'
Lime stone& sand rock layers	53'	224'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

DRILLER, LEAD HAND

BY:

ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling — REGISTERED BUSINESS NAME
0032 — REGISTRATION NO.

Address: 8107 N. Dort Hwy. Mt. Morris, Michigan

Signed Earl L Lyons — AUTHORIZED REPRESENTATIVE
Date July 1972

D67d 100M (Rev. 12-68)

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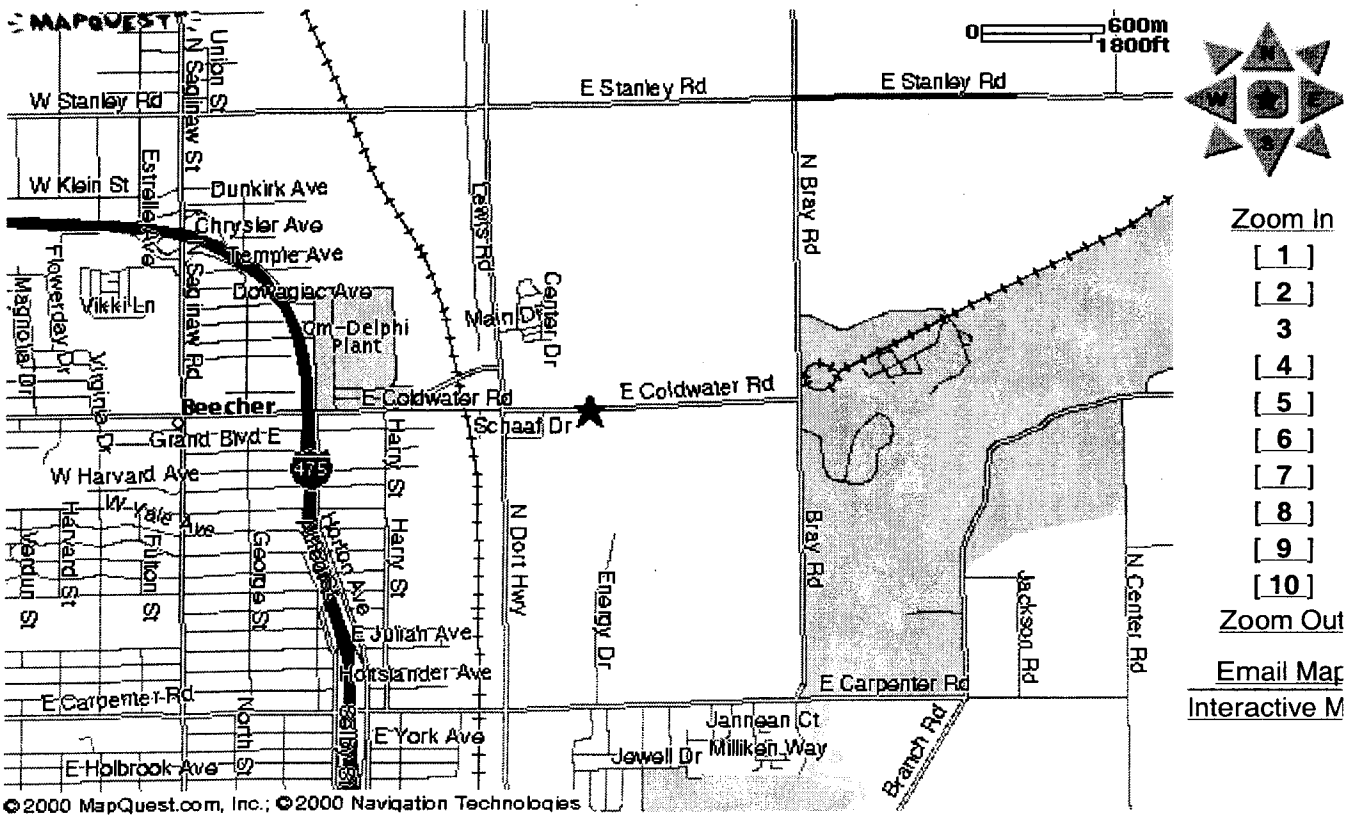
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★ **2184 E. Coldwater Road, Flint, MI 48505-1817** 24

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

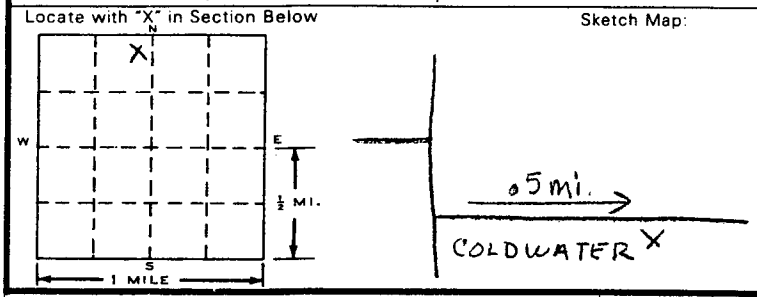
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ NE ¼ NE ¼	20	3 N/S	7 E/W

Distance And Direction From Road Intersection

.5 mi. East of Dort Highway on the South side of Coldwater

Street Address & City of Well Location 2264 E. Coldwater

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Don Brege, 5224 N. Byron Rd., Corunna, Mi. 48817

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: 200 FT. Date Completed MO. 5 DAY 16 YEAR 84 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 117 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

8¼ in. to 117 ft. depth

4½ in. to 200 ft. depth

Height: Above/Below — Surface 1 ft. Weight ____ lbs./ft. Drive Shoe ☐ Yes ☒ No

8 SCREEN: ☐ Not Installed

Type ____ Diameter ____

Slot/Gau ____

Set betv (84) ____

FITTING ____ remer Check

☐ Bla ____

9 STATIC 1607 ☐ Flow

10 PUMPI air 1 2 G.P.M.

____ ft. after ____ hours ____ G.P.M.

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	22	22
Coarse Sand	5	27
Clay	91	118
Sand Rock	16	134
Clay and Gravel	9	143
Limestone	32	175
Gravel flowing into rock	25	200
4½" Rock cut		
Pumped for an hour sand		
was diminishing		

USE A 2ND SHEET IF NEEDED

RECEIVED Mich. Dept. of Public Health DEC 9 1988 Bureau of Environmental Health - EWS

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes from 1 to 117 ft.

☐ Neat cement ☒ Bentonite ☐ Other cuttings

No. of bags of cement ____ Additives EZ Mudd

13 Nearest source of possible contamination

Type sewege Distance 60-70 Direction S

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name owners Goulds

Model number ____ HP ½ Volts 110

Length of Drop Pipe 40 drop 35 tail ft. Capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet ____

PRESSURE TANK:

Manufacturer's name A03 Goulds

Model number V60 Capacity 5-7 Gallons

15. Remarks, elevation, source of data, etc.

Rig Operator's Name: Ed Birkmeier

16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ed Birkmeier Well Drilling 1607

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 10655 Easton Rd. New Lothrop, Mi. 48460

Signed Edward Birkmeier Date 5-16-84

AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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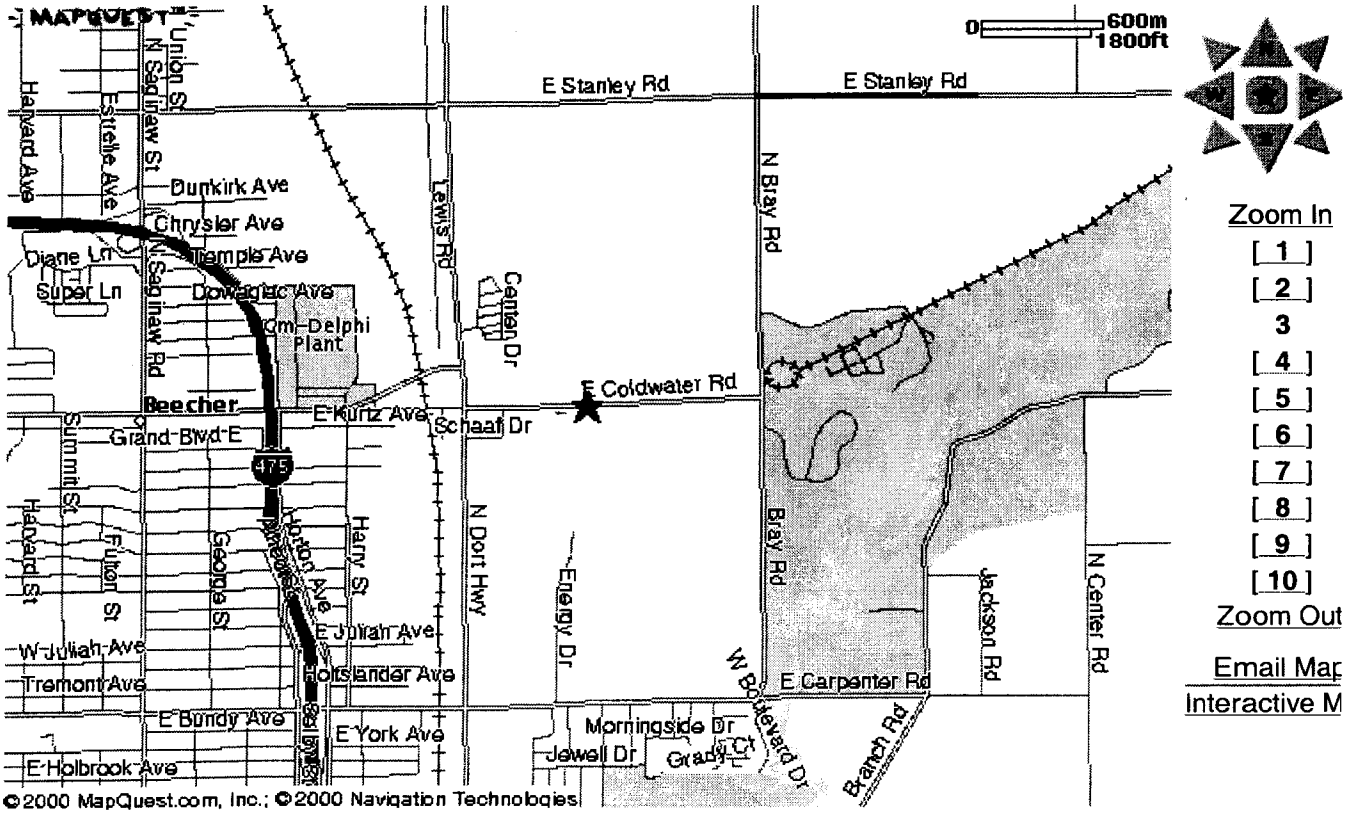
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NUMBER

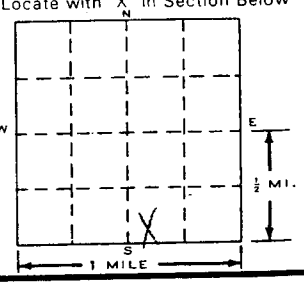
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ SW¼ SE¼	17	8 N/S	7 E/W

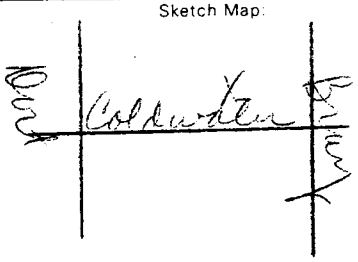
Distance And Direction From Road Intersection: Dort and Bray Rd. N. Side

Street Address & City of Well Location: 2343 Coldwater Rd.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: 26
Johnson Farms
~~Address~~ 2343 Coldwater Rd.
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 200 FT. Date Completed MO. 05 DAY 16 YEAR 94 [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to +2 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter
____ in. to 140 ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
SDR21
Drive Shoe [ ] Yes [ ] No
Shale 140

8 SCREEN: [X] Not Installed
Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL: 50 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
100 ft. after 2 hrs. pumping at 30 G.P.M
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 1 to 140 ft.
[ ] Neat cement [X] Bentonite [ ] Other ____
No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination
Type Septic Distance 50± ft. Direction E
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Red Jacket
Model number 50SEM1-780 HP 1½ Volts 230
Length of Drop Pipe 100 ft. capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet ____
PRESSURE TANK:
Manufacturer's name H.D. Tank
Model number ____ Capacity 0 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	23	23
Gravel	10	33
	102	135
Limestone	27	162
Gray Sandstone	38	200
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
USE A 2ND SHEET IF NEEDED	0	0

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FEB 17 94
ENGINEERING & ENVIRONMENTAL
AND OCCUPATIONAL HEALTH

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Lyons Well Drilling Inc. 1306
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 6-8107 N. Dort Hwy Mt. Morris, MI 48458
Signed ____ Date 02/17/94
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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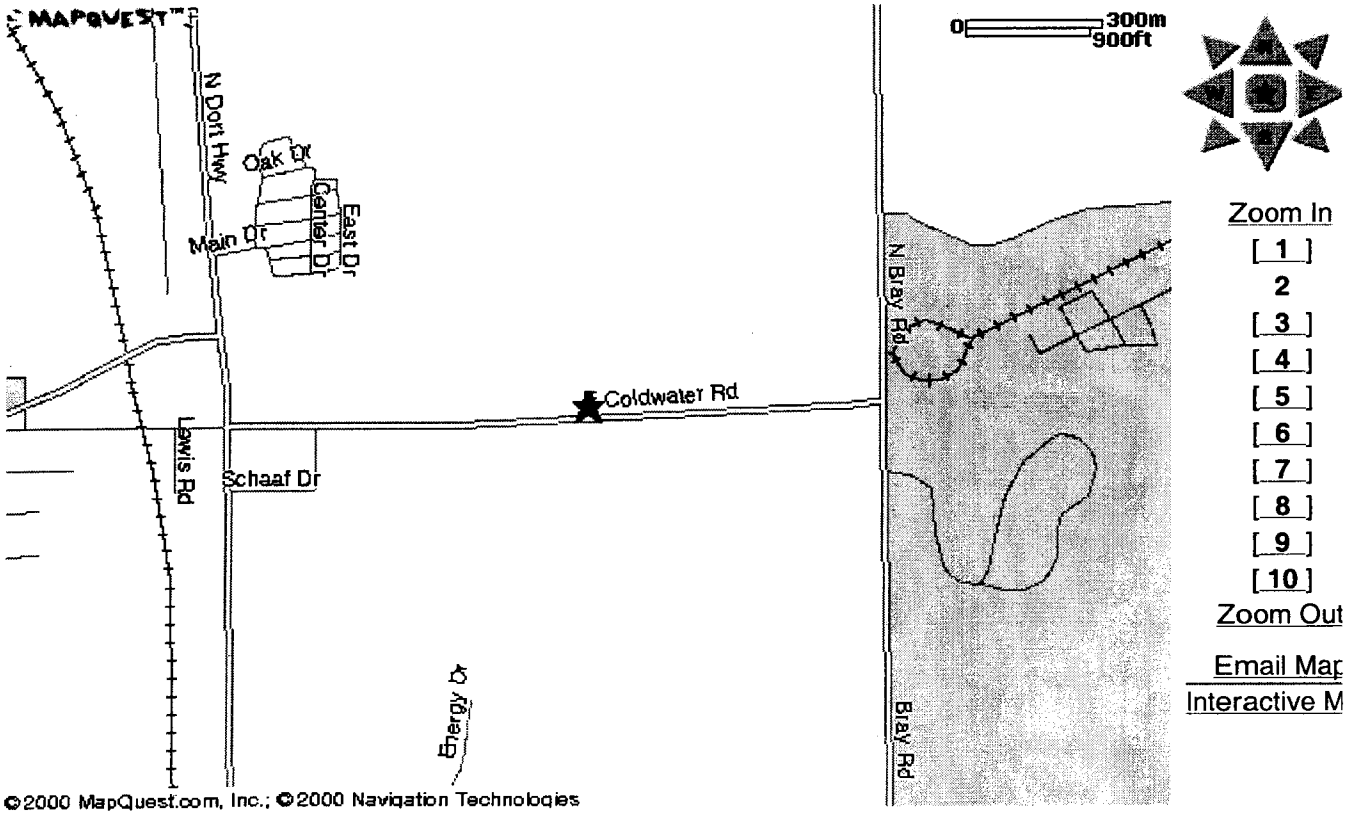
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GEOLOGICAL SURVEY SAMPLE No.

DEC 2 4 1975

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

3

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	½ SW ¼ SE ¼	17	8 (N)/S.	7 (E)/W.

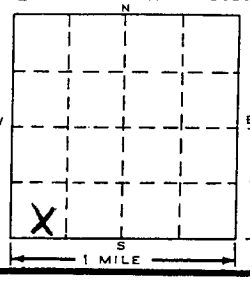
Distance And Direction from Road Intersections

½ mile E. Dort Hwy. N. side

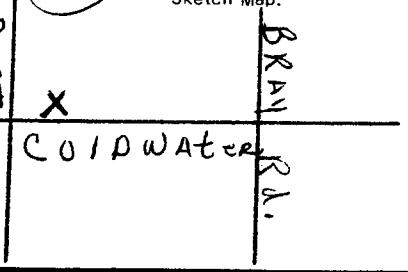
½ mile W. Bray Rd.

Street address & City of Well Location: 2363 Coldwater Rd. Flint

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Don Johnson

Address: 2363 Coldwater Rd.
Flint, MI

4 WELL DEPTH: (completed) Date of Completion

155 ft. Nov. 1975

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry

☐ Irrigation ☐ Air Conditioning ☐ Commercial

☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

Diam. 4 in. to 147 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft.

Weight 11 lbs./ft.

Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	10'	10'
Blue Clay	15'	25'
Sand	7'	32'
Clay & gravel	68'	100'
Gravel	15'	115'
Clay & gravel	31'	146'
Limestone	9'	155'

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

30 ft. below land surface

10 PUMPING LEVEL below land surface

155 ft. after 3 hrs. pumping 33 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13

Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From 1 ft. to 147 ft.

14 Nearest Source of possible contamination

____ feet Direction sewer Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name Rapidayton

Model Number 5P27 HP ½ Volts 230

Length of Drop Pipe 84 ft. capacity 15 G.P.M.

Type: ☒ Submersible

☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

CORRECTED BY

CONDITION BY

LOCATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING 0032

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G8107 N. Dort Hwy. Mt. Morris, Mi

Signed Earl L. Lyons Date Nov. 1975

AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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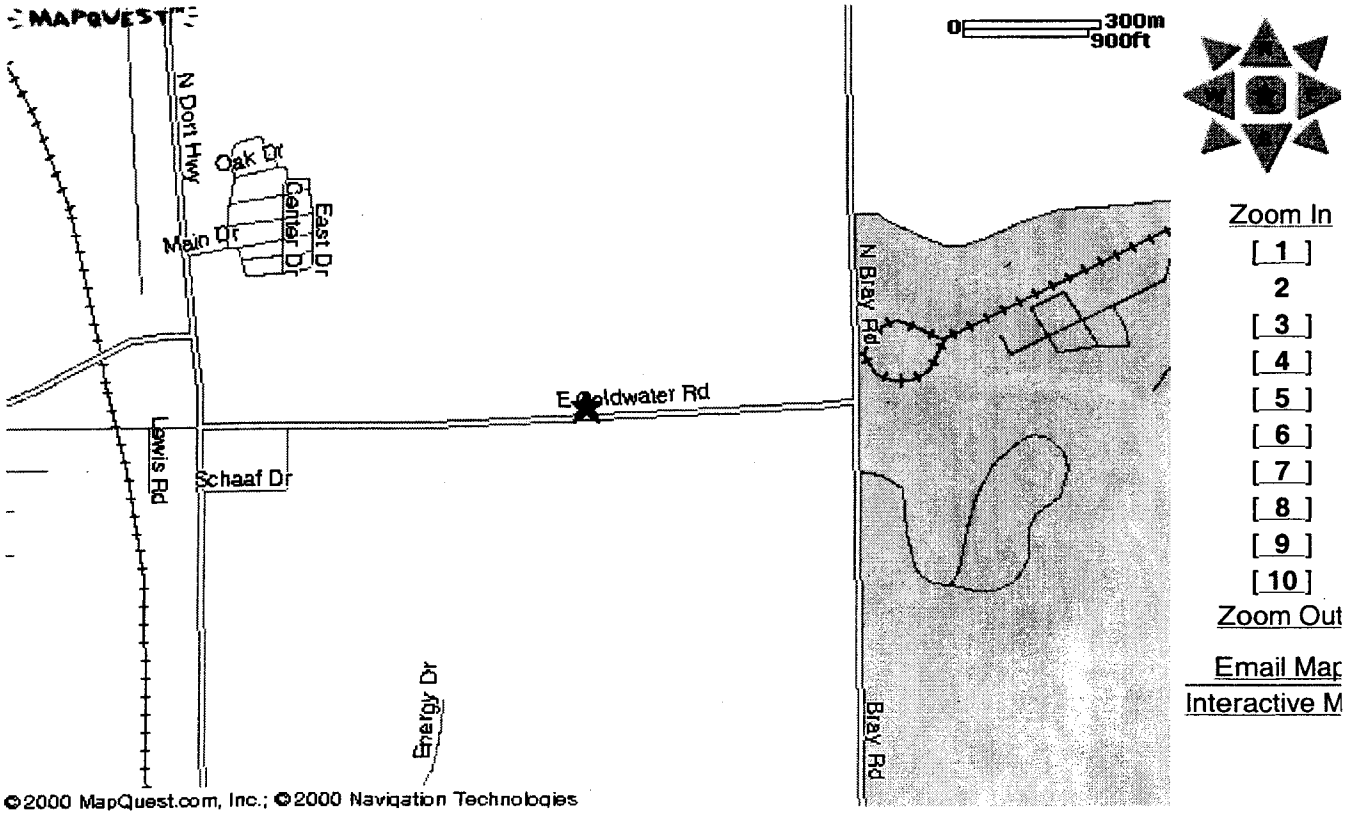
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

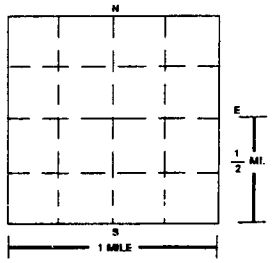
PERMIT NO:

1. LOCATION OF WELL

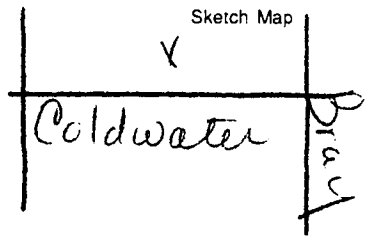
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SE 1/4 NW 1/4 SE 1/4	17	8	7

Distance and Direction from Road Intersection
Between: Dort and Bray Rd.
OFF: Coldwater Rd.
2369 Coldwater Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Johnson Farms
9338 E. Mt. Morris Rd.
Otisville, MI 48463
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 180 ft. | Date Completed 12/22/97 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 141 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 141 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ DR21
☒ Shale Packer
SHALE BOOT

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
73 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
160 ft. After 2 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 141 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Septic Distance 50+ ft. Direction ne

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50SESW0 HP .5 Volts 110
Length of Drop Pipe 120 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Homeowners
Model Number _____ Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	20	20
Clay and Gravel	40	60
Clay	40	100
Clay and Gravel	37	137
Limestone	13	150
Sandstone	30	180

USE A 2ND SHEET IF NEEDED

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Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No
Casing Diameter 2 in. Depth 40 ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☒ Bentonite Chips
No. of Bags 1 Casing Removed? ☒ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name Dan Weber

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed Gary M Prue Date 01/28/1998
AUTHORIZED REPRESENTATIVE

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EQP 2017 (12/96)

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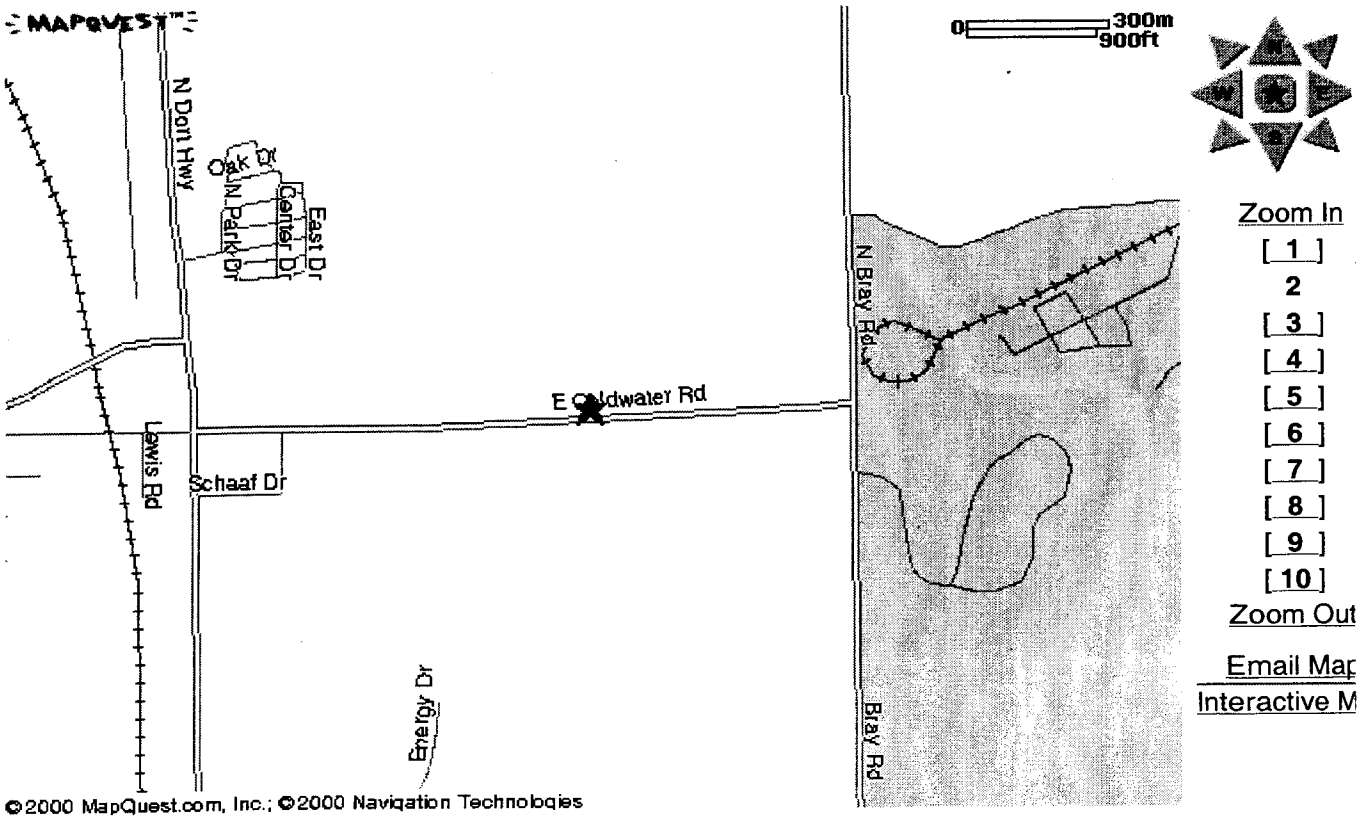
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★ **2369 East Coldwater Road, Flint, MI 48505-1820** (28

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NUMBER

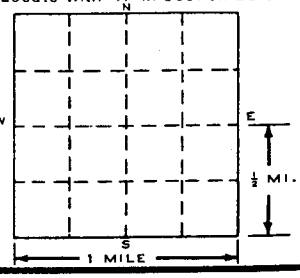
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Landmark And Direction From Road Intersection
ABOUT 150' W of MT. MORRIS RD
ABOUT 90' N of COLLINS ST.

Street Address & City of Well Location 1020 COLLINS

Locate with "X" in Section Below



Sketch Map: 29

3 OWNER OF WELL:
MIKE YOUNG
Address MAPLE RD BRIDGEPORT MI
Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed)
268 ft.

Date of Completion 5-24-85

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:
☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:
Diameter ☐ Steel ☐ Threaded
☒ Plastic ☒ Welded
5 in. to 141 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 141 ft. depth
_____ in. to _____ ft. depth

Height: Above/~~Below~~
Surface _____ ft.
Weight PVC lbs./ft.
~~Drive Shoe~~ ☒ Yes ☐ No
TAPE

8 SCREEN:
☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
89 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
140 ft. after _____ hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:
☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?
☐ No ☒ Yes From TOP to 141 ft.
☐ Neat cement ☒ Bentonite ☒ Other CLAY SLURRY
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SANITARY Distance 10+ ft. Direction S
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP:
☐ Not Installed ☒ Pump Installation Only
Manufacturer's name Goulds
Model number 25EL HP 3 Volts 230
Length of Drop Pipe 140 ft. capacity 30 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name AMTROL
Model number 2-WX251 Capacity 38 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	12	12
BLUE CLAY	14	26
GRAVEL	16	42
BLUE CLAY	95	(137)
BLACK SHALE	71	208
GREEN SANDSTONE W/ STRIPS BROWN SHALE	60	268

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR ST. GENESEE, MI
Signed Doug Perior Date 5-25-85
AUTHORIZED REPRESENTATIVE

D67d 2/84

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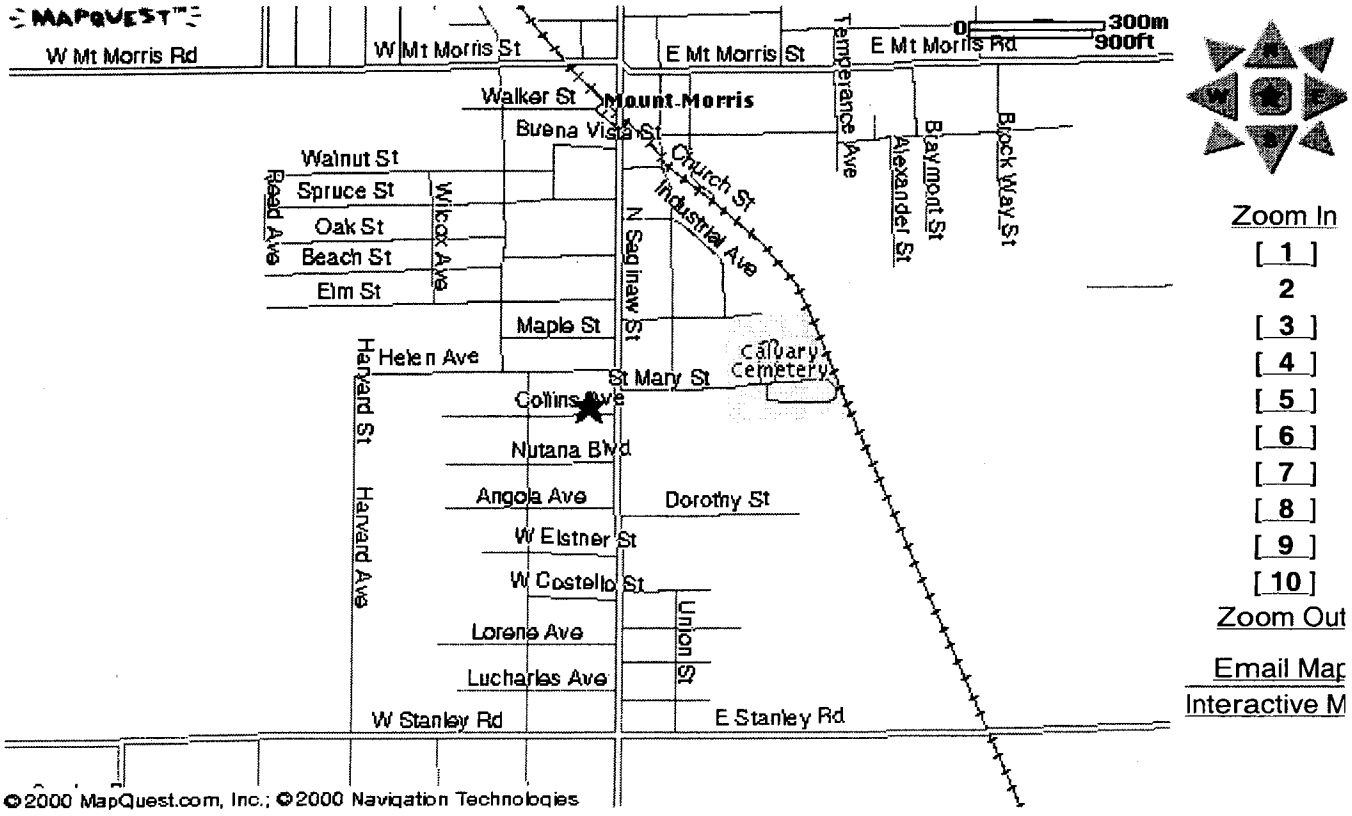
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★ **1020 Collins, Mount Morris, MI 48458-2138**

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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

1 LOCATION OF WELL

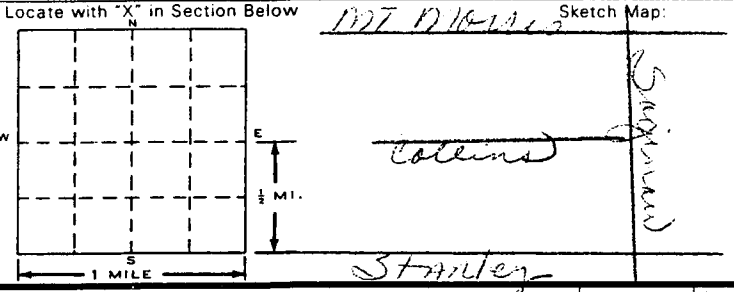
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	8 (N/S)	7 (E/W)

Distance And Direction From Road Intersection

Between Mt. Morris and Stanley off Saginaw

Street Address & City of Well Location: 1033 Collins

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL

Ernie Blood 30
1033 Collins
Address: Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

240 ft.

Date of Completion: 8-3-87

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 155 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 155 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Sdr 21
Drive Shoe [ ] Yes [ ] No
Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	130'	130'
Black Shale	40'	170'
Limestone	55'	225'
Sandstone	15'	240'

8 SCREEN

[ ] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

95 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

200 ft. after 2 hrs. pumping at 50 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 155 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type SEWER Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name: Red Jacket
Model number: 50CNW1 HP: ½ Volts: 230
Length of Drop Pipe: 140 ft. capacity: 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name: Well X-Trol
Model number: 202 Capacity: 20 Gallons

RECEIVED
Mich. Dept. of Public Health
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Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort. Hwy. Mt. Morris, MI.
Signed _____ Date 8-3-87
AUTHORIZED REPRESENTATIVE

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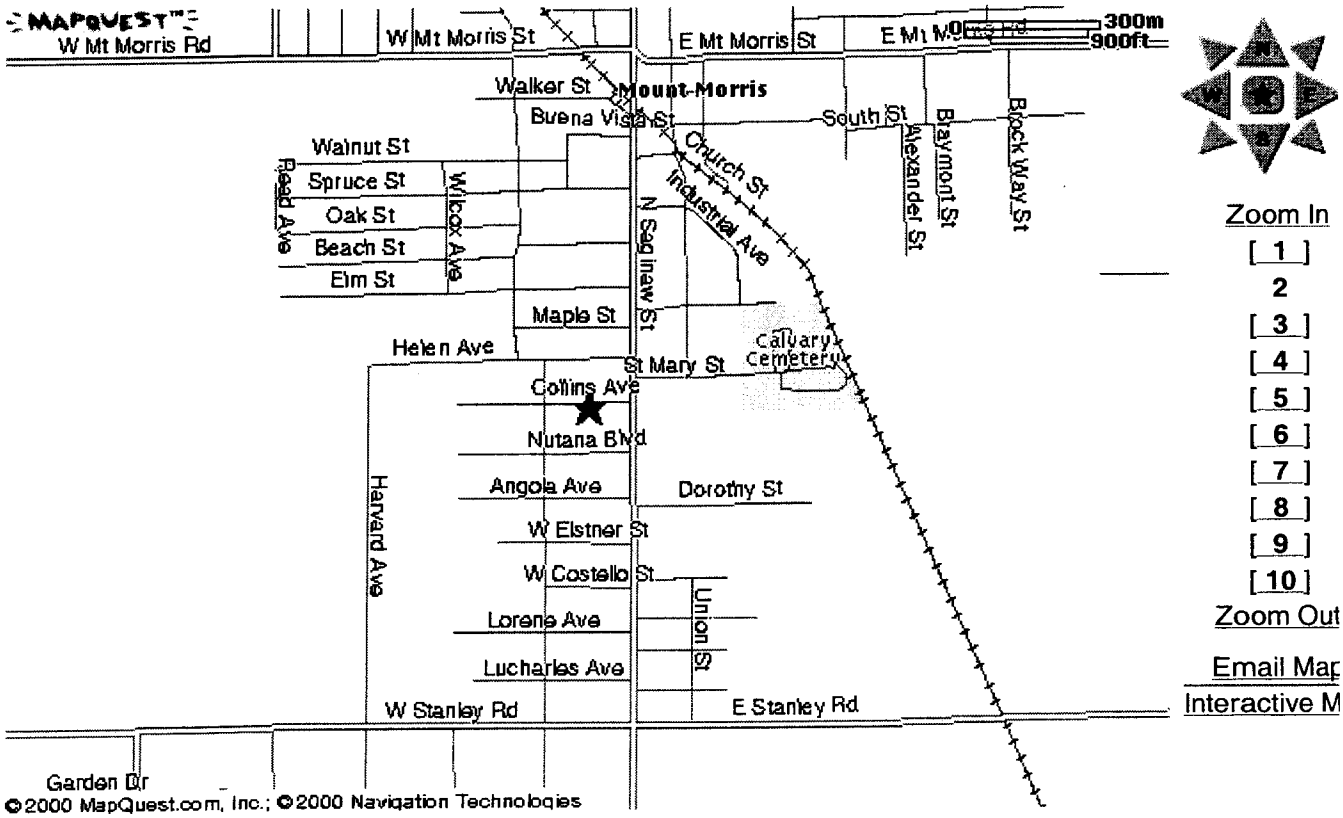
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

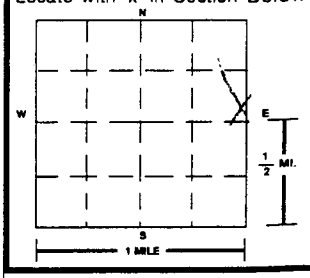
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1. LOCATION OF WELL

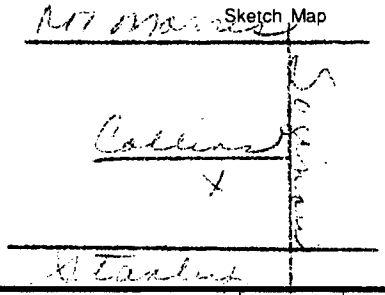
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Mt. Morris	SE 1/4 SE 1/4 NE 1/4	12	8	6

Distance and Direction from Road Intersection
Between: Stanley & Mt. Morris Rd.
OFF: Saginaw St.
1037 Collins
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: M Balderstone
1037 Collins
Mt. Morris, MI. 48458
Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 220 ft. | Date Completed 01/06/97 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 147 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 147 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe GDR21
☒ Shale Packer
SHALE 800?

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Clay	75	85
Gravel	15	100
Clay	30	130
Shale	10	140
Sandstone	10	150
Limestone	30	180
Sandstone	40	220

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
85 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 2 hrs. Pumping at 42 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 147 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags _____ Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 50+ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Red Jacket 3/4 230
Model Number _____ HP _____ Volts _____
Length of Drop Pipe 120 ft. Capacity 12 G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Home owners
Model Number _____ Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 01/13/1997
AUTHORIZED REPRESENTATIVE

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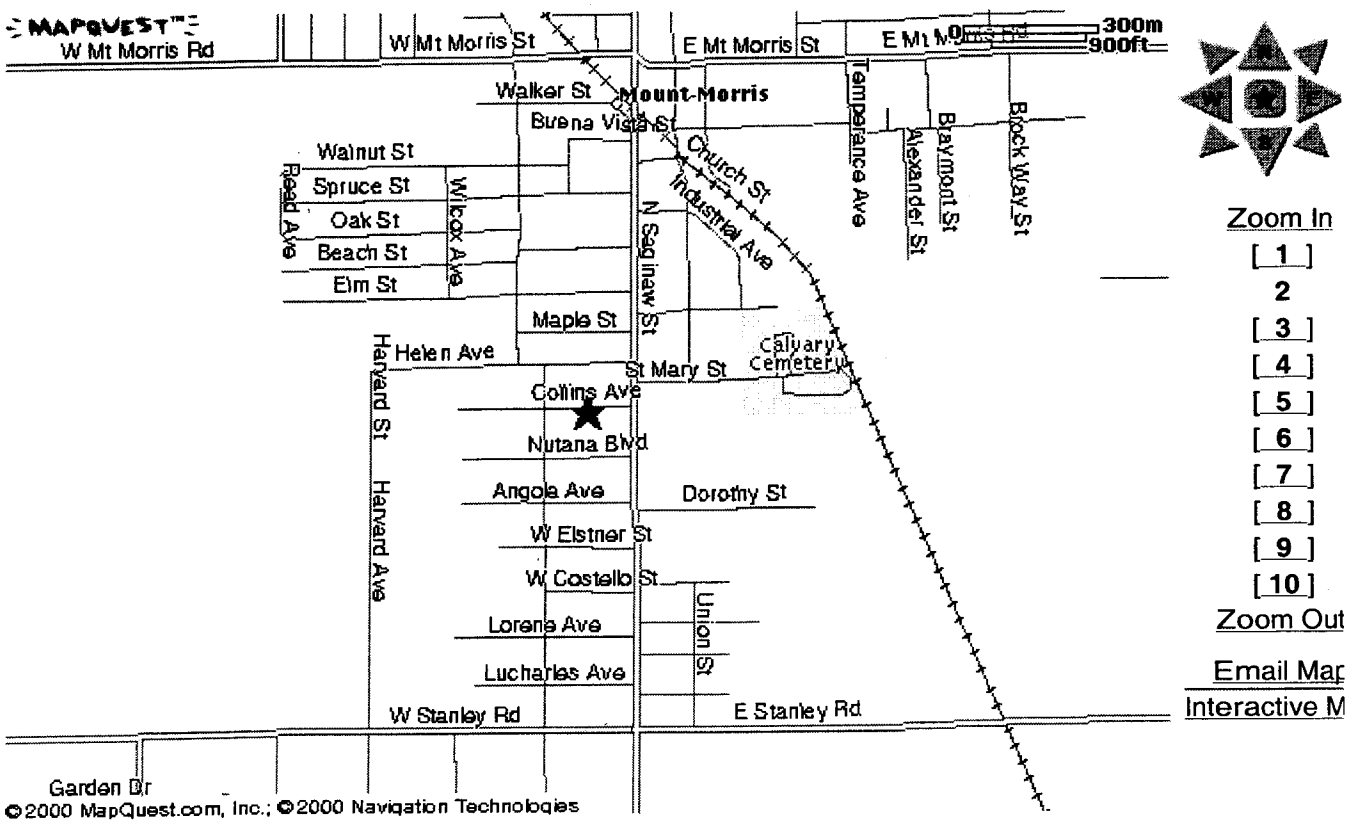
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

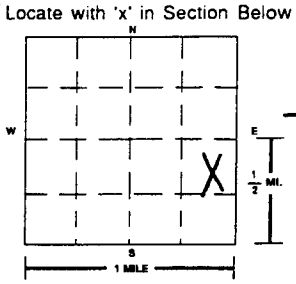
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 NE 1/4 SE 1/4	12	8 N	6 E

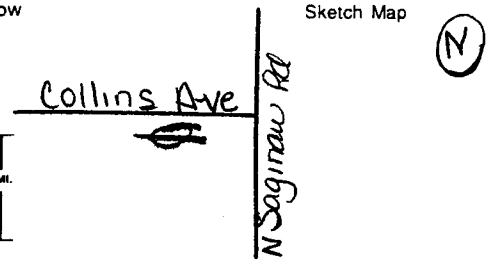
Distance and Direction from Road Intersection: 1 block West off Saginaw Rd on South.

Street Address & City of Well Location: 1045 Collins Ave

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Bill Young
Address: 1045 Collins Ave
Mt Morris MI 32
Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 236 ft. | Date Completed: 3 / 20 / 96 | [ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ] _____

6. USE: [X] Household [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ] _____

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded [ ] Other _____
Diameter: 5 in. to 160 ft. depth; _____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
BORE HOLE: Diameter: 9 in. to 160 ft. depth; _____ in. to _____ ft. depth
[ ] Drive Shoe [X] Shale Packer

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	136	136
shales	14	150
slate & shale	17	167
sandstone & slate	33	200
limestone, very hard	36	236

USE A 2ND SHEET IF NEEDED

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Mich. Dept. of Public Health
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BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check [ ] Blank Above Screen _____ ft. [ ] Other _____

9. STATIC WATER LEVEL: 90 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
236 ft. After _____ hrs. Pumping at 25 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade [ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 0 to 160 ft.
[ ] Neat Cement [X] Bentonite [ ] Other _____
No. of Bags 9 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10 ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 120 ft. Capacity _____ G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? [ ] Yes [X] No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry [ ] Cement/Bentonite Slurry [ ] Concrete Grout [ ] Bentonite Chips
No. of Bags _____ Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well!

DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING — 2082
REGISTERED BUSINESS NAME — REGISTRATION NO.
Address 11103 Lewis Rd Clio
Signed Brad Taylor — Date 4 1496
AUTHORIZED REPRESENTATIVE

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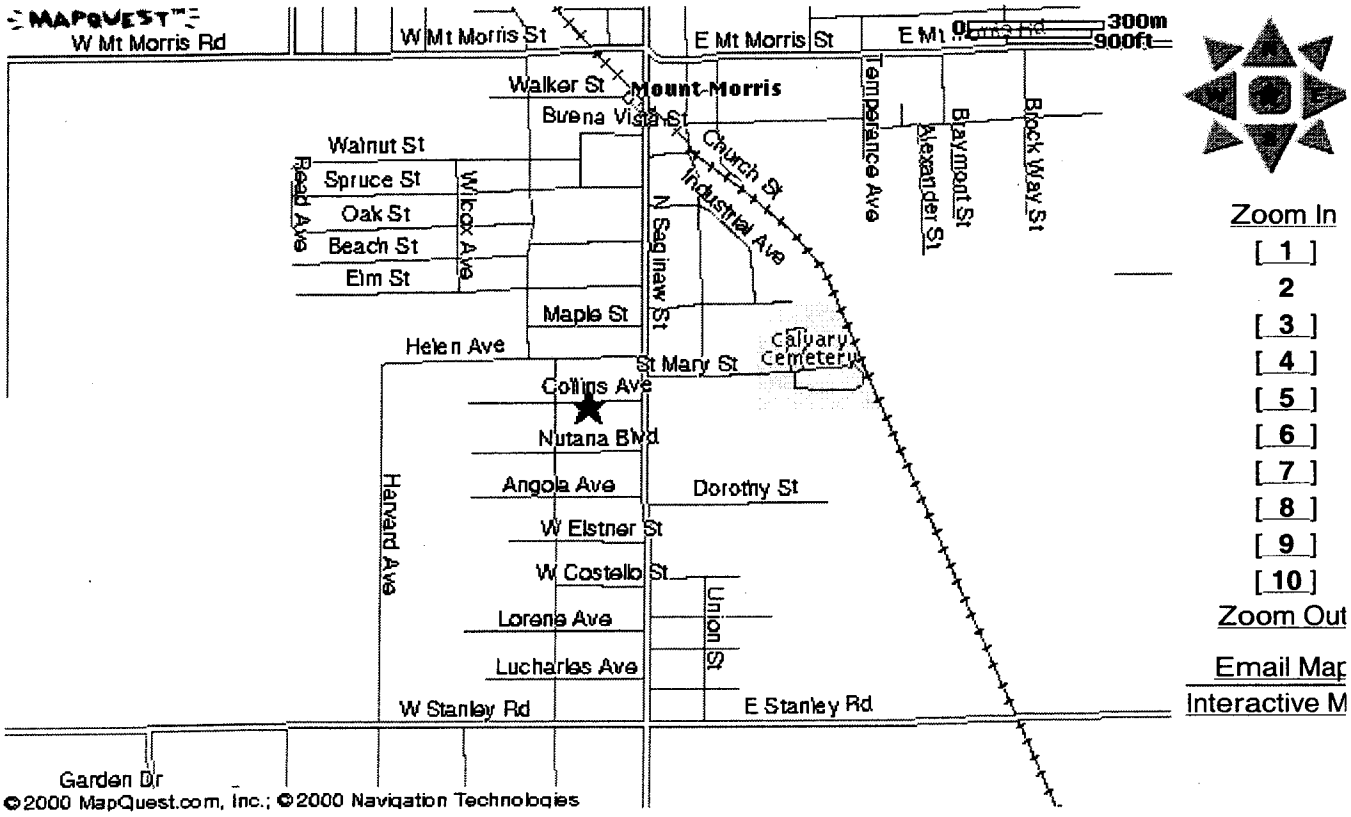
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1045 Collins Avenue, Mount Morris, MI 48458-2120 32

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GEOLOGICAL SURVEY SAMPLE No. _____

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt Morris	¼ ¼SE¼	12	8 N/S	6 E/W

Nearest Intersections And Direction from Road Intersections: 1055 Collins Rd W. of N. Eagle Crest on Collins

OWNER No. _____

Street address & City of Well Location: Eagle 33

3 OWNER OF WELL: Larry McIntosh

Address 9200 Lawn Crest Clio Mich

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	11	11
Blue clay	33	44
Gray Sand	7	51
Blue clay	67	118
Gravely clay	29	147
Sand & Gravel	11	158
Black Shale	16	174
Sand Stone	23	197
Black Shale	14	221
Sand Stone	19	240

4 WELL DEPTH: (completed) 240 ft. Date of Completion 12-15-68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ _____

7 CASING: Diam. 2 in. to 174 ft. Depth; Threaded ☒ Welded ☐; ___ in. to ___ ft. Depth

Height: Above/~~Below~~ surface 1 ft.; Weight 3.73 lbs/ft.; Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: _____ Dia.: _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

Fittings:

9 STATIC WATER LEVEL 65 ft. below land surface

10 PUMPING LEVEL below land surface

90 ft. after 3 hrs. pumping 10 g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☐ No

Material: ☒ Neat Cement ☐ cement grout

Depth: From 0 ft. to 174 ft.

14 SANITARY:

Nearest Source of possible contamination

50 feet S Direction Septic Tank Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: Not Installed

Manufacturer's Name _____

Model Number _____ HP _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

CORRECTED BY: _____

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

_____ REGISTERED BUSINESS NAME

0201 REGISTRATION NO.

Address 2296 E Pierce Rd

Signed Lawrence E Bader AUTHORIZED REPRESENTATIVE Date 12-26-68

D67D 100M 6-66

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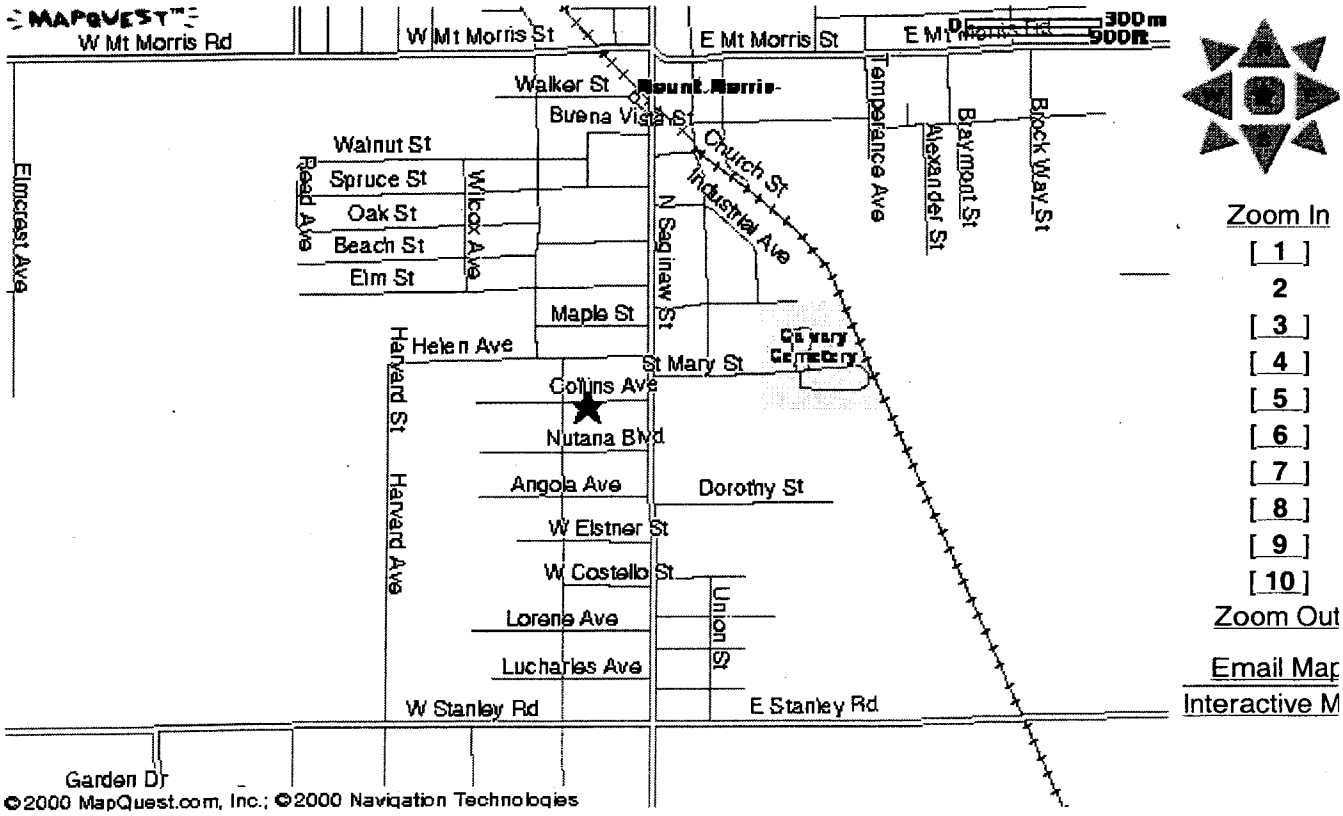
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt. Morris	¼NE ¼SE ¼	12	8 (N/S.)	6 (E)W.

D e And Direction from Road Intersections: ½ mi N. OF STANLEY & SAGINAW RD. W. 500 OFF SAGINAW ST

OWNER No.

Street address & City of Well Location: 1071 Collins Mt. Morris, Michigan

3 OWNER OF WELL:

Address: Dearing Builders 1071 Collins Mt. Morris, Michigan

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	73	73
Clay & Gravel	49	122
Gravel	8	130
Shale	50	180
Sand Stone	53	233

4 WELL DEPTH: (completed) 233 ft. Date of Completion June 28, 1967

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 155 ft. Depth; Threaded ☒ Welded ☐; ___ in. to ___ ft. Depth

Height: Above/Below surface 1 ft.; Weight 3.75 lbs/ft.; Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL

68 ft. below land surface

10 PUMPING LEVEL below land surface

80 ft. after 1 hrs. pumping 10 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☒ Yes ☐ No

Material: ☐ Neat Cement ☐ ~~Drilling Mud~~

Depth: From 0 ft. to 155 ft.

14 SANITARY:

Nearest Source of possible contamination

50 feet S Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name Rapidayton

Model Number 7TA HP 3/4

Length of Drop Pipe 63 ft. capacity 7 G.P.M.

Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER. ITEM NO.

DIRECTED BY:

**ADDITION BY: RB

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Taylor Well Drilling (REGISTERED BUSINESS NAME) 0038 (REGISTRATION NO.)

Address 3230 W. Dodge Rd. Clio, Mich.

Signed T. J. Taylor (AUTHORIZED REPRESENTATIVE) Date 9/21/67

D67D 100M 6-66

OCT 18 1967

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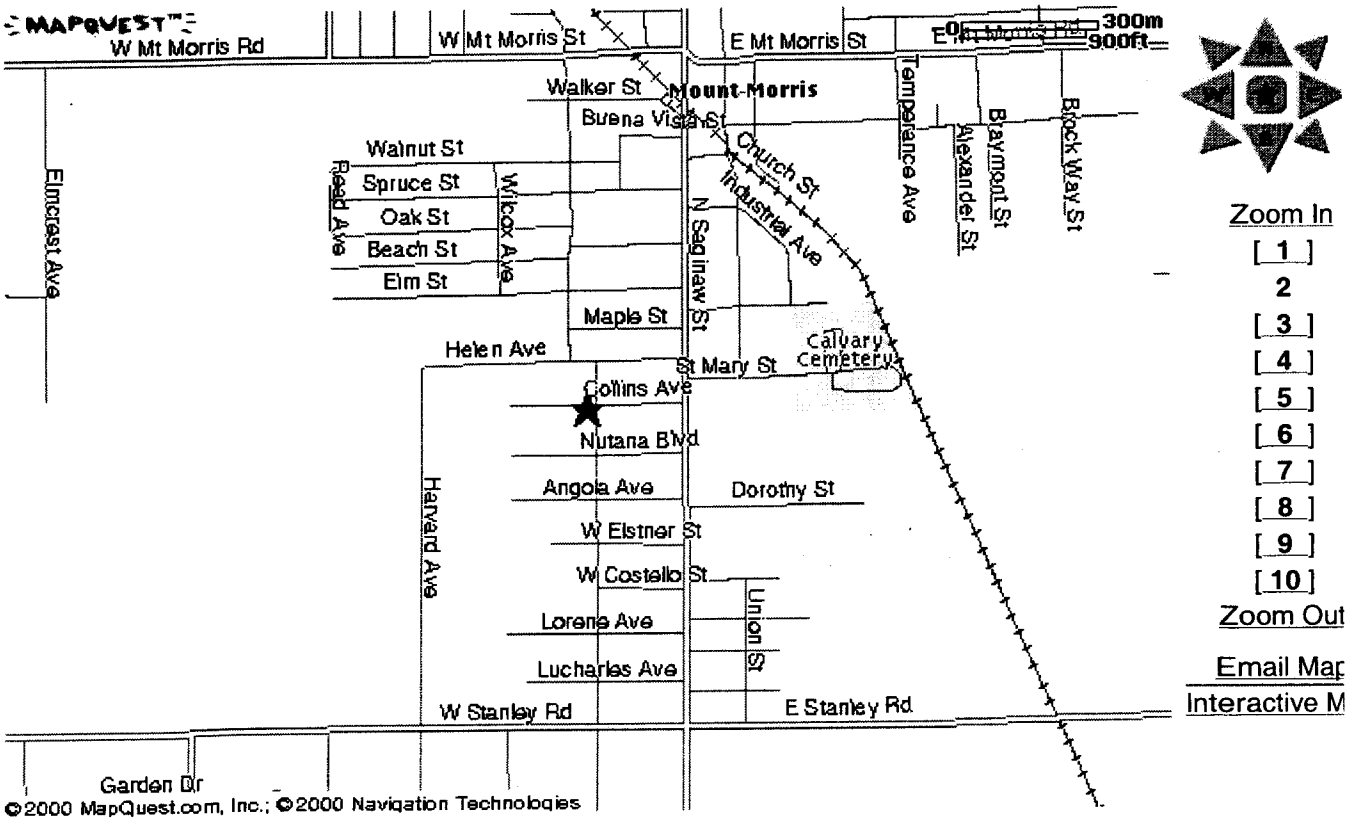
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GEOLOGICAL SURVEY SAMPLE No.

FEB 04 1981

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

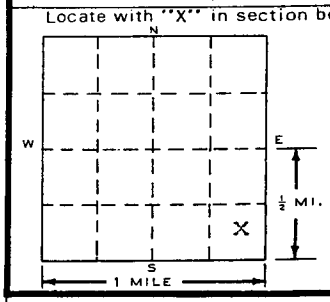
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Norris	NE ¼ NE ¼ SE ¼	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections

Street address & City of Well Location 1023 W. Castello

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL:

(35)

Address Shirley Barette
1023 W. Castello
Mt. Morris, Mi

4 WELL DEPTH: (completed) Date of Completion

245 ft. 7-16-80

5

☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☑ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☑ Welded ☐ Diam.

5PL in. to 169 ft. Depth
____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe? Yes ☑ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	18	30
Sand * Gravel	21	51
Blue Clay	60	111
Blue Clay & Stones	16	127
Blue Clay	30	157
Shale	8	165
Sandstone	18	183
Shale	12	195
Limestone	20	215
Sandstone	30	245
USE A 2ND SHEET IF NEEDED		

8 SCREEN:

Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL

~~120~~ ft. below land surface

10 PUMPING LEVEL below land surface

120 ft. after 2 hrs. pumping 20 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☑ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☑ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

____ feet ____ Direction ____ Type
Well disinfected upon completion ☑ Yes ☐ No

15 PUMP:

☐ Not installed
Manufacturer's Name Myers
Model Number 52H72-711 HP 3/4 Volts 220
Length of Drop Pipe 160 ft. capacity 11 G.P.M.
Type: ☑ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, JAN 82.
CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Sekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed [signature] Date 1-23-81
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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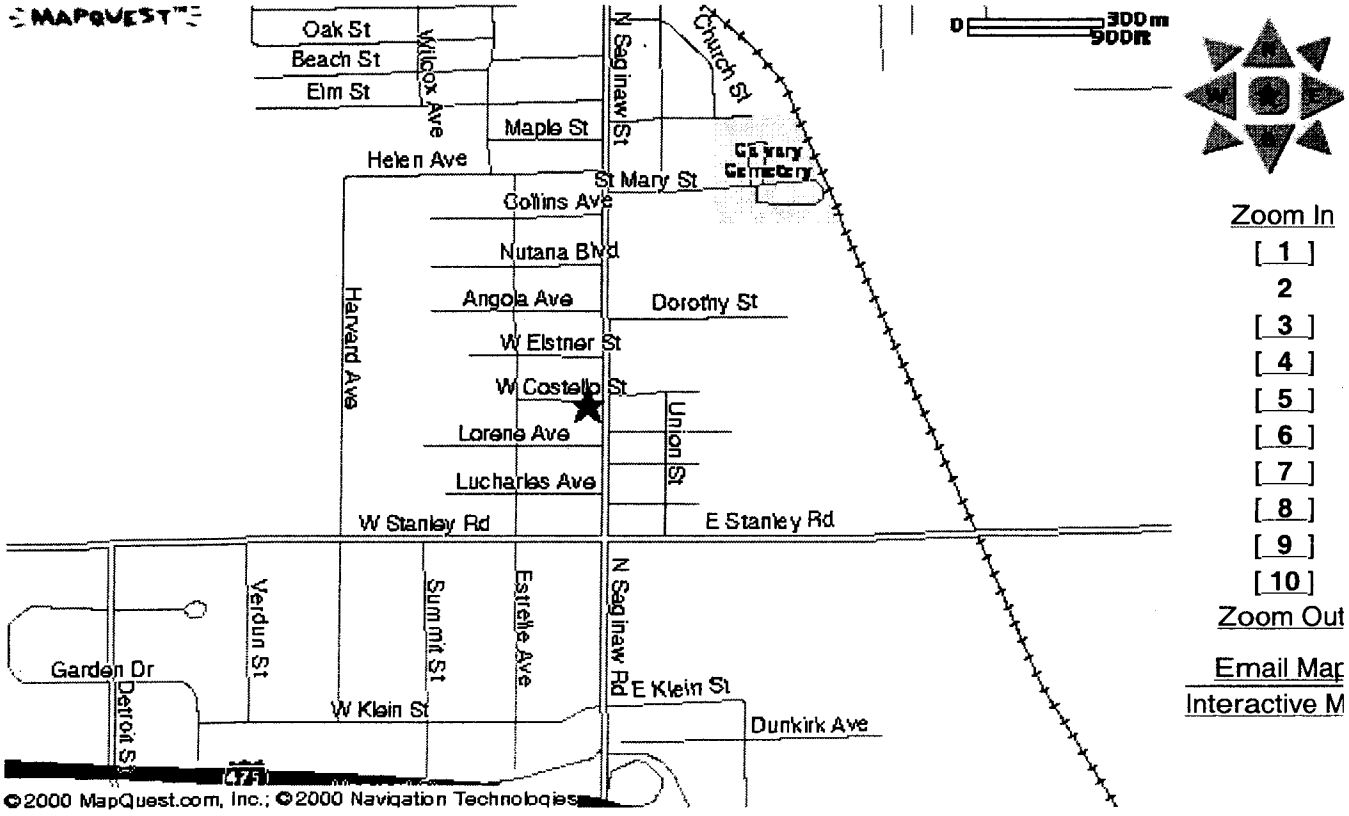
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO.

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

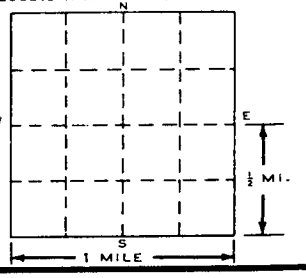
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ ¼	12	8 N/S	6 E/W

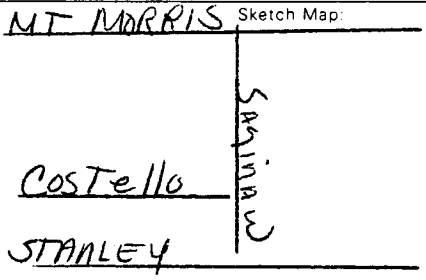
Distance And Direction From Road Intersection
West of Saginaw
Between Stanley & Mt. Morris Rd. N. Side

Street Address & City of Well Location 1038 W. Costello

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Address: Russ Phillips (36)
1038 W. Costello
Mt. Morris, MI. 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH (completed) 260 ft. | **Date of Completion** April 17, 1986

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 154 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 154 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Sdr 21
Drive Shoe ☐ Yes
Shale Boot ☒

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	105'	105'
Black Shale	45'	150'
White Sandstone	15'	165'
Limestone	35'	200'
Green Sandstone	40'	240'
Limestone	20'	260'

8 SCREEN ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL
85 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
175 ft. after 1 hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 154 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type Sewer Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Red Jackets
Model number 50CNWI HP ½ Volts 230
Length of Drop Pipe 120 ft. capacity 10 G.P.M.
TYPE ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name Owners 202 X-Trol
Model number _____ Capacity _____ Gallons

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort. Hwy. Mt. Morris, MI.
Signed _____ Date 4-18-86
AUTHORIZED REPRESENTATIVE

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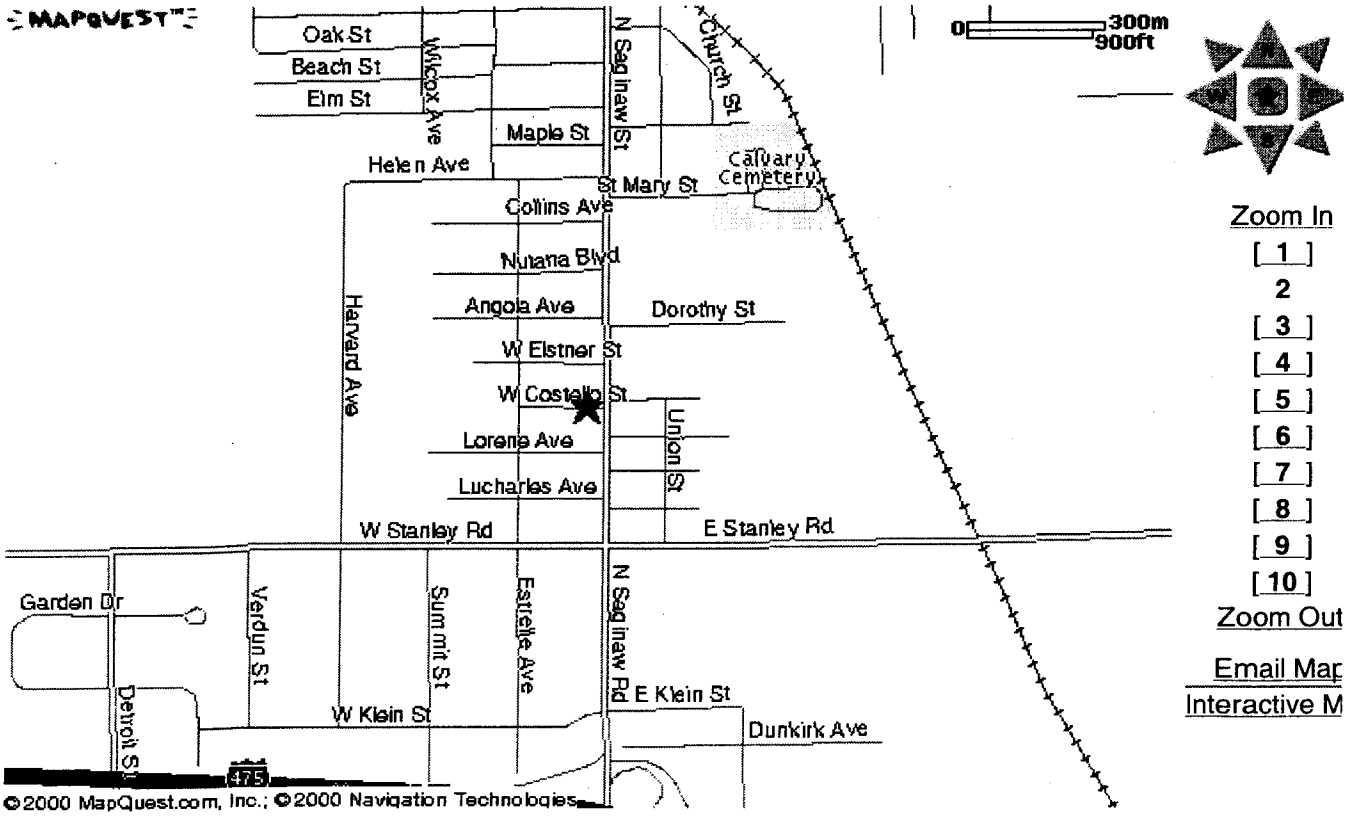
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

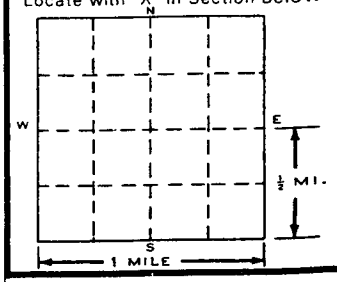
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW¼ NW¼ SE¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

(37)

Street Address & City of Well Location: 1057 E. Castolla Street

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Charles Wagster
23390 Ackley Road
Belldvue, Mi 49021

Address Same As Well Location? ☑ Yes ☐ No

4 WELL DEPTH: (completed) 268 ft. | **Date of Completion** 8-17-87

5 ☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☑ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☑ Threaded ☐ Plastic ☐ Welded
5 in. to 150 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☑ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	22	34
Sand & Gravel	18	52
Blue Clay	25	77
and & Gravel	40	117
Blue Clay & Stones	23	140
Shales	10	150
Sandstone	7	157
Limestone	10	167
Sandstone	8	175
Limestone	28	203
Sandstone	5	208
Limestone Shale	37	245
Sandstone	15	260
	8	268

USE A 2ND SHEET IF NEEDED

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8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
100 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
160 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☑ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.
☐ Neat cement ☑ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name F. W.
Model number _____ HP ¾ Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
TYPE: ☑ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name A-Frol
Model number WX 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski — Date 7-13-87
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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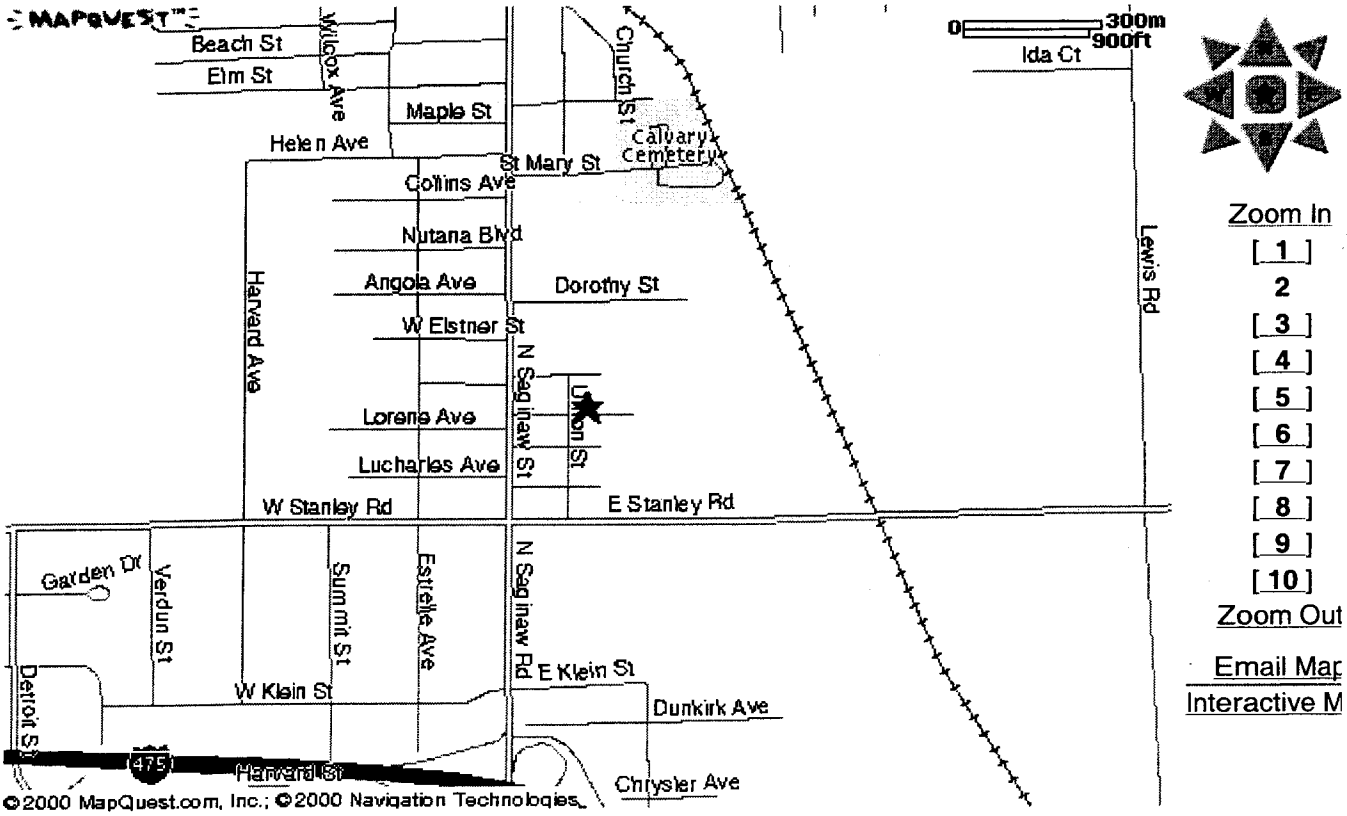
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

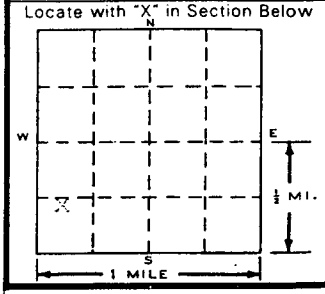
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ SW ¼ SW ¼	7	3 N/S	7 E/W

ance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: Brad Ballard
Address: 1063 E. Castolla
Mt. Morris, Mi 38

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 260 ft. | Date of Completion 6-22-87

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter 5 ☐ Steel ☒ Threaded ☐ Plastic ☐ Welded
150 in. to _____ ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	30	42
Sand & Gravel	30	72
Blue Clay	60	132
Blue Clay & Stones	25	157
Limestone	20	177
Shale	30	207
Sandstone	18	215
Limestone	20	235
Limestone & Sandstone	25	260
USE A 2ND SHEET IF NEEDED		

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 95 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
150 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name F&W
Model number 4F7B7-305 HP ¾ Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well X-Trol
Model number WX 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling, Inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 1151 Pall Street
Signed Robert Dekoski Date 2-25-88
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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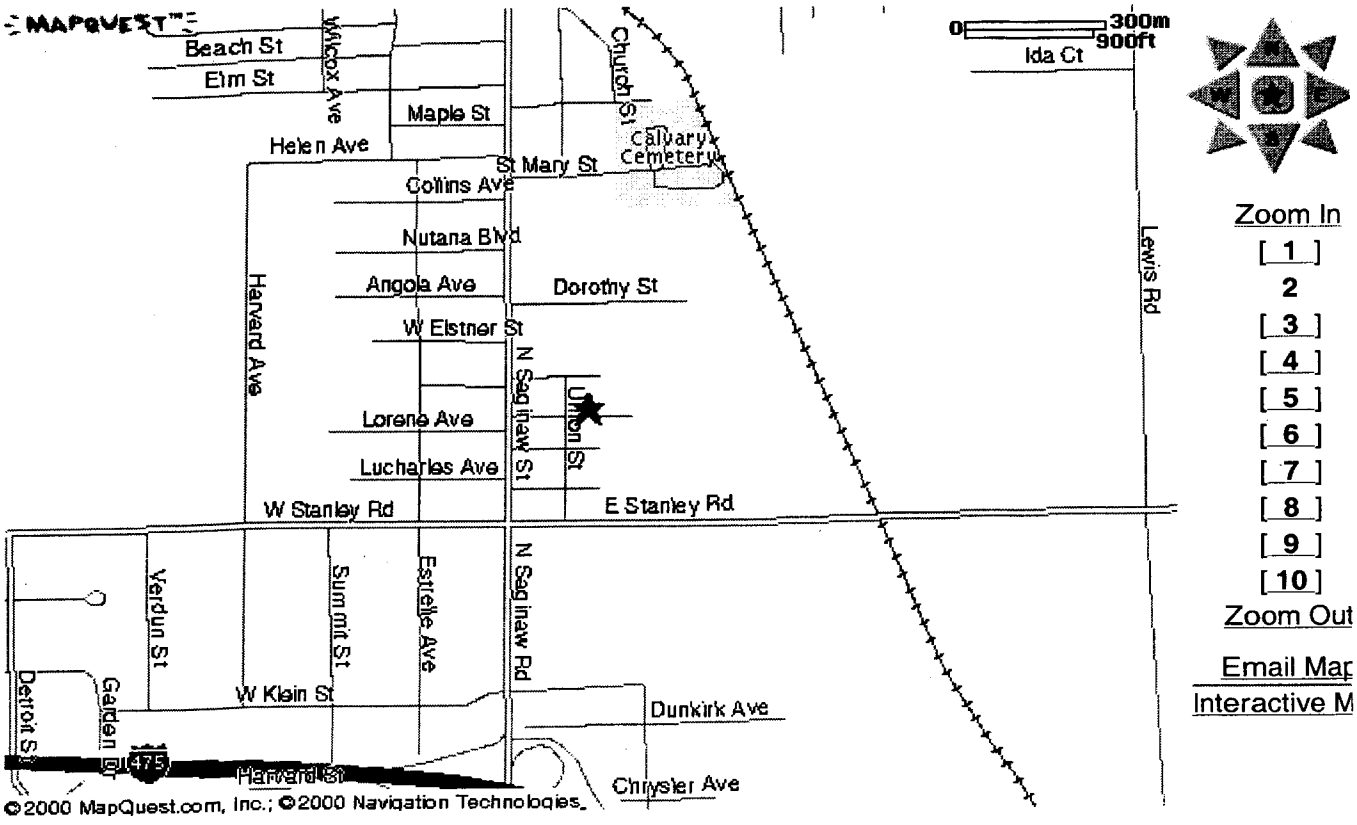
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GEOLOGICAL SURVEY SAMPLE No.

JUN 29 1976

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

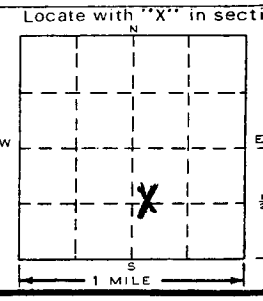
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼SW ¼SW ¼	7	8 (N/S.)	7 (E/W.)

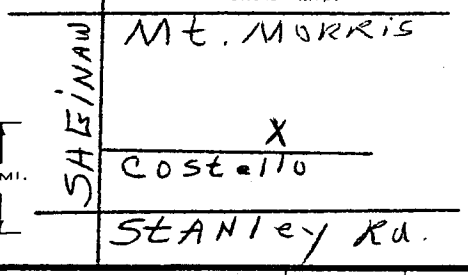
Distance And Direction from Road Intersections
1/8 mile E. Saginaw St.
½ mile N. Stanley Rd.

Street address & City of Well Location 1089 Costello Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: 39
Address: Don G. Soules
1089 Costello St.
Mt. Morris, Mich.

4 WELL DEPTH: (completed) 262 ft. Date of Completion June 1976

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 207 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	70'	70'
Sand	20'	90'
Clay & Gravel	65'	155'
Sand	52'	207'
mestone	40'	247'
White sand stone	15'	262'

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
90 ft. below land surface

10 PUMPING LEVEL below land surface
260 ft. after 3 hrs. pumping 13 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 207 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☒ Not installed
Manufacturer's Name ____
Model Number ____ HP ____ Volts ____
Length of Drop Pipe ____ ft. capacity ____ G.P.M.
Type: ☐ Submersible ☐ Jet ☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

* ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK 38

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)

Address 8107 N. Dort Hwy. Mt. Morris, Mi.

Signed Earl L Lyons (AUTHORIZED REPRESENTATIVE) Date June 1976

D67d 100M (Rev. 12-68)

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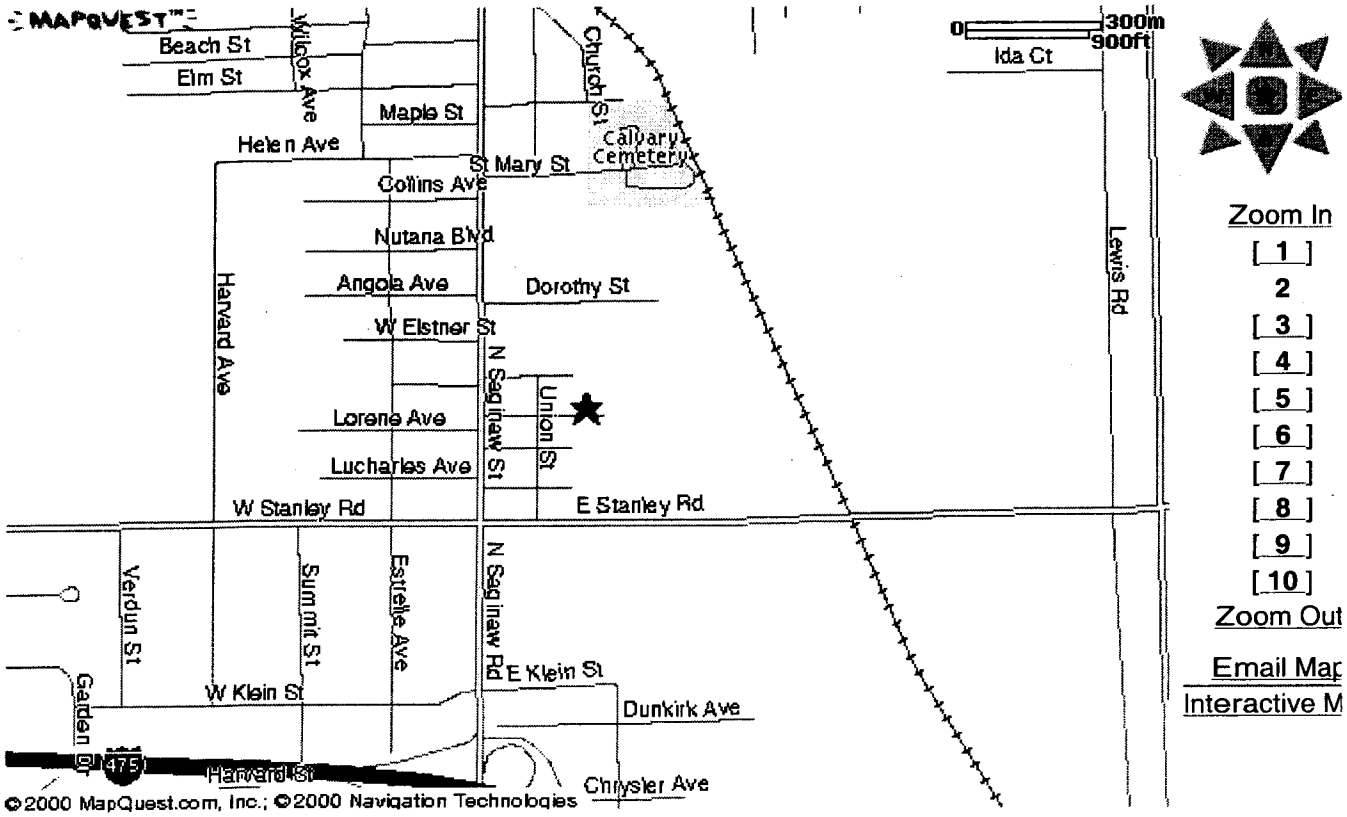
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GEOLOGICAL SURVEY SAMPLE No. [ ]

FEB 1 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

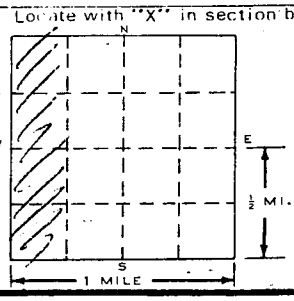
County	Township Name	Fraction	Section Number	Town Number	Range Number
BENESEE	GENESEE	W 1/4	7	8 N/S	7 E/W

Distance And Direction from Road Intersections: About .01 MILE E. of SAGINAW St. About 50 Ft. N. of DOROTHY St.

Street address & City of Well Location: AT 1071

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL: ROBERT FERGUSON (40)

Address: 1071 DOROTHY ST. MT. MORRIS

4 WELL DEPTH: (completed) 230 ft. Date of Completion 9-16-76

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 160 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface Surface; Weight 3.75 lbs./ft.; Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	16	16
BLUE CLAY	22	38
BLUE CLAY (GRAVELEY)	37	75
BLUE CLAY	77	152
GRAY SANDSTONE	60	212
HARD BROWN SHALE W/ STRIPS OF GRAY SANDSTONE	18	230

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL 85 ft. below land surface

10 PUMPING LEVEL below land surface

120 ft. after ____ hrs. pumping 10 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☒ CLAY SLURRY

Depth: From Top ft. to 160 ft.

14 Nearest Source of possible contamination

____ feet ____ Direction SANITARY SEWER Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name Gould

Model Number UT1 HP 1 1/2 Volts 230

Length of Drop Pipe 126 ft. capacity 5 G.P.M.

Type: ☐ Submersible ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM 16

*CORRECTED BY MSB

**ADDITION BY

ELEVATION

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B.E. PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4189 GREGOR ST. GENESEE

Signed Bud Perior Date 9-18-76
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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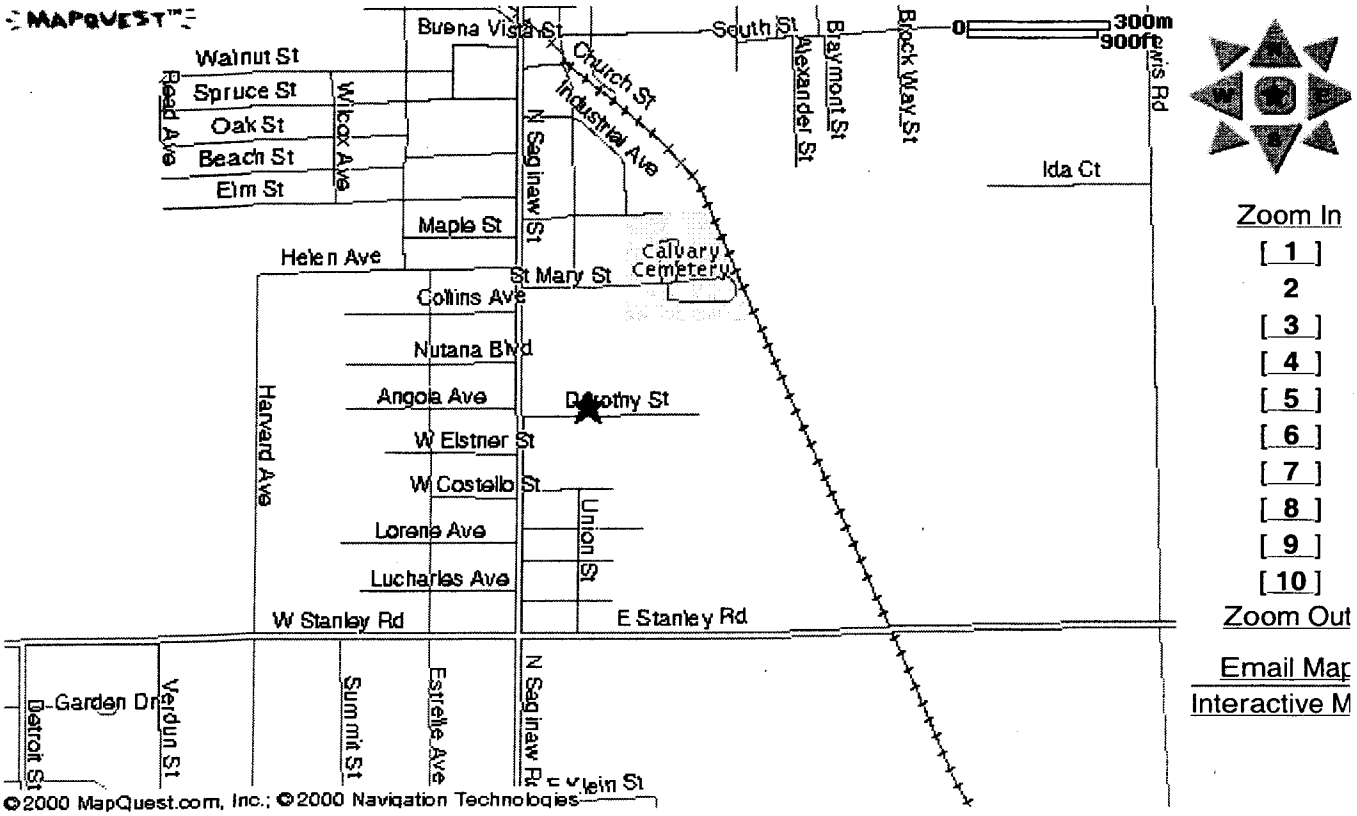
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO: 01182

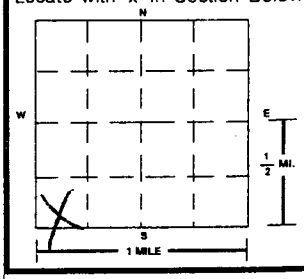
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 SW 1/4 SW 1/4	7	8 N	7 E

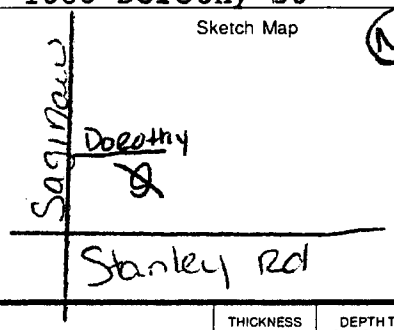
Distance and Direction from Road Intersection: North of Stanley Rd, East off Saginaw

Street Address & City of Well Location: 1080 Dorothy St

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Robin Whitetree
Address: 1080 Dorothy St, Mt Morris MI

Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 265 ft. Date Completed: 8 13 / 99
[X] New Well [ ] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ]

6. USE: [X] Household [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat Pump
[ ] Test Well [ ] Type IIb Public [ ]

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded [ ] Other
Diameter: 5 in. to 179 ft. depth
in. to ft. depth
BORE HOLE:
Diameter: 8 in. to 179 ft. depth
in. to ft. depth
Height: Above/Below Surface: ft
Weight: lbs./ft.
[ ] Drive Shoe [X] Shale Packer

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	158	158
shale & stones	9	167
sandstone, shale	24	191
sandstone, limestone	74	265

USE A 2ND SHEET IF NEEDED

8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type Diameter
Slot/Gauze Length:
Set Between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen ft. Other

9. STATIC WATER LEVEL:
100 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
265 ft. After hrs. Pumping at 25-30 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 179 to 0 ft.
[ ] Neat Cement [X] Bentonite [ ] Other
No. of Bags 8 Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10+ ft. Direction N
Type Distance ft. Direction

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name McDonald
Model Number J2 HP Volts
Length of Drop Pipe 140 ft. Capacity G.P. M.
TYPE: [X] Submersible [ ] Jet [ ] Other
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity Gallons

15. ABANDONED WELL PLUGGED? [ ] Yes [ ] No
Casing Diameter in. Depth ft. OCT 1 1999
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry
[ ] Cement/Bentonite Slurry [ ] Concrete Grout [ ] Bentonite Chips
No. of Bags Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 Lewis Rd Clio, MI 48420
Signed [signature] AUTHORIZED REPRESENTATIVE Date 9 1 99

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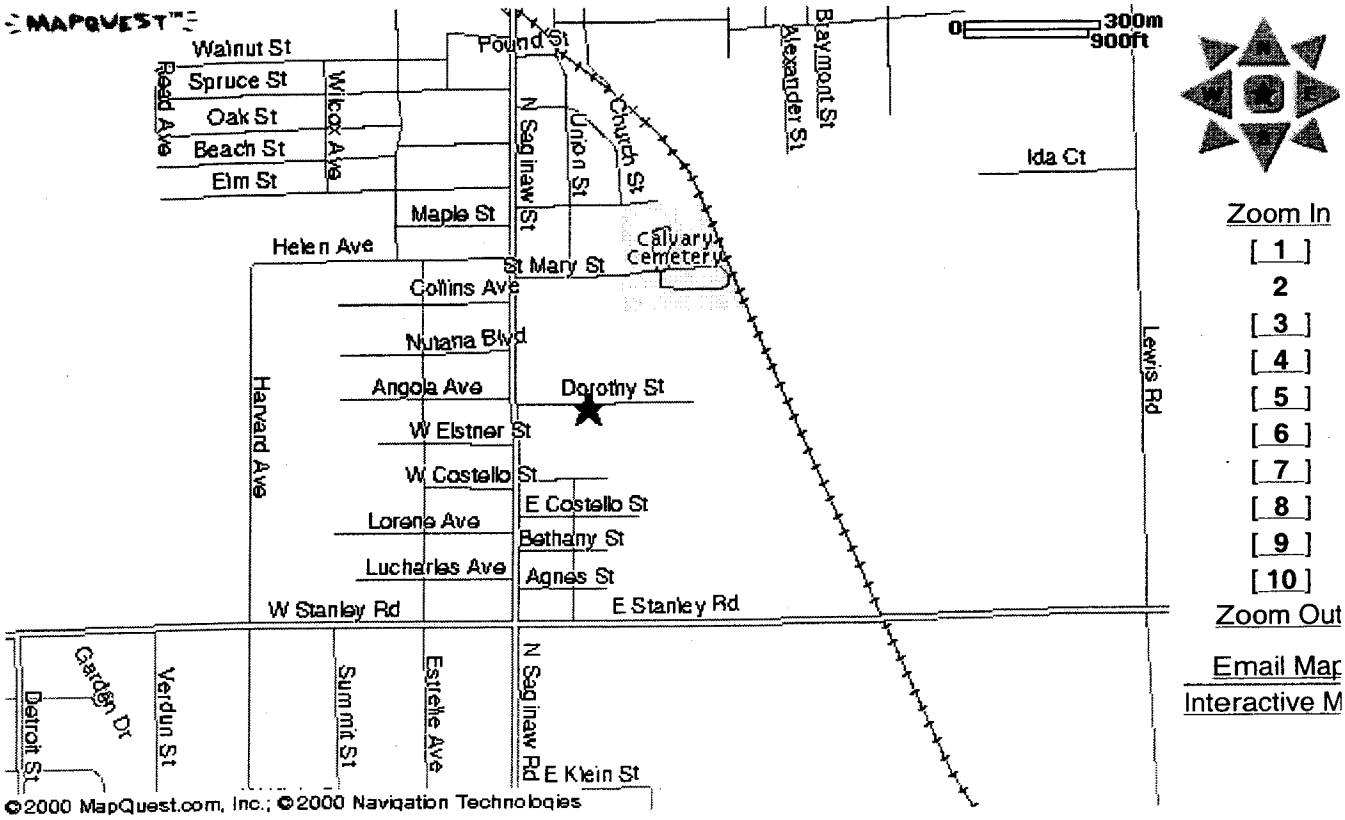
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

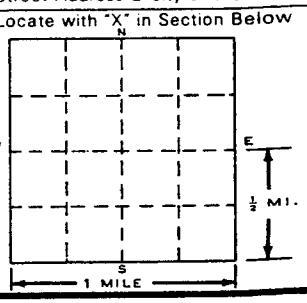
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genseee	Genesee	¼ ¼ ¼	8	8 N~~S~~	7 E~~W~~

Distance And Direction From Road Intersection

Street Address & City of Well Location: 1092 Dorothy St.

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL:

Mr. Boutin
Address 1092 Dorothy St.
Mt. Morris, MI.

42

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH: 100 FT. — Date Completed MO. 6 DAY 29 YEAR 88 — ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 200 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No Boot

8 SCREEN: ☐ Not Installed
Type ~~none~~ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
106 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
300 ft. after _____ hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.
☐ Neat cement ☐ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type Sewer Distance _____ ft. Direction _____
Well disinfected upon completion? ☐ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name MacDonald
Model number K2 HP 3/4 Volts _____
Length of Drop Pipe 160 ft. capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well x-trol
Model number 203 Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	18	18
Clay & stones	52	170
Gray clay, broken soft sandstone	15	185
Soft sandstone	5	190
Brown shale & clay	4	194
Brown shale	2	196
Sandstone, white shale & limestone	65	261
Slate, limestone & sandstone	39	300

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name: Brad Taylor

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

~~Brian Taylor Well Drilling~~ REGISTERED BUSINESS NAME — 1590 REGISTRATION NO.
Address ~~11103 Lewis Rd., Clio~~
Signed Brian Taylor AUTHORIZED REPRESENTATIVE — Date ~~7.6.88~~

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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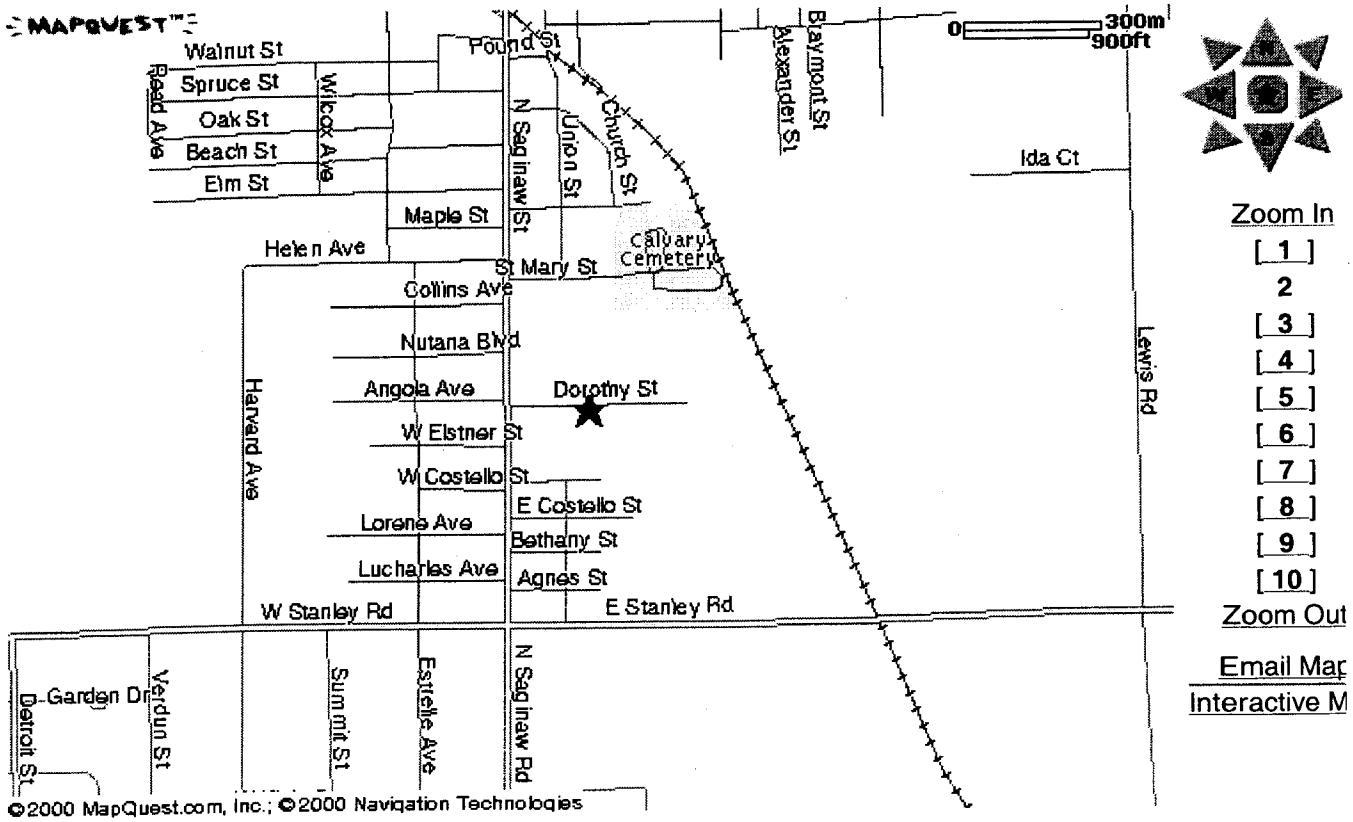
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NUMBER

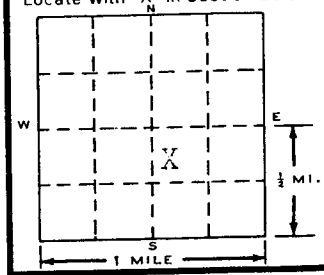
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NW¼ NW¼ SE¼	12	3 N	6 E

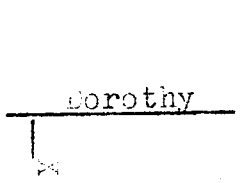
Distance And Direction From Road Intersection: 75' S of Dorothy; 1/8 mi. E of Saginaw

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: (43)

Dan Reynolds
Address 1104 Dorothy
Mt. Morris, MI

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 300 FT. Date Completed MO. 9 DAY 29 YEAR 58 [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to 192 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter 7 7/8 in. to 192 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface 1½ ft.
Weight: 2.926 lbs./ft.
Drive Shoe [X] Yes [ ] No

8 SCREEN: [X] Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
100 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
130 ft. after 2 hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 0 to 192 ft.
[ ] Neat cement [X] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type Sewer Distance 50 ft. Direction S
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Goulds
Model number 10JE10422 HP 1 Volts 230
Length of Drop Pipe 130 ft. capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name Well X trol - 2
Model number 202 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & Clay	15	15
Clay & Gravel	10	25
Clay	40	65
Gravel	10	75
Clay	45	120
Clay & Gravel	40	160
Stones & Gravel	15	175
Clay & Shale	10	185
Shale & Sandstone	15	200
Sandstone	10	10
Shale & Sandstone	40	250
Sandstone	50	300

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

GLENN'S WELL DRILLING
G-10456 Beecher Road
FLUSHING, MICHIGAN 48433
REGISTERED BUSINESS NAME
REGISTRATION NO. 24-1-76
Address _____
Signed _____ Date 9-__-__
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name: David Jr.

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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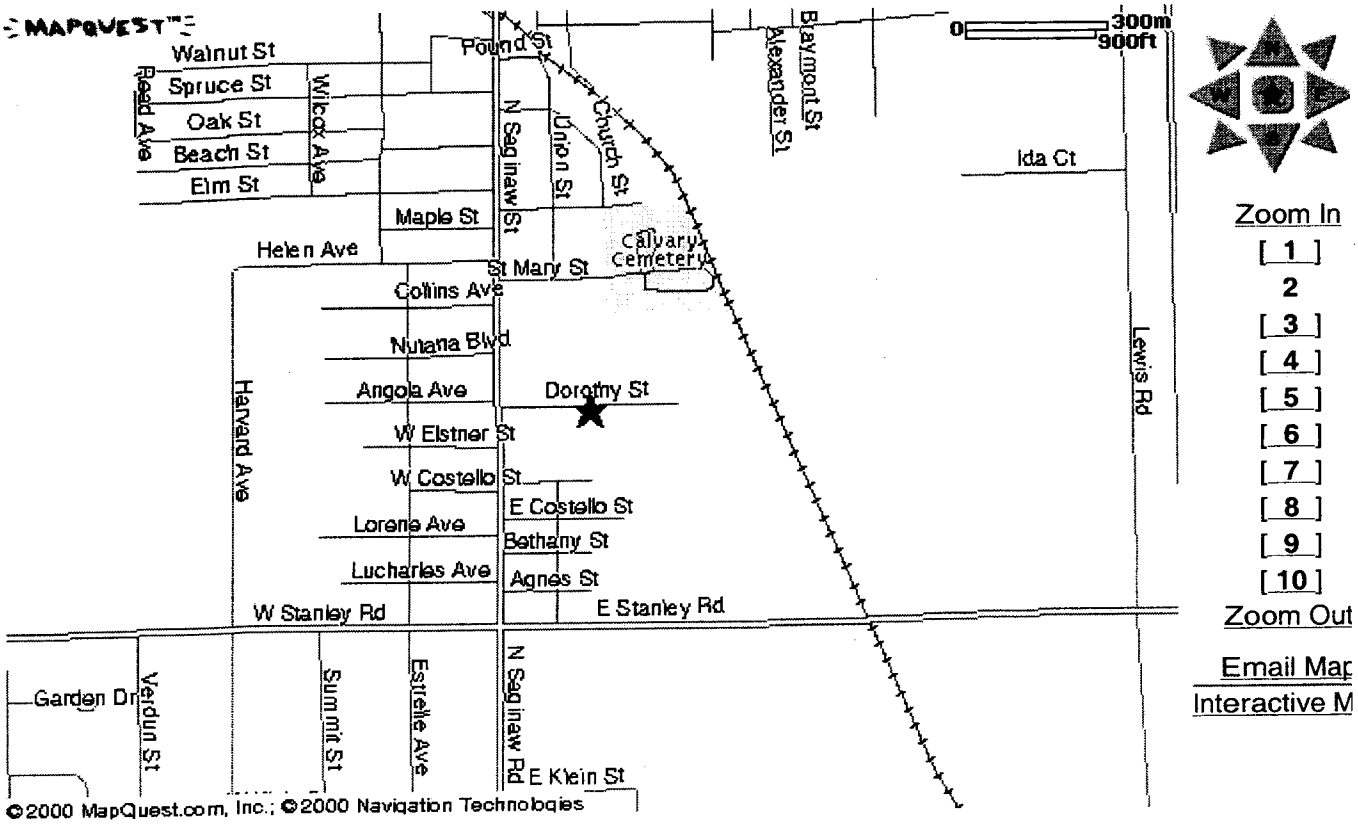
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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PERMIT NO:

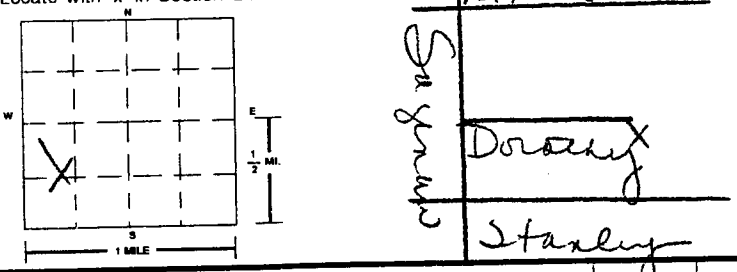
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SE 1/4 NW 1/4 SW 1/4	7	8	7

Distance and Direction from Road Intersection
Between: Stanley and Mt. Morris Rd.
OFF: Saginaw St.
1130 Dorothy St.

Street Address & City of Well Location

Locate with 'x' in Section Below



3. OWNER OF WELL
Address: Robert P Maxson
1130 E. Dorothy St.
Mt. Morris, MI 48458
Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 280 ft. | Date Completed 11/02/98 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☐ Hollow Rod ☒ Rotary ☐ Auger/Bored ☐ Driven ☐ Jetted ☐ Dug ☐ _____

6. USE: ☒ Household ☐ Irrigation ☐ Test Well ☐ Type I Public ☐ Type IIa Public ☐ Type IIb Public ☐ Type III Public ☐ Heat Pump ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 218 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 218 ft. depth
4.5 in. to 280 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe DR21
☒ Shale Packer SHALE BOOT

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	35	35
Clay	70	105
~~Clay and Fine Gravel~~	~~30~~	~~135~~
Sandy Grey Clay	20	155
Clay and Gravel	40	195
Sandy Clay	15	210
Sandstone	70	280

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
100 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
260 ft. After 2 hrs. Pumping at 33 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ Basement Offset ☐ 12" Above Grade ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 218 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 10 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Sewer Distance 50+ ft. Direction north

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 75SESW1-BPD HP .75 Volts 220
Length of Drop Pipe 160 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 2-202 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No
Casing Diameter 2 in. Depth 33 ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☒ Bentonite Chips
No. of Bags 5 Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name DAN WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 6107 N Dort Hwy Mt Morris MI. 48458
Signed Gary M Lyons AUTHORIZED REPRESENTATIVE Date 11/10/1999

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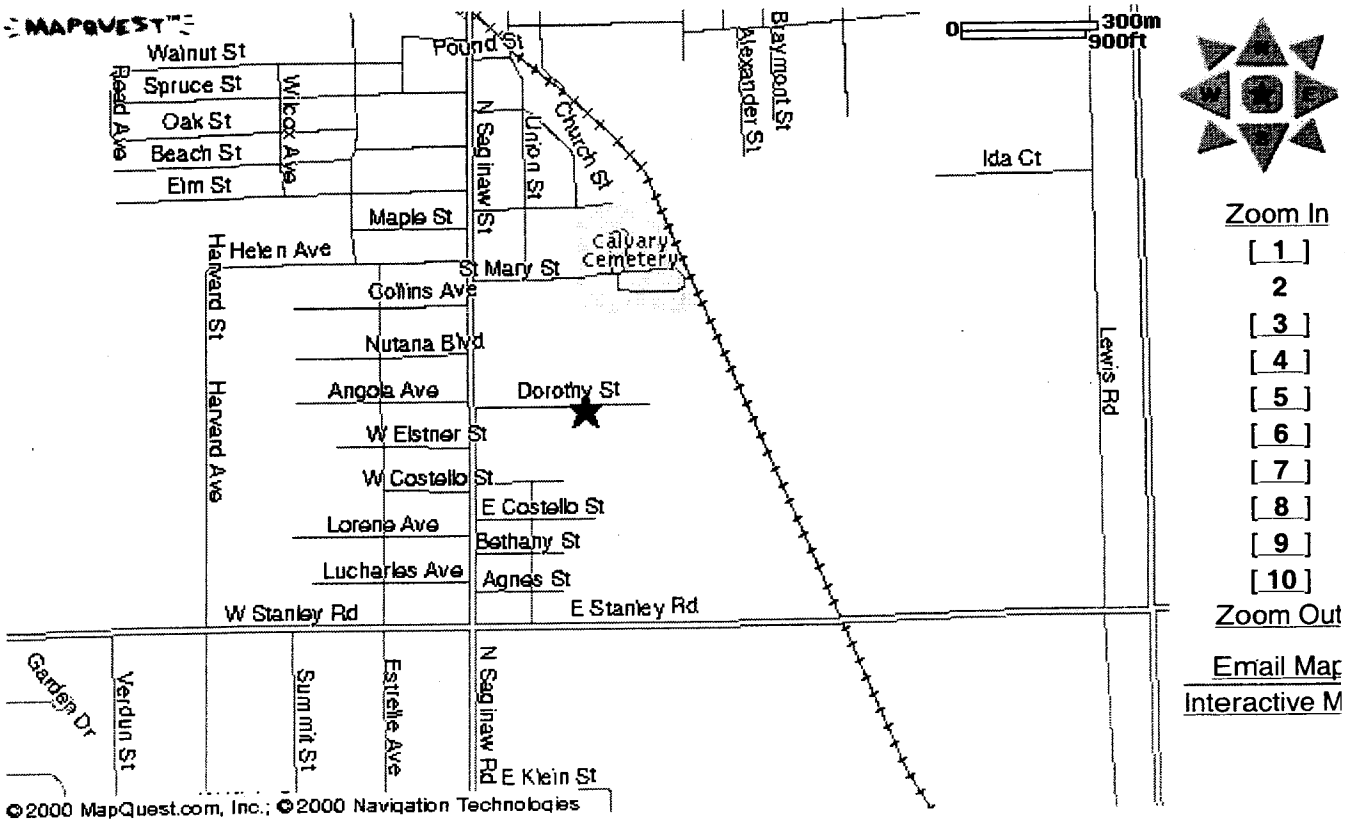
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GEOLOGICAL SURVEY SAMPLE No. [ ]

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

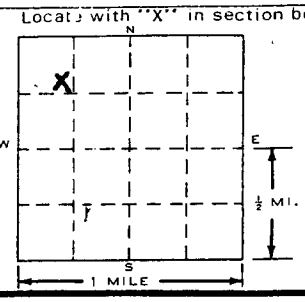
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
SENESEE	GENESEE	SE ¼ NW ¼ NW ¼	17	8 N	7 E

Distance And Direction from Road Intersections: 0.2 MILE S. OF STANLEY Rd. 120 ft. E of N. DORT HIGHWAY

Street address & City of Well Location: N. Dort Highway

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL: WALTER CAIN (45)

Address: 4435 OAKDALE GENESEE

4 WELL DEPTH: (completed) 302 ft. Date of Completion 4-25-69

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 238 ft. Depth; ____ in. to ____ ft. Depth. Height: Above/Below Surface SURFACE ft. Weight 3.25 lbs./ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	12	12
BLUE CLAY	30	42
SANDY GRAVEL	16	58
BLUE CLAY	77	135
BLUE CLAY (GRAVELEY)	52	187
SOFT SANDY SHALE	6	193
BROWN SHALE	2	195
SAND STONE	1	196
DARK BROWN SHALE	5	201
GREY SAND STONE (SOFT.)	14	215
BLACK SHALE	2	217
DARK BROWN SHALE	4	221
SOFT BLUE SHALE	3	224
GREY SAND STONE	1	225
SOFT GREY SHALE	6	231
BROWN SHALE	7	238
GREY SHALE	5	243
BROWN SHALE	8	251
GREY S. STONE (TIGHTLY CEMENTED W/SHALE STREAKS	51	302

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: ____ Dia.: ____ Slot/Gauze ____ Length ____ Set between ____ ft. and ____ ft. Fittings:

9 STATIC WATER LEVEL 64 ft. below land surface

10 PUMPING LEVEL below land surface 105 ft. after ___ hrs. pumping 5 g.p.m.; ____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ____ Chlorides (Cl) ____ Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ CLAY SLURRY Depth: From TOP ft. to 195 ft.

14 Nearest Source of possible contamination 50 feet N.E. Direction SEPTIC Type. Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed Manufacturer's Name GOULDS Model Number VT 10 HP 1 Volts 110 Length of Drop Pipe 105 ft. capacity 4 G.P.M. Type: ☐ Submersible ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B. E. PERIOR WELL DRILLING — REGISTERED BUSINESS NAME — 0202 REGISTRATION NO.

Address 4189 GREGOR ST. GENESEE

Signed Bud Perior — AUTHORIZED REPRESENTATIVE — Date 6-9-69

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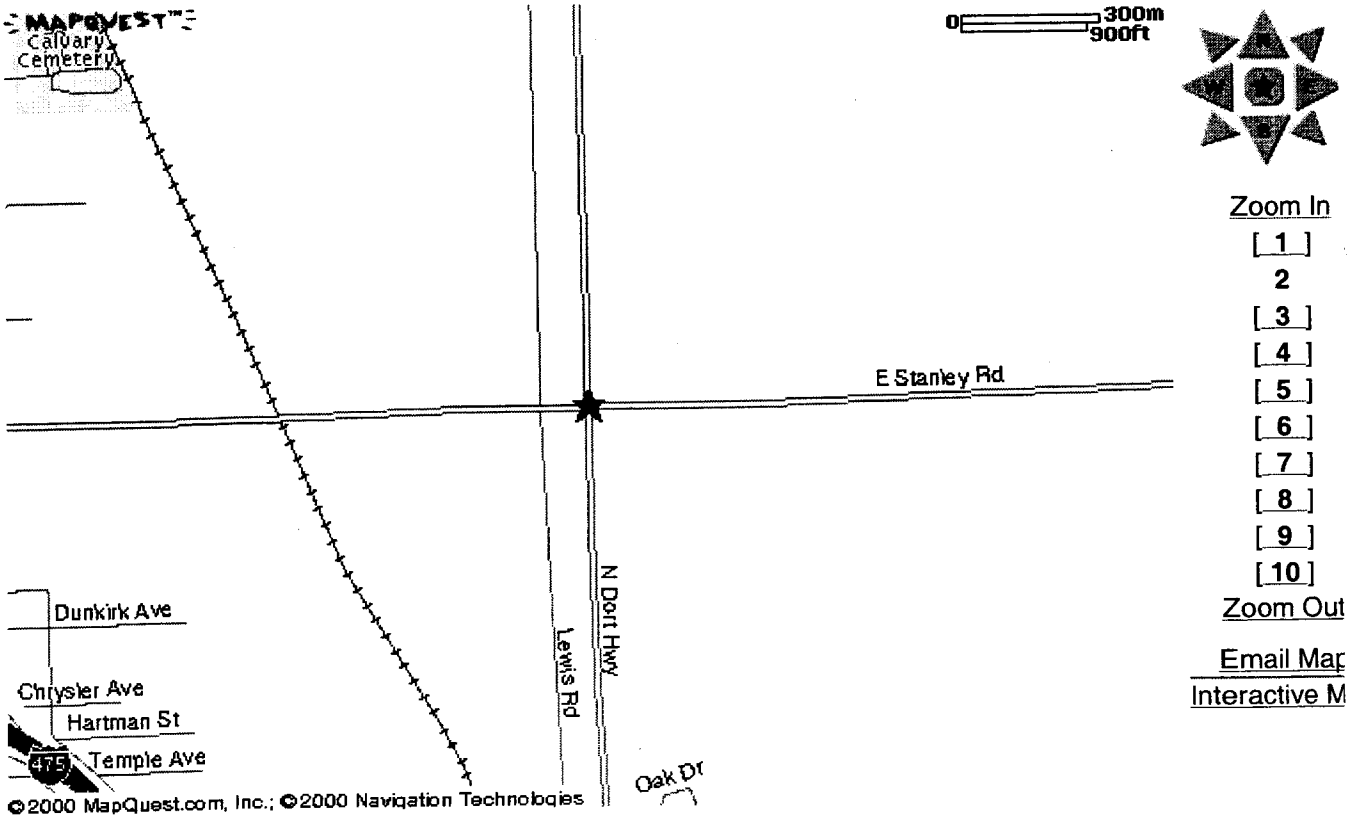
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Page ____ of ____

Sample No.

MICHIGAN DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY DIVISION

WATER WELL RECORD

Permit No.

Owner No.

County	Twp.		Sec.	Town		Range	
Genessee	Genessee	SW¼ SW¼ SW¼	20	8N	N/S.	7E	E/W

Distance from Roads, Section Lines, etc.

(46)

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
		90?

Owner: Whitinger Bros. Truck wash

Address: 5021 N. Dort Hwy., Flint

Driller and Address: Herb

Well Depth: 190 ft. Date of Completion 4/26/54

☐ Cable tool ☐ Rotary ☐ Dug ☐ R.C.
☐ Driven ☐ Jetted ☐ Bored

Use: ☐ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Dewaterin
☐ Test Well ☐ _____

Casing: Diam.
3 in. to 80 ft. Depth
2 in. to 10 ft. Depth

Height: Above/Belo surface _____ ft
Type-Weight

Screen:
Type: _____ Dia: _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
Accessories:

Water level:
32 ft. above/below LSD
_____ ft. above/below _____
Meas. by Driller Date 4/26/54

Drawdown:
_____ ft. after ____ hrs. pumping 30 g.p.m.
_____ ft. after ____ hrs. pumping ____ g.p.m.
Meas. by Driller Date 4/26/54

Flow: _____ g.p.m./g.p.h. Temp: _____ °F

Water Quality in Parts Per Million:
Iron (Fe) _____ Chlorides (Cl) _____
Hardness _____

Elevation: 750 ft. above MSL

Source of data: Driller's record

Record by: RP Bissell Date: 12/29/64

Remarks:
(30 gpm @ 60 feet)

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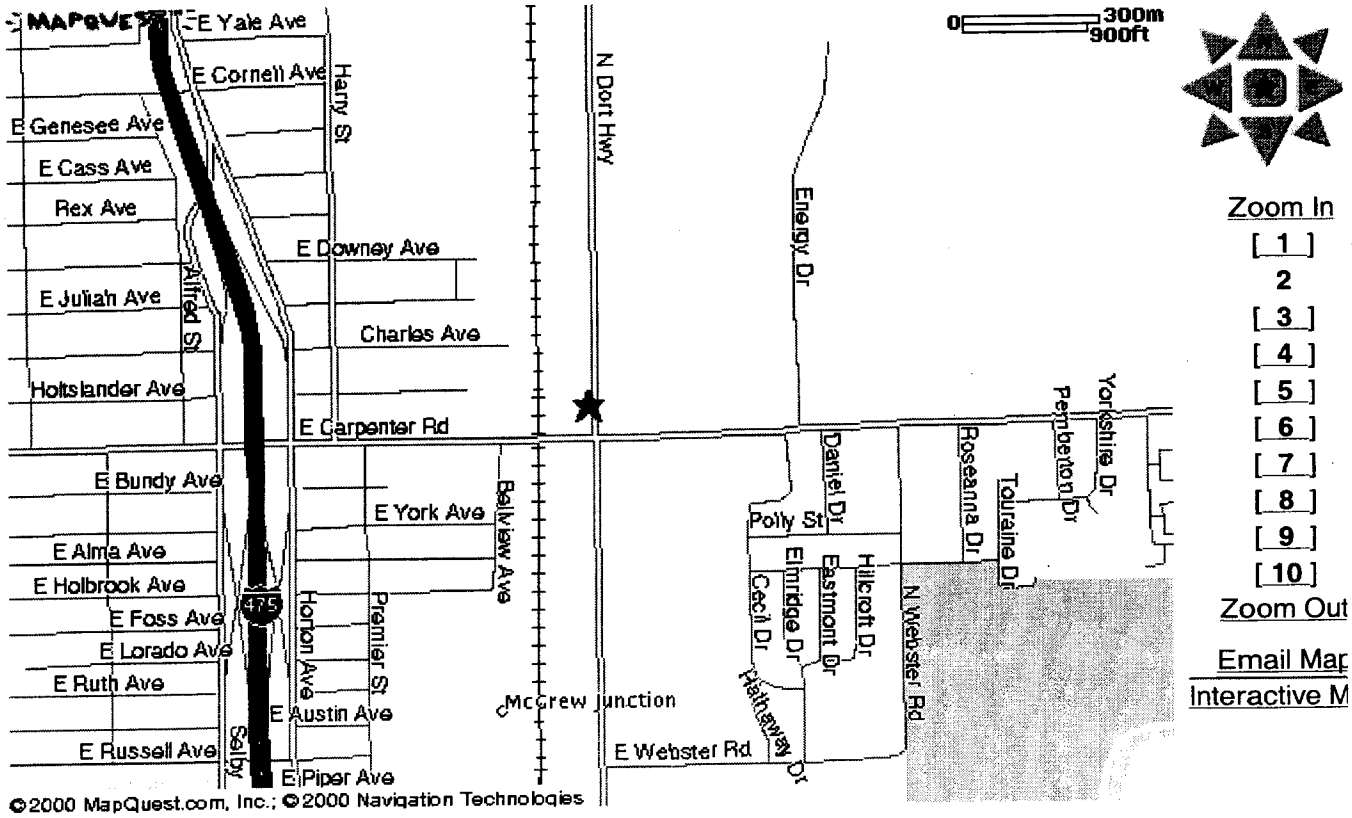
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
GENESEE	GENESEE	NW¼SE¼SW¼	20	8 N/S.	7 E/W.

Distance And Direction from Road Intersections: .5 of mile N. of Carpenter Rd. (47)

OWNER No.

Street address & City of Well Location: G-5150 N. Dort Hwy. Flint, Mich

3 OWNER OF WELL: KAY-O-OIL Co.

Address: 1221 E. Main St. Chattanooga, Tenn.

4 WELL DEPTH: (completed) 161 Ft. ft. Date of Completion: 4-30-68

5 ☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 117 ft. Depth; Threaded ☒ Welded ☐; ___ in. to ___ ft. Depth

Height: Above/Below surface ___ ft.; Weight ___ lbs/ft.; Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL 45 ft. below land surface

10 PUMPING LEVEL below land surface

53 ft. after ___ hrs. pumping 900+ g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☒ Yes ☐ No

Material: ☐ Neat Cement ☐ DRILLING MUD

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

___ feet ___ Direction ___ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name: RAPID DAYTON

Model Number 7E2 HP 3/4 HP

Length of Drop Pipe 65 ft. capacity ___ G.P.M.

Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
drove in 21 Ft 2"		
Casing (clay)	0	15
sand	15	56'
clay	56	83'
clay & sand, stones	83	110'
sand & stones &	110	1
Broken strip Rock		116
sand stone	116	135
gray shale	135	147
gray Rock	147	154
sand stone	154	160
gray [redacted] Shale	160	161

16 Remarks, elevation, source of data, etc.

We tried for gravel well.

ADDED INFO. BY DRILLER, ITEM NO.

CORRECTED BY:

ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

John Nunn & Son — REGISTERED BUSINESS NAME — 211 — REGISTRATION NO.

Address 6170 Forest Ave.

Signed Clarence Nunn — AUTHORIZED REPRESENTATIVE — Date 4-30-68

D67D 100M 6-66

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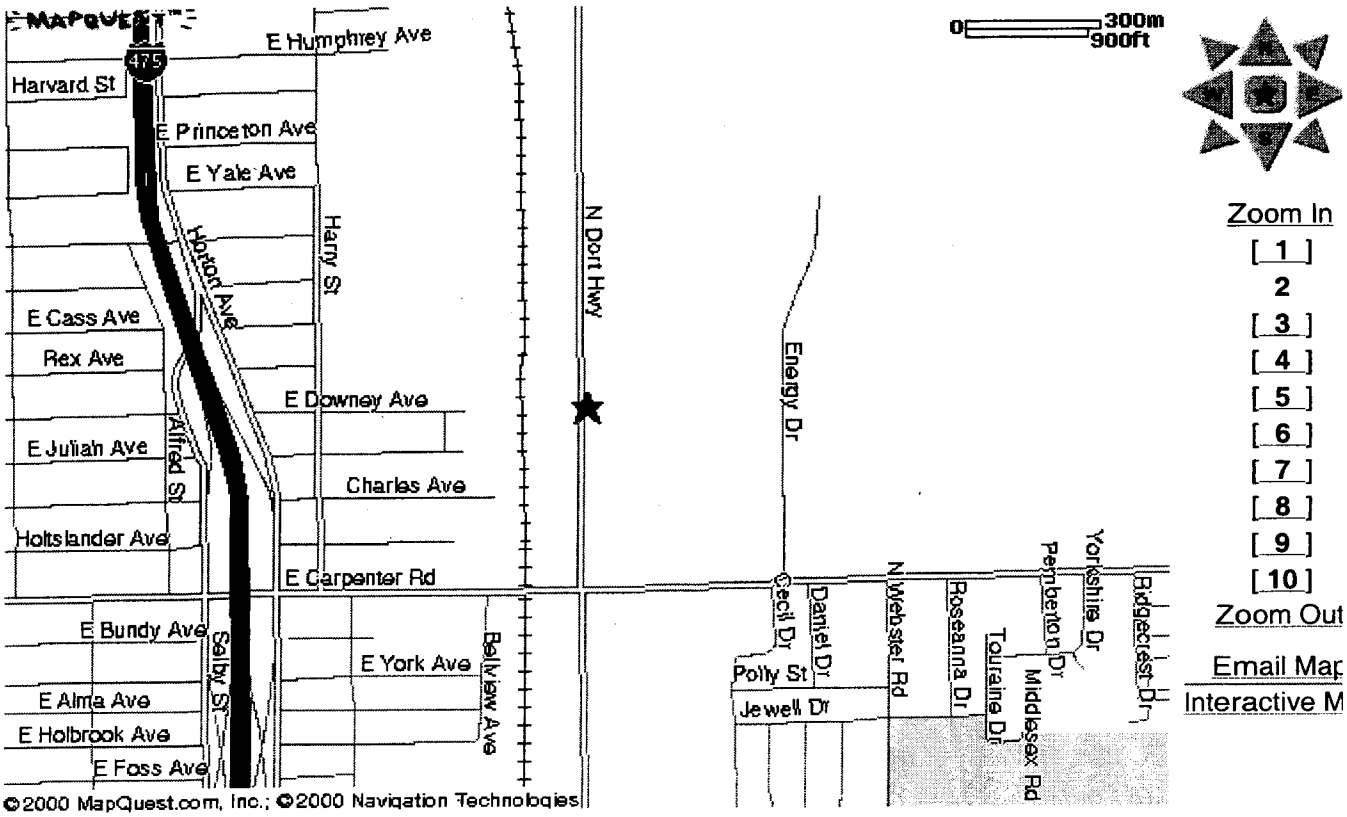
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO: W96-25-5709

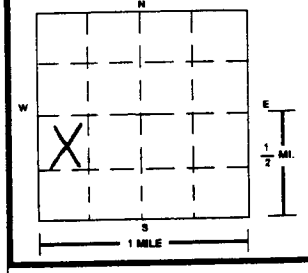
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NW 1/4 SW 1/4	20	8 N	7 E

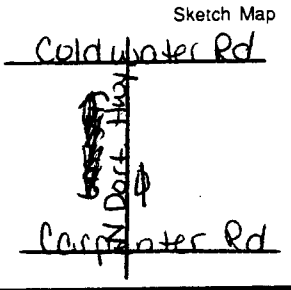
Distance and Direction from Road Intersection: Between Coldwater & Carpenter Rds on East.

Street Address & City of Well Location: G-5158 N Dort Hwy

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: George Loudermilk
Address: Automotive Machine Shop Inc.
G-5158 N Dort Hwy
Flint MI 48

Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 264 ft. | Date Completed: 2 / 1 / 96 | [ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ] _____

6. USE: [ ] Household [ ] Type I Public [X] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ] _____

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded [ ] Other _____
Diameter: 5 in. to 152 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 152 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
[ ] Drive Shoe [X] Shale Packer

8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 70 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
264 ft. After _____ hrs. Pumping at 20 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 0 to 152 ft.
[ ] Neat Cement [X] Bentonite [ ] Other _____
No. of Bags 8 1/2 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: SEE WELL PERM.
Type _____ Distance _____ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 140 ft. Capacity _____ G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
gray clay & sand	108	108
shales	39	147
green sandstone, limestone	52	209
slate, sandstone	46	255
white sandstone	9	264

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? [ ] Yes [X] No Owner wants to still use.
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry [ ] Cement/Bentonite Slurry [ ] Concrete Grout [ ] Bentonite Chips
No. of Bags _____ Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.) Owner understands that the water table in this area is declining!!! Owner was given information on plugging old well.

17. DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 3 3 96

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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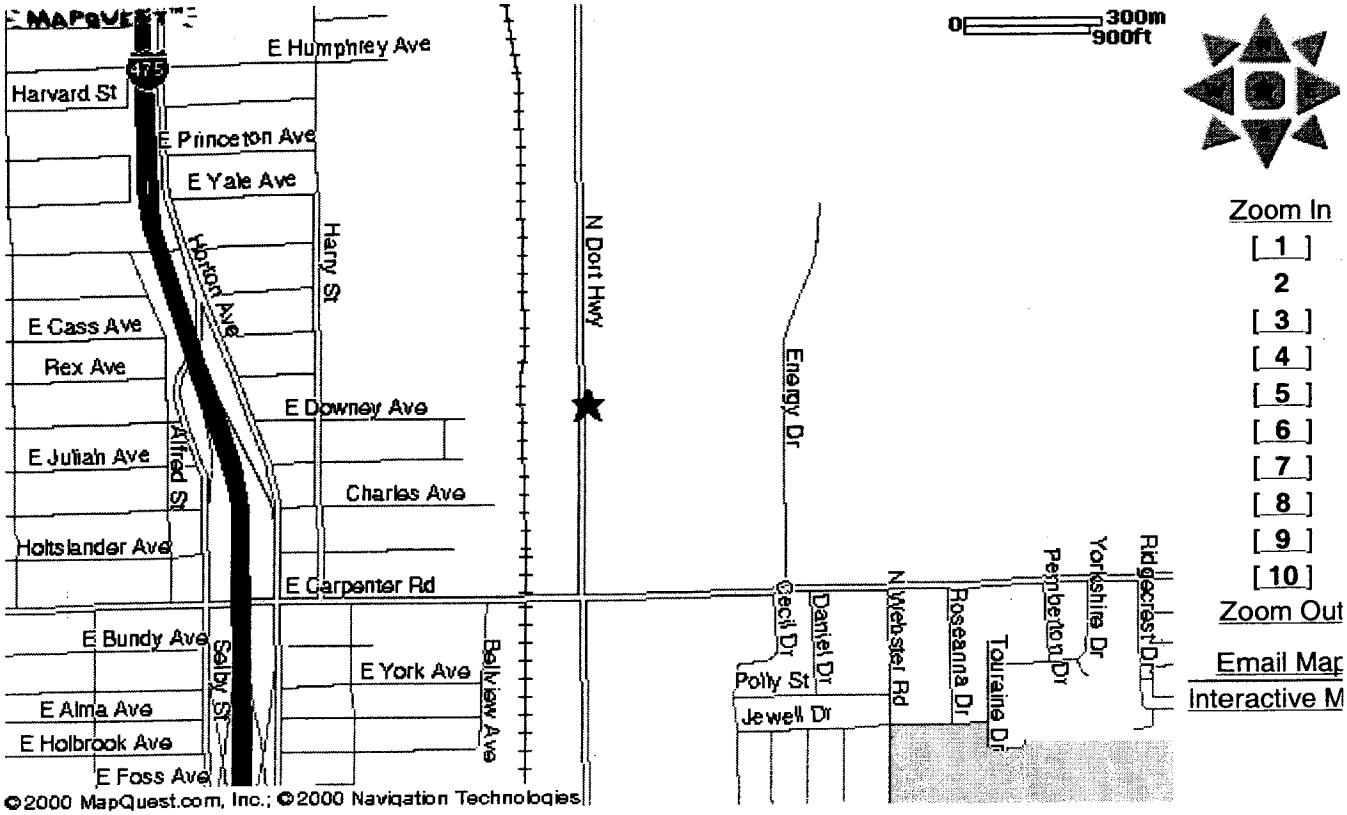
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★ **5158 North Dort Highway, Flint, MI 48505-3033** 48

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

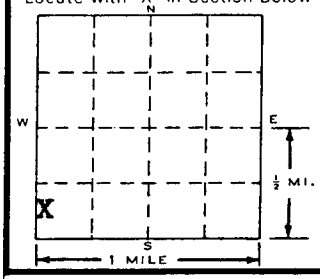
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	sw¼ sw¼ nw¼	20	8n N/S	7e E/W

Distance And Direction From Road Intersection

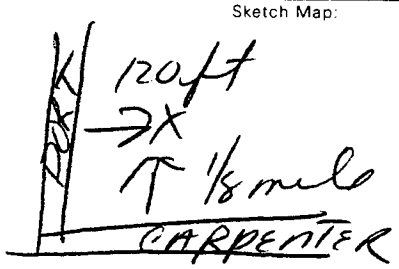
about 1/8 mile north of Carpenter and about 120 feet east of Dort

Street Address & City of Well Location 5172 N. Dort Flint

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Address: Eastern Paving, 5172 N. Dort, Flint (49)

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

170 FT. | Date Completed MO. 12 DAY 7 YEAR 90 | [ ] New Well [X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 109 depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
7 7/8 in. to 109 depth

Height: Above/Below
Surface _____ ft.
Weight 2.92 lbs./ft.

Drive Shoe [ ] Yes [ ] No
Boot

8 SCREEN:

[X] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

45 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

100 ft. after 2 hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 0 to 109
[ ] Neat cement [X] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sanitary Distance _____ ft. Direction _____
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [X] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Burks
Model number 2W7SNB12B HP 3/4 Volts 230
Length of Drop Pipe 100 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name Amtrol
Model number WX203 Capacity 60 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Sand	6	6
Yellow Clay	8	14
Blue Clay	70	84
Gravel	7	91
soft Shale	14	105
Shale	2	107
Sandstone	10	117
Shale	20	XX 137
Sandstone	33	170

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FEB 05 1992
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:
Brian Sunde/Jeff Palmer

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gil Sunde Well Drilling 0169
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8035 Corunna rd Flint 48532

Signed Gilbert Sunde Jr Date 12-7-90
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor

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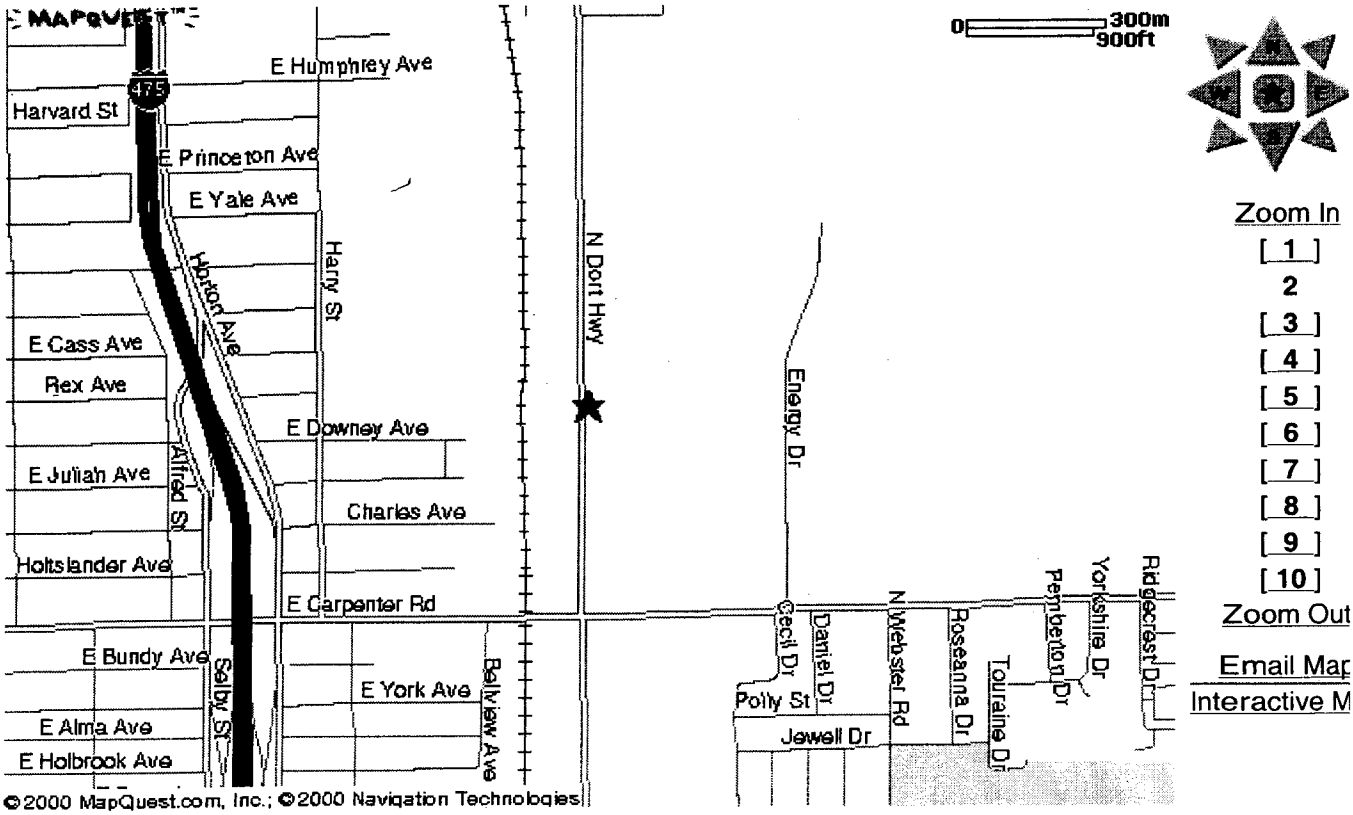
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

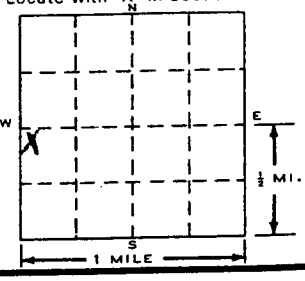
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	NW ¼ NW ¼ SW ¼	20	8N N/S	7E E/W

Distance And Direction From Road Intersection
ABOUT .3 MI N OF CARPENTER RD
ABOUT 120' E OF DORT HWY

Street Address & City of Well Location: 5182 DORT-HWY FLINT , MI 48505

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:
TURNER AND MCLEAN CO.
Address 5182 DORT HWY
FLINT, MI. 48505
(50)
Address Same As Well Location? [*] Yes [ ] No

4 WELL DEPTH: 170 FT. Date Completed MO. 06 DAY 20 YEAR 91 [ ] New Well [*] Replacement Well

5 [ ] Cable tool [*] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE: [ ] Domestic [ ] Type I Public [*] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ]

7 CASING: Diameter [ ] Steel [ ] Threaded [*] Plastic [*] Welded
5 in. to 109 ft. depth
in. to ft. depth
Grouted Drill Hole Diameter
8 in. to 108 ft. depth
in. to ft. depth
Height: Above/Below Surface ft.
Weight PVC lbs./ft.
Drive Shoe [ ] Yes TAPED [ ] No

8 SCREEN: [*] Not Installed
Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL: 50 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
80 ft. after hrs. pumping at 20 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION: [*] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [*] Yes From 0 to 108 ft.
[ ] Neat cement [*] Bentonite [*] Other CLAY SL
No. of bags of cement Additives HOLE PLUG

13 Nearest source of possible contamination
Type SANI Distance 75+ ft. Direction SW
Well disinfected upon completion? [*] Yes [ ] No
Was old well plugged? [ ] Yes [*] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name GOULDS
Model number 10EJ05412 HP 1/2 Volts 230
Length of Drop Pipe 100 ft. capacity 15 G.P.M.
TYPE: [*] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name EXISTING
Model number GALV 42 Capacity 10 Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Y CLAY	14.0	14.0
B CLAY	11.0	25.0
SAND	5.0	30.0
B CLAY	62.0	92.0
, SHALE	16.0	108.0
G SANDSTONE	4.0	112.0
GR SHALE	13.0	125.0
G SANDSTONE	45.0	170.0

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Mich. Dept. of Public Health
OCT 10 1991
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-SWQS

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR , GENESEE , MI 48437
Signed AUTHORIZED REPRESENTATIVE Date 6-21-91

17. Rig Operator's Name: DOUG

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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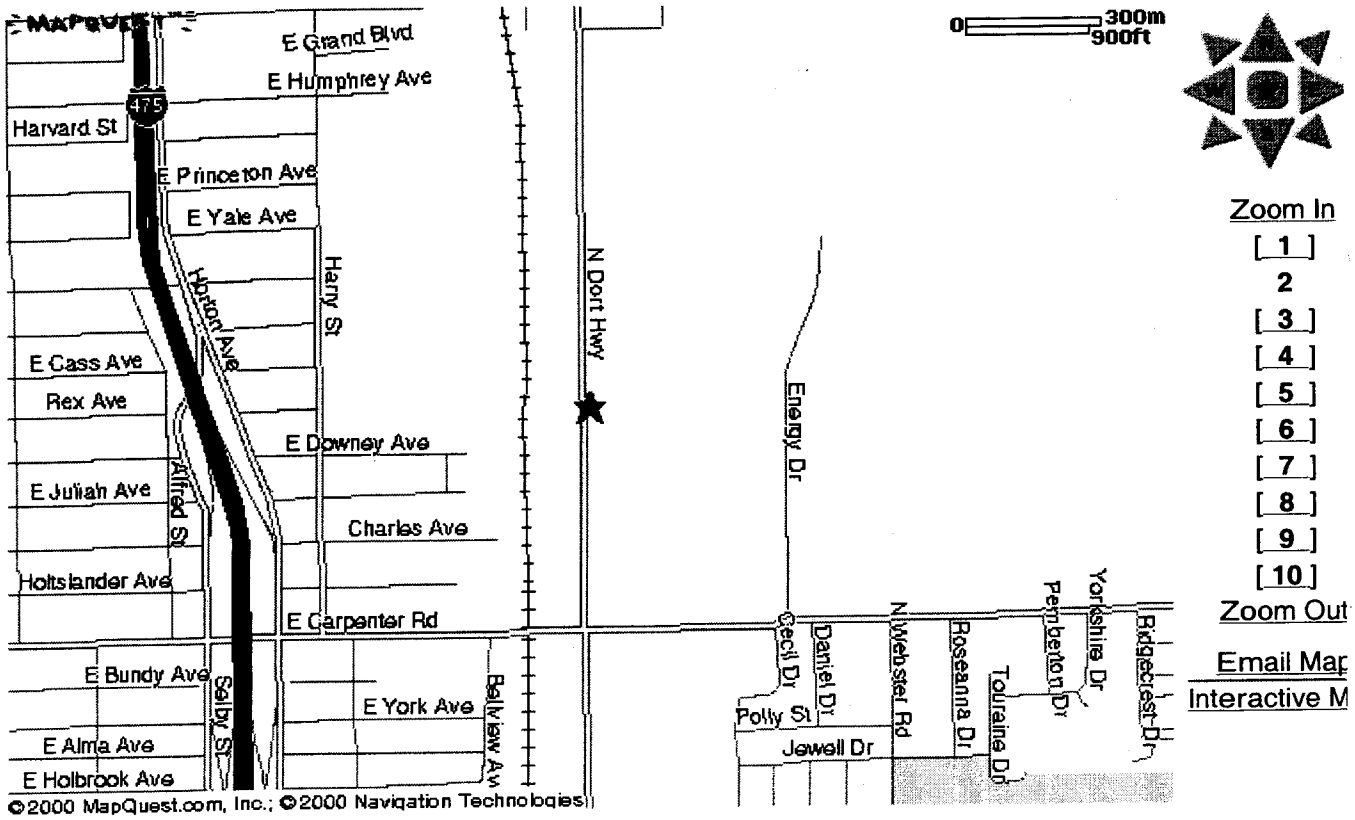
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

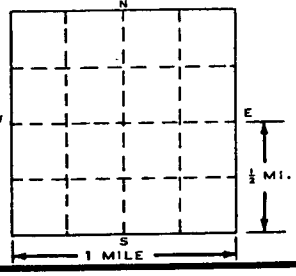
PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	1/4 1/4 1/4	19	8 N/S	7 E/W

Distance And Direction From Road Intersection
About .3 mi. N. of CARPENTER
About 110' W. of N. Dort Hwy.
Street Address & City of Well Location

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL: ALLEN Smith (51)
Address 5199 N. Dort Hwy. Flint Mi
Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: 172 FT. — Date Completed MO. 2 DAY 17 YEAR 88 — ☐ New Well ☒ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded
5 in. to 113 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 112 ft. depth
_____ in. to _____ ft. depth
Height: Above/~~Below~~ Surface _____ ft.
Weight PVC lbs/ft.
~~Drive Shoe~~ ☒ Yes ☐ No TAPE

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 50 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
90 ft. after _____ hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From ~~TOP~~ to 112 ft.
☐ Neat cement ☒ Bentonite ☐ Other Clay Slurry
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SANITARY Distance 10+ ft. Direction N
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name RED JACKET
Model number 50CNW1 HP 1/2 Volts 230
Length of Drop Pipe 100 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name A-O Smith
Model number V-60 Capacity 5 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	18	18
Sand	39	57
Blue Clay	40	97
Black Shale	15	112
Gray Sandstone	60	172

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Reno Well Drilling 0202
REGISTERED BUSINESS NAME — REGISTRATION NO.
Address Genesee, Mi
Signed Doug Reno AUTHORIZED REPRESENTATIVE Date 2-18-88

17. Rig Operator's Name: Doug

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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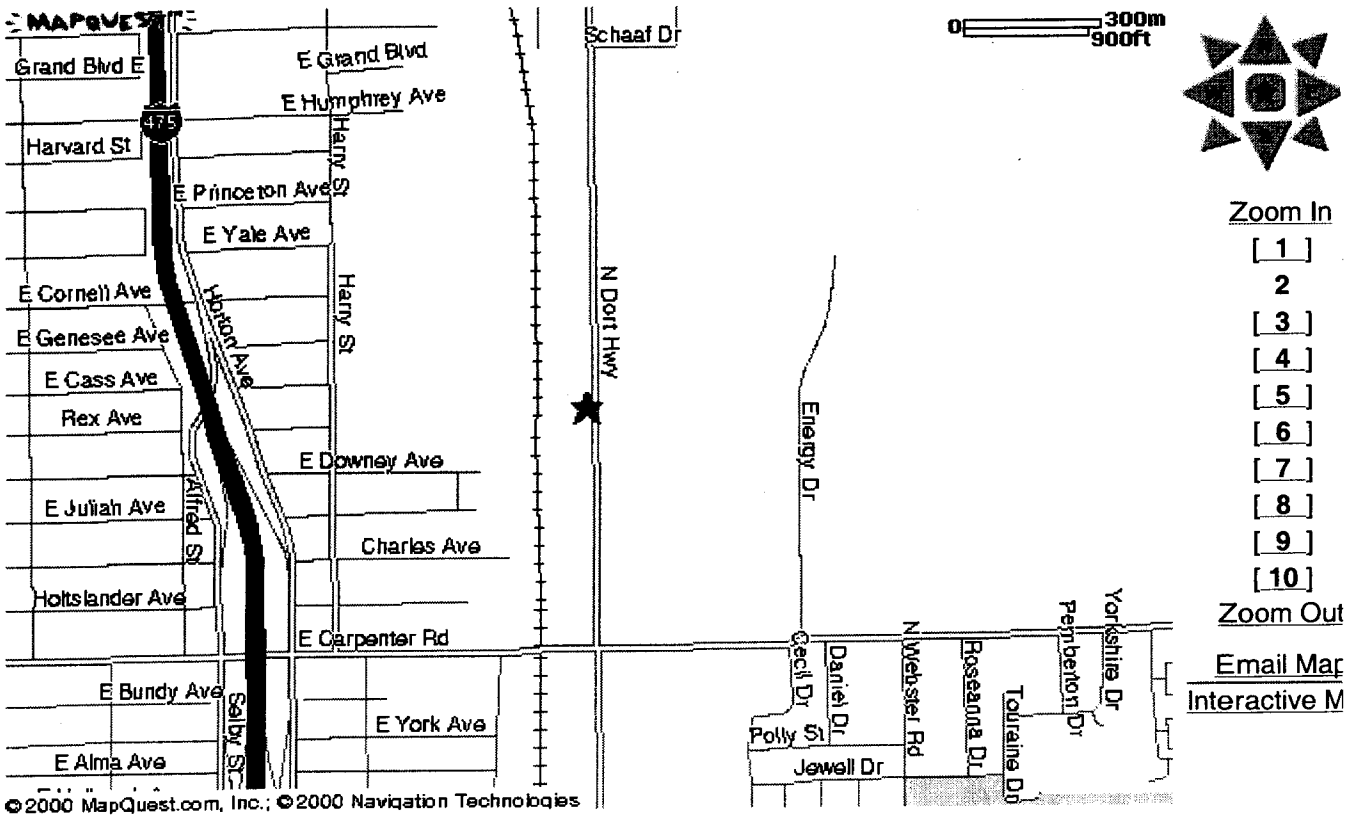
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO: 100A113632

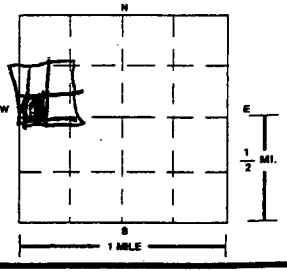
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 SW 1/4 NW 1/4	20	T8N	R7E

Distance and Direction from Road Intersection: approx 2 Mles N. of Carpenter Rd on E. Side of Dort Hwy front of Building

Street Address & City of Well Location: Coldwater Carpenter Rd.

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL
Address: John Katarski 5220 N. Dort Hwy Flint MI 52

Address Same as Well Location ☑ Yes ☐ No

4. WELL DEPTH: 200 ft. | Date Completed 12/16/95 | ☐ New Well ☑ Replacement Well

5. ☐ Cable Tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☐ Household ☐ Type I Public ☑ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☑ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 153 ft. depth; _____ in. to _____ ft. depth
BORE HOLE: Diameter: 7 7/8 in. to 153 ft. depth; 4 1/2 in. to 200 ft. depth
Height: Above/Below Surface: / ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☑ Shale Packer

8. SCREEN: ☑ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check ☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 60 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 2 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☑ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☑ Pitless Adapter ☑ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☑ Yes From 0 to 153 ft.
☐ Neat Cement ☑ Bentonite ☐ Other _____
No. of Bags 9 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 35 ft. Direction S
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Myers
Model Number _____ HP 1/2 Volts 230
Length of Drop Pipe 160 ft. Capacity 10 G.P.M.
TYPE: ☑ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X Trol
Model Number WX207 Capacity 6 Gallons 40

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	28	28
Gray Clay	100	128
Sandy Stone & Shale	12	140
Sand Stone	60	200

Old Pump Location
Building Sewer
Dug down 4 ft could not find old well

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Dept. of Public Health
JAN 16 1996
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☑ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)
Miss Dig # 553852
Could not find old well

17. DRILLING MACHINE OPERATOR:
☐ Employee ☑ Subcontractor
Name Ed Bushmeier

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
REGISTERED BUSINESS NAME: Thomason Well Drilling — REGISTRATION NO.: 1271
Address: 4186 N. Center Rd. Flint MI
Signed: John Thomason (AUTHORIZED REPRESENTATIVE) Date: 12-16-95

GW-2-228 9/93

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Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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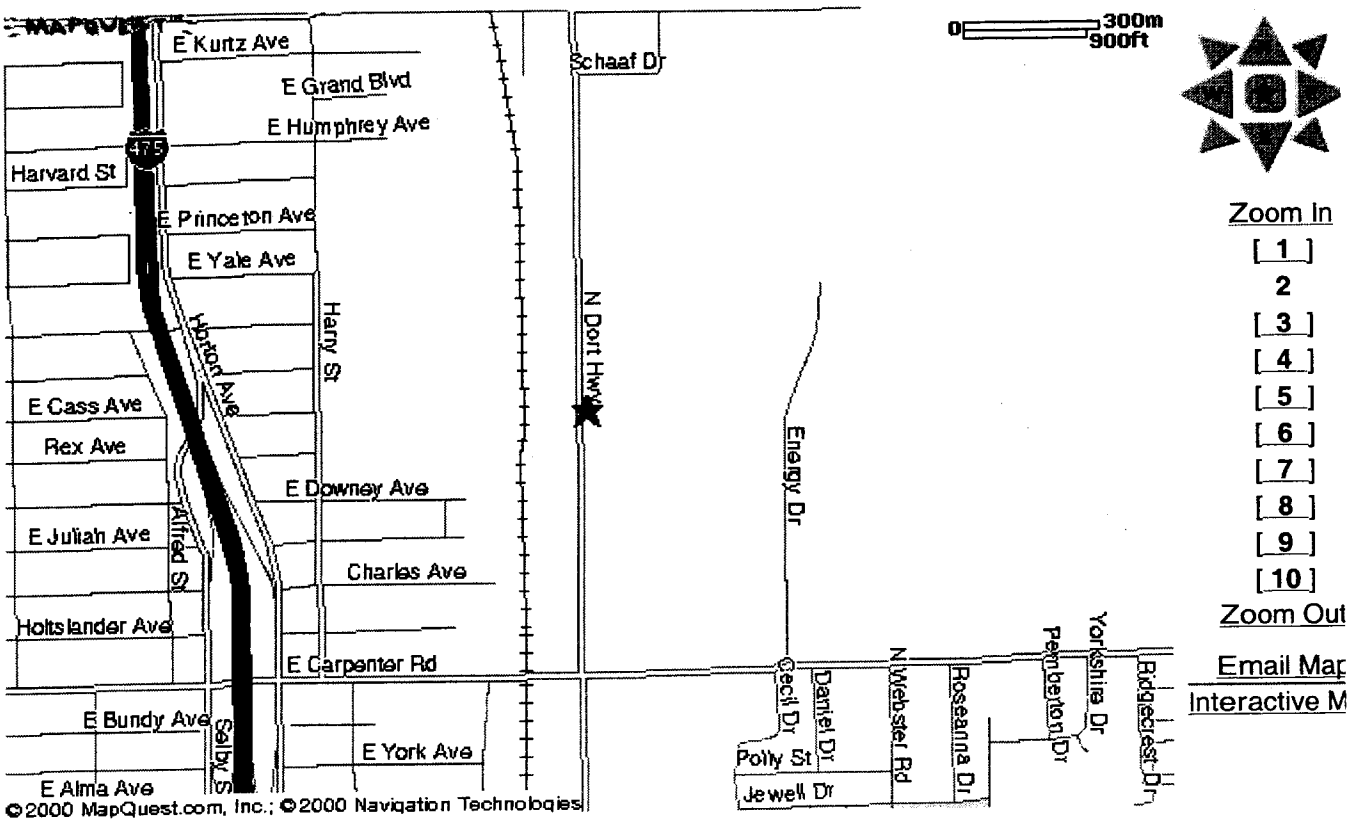
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO: W96-25-5708

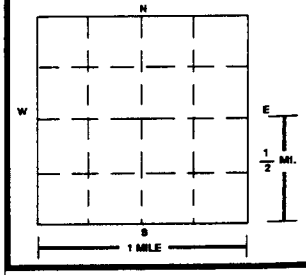
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	NW 1/4 SW 1/4 SW 1/4	20	T8N	R7E

Distance and Direction from Road Intersection: 1/2 mi. N. of Carpenter Rd. on W side of Dort Hwy on N. End of Building

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map: Caldwater Rd., Dort Hwy, Carpenter Rd.

3. OWNER OF WELL
Address: Jack Reno 5252 N. Dort Hwy Flint, MI 53

Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 200 ft. Date Completed 3/2/96 ☑ New Well ☐ Replacement Well

5. ☐ Cable Tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☐ Household ☐ Type I Public ☑ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☑ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 150 ft. depth; _____ in. to _____ ft. depth
BORE HOLE: Diameter: 7 7/8 in. to 150 ft. depth; 4 1/2 in. to 200 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☐ Shale Packer

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sod	2'	2'
Brown Clay	30'	32'
Gray Clay	80'	112'
Shale	13'	125'
Sand Stone	75'	200'

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☑ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 80 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 1 hrs. Pumping at 20 G.P.M.
☑ Plunger ☐ Bailer ☑ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☑ Pitless Adapter ☑ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☑ Yes From 0 to 150 ft.
☑ Neat Cement ☐ Bentonite ☐ Other _____
No. of Bags 42 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 76 ft. Direction SW
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Sta-Rite
Model Number 4FI0G05 HP 1/2 Volts 230
Length of Drop Pipe 130 ft. Capacity 10 G.P.M.
TYPE: ☑ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number PC 66 Capacity 6 Gallons 40

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
~~Casing Diameter~~ _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☑ Subcontractor
Name Ed Burbmeier

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Thomason Well Drilling 1271
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4480 N. Center Rd. Flint
Signed John Thomason Date 3-2-96
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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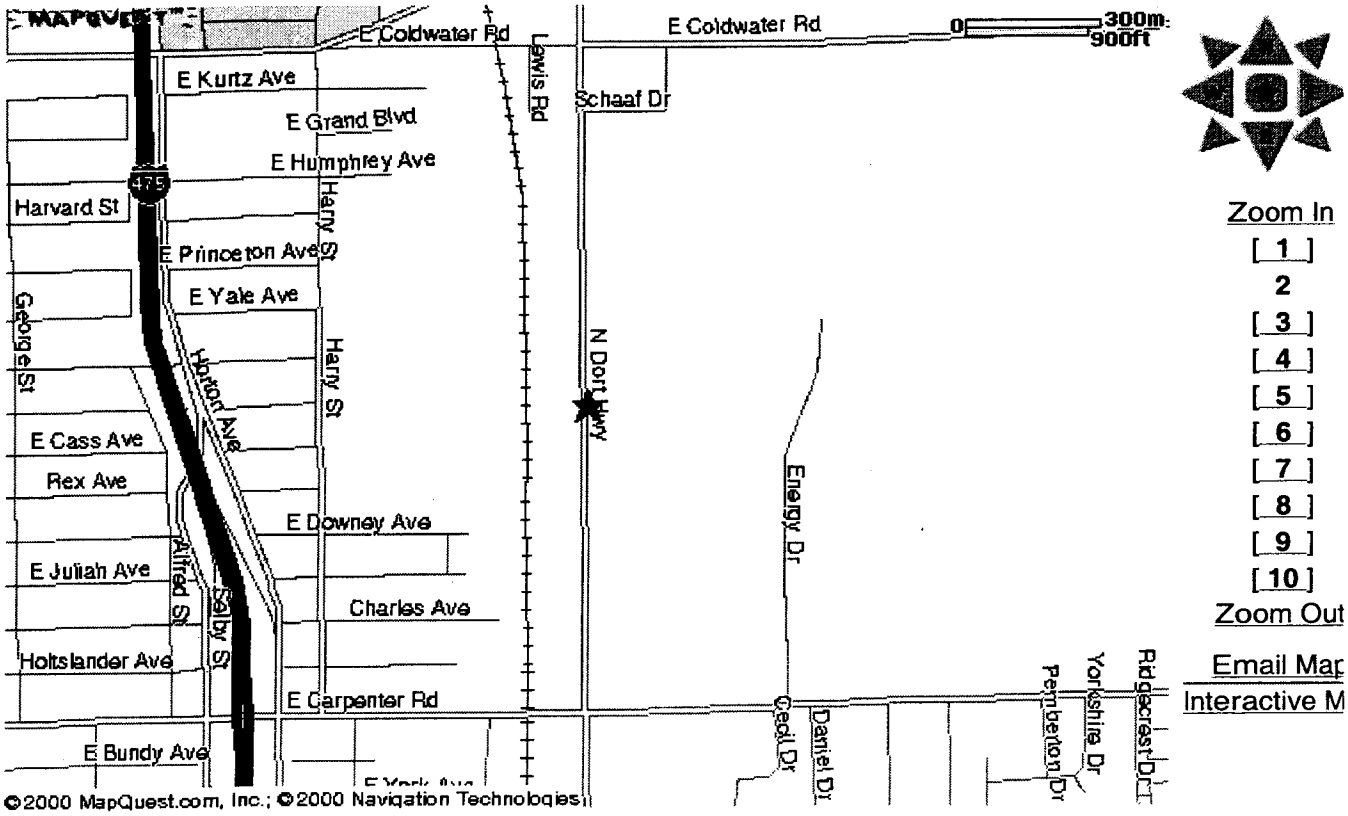
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★ **5252 North Dort Highway, Flint, MI 48505-3035** 53

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USE [illegible]

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

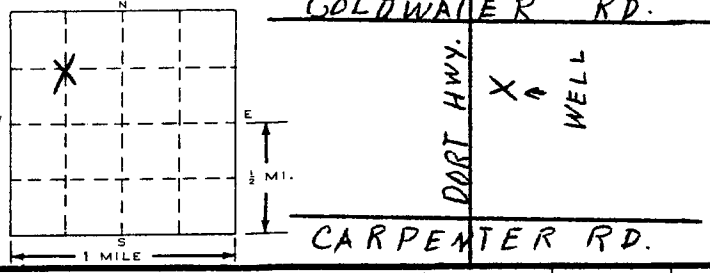
1 LOCATION OF WELL

nty	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ NW¼ NW¼	30	8 N/S.	7 E/W.

Distance And Direction from Road Intersections
¼ Mi. S. Coldwater Rd.
3/4 Mi. N. Carpenter Rd.

Street address & City of Well Location G-5300 N. Dort Hwy. Flint

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:
Kurtz Gravel Co. 54
Address G-5300 N. Dort Hwy.
Flint, Michigan

4 WELL DEPTH: (completed) Date of Completion
222 ft. July 1972

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☐ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☒ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐ Diam.
4 in. to 115 ft. Depth
___ in. to ___ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
48 ft. below land surface

10 PUMPING LEVEL below land surface
100 ft. after 2 hrs. pumping 33 g.p.m.
____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 115 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction San. Sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☒ Not installed
Manufacturer's Name ____
Model Number ____ HP ___ Volts ____
Length of Drop Pipe ____ ft. capacity ___ G.P.M.
Type: ☐ Submersible ☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Surface clay	30'	30'
Sand, course, water-bearing	15'	45'
Clay, blue & gravel mixed	65'	110'
Shale, blue	20'	130'
Sand rock, white	30'	160'
Lime stone, brown	40'	200'
Shale, black	10'	210'
Sandy shale, brown	12'	222'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
[illegible] KB
**ADDITION

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling — REGISTERED BUSINESS NAME
0032 — REGISTRATION NO.

Address 8107 N. Dort Hwy. Mt. Morris, Michigan

Signed Earl L. Lyons — AUTHORIZED REPRESENTATIVE
Date July 1972

D67d 100M (Rev. 12-68)

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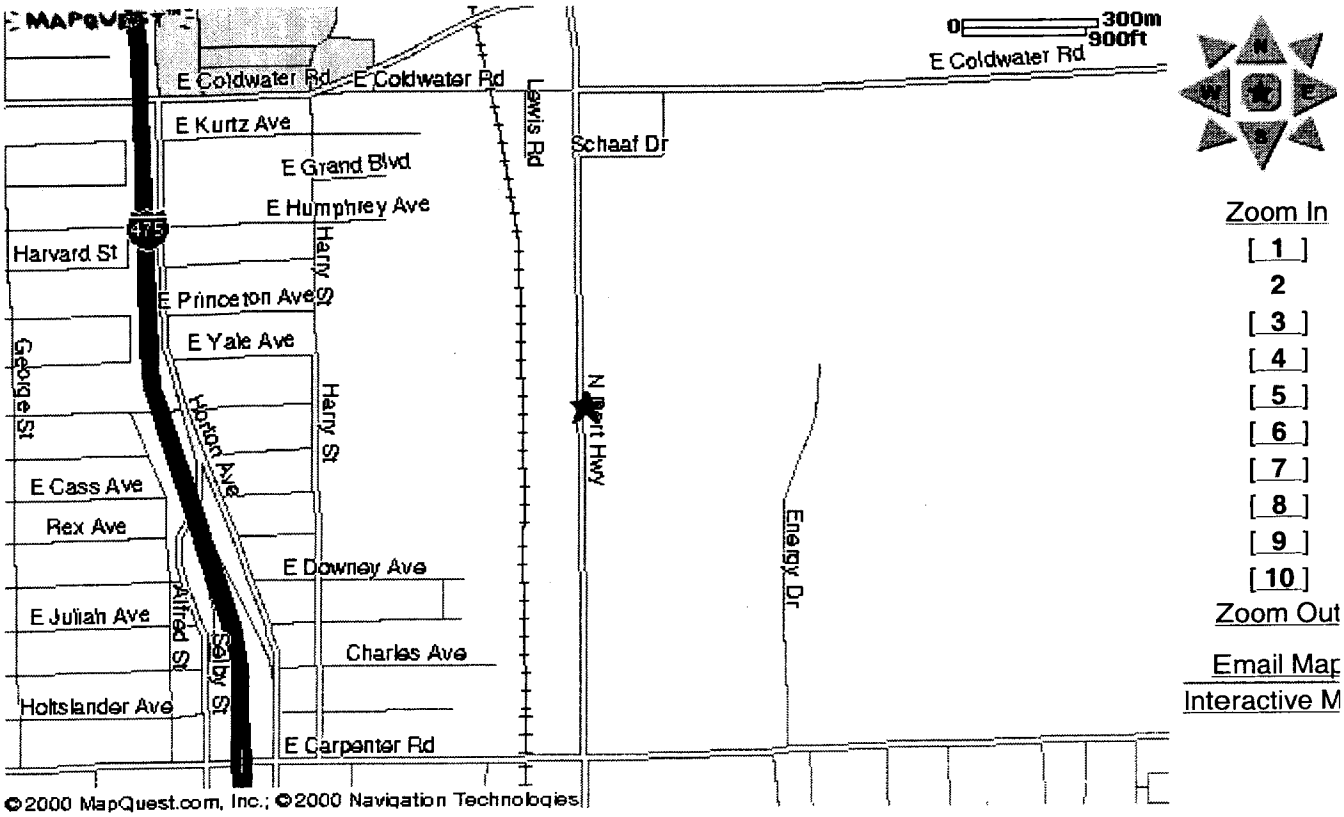
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★ **5300 N. Dort Highway, Flint, MI 48505-3037** 54

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

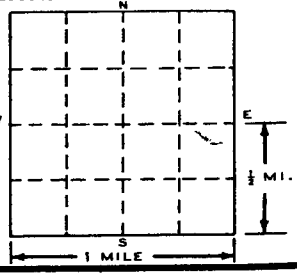
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	20	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location 5320 Dort Hwy.

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL: 55

Address: Kevin Kiefer, 5320 Dort Highway, Mt.Morris

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 220 FT. — Date Completed MO. 8 DAY 1 YEAR 87 — [X] New Well [ ] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 136 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No Boot

8 SCREEN: [ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

50 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

220 ft. after _____ hrs. pumping at 30 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [ ] Yes From _____ to _____ ft.

[ ] Neat cement [ ] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 30 ft. Direction S

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only

Manufacturer's name MacDonald

Model number K2 HP ½ Volts _____

Length of Drop Pipe 80 ft. capacity _____ G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well X-trol

Model number 203 Capacity _____ Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Black dirt & clay	12	12
Gray clay	14	26
Gravel	10	36
Clay & sand	82	118
Shale & broken rock	12	130
Soft sandstone	20	150
Limestone & sandstone	70	220

USE A 2ND SHEET IF NEEDED

RECEIVED

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15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor Well Drilling — 1590

REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 11103 Lewis Rd.

Signed Brian Taylor — Date 8.3.87

AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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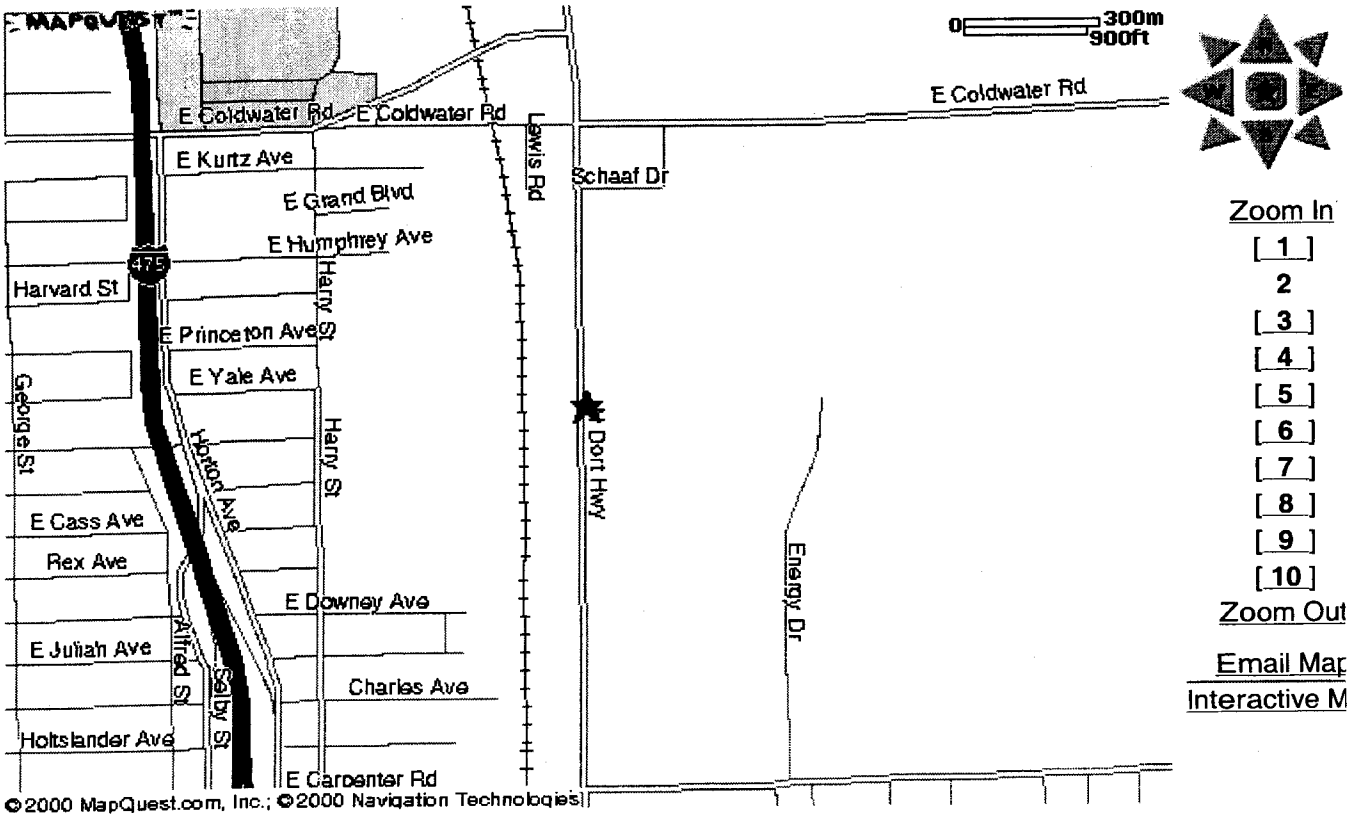
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GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

3-5-86

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	20	8 N/S	7 E/W

Distance And Direction From Road Intersection

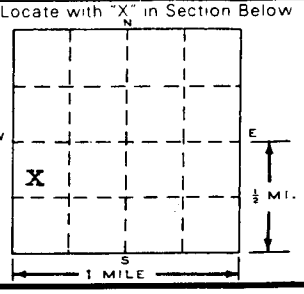
56

5420 N. Dort

Street Address & City of Well Location

Locate with "X" in Section Below

Sketch Map



3 OWNER OF WELL:

Gary Marshal

Address

715 Ann Arbor

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed) 220 ft. | **Date of Completion** 6-17-85

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☐ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☒ Body shop

7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 146 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

7 7/8 in. to 146 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface 1 ft.

Weight 2.92 lbs./ft.

Drive Shoe ☒ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	12	12
Blue Clay	36	48
Sand & Gravel	40	88
Blue Clay	50	138
Sandstone	62	200
Limestone	20	220

USE A 2ND SHEET IF NEEDED

8 SCREEN ☒ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

50 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

100 ft. after 2 hrs. pumping at 25 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 146

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sanitary Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Tait

Model number 5DL210S HP ½ Volts 230

Length of Drop Pipe 100 ft. capacity 10 G.P.M.

TYPE ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name Amtrol

Model number WX-202 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gil Sunde Well Drilling 1710

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G8013 Corunna Rd. Flint, Mi. 48504

Signed _____ Date 6-18-85

AUTHORIZED REPRESENTATIVE

D67d (Rev. 10-80)

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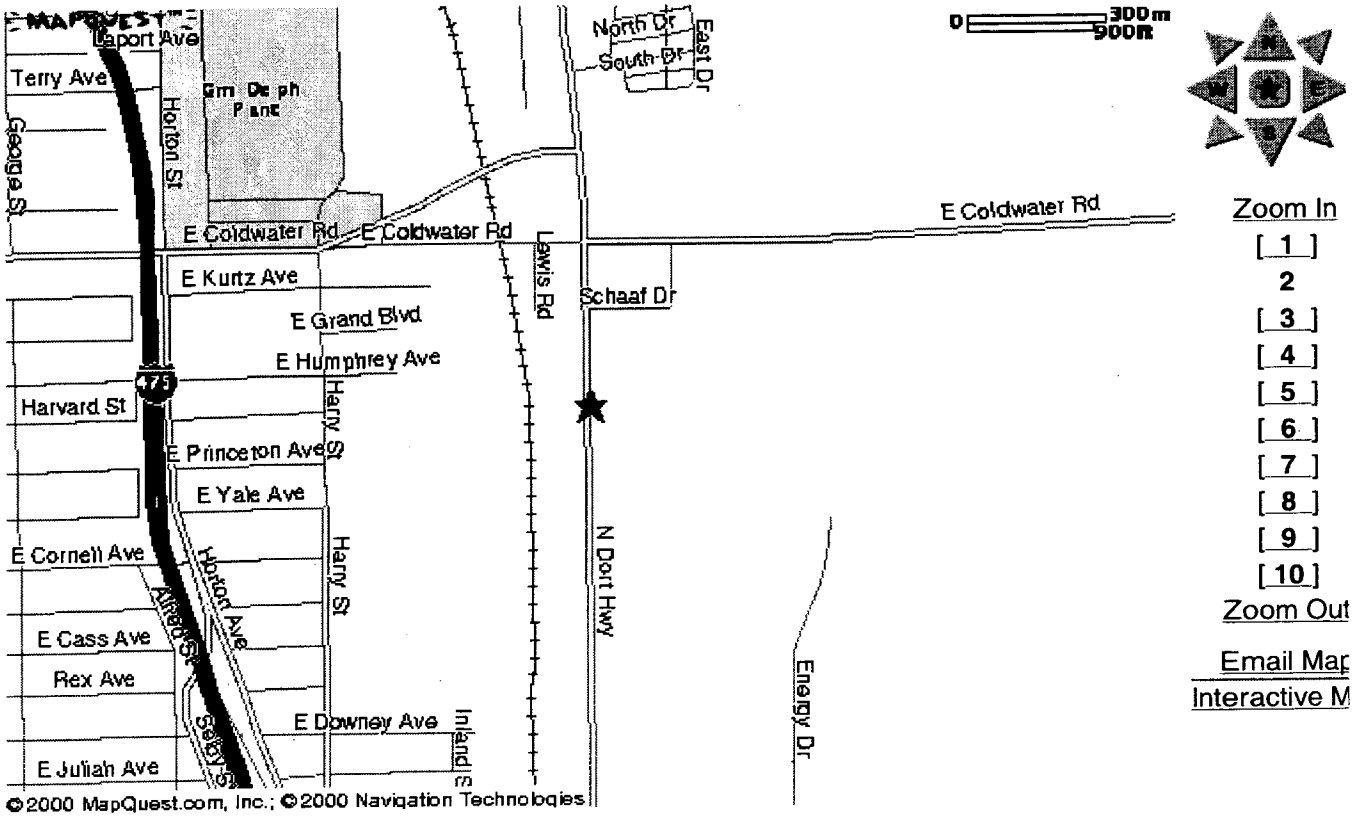
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

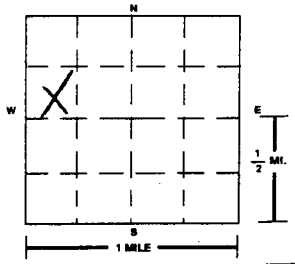
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 SW 1/4 NW 1/4	20	8 N	7 E

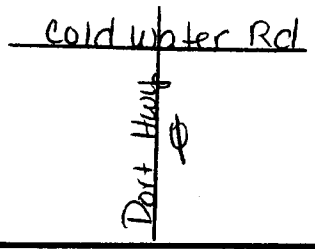
Distance and Direction from Road Intersection
South of Coldwater Rd on East.

Street Address & City of Well Location G-5432 N Dort Hwy

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Kurt Urban
Address G-5432 N Dort Hwy
Flint MI 57

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 240* ft. | Date Completed 2/23/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 149 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 149 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
78 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
240 ft. After _____ hrs. Pumping at 30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 149 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 9 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 20+ ft. Direction S
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1 Volts _____
Length of Drop Pipe 140 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 251 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	25	25
sand	13	38
clay & stones	101	139
shales	9	148
limestone, sandstone	32	180
sandstone	60	240*
*Owner stopped driller at this depth!		

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner taking the responsibility for plugging old well!!! Owner understands that the water table in this area is declining!!!

DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd Clio

Signed Brad Taylor Date 3 3 96
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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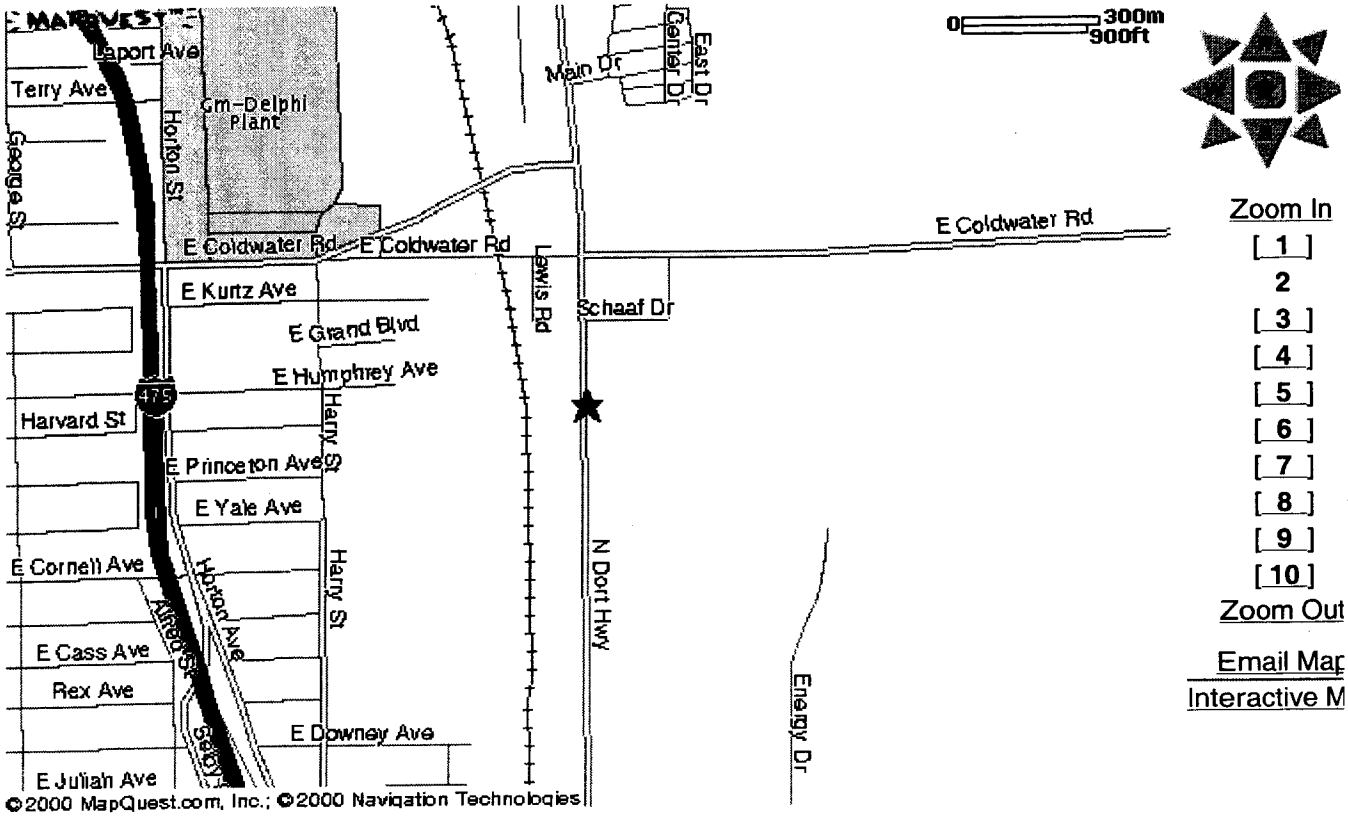
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ SW¼ SW¼	20	8N/S	7 E/W

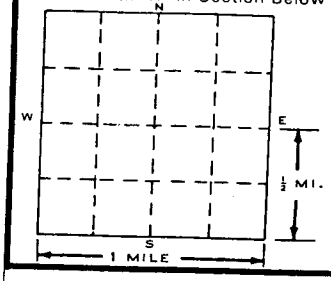
Distance And Direction From Road Intersection

tween Carpenter & Coldwater Rd. on east side.

Street Address & City of Well Location 5452 N. Dort Hwy. Mt. Morris

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL:

Vikrim Shah

Address G-4186 Corunna Rd.
Flint, MI. 48532

58

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: 230 FT. Date Completed MO. 5 DAY 31 YEAR 91 ☐ New Well ☒ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐

6 USE: ☐ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☒ Flint Motel

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 147 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above ~~Below~~ Surface 1 ft.

Weight SDR17 & SDR21 lbs./ft.

Drive Shoe ☐ Yes ☐ No Shale Boot

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

70 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface 1200–

100 ft. after 1 hrs. pumping at 1500 G.P.M. H.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 147 ft.

☒ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 100 ft. Direction W

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aermotor

Model number _____ HP 1 Volts 230

Length of Drop Pipe 100 ft. capacity 20 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well-X-Trol (2)

Model number #WX302 Capacity 440 Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown clay	20	20
Gravel	10	30
Gravely clay	40	70
Gravel	15	85
Gray clay	55	140
Sandstone	10	150
Limestone	10	160
Sandstone	20	180
Hard limestone	5	185
Sandstone	35	220
Limestone & sandstone mixed	10	230

USE A 2ND SHEET IF NEEDED

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OCT 10 1991
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

15. Remarks, elevation, source of data, etc.

17. perator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co. 25-1947
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 5370 Corunna Rd. Flint, MI. 48532

Signed William F. Burns AUTHORIZED REPRESENTATIVE Date 6-3-91

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

067d 2/89

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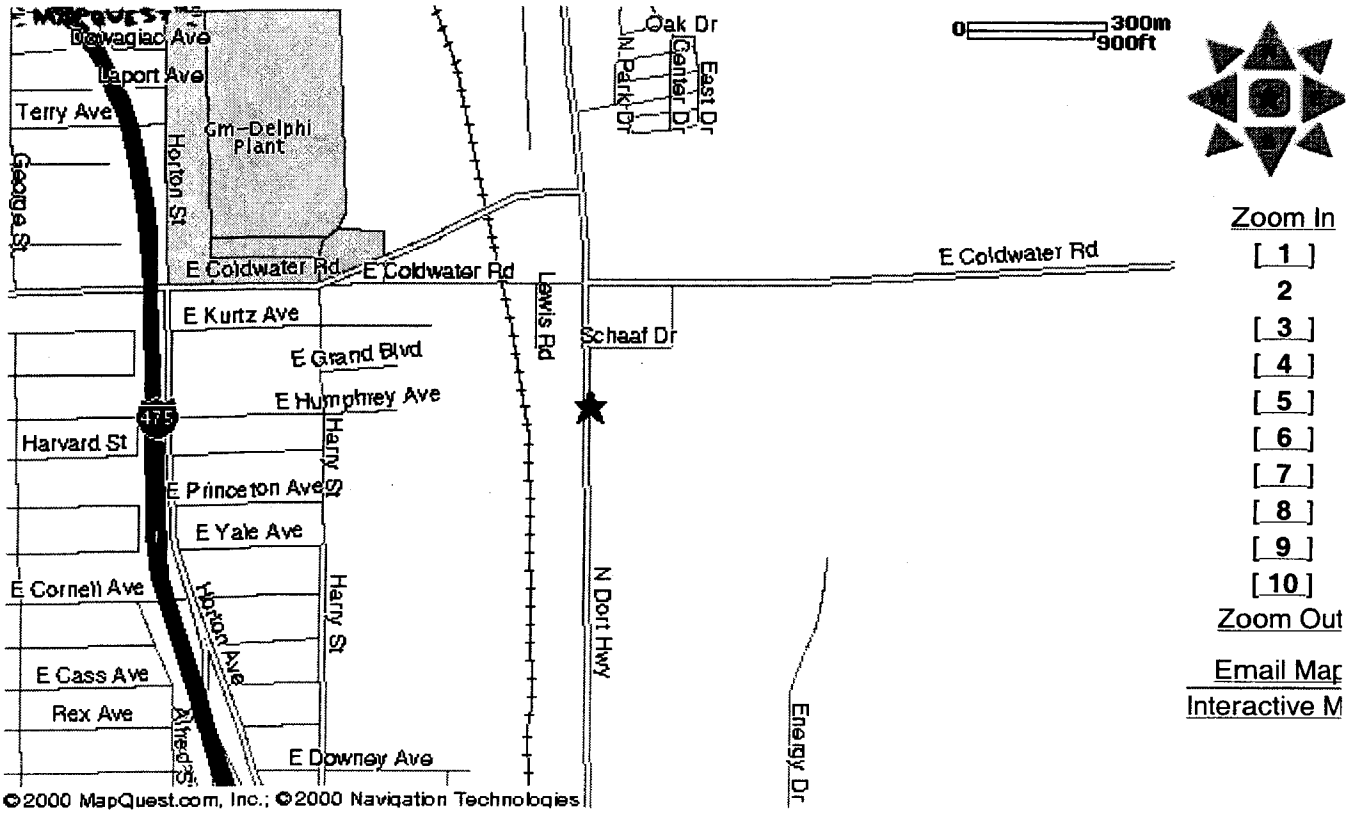
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★ **5452 North Dort Highway, Flint, MI 48505-3039** 58

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

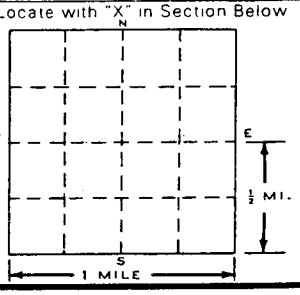
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	¼ ¼ ¼	19	8 N/S	7 E/W

Distance And Direction From Road Intersection
about .15 mi S. of Coldwater Rd.
About 95' W. of N. Dort Hwy.

Street Address & City of Well Location

Locate with "X" in Section Below — Sketch Map



3 OWNER OF WELL: DAVE KENNEDY 59

Address G-5455 N. DORT HWY FLINT, MICH

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH (completed): 200 ft. — **Date of Completion:** 6-9-86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded
5 in. to 153 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 149 ft. depth
_____ in. to _____ ft. depth
Height Above/Below Surface _____ ft
Weight PVC lbs./ft.
Drive Shoe ☒ Yes ☐ No TAPE

8 SCREEN ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL
50 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
100 ft. after _____ hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From top to 149 ft
☐ Neat cement ☒ Bentonite ☒ Other CLAY SLURRY
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SANITARY Distance 10 ft Direction NE
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name RED JACKET
Model number SDCNICN98B6 Horsepower 1/2 Volts 230
Length of Drop Pipe 100 ft. Capacity 15 G.P.M.
TYPE ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name A-O Smith
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	12	12
BLUE CLAY	12	24
SAND	14	38
BLUE CLAY	97	141
GREEN SANDY SHALE	11	152
BROWN SHALE	12	164
GREEN SHALE	11	175
GREEN SANDSTONE	25	200

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JUN 25 1986
Bureau of Environmental and Occupational Health GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING — REGISTERED BUSINESS NAME — 0202 REGISTRATION NO.

Address 4426 GREGOR ST GENESEE, MICH

Signed DAVID PERIOR AUTHORIZED REPRESENTATIVE — Date 6-10-86

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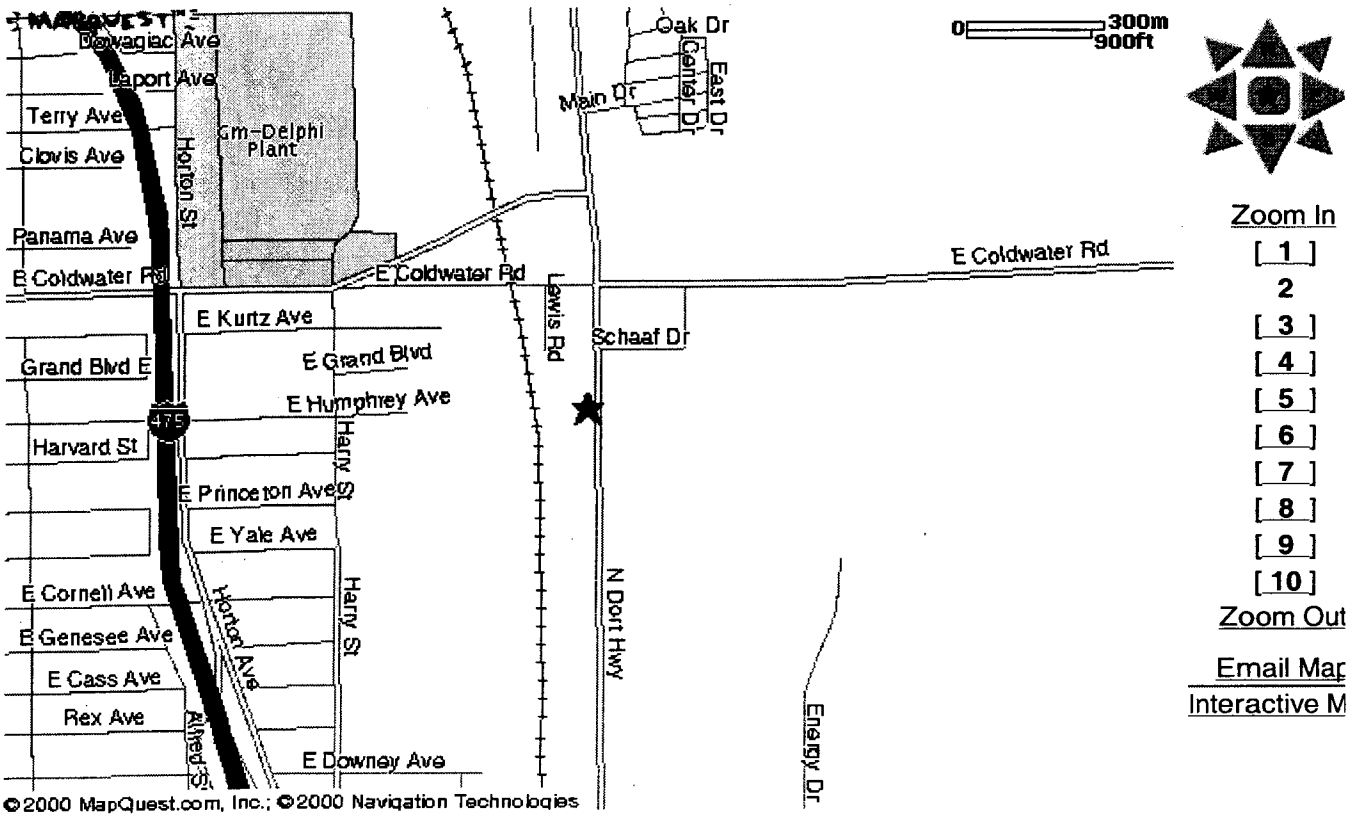
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Genesee	SW NW¼ NW¼ ¼	20	8 N S.	7 E W.

Distance And Direction from Road Intersections

OWNER No.

Street address & City of Well Location: G 5469 N. Dort Hwy

3 OWNER OF WELL: 60

The Stables

Address: G 5469 N Dort Hwy.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	30	30
Blue Clay	110	140
Sand Stone	72	212

4 WELL DEPTH: (completed) 212 ft. Date of Completion 2/6/68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 4 in. to 140 ft. Depth — Threaded ☒ Welded ☐

Height: Above/Below surface 1 ft.

Weight ___ lbs/ft.

Drive Shoe? Yes ☒ No ☐

___ in. to ___ ft. Depth

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL

52 ft. below land surface

10 PUMPING LEVEL below land surface

80 ft. after 2 hrs. pumping 25 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade

13 GROUTING:

Well Grouted? ☒ Yes ☐ No Muds

Material: ☐ Neat Cement ☐ ___

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

75+ feet ___ Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name NONE

Model Number ___ HP ___

Length of Drop Pipe ___ ft. capacity ___ G.P.M.

Type: ☐ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER. ITEM NO.

.RECTED BY:

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gilbert Sunde Well Drilling 0169

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G 1302 Krsul's Dr.

Signed ___ Date 2/17/68

AUTHORIZED REPRESENTATIVE

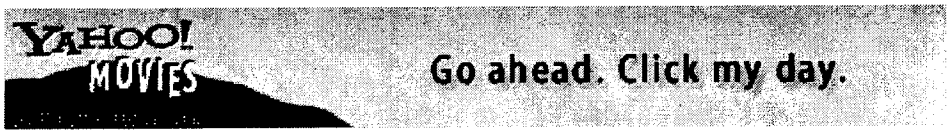
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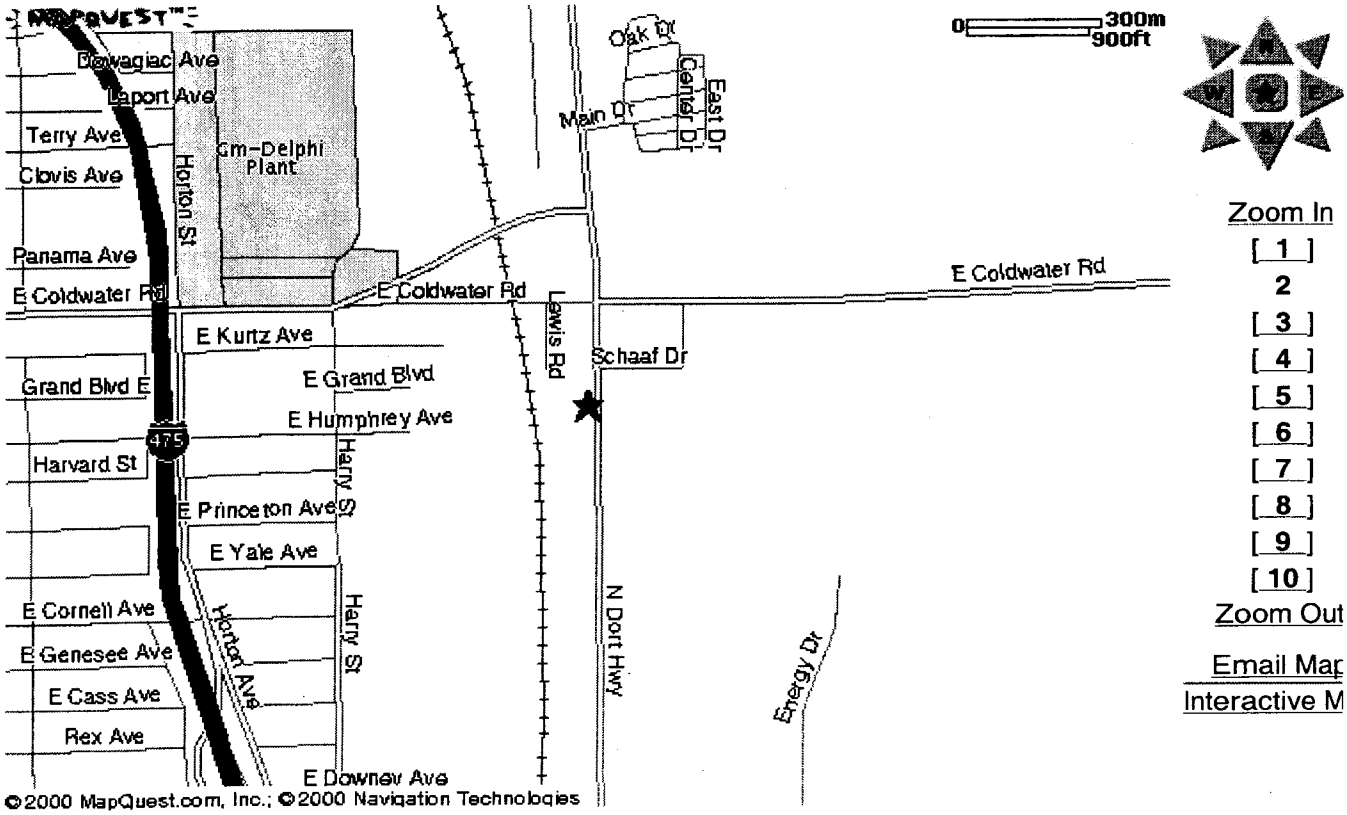
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GEOLOGICAL SURVEY SAMPLE No.

3 MAR 2 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

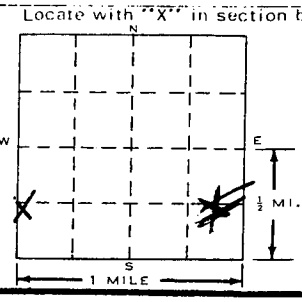
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW¼ SW¼ SW¼	17	8 N/S.	7 E/W.

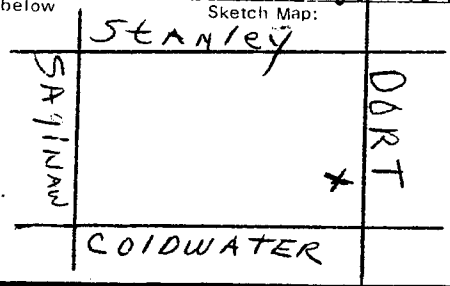
Distance And Direction from Road Intersections
¼ mile N. Coldwater Rd. W side
3/4 mile S Stanley Rd.

Street address & City of Well Location G-6129 N. Dort Hwy. Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: Dort Chemical
Address G-6129 N. Dort Hwy.
Mt. Morris, MI 61

4 WELL DEPTH: (completed) 242 ft. Date of Completion Jan. 19, 1977

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 195 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
80 ft. below land surface

10 PUMPING LEVEL below land surface
238 ft. after 3 hrs. pumping 33 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 195 ft.

14 Nearest Source of possible contamination
75 feet S Direction septic Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Webtrol
Model Number 102SC58CS-B HP ½ Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
Type: ☒ Submersible ☐ Jet ☐ Reciprocating

2

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	20'	20'
Clay & Gravel	35'	55'
Gravel	30'	85'
Clay & Gravel	75'	160'
Sand & Gravel	20'	180'
Clay & Gravel	15'	195'
Limestone	10'	210'
White Sandstone	32'	242'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB
**ADDITION BY
ELEVATION

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)
Address G-8107 N. Dort Hwy. Mt. Morris, MI
Signed Earl Lyons (AUTHORIZED REPRESENTATIVE) Date Jan 19, 1977

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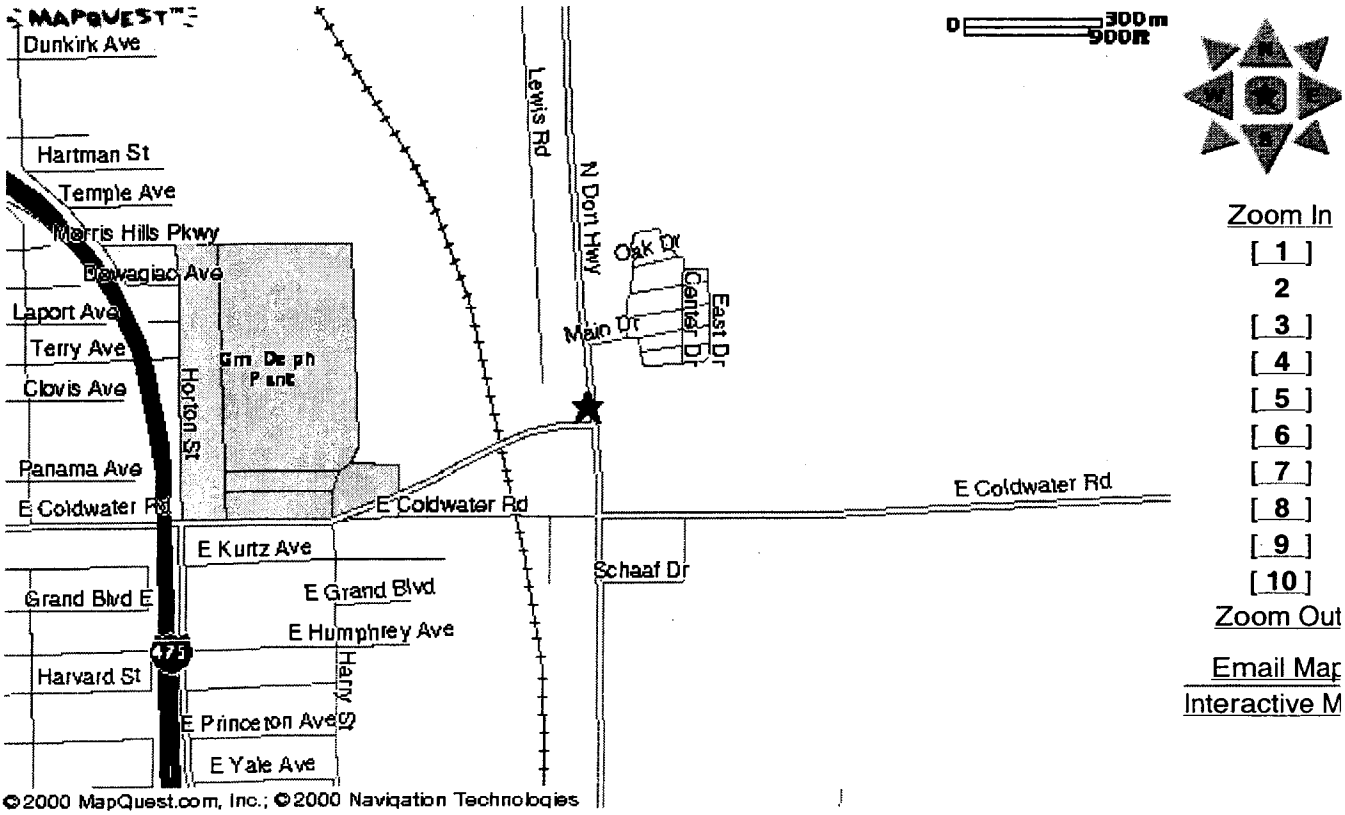
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DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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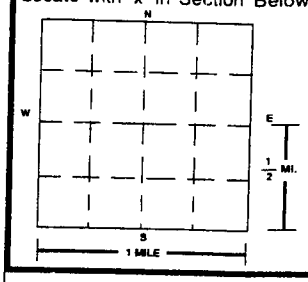
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	SW 1/4 NW 1/4 SW 1/4	17	8N	7E

Distance and Direction from Road Intersection
ABOUT .1 MI. N. OF COLDWATER RD.
ABOUT 250' E. OF DORT HWY.

Street Address & City of Well Location G-6136 N. DORT HWY.

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL
Address GUNTHIER MOBILE HOME CT.
G-6136 N. DORT HWY. 62
Address Same as Well Location [X] Yes [ ] No

4. WELL DEPTH: 300 ft. | Date Completed 06/28/99 | [ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ]

6. USE: [ ] Household [X] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ]

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [X] Welded [ ] Other
Diameter: 5 in. to 203 ft. depth
in. to ft. depth
BORE HOLE:
Diameter: 8.5 in. to 201 ft. depth
in. to ft. depth
Height: Above/Below Surface: ft
Weight: lbs./ft.
[ ] Drive Shoe [ ] Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	10	10
B CLAY	57	67
GRAVEL	3	70
B CLAY	3	73
GRAVEL	7	80
B CLAY	100	180
BR SHALE	18	198
G SANDSTONE STRIPS SHALE	102	300

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8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type Diameter
Slot/Gauze Length:
Set Between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen ft. Other

9. STATIC WATER LEVEL:
102 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
180 ft. After 8 hrs. Pumping at 27.5 G.P.M.
[ ] Plunger [ ] Bailer [ ] Air [X] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 0 to 201 ft.
[ ] Neat Cement [X] Bentonite [ ] Other
No. of Bags 11 Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type SANI Distance 50+ ft. Direction E
Type Distance ft. Direction

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name GOULDS
Model Number 25GS20442 HP 2 Volts 440
Length of Drop Pipe 180 ft. Capacity 27.5 G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other
PRESSURE TANK:
Manufacturer's Name GOULDS
Model Number GALV Capacity Gallons 120

15. ABANDONED WELL PLUGGED? [X] Yes [ ] No
Casing Diameter 4 in. Depth 35 ft.
PLUGGING MATERIAL:
[ ] Cement/Bentonite Slurry [ ] Neat Cement [ ] Bentonite Slurry
[ ] Concrete Grout [X] Bentonite Chips
No. of Bags 4+ Casing Removed? [ ] Yes [X] No

16. REMARKS: (Elevation, Source of Data, etc.)
PUMP MOTOR WEDGED INTO CASING & BROKE OFF WET END. COULD NOT MOVE. HOLE PLUGGED TO IT. 35' DOWN.

17. DRILLING MACHINE OPERATOR:
[ ] Employee [X] Subcontractor
Name BRIAN PERIOR

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
PERIOR WELL DRILLING — 0202
REGISTERED BUSINESS NAME — REGISTRATION NO.
Address 10045 DODGE RD. MONTROSE
Signed AUTHORIZED REPRESENTATIVE Date 6/28/99

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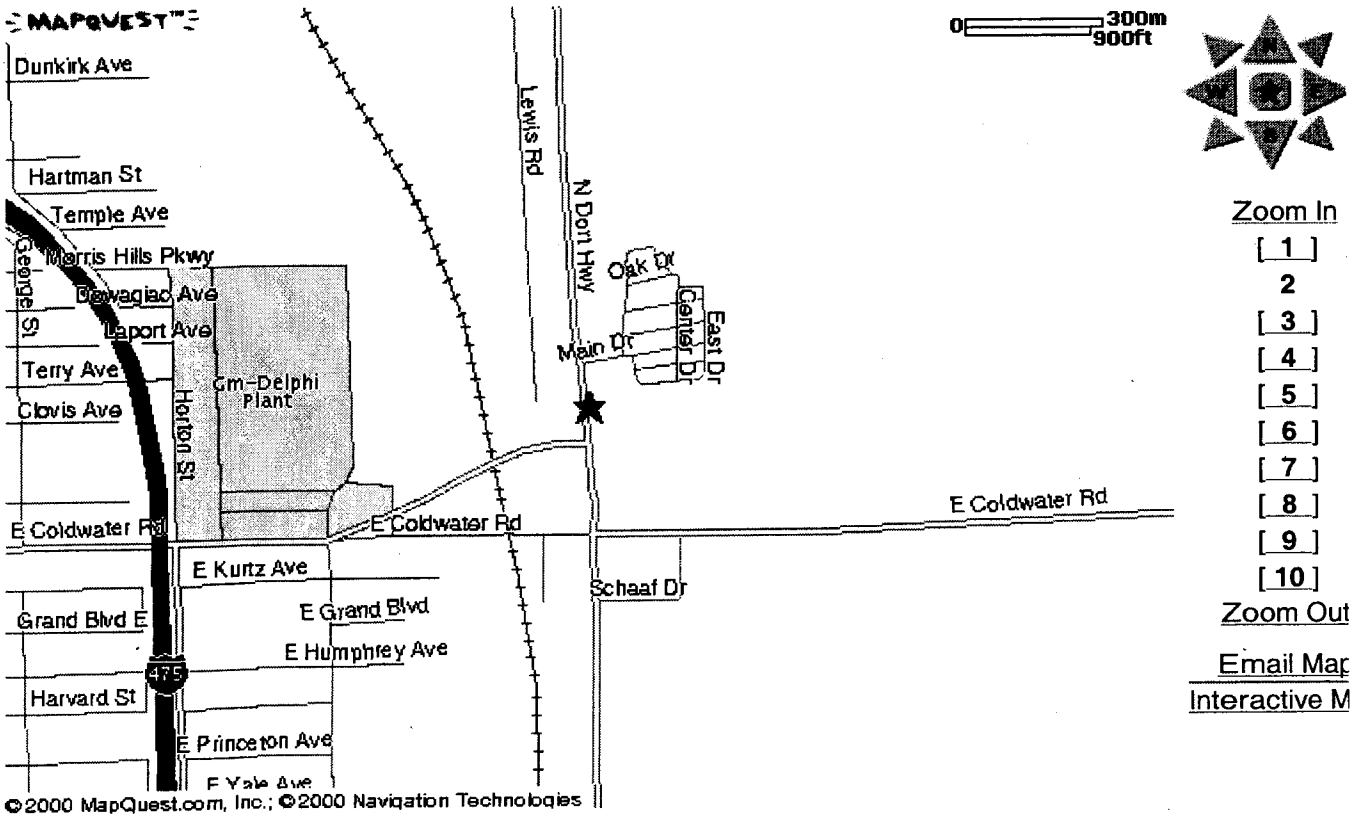
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW ¼ NW ¼ NW ¼	17	8 N/S	7 E/W

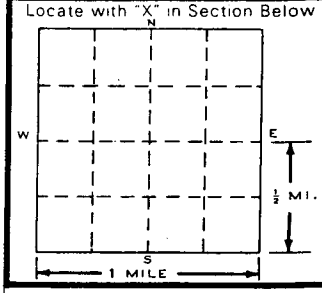
Distance And Direction From Road Intersection

Between Coldwater & Stanley Rd. on east side.

Street Address & City of Well Location G-6190 N. Dort Hwy. Mt. Morris

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL:

63

Name Lathan Jefferson

Address G-6190 N. Dort Hwy. Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

260 FT.

Date Completed MO. 7 DAY 22 YEAR 92

[ ] New Well [X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug

[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public

[ ] Irrigation [ ] Type IIa Public [ ] Heat pump

[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 203 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above ~~Below~~ Surface 1 ft.

Weight SDR17 lbs./ft. & SDR21

Drive Shoe [ ] Yes [ ] No Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	20	20
Sand & clay	55	75
Gravel	10	85
Gray clay	112	197
Limestone & sandstone mixed	23	220
Sandstone	35	255
Shale	5	260

8 SCREEN:

[ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

100 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

120 ft. after 1 hrs. pumping at 2000 G.P.M/ H.

_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade

[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 0 to 203 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Webtrol

Model number _____ HP 1/2 Volts 230

Length of Drop Pipe 120 ft. capacity 10 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well-Rite

Model number WR120-04 Capacity 80 Gallons

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Mich. Dept. of Public Health
OCT 12 1992

USE A 2ND SHEET IF NEEDED

BUREAU OF ENVIRONMENTAL AND COMMUNITY HEALTH SERVICES

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co. 25-1947
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 5370 Corunna Rd. Flint, MI. 48532

Signed William K Burns Date 7-22-92
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor

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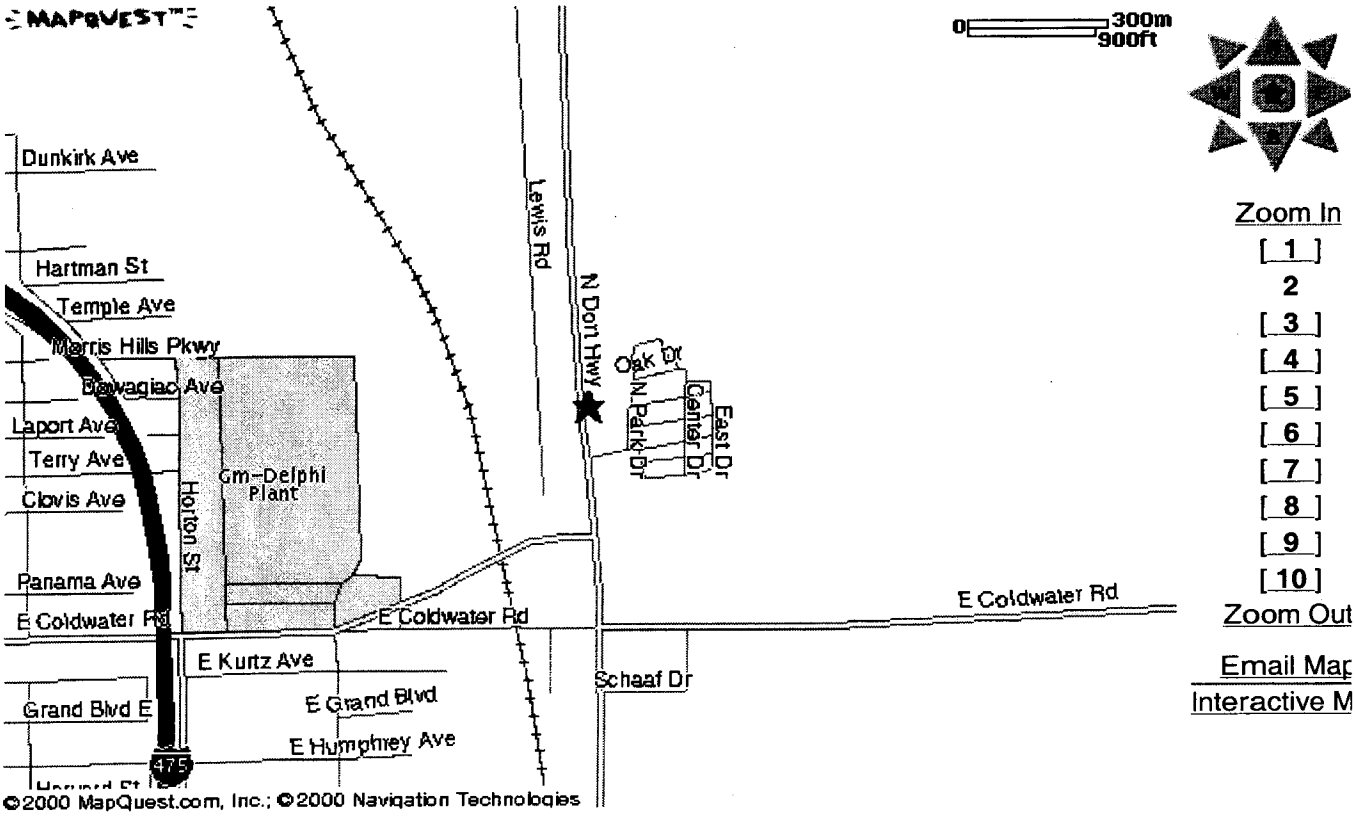
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	¼ NE ¼ SE ¼	18	8 N/S	7 E/W

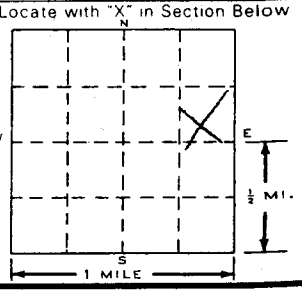
Distance And Direction From Road Intersection

North of Coldwater Rd. ½ mile on West.

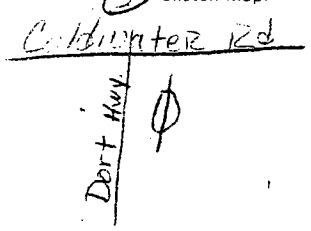
64)

Street Address & City of Well Location 6203 N Dort HWY

Locate with "X" in Section Below



(5) Sketch Map:



3 OWNER OF WELL

Address: Neat Development
G-3483 Flushing Rd
Flushing

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH

264 FT.

Date Completed: MO. 6 DAY 16 YEAR 93

☒ New Well ☐ Replacement Well

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☐ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 201 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
9 in. to 201 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No
Boot

8 SCREEN

☐ Not Installed

Type NA Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

87 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

264 ft. after _____ hrs. pumping at 30340 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 201 ft

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type sewer Distance 30 ft. Direction E

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name McDonald

Model number K2 HP ½ Volts _____

Length of Drop Pipe 120 ft. capacity _____ G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name Well X-trol

Model number 203 Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
sandy and clays	15	15
gray clay	53	68
clay, sand, gravel	16	84
gray clay	6	90
ay and gravel	11	101
gray clay and stones	90	191
limestone and soft sandstone	64	255
slate	9	264

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:
Brad Taylor

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd Clio

Signed Brad Taylor Date 7 7 93
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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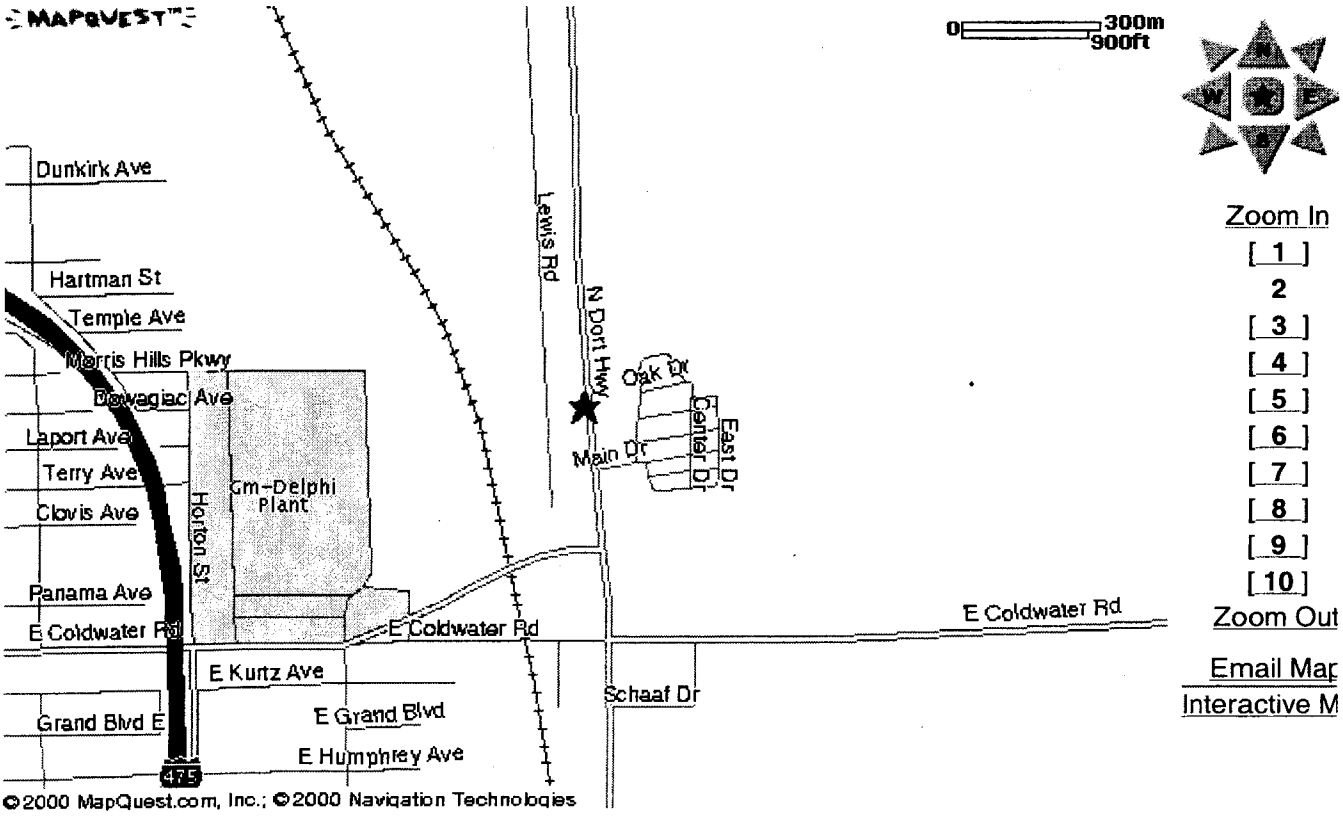
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

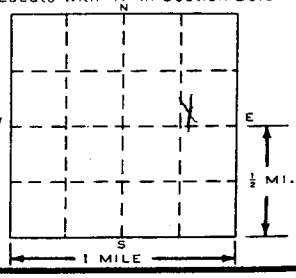
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	~~Gnee~~ Genesee	SW ¼ se ¼ ne ¼	18	8 N/S	7 E/W

Distance And Direction From Road Intersection

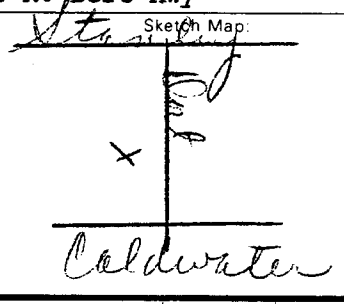
Between Coldwater and Stanley Rd. W. Side

Street Address & City of Well Location 6339 N. Dort Hwy

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Mark's Paving Inc. 65
Address 6339 N. Dort Hwy
Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 260m FT. | Date Completed MO 5 DAY 21 YEAR 93 | [X] New Well [ ] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [ ] Domestic [ ] Type I Public [X] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to 175 ft. depth
_____ in. to _____ ft. depth
Ground Drill Hole Diameter
8 in. to 175 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe [ ] Yes [ ] No

8 SCREEN: [ ] Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL
90 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
240 ft. after 2 hrs. pumping at 50 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 1 to 175 ft.
[X] Neat cement [ ] Bentonite [ ] Other _____
No. of bags of cement 9 Additives _____

13 Nearest source of possible contamination
Type San. Sewer Distance _____ ft. Direction _____
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Red Jacket
Model number 505EW1 HP 1/2 Volts 230
Length of Drop Pipe 140 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK
Manufacturer's name Challenger
Model number 202 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15'	15'
Sand	8'	23'
Clay	142'	165'
Green Sandstone	75'	240'
Gray Sandstone	20'	260'

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
SEP 13 1993
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N. Dort Hwy. Mt. Morris, MI. 48458
Signed _____ Date 8-27-93
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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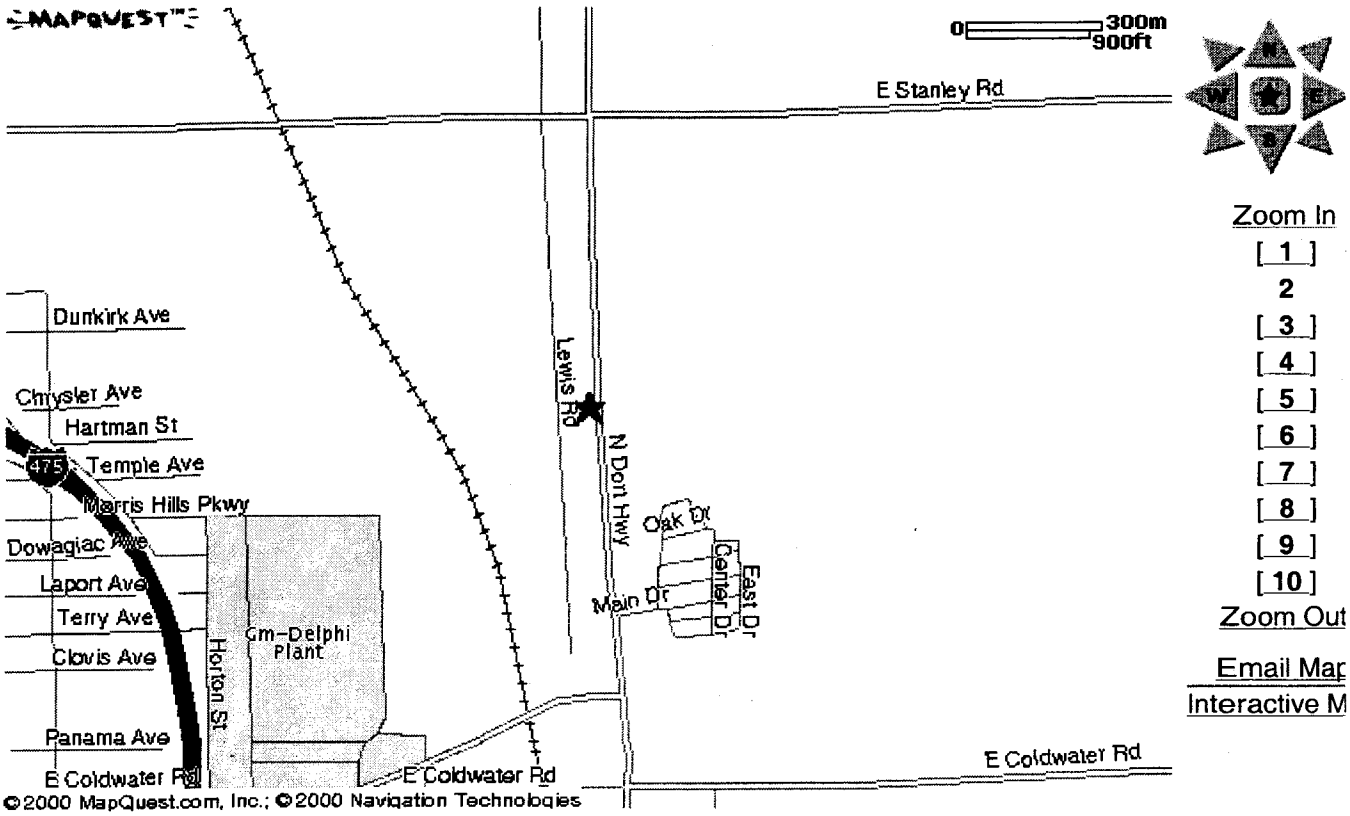
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
GENESEE	GENESEE	NW¼ SE¼ NW¼	17	8N N/S.	7E E/W.

Distance And Direction from Road Intersections: 320 ft. S. of E. Stanley Rd. 264 ft E. of N. Dort Highway

OWNER No.

Street address & City of Well Location: G6368 N. Dort Highway Mt. Morris.

3 OWNER OF WELL: Armida's Nursing Home

Address: G6368 N. Dort Highway (66) Mt. Morris.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	12	12
Blue Clay	19	31
Sandy	11	42
Blue Clay	31	73
Blue Clay (Graveley)	88	161
White Shale	7	168
Grey Shale (Hard)	1	169
Soft. Sandy Shale	6	175
Brown Shale	3	178
Grey Sandstone	15	193
Grey Shale (Hard	6	199
Sandstone & Shale Mix	57	256
Black Shale	22	258
Grey Sandstone (Hard	25	283
Tightly Cemented Light Brown Shale	4	287
Grey Sand Stone	41	328
Brown Shale	3	331
Grey Sandstone	14	345
Grey Sandy Shale	3	348

4 WELL DEPTH: (completed) 327 ft. Date of Completion 3-22-69

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 4 in. to 174 ft. Depth; Threaded ☐ Welded ☒; Height: Above/Below surface Surface ft.; Weight 11 lbs/ft.; ___ in. to ___ ft. Depth; Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL 52 ft. below land surface

10 PUMPING LEVEL below land surface

102 ft. after ___ hrs. pumping 11 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☒ Yes ☐ No Quickgel #

Material: ☐ Neat Cement ☐ Clay Mix

Depth: From Top ft. to 174 ft.

14 SANITARY:

Nearest Source of possible contamination

75 ft feet S.E & S.S.W Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name Not Installed

Model Number ___ HP ___

Length of Drop Pipe ___ ft. capacity ___ G.P.M.

Type: ☐ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data: Salty water in the bottom of hole, sealed back to 327 ft. with a lead pack

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B.E. Perior Well Drilling 0202

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4189 Gregor St. Genesee

Signed Bud Perior Date 3-25-69

AUTHORIZED REPRESENTATIVE

D67D 100M 6-66

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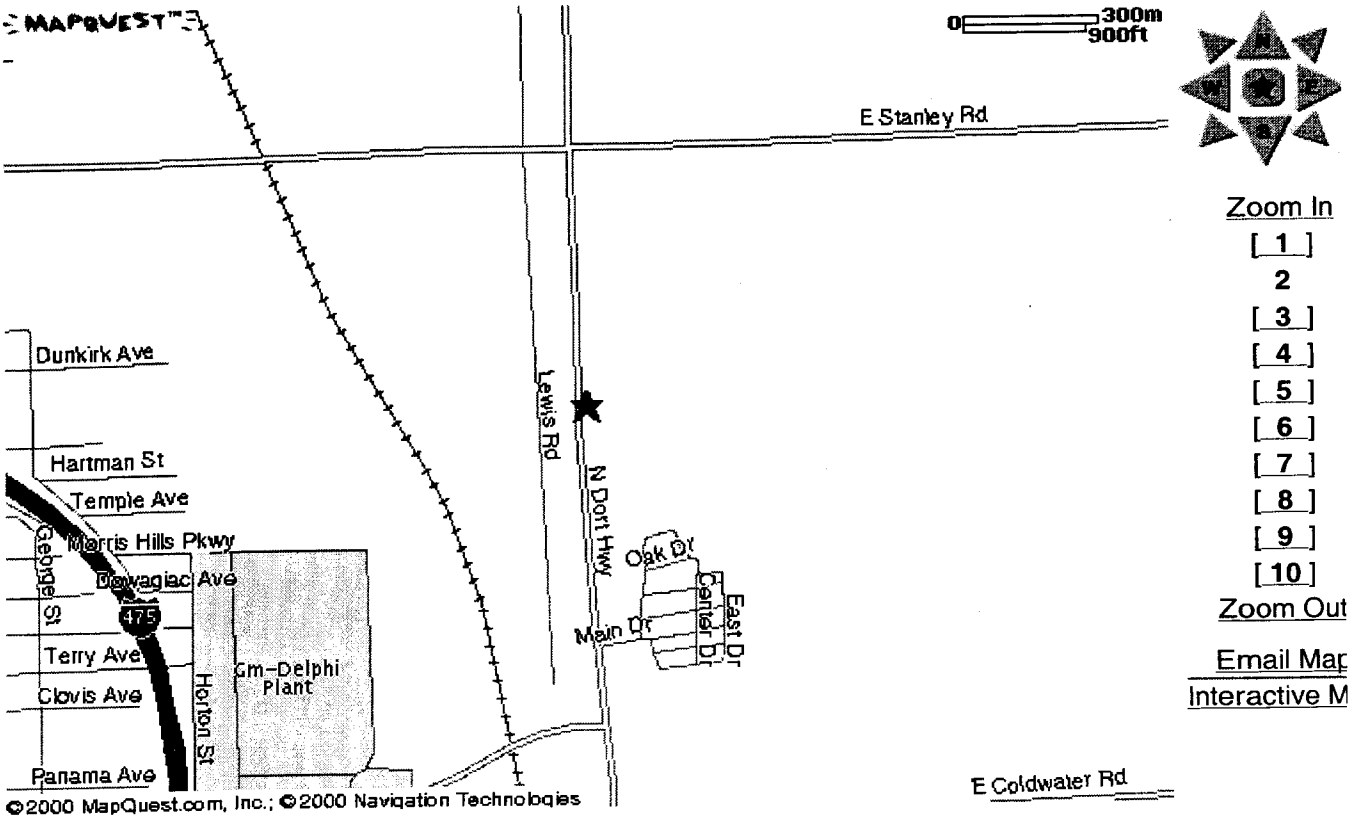
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

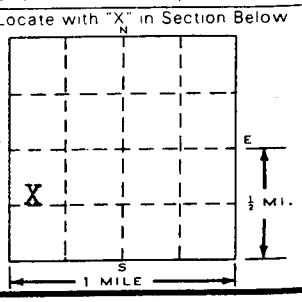
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Northwoods RV Country 67

Address 6369 N. Dort Hwy.

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed)

230 ft.

Date of Completion: 8-9-85

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 175 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

7 7/8 in. to 175 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface 1 ft.

Weight 2.82 lbs./ft.

Drive Shoe [X] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	22	22
Blue Clay	31	53
Sand & Gravel	37	90
Blue Clay	78	168
Sandstone	12	180
Limestone	8	188
Sandstone	42	230

USE A 2ND SHEET IF NEEDED

8 SCREEN

[X] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft Other _____

9 STATIC WATER LEVEL

80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

150 ft. after 2 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [X] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 0 to 175 ft

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sanitary Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[X] Not installed [ ] Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

TYPE [ ] Submersible [ ] Jet _____

PRESSURE TANK

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gil Sunde Well Drilling 0169

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G8013 Corunna Rd. Flint, Mi. 48504

Signed Gilbert Sunde Date 8-12-85

AUTHORIZED REPRESENTATIVE

SLM

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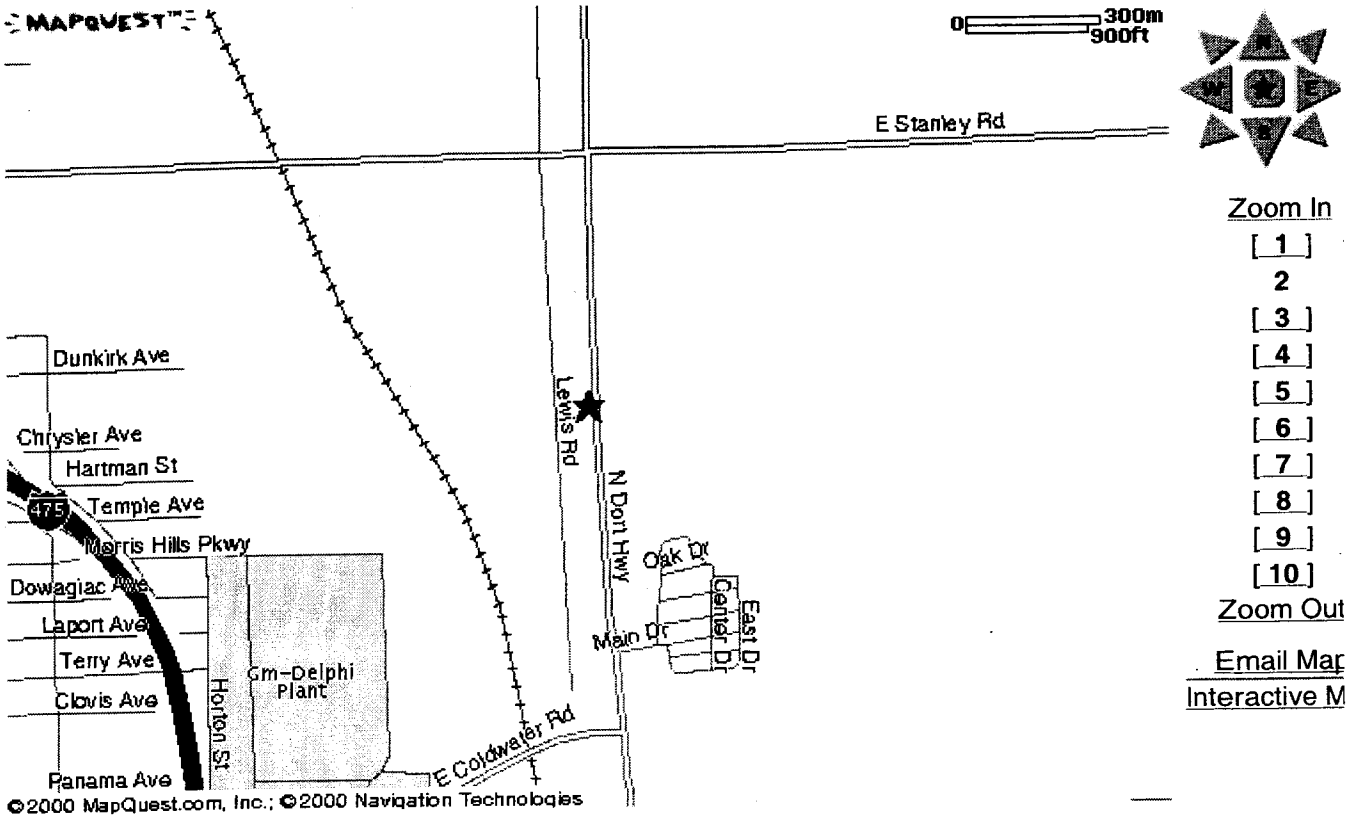
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

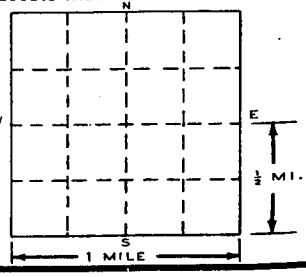
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	7 N/S	7E E/W

Distance And Direction From Road Intersection

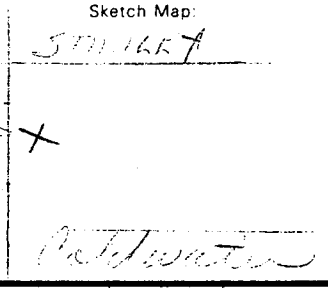
Between Stanley and Coldwater E. Side

Street Address & City of Well Location G-6406 N. Dort. Hwy.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: James Todd 68

Address G-6406 N. Dort. Hwy. Mt. Morris, MI. 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 220 ft. Date of Completion Nov. 24, 1987

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 174 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter 8 in. to 174 ft.

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe Sdr. 21 ☐ Yes ☐ No

Shale Bedr.

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	30'	30'
Sand	12'	42'
Clay	85'	127'
Sandstone	18'	145'
Limestone	23'	168'
Green Sandstone	12'	180'
Limestone	18'	198'
Quartz	16'	214'
Sandstone	5'	220'

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

70 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

172 ft. after 2 hrs. pumping at 25 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 174 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Septic Distance 50+ ft. Direction N

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Red Jacket

Model number 50CNW0 HP ½ Volts 115

Length of Drop Pipe 120 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name Well X-Trol

Model number 202 Capacity 20 Gallons

RECEIVED
Mich. Dept. of Public Health
JAN 25 1988
Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 18886

REGISTERED BUSINESS NAME 6406 N. Dort. Hwy. Mt. Morris, MI REGISTRATION NO.

Address _____

Signed _____ Date 12-1-87

AUTHORIZED REPRESENTATIVE

D67d 2/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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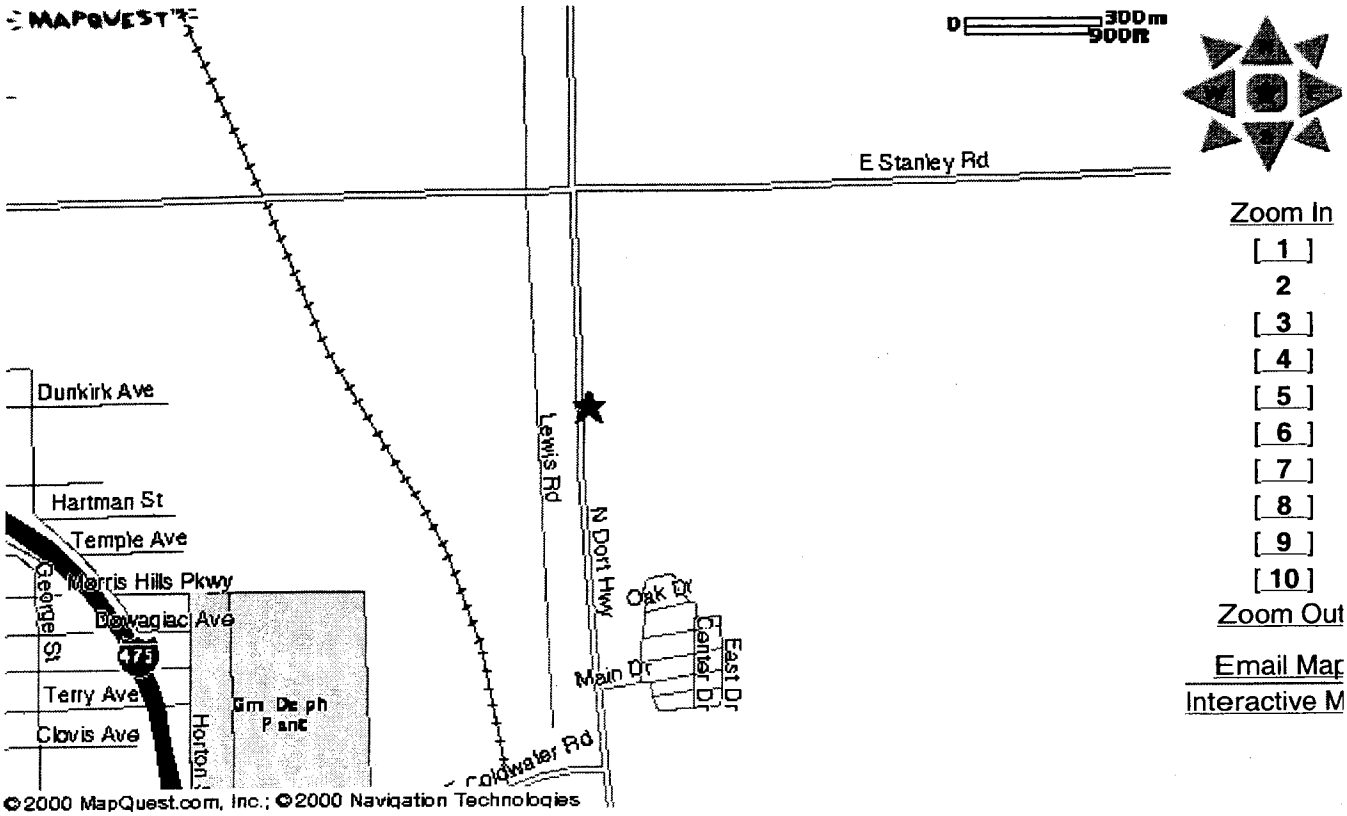
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

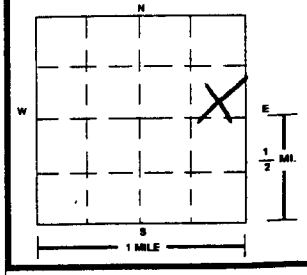
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 SE 1/4 NE 1/4	18	8 N	7 E

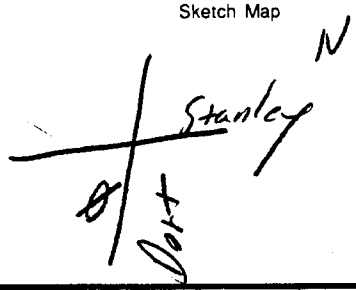
Distance and Direction from Road Intersection: South of Stanley Rd on West.

Street Address & City of Well Location: G-6409 N Dort Hwy

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Ted Lee 69
Address: G-6409 N Dort Hwy, Mt Morris MI
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 265 ft. | Date Completed: 12/29/95 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 199 ft. depth; _____ in. to _____ ft. depth
BORE HOLE: Diameter: 9 in. to 199 ft. depth; _____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	192	192
limestone	3	195
sandstone, slate	70	265

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. ☐ Other _____

9. STATIC WATER LEVEL: 90 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
265 ft. After _____ hrs. Pumping at 25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 199 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 11 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 12+ ft. Direction E
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 130 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 1-7-96

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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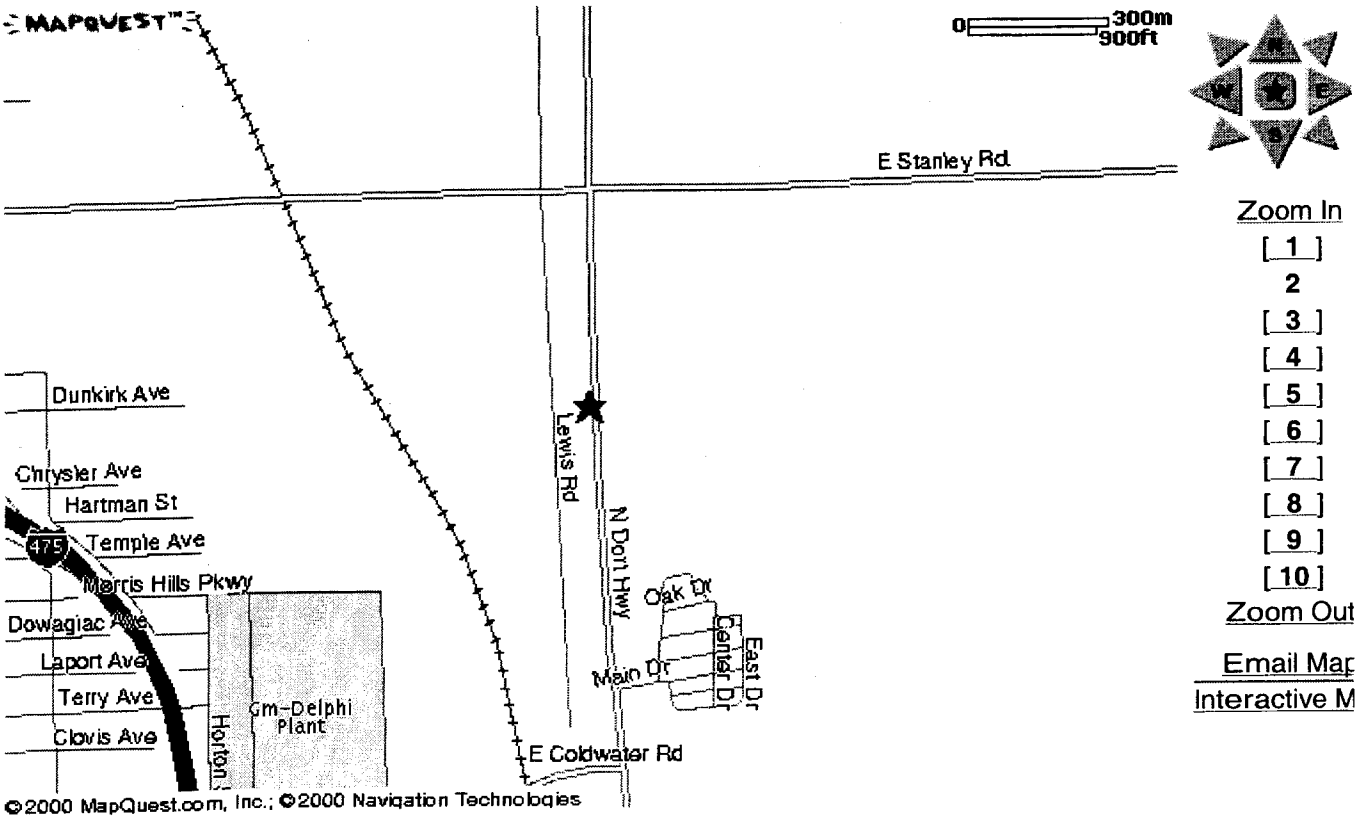
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO. [ ]

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

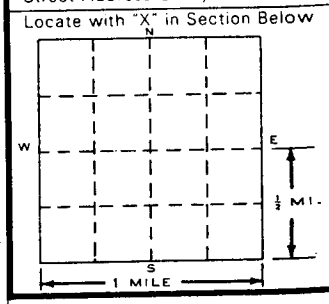
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	NE ¼ SE ¼ NE ¼	18	8N N/S	7E E/W

Distance And Direction From Road Intersection
ABOUT .3 MI S OF STANLEY RD
ABOUT 140' W OF DORT HWY

Street Address & City of Well Location: 6455 DORT-HWY MT MORRIS , MI 48458

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL: 70
DARYL RUNYON
Address 6455 DORT HWY
MT. MORRIS, MICH 48458
Address Same As Well Location? * Yes ☐ No

4 WELL DEPTH: 280 FT. Date Completed MO. 04 DAY 09 YEAR 92 ☐ New Well * Replacement Well

5 ☐ Cable tool * Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE * Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING Diameter ☐ Steel ☐ Threaded * Plastic * Welded
5 in. to 180 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter
8 in. to 178 ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight PVC lbs./ft.
Drive Shoe ☐ Yes TAPED ☐ No

8 SCREEN ☐ * Not Installed
Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:
95 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
160 ft. after ____ hrs. pumping at 20 G.P.M.
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: ☐ * Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No * Yes From 0 to 178 ft.
☐ Neat cement * Bentonite * Other CLAY SL.
No. of bags of cement ____ Additives HOLE PLUG

13 Nearest source of possible contamination
Type SANI Distance 10+ ft. Direction N
Well disinfected upon completion? * Yes ☐ No
Was old well plugged? * Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name GOULDS
Model number 10EJ07412 HP 3/4 Volts 230
Length of Drop Pipe 160 ft. capacity 12 G.P.M.
TYPE: * Submersible ☐ Jet
PRESSURE TANK:
Manufacturer's name A-O SMITH
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Y CLAY	10.0	10.0
B CLAY	20.0	30.0
SAND	44.0	74.0
[illegible] CLAY	94.0	168.0
GR SHALE	9.0	177.0
G SANDSTONE	5.0	182.0
BROKEN ROCK	3.0	185.0
BR SHALE	10.0	195.0
G SANDSTONE STRIPS BR SHALE	65.0	260.0

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
FEB 24 1993
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWDS

15. Remarks, elevation, source of data, etc.
INNER CASED WITH 20' 4" PVC
FROM 173'-193' SEALED WITH TAPE

16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR GENESEE , MI 48437
Signed [signature] Date 4-9-93
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:
DOUG

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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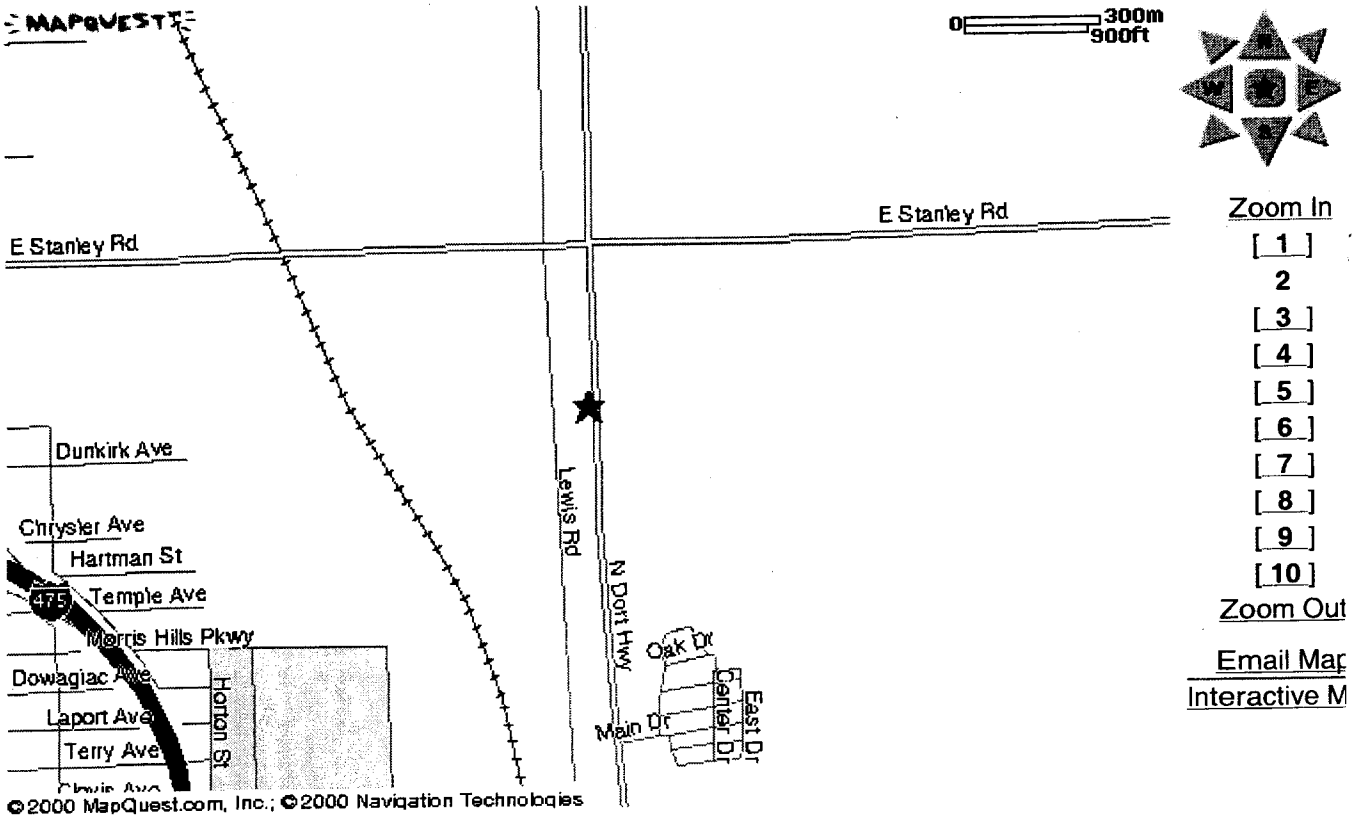
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SEP 21 1981

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

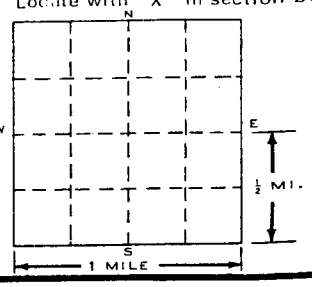
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	N½ of NW¼ of NW¼	17	8 N/S	7 E/W

Distance And Direction from Road Intersections
About 350 ft S. of Stanley Rd
About 200 ft E. of Dort Highway
Street Address & City of Well Location At 6476

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:
GARY MCKENZIE 71
Address 6476 DORT HWY. MT. MORRIS MICH

4 WELL DEPTH: (completed) Date of Completion
268 ft. 6-30-81

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING: Threaded ☐ Welded ☒
Diam. 5 in. to 191 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface SURFACE
Weight PVC lbs./ft.
~~Drive Shoe?~~ Yes ☒ No ☐

8 SCREEN:
SHALE BOOT
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
80 ft. below land surface

10 PUMPING LEVEL below land surface
140 ft. after ___ hrs. pumping 20 g.p.m.
____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☒ CLAY SLURRY
Depth: From top ft. to 191 ft.

14 Nearest Source of possible contamination
50 feet W Direction SANITARY Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name GOULDS
Model Number 10ES412 HP 3/4 Volts 230
Length of Drop Pipe 140 ft. capacity 12 G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	12	12
BLUE CLAY	25	37
GRAVEL	31	68
BLUE CLAY (GRAVELEY)	121	189
BROWN SHALE W/STRIPS OF	11	200
BLACK SHALE		
GRAY SANDSTONE W/STRIPS	68	268
OF WHITE SHALE		

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
ADDED INFO. BY DRILLER, CLEM NO.
*CORRECTED BY:
PRODUCTION DIV

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGOR ST. GENESEE

Signed Bud Person Date 7-7-81
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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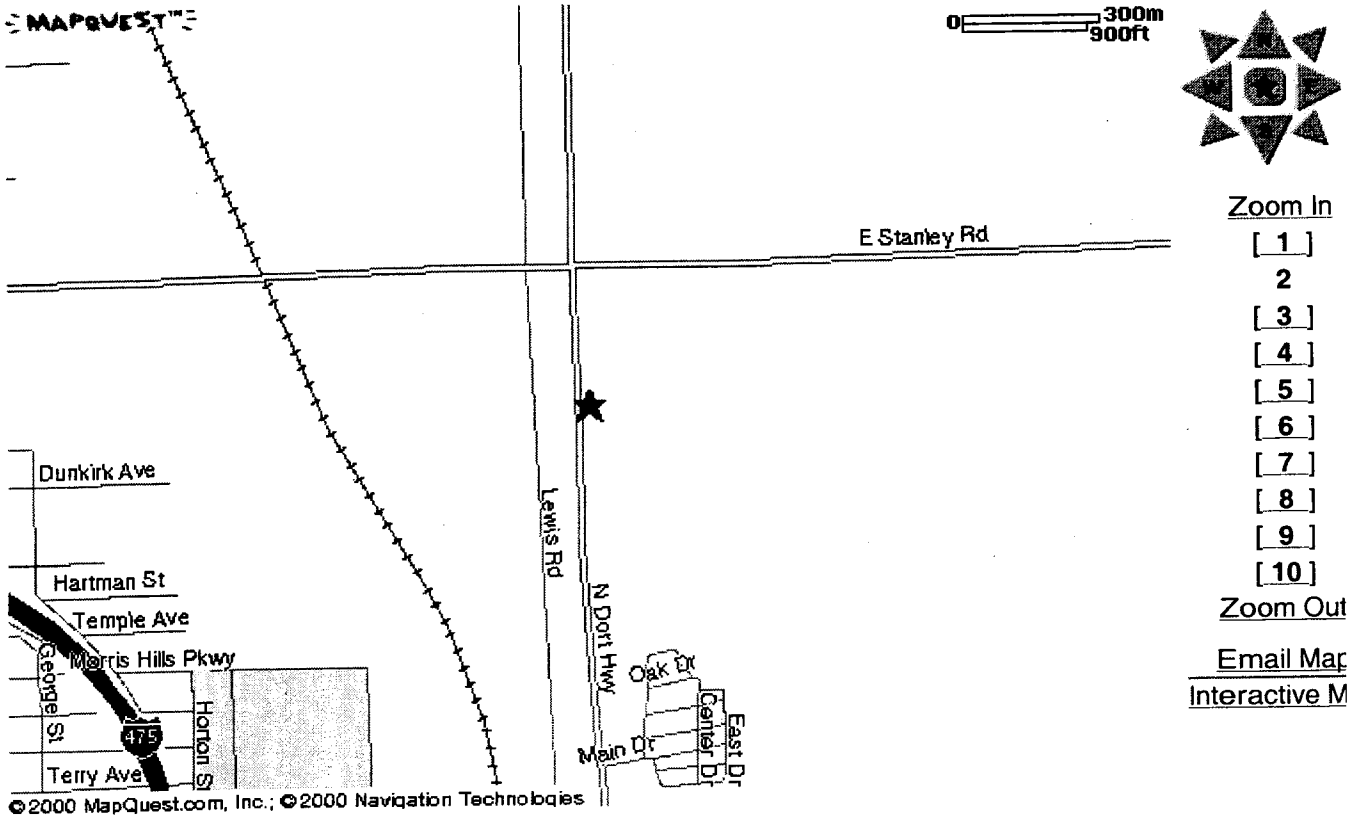
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MAY 2 8 1990

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

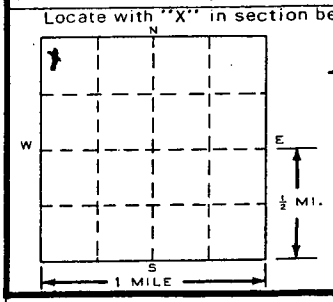
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1 LOCATION OF WELL

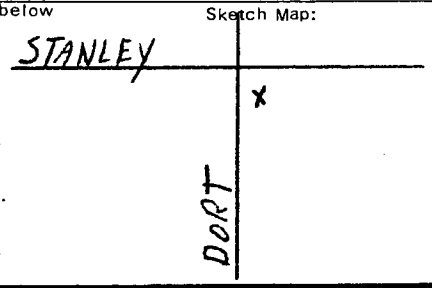
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ NW ¼ NW ¼	17	T8N N/S.	~~R6E~~ E/W.

Distance And Direction from Road Intersections
6500 N. Dort Hgwy (400'S of Stanley Rd)
Mt. Morris,Mich (200' E of Dort Hgwy)
Street address & City of Well Location

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:
72
Ron Hogard
Address 6500 Dort Hgwy
Mt. Morris, Michigan

4 WELL DEPTH: (completed) Date of Completion
225' ft. 7-20-79

5
☐ Cable tool ☐** Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE
☐** Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☐* Welded ☐
Diam. 4 in. to 187' ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☐* No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	30'	30'
Gravel	25'	55'
Clay	125'	180'
Sandrock	45'	225'

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
60' ft. below land surface

10 PUMPING LEVEL below land surface
225 ft. after 4 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☐** Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☐* Yes ☐ No
☐ Neat Cement ☐** Bentonite ☐ ____
Depth: From -0- ft. to 187' ft.

14 Nearest Source of possible contamination
75 feet S Direction Septic Tank Type
Well disinfected upon completion ☐** Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Flint & Walling
Model Number 011015-305 HP 1 Volts 220
Length of Drop Pipe 176 ft. capacity 10 G.P.M.
Type: ☐** Submersible
☐ Jet ☐ Reciprocating

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY a V
ELEVATION
DEPTH TO ROCK
USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
Used Wells Adaptor (Pitless) and WXtrol #203 Tank
Used 1" Galv pipe for drop pipe

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Ralph Keller Well Drilling 0319
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 6200 Kelly Rd-Flushing,Mich 48433
Signed Ralph A Keller Sr Date 8-1-79
AUTHORIZED REPRESENTATIVE

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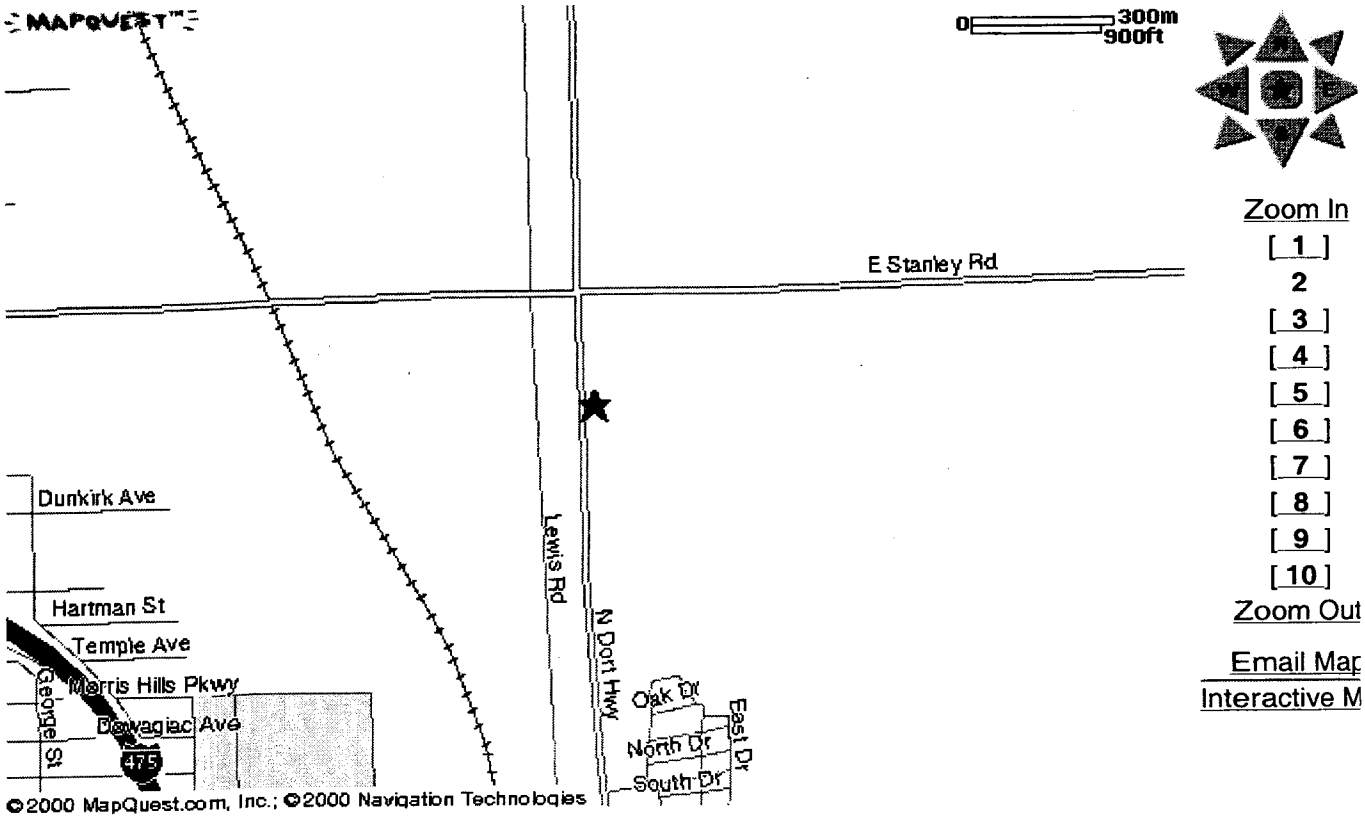
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★ **6500 North Dort Highway, Mount Morris, MI 48458-2559** 72

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

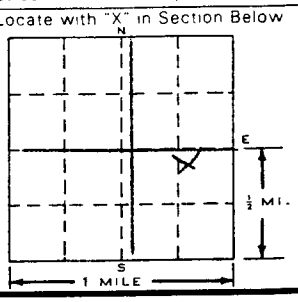
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	4 N/S	7 E/W

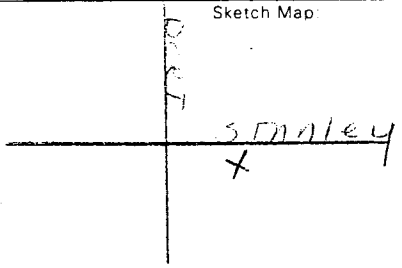
Distance And Direction From Road Intersection: Southeast Corner of Dort. Hwy. and Stanley Rd. 73

Street Address & City of Well Location: 6524 N. Dort. Hwy. Mt. Morris

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

David Gillie
235 Darrow
Clio, MI. 48420

Address

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH (completed)

250 ft.

Date of Completion: July 29, 1985

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 222 ft. depth
____ in. to ____ ft. depth

Grouted Drill Hole Diameter
8 in. to 222 ft. depth
____ in. to ____ ft. depth

Height Above/Below
Surface ____ ft.
Weight ____ lbs./ft.
Sdr 21
Drive Shoe ☐ Yes
Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay & Gravel	190'	190'
Soft White Sandstone	10'	200'
Limestone	5'	205'
Gray Sandstone	15'	220'
Limestone	5'	225'
White Sandstone	14'	239'
Green Sandstone	9'	248'
Shale	2'	250'

8 SCREEN

☐ Not Installed

Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL

110 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

235 ft. after 2 hrs. pumping at 25 G.P.M
____ ft. after ____ hrs. pumping at ____ G.P.M

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 222 ft

☐ Neat cement ☒ Bentonite ☐ Other ____
No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination

Type San. Sewer Distance ____ ft. Direction ____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name: Webtrol
Model number 152S1011B-SP 1 Volts 230
Length of Drop Pipe 160 ft. capacity 15 G.P.M
TYPE ☒ Submersible ☐ Jet ____
PRESSURE TANK
Manufacturer's name: X-Trol
Model number 203 Capacity 32 Gallons

RECEIVED
Mich. Dept. of Public Health
NOV 26 1985

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Bureau of Environmental and Occupational Health - GWQS

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort. Hwy. Mt. Morris, MI.

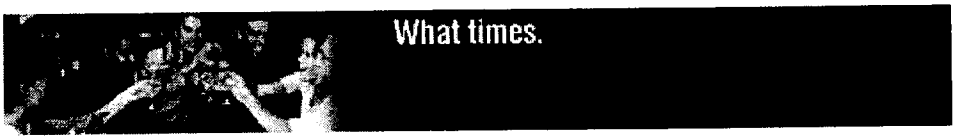
Signed Gary M Price AUTHORIZED REPRESENTATIVE Date 7-30, 1985

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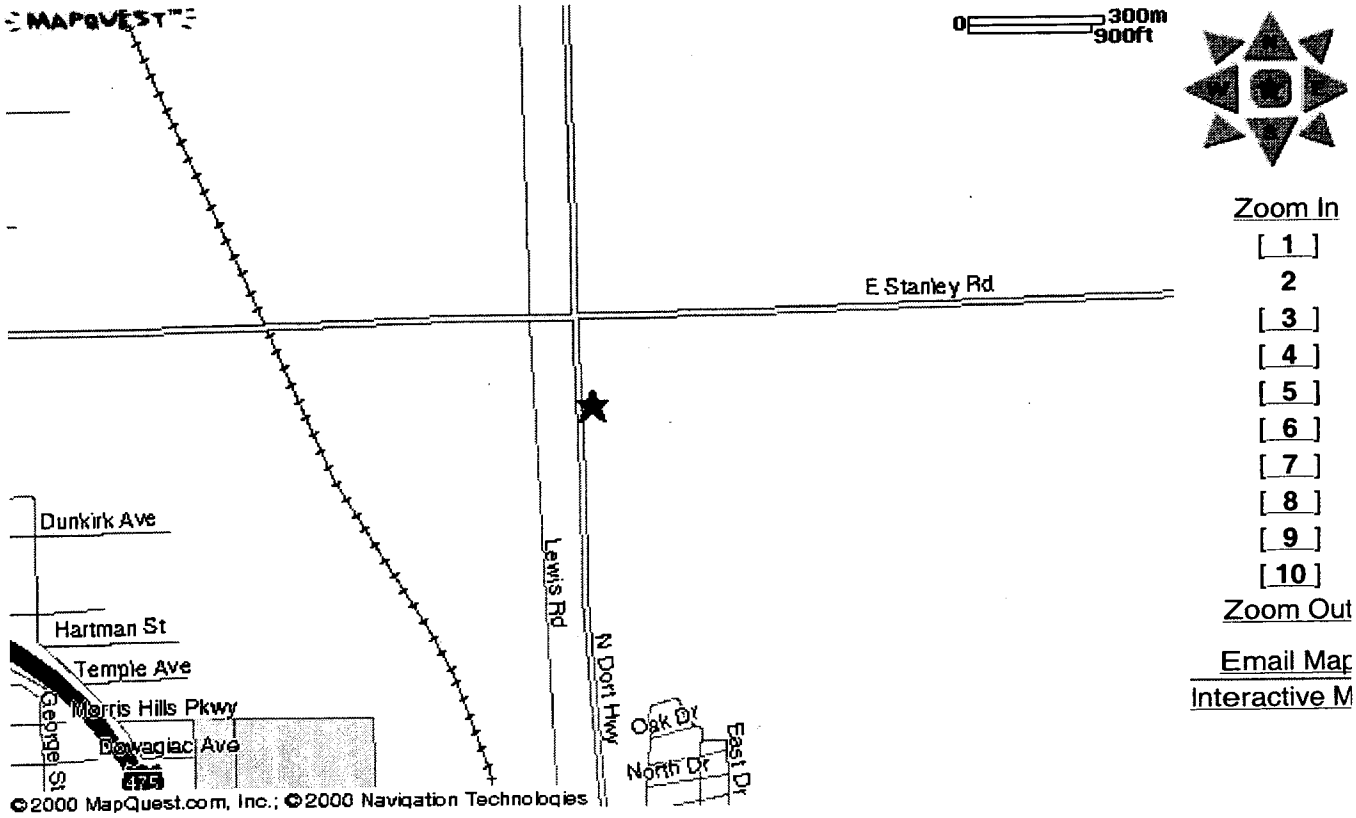
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GEOLOGICAL SURVEY SAMPLE No.

JAN 27 1976

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

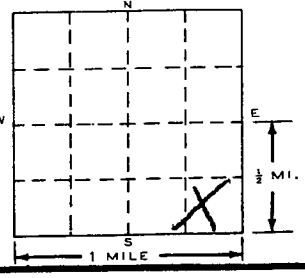
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE ¼ SE ¼ SE ¼	7	9 N/S.	7 E/W.

Distance And Direction from Road Intersections

Street address & City of Well Location 7025 N Dort Hwy

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL

Fletcher Eng. 74

Address 7025 N Dort Hwy Mt Morris

4 WELL DEPTH: (completed) 270 ft. Date of Completion 7-17-75

5 ☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug
☑ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE ☑ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☒ Commercial
☐ Test Well ☐ ____

7 CASING: Threaded ☑ Welded ☐ Height: Above/Below Surface ____ ft.
Diam. 2 in. to 213 ft. Depth Weight 3.75 lbs./ft.
____ in. to ____ ft. Depth Drive Shoe? Yes ☑ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	17	17
Blue Clay	63	80
Sand	6	86
Blue Clay	125	211
Sand stone	59	270

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
95 ft. below land surface

10 PUMPING LEVEL below land surface
140 ft. after 2 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☑ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 0 ft. to 213 ft.

14 Nearest Source of possible contamination
95+ Feet ____ Direction ____ Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Fluid-O-Matic
Model Number C627 15 HP 1½ Volts 230
Length of Drop Pipe ____ ft. capacity ____ G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gilbert Sunde Well Drilling 0169
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1302 Fenton Rd.

Signed ____ Date 1-25-75
AUTHORIZED REPRESENTATIVE

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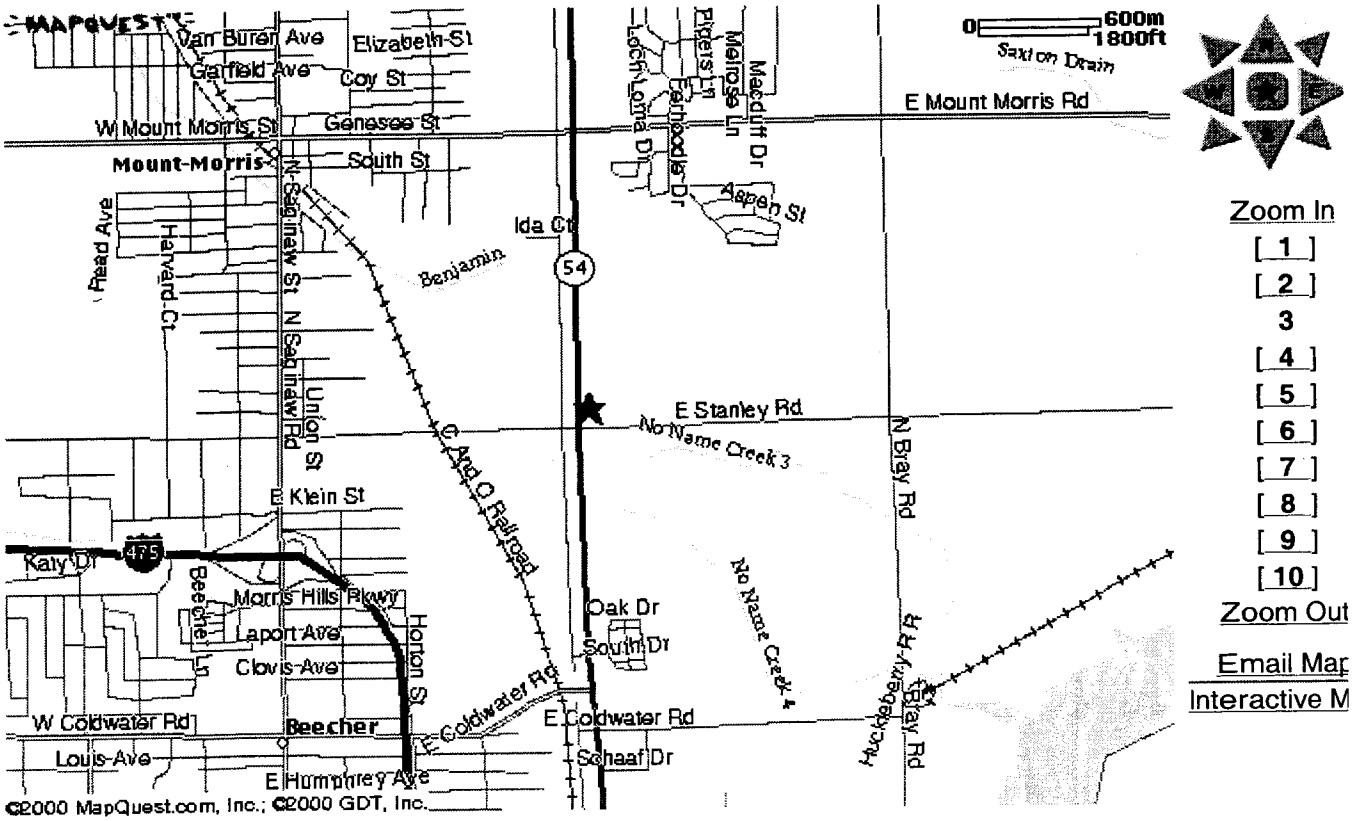
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★ **7025 N. Dort Highway, Mount Morris, MI 48458-2216** 74

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GEOLOGICAL SURVEY SAMPLE No. [ ]

3 JUL 2 8 1978

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL — GENESEE ✓

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	~~ZAA ~~	SW¼ SW¼ SW¼	8	8 (N)S.	7 (E)W.

Distance And Direction from Road Intersections: North on Dort Hwy off E Stanley about 100 YRDS & 200 E of Dort Hwy

Street address & City of Well Location →

Locate with "X" in section below

Sketch Map: N. DORT HWY; 100 YD; 200 YDS.; E STANLEY RD; STANLEY Rd; ½ MI.; DORT HWY; 1 MILE; N; W; E; S

3 OWNER OF WELL: SPRING WOOD GARDEN NURSERY — CHUCK HEISEL

Address: 6240 N. DORT HWY MT. MORRIS MICH. 75

4 WELL DEPTH: (completed) 57 ft. Date of Completion 7/1/78

5 ☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☒ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☒ Plant House

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 53 ft. Depth; ____ in. to ____ ft. Depth. Height: Above/Below Surface 1 ft. Weight 3.75 lbs./ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clayish Topsoil	7	7
Sandy clay	6	13
Clay & Med Gravel	11	24
Clay (Gray)	22	46
Water Sand → Pumped @ 350 gph.	5	51
Small to Med Gravel	2	53
Med to Big Gravel	8	61
Pumped after setting screen at 57' @ 850 gph		
Pump mounted directly on sanitary well adaptor		
Water system is used for Watering Plants in a Green House		

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: Clayton Mark Dia.: 1¼ Slot/Gauze 80 Length 48" Set between 53 ft. and 57 ft. Fittings: 4' x 1¼ TAILPIPE & Coupling Brennan Check

9 STATIC WATER LEVEL 33 ft. below land surface

10 PUMPING LEVEL below land surface 42 ft. after 3 hrs. pumping 14 g.p.m. ____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ____ Chlorides (Cl) ____ Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted? ☐ Yes ☒ No ☐ Neat Cement ☐ Bentonite ☐ ____ Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination 150 feet NORTH WEST Direction OLD GLACIAL Type. Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed Manufacturer's Name Rapid Clayton Model Number 5TA HP ½ Volts 115 Length of Drop Pipe 45 ft. capacity 6 G.P.M. Type: ☐ Submersible ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ward's 2" Well Repair #1662
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 3140 W Sherman Flint

Signed Richard Ward Date 7/31/78
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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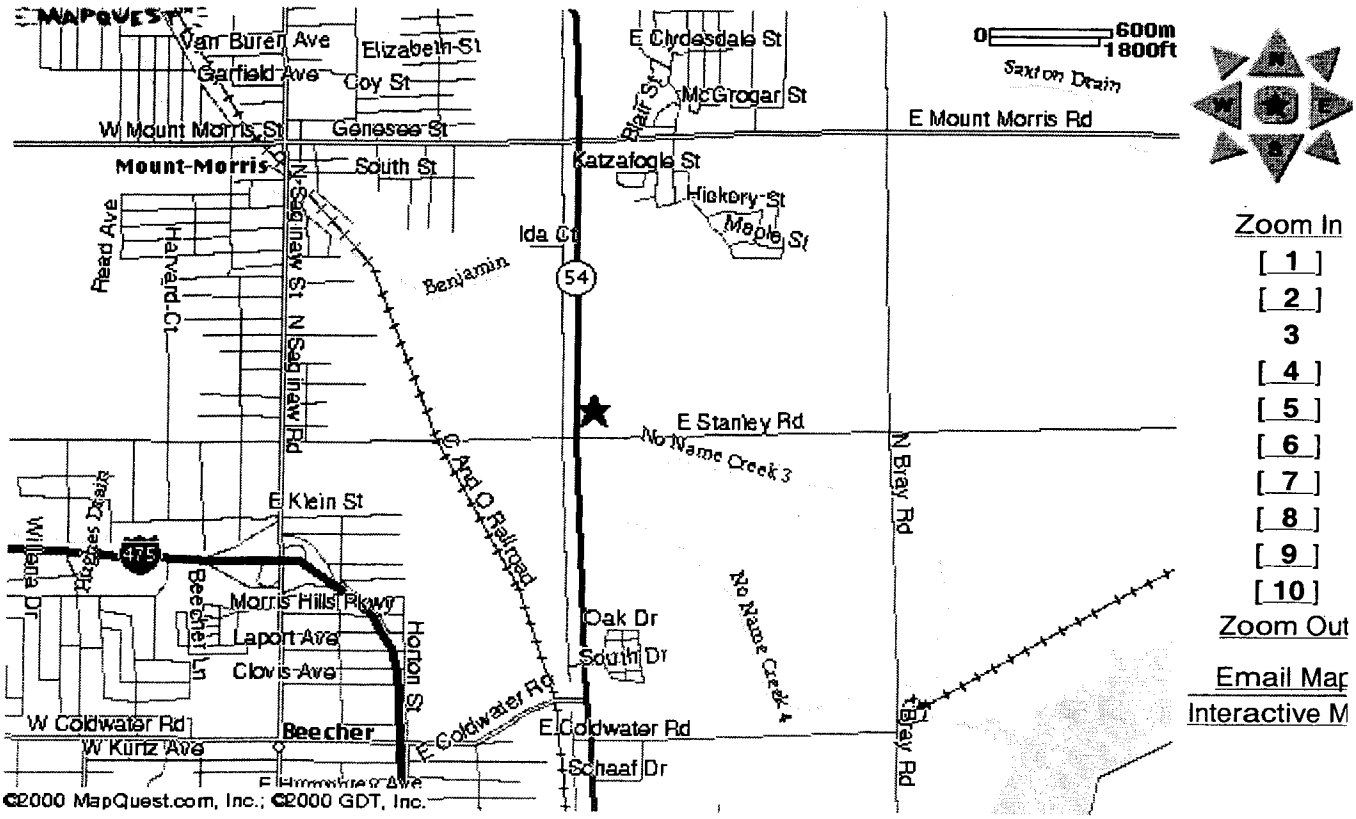
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

GEOLOGICAL SURVEY NO. [ ]

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

1 LOCATION OF WELL

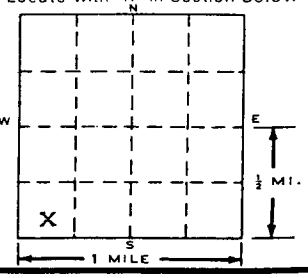
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW ¼ SW ¼ SW ¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection

76

Street Address & City of Well Location 7073 N. Dort Hwy

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Iva Killion

Address
G-8226 Clio Rd
Mt. Morris, Mi 48458

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

277 FT.

Date Completed MO. 4 DAY 7 YEAR 93

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 220 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Blue Clay	35	45
Sand & Gravel	15	60
Blue Clay	100	100
Brown Clay	190	190
Blue Clay & Stones	10	200
Shale	5	205
Sandstone	30	235
Limestone	12	247
Sandstone	30	277

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

100 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

180 ft. after 1 hrs. pumping at 30 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☒ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From _____ to _____ ft.

☐ Neat cement ☒ Bentonite ☒ Other Clay

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aermotor

Model number _____ HP 3/4 Volts 220

Length of Drop Pipe 180 ft. capacity 12 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well-X-Trol

Model number WX203 Capacity 60 Gallons

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Mich. Dept. of Public Health
SEP 13 1993
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWCS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling, Inc
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul St 1242

Signed Robert J Dekoski Date 8-25-93
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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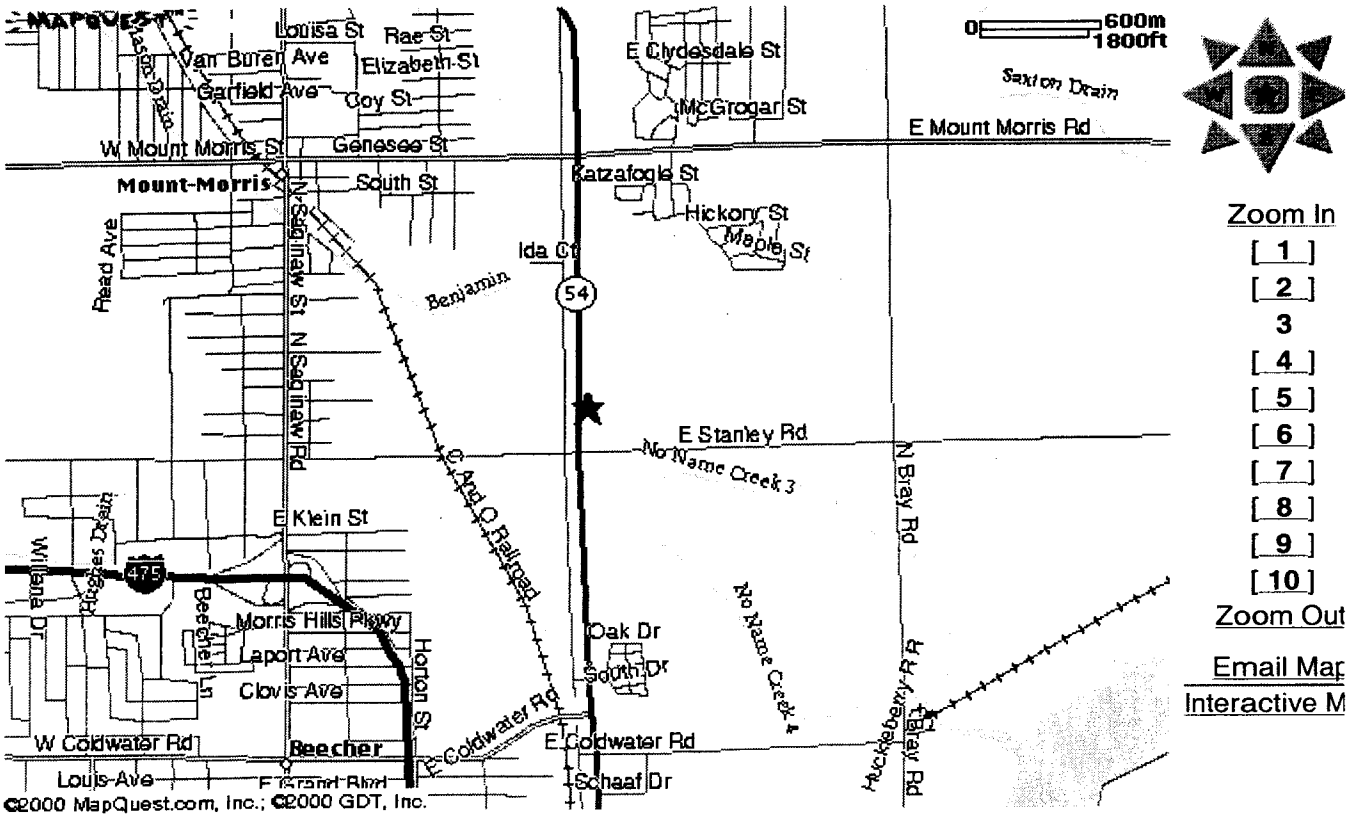
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GEOLOGICAL SURVEY SAMPLE No.

AUG 21 1975

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	SW¼ SW¼ SW¼	8	8 N/S	7 E/W

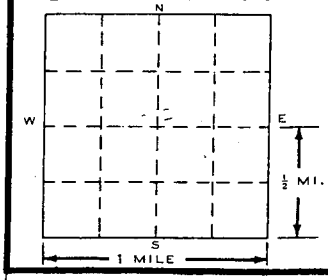
Distance And Direction from Road Intersections

About 0.1 Mile N. of Stanley Rd
About 225 ft. E. of N. Dort Highway (77) at 7074

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Clifton Smith

Address 6707 N. Dort Highway Mt. Morris

4 WELL DEPTH: (completed) Date of Completion

56 ft. 5-7-74

5

☐ Cable tool ☐ Rotary ☒ Driven ☐ Dug
☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

Diam. 2 in. to 52 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface Surface ft.

Weight 3.75 lbs./ft.

Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	3	3
Sand	7	10
Blue Clay	34	44
Fine Sand	8	52
Water Bearing Sandy Gravel	4	56

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: WESCO Plastic Dia. 1¼

Slot/Gauze 10 Length 3 ft.

Set between 53 ft. and 56 ft.

Fittings: sealed with Brewer.

9 STATIC WATER LEVEL

45 ft. below land surface

10 PUMPING LEVEL below land surface

48 ft. after ___ hrs. pumping 10 g.p.m.

____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☐ Pitless Adapter ☐ 12" Above Grade

13

Well Grouted? ☐ Yes ☒ No

☐ Neat Cement ☐ Bentonite ☐ ____

Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

____ feet ____ Direction N. Septic Yet. Type

Well disinfected upon completion ☐ Yes ☒ No

15 PUMP:

☒ Not installed

Manufacturer's Name ____

Model Number ____ HP ____ Volts ____

Length of Drop Pipe ____ ft. capacity ____ G.P.M.

Type: ☐ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY 4
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B.E. Perior Well Drilling 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4189 Gregor St. Genesee

Signed Bud Perior Date 5-7-74
AUTHORIZED REPRESENTATIVE

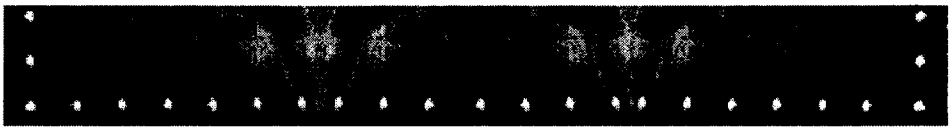
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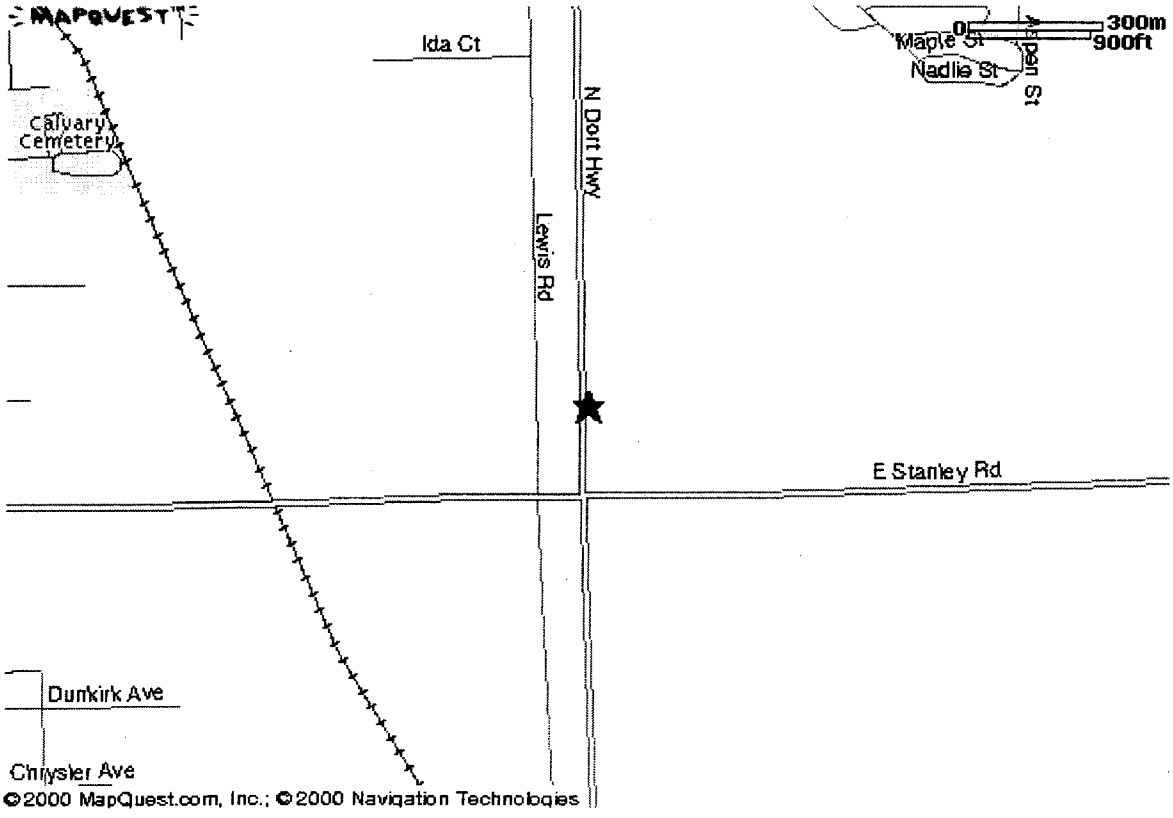
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

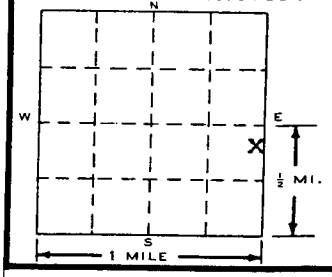
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE ¼NE ¼SE ¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL: 78

Address: Rene LaFreniere
7085 N. Dort Hwy
Mt. Morris, MI 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 292 FT. — Date Completed MO. 06 DAY 30 YEAR 94 — [X] New Well [ ] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to 225 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe [ ] Yes [ ] No

8 SCREEN: 10 ft liner [ ] Not Installed
Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:
110 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
200 ft. after 1 hrs. pumping at 15 G.P.M.
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [ ] Yes From 223 to 0 ft.
[ ] Neat cement [X] Bentonite [X] Other Cetco ~~Clay~~
No. of bags of cement ____ Additives Crumbles

13 Nearest source of possible contamination
Type Sewer Distance 25 ft. Direction S
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Aermotor
Model number ____ HP 3/4 Volts 220
Length of Drop Pipe 200 ft. capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet ____
PRESSURE TANK:
Manufacturer's name ____
Model number ____ Capacity ____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Blue Clay	60	70
Sand	20	90
Blue Clay	133	223
Sandstone	10	233
Limestone	11	245
Shale	20	265
sandstone & Limestone	27	292

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc
REGISTERED BUSINESS NAME — REGISTRATION NO. 1242
Address 1151 E. Paul St
Signed Robert J Dekoski Date 11-02-94
AUTHORIZED REPRESENTATIVE

D67d 2/89

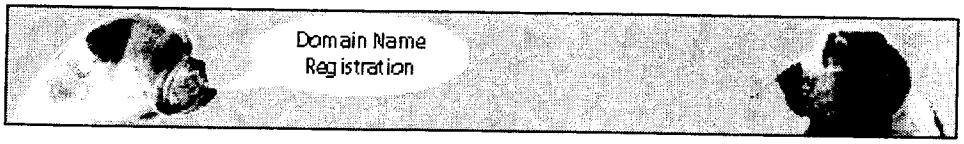
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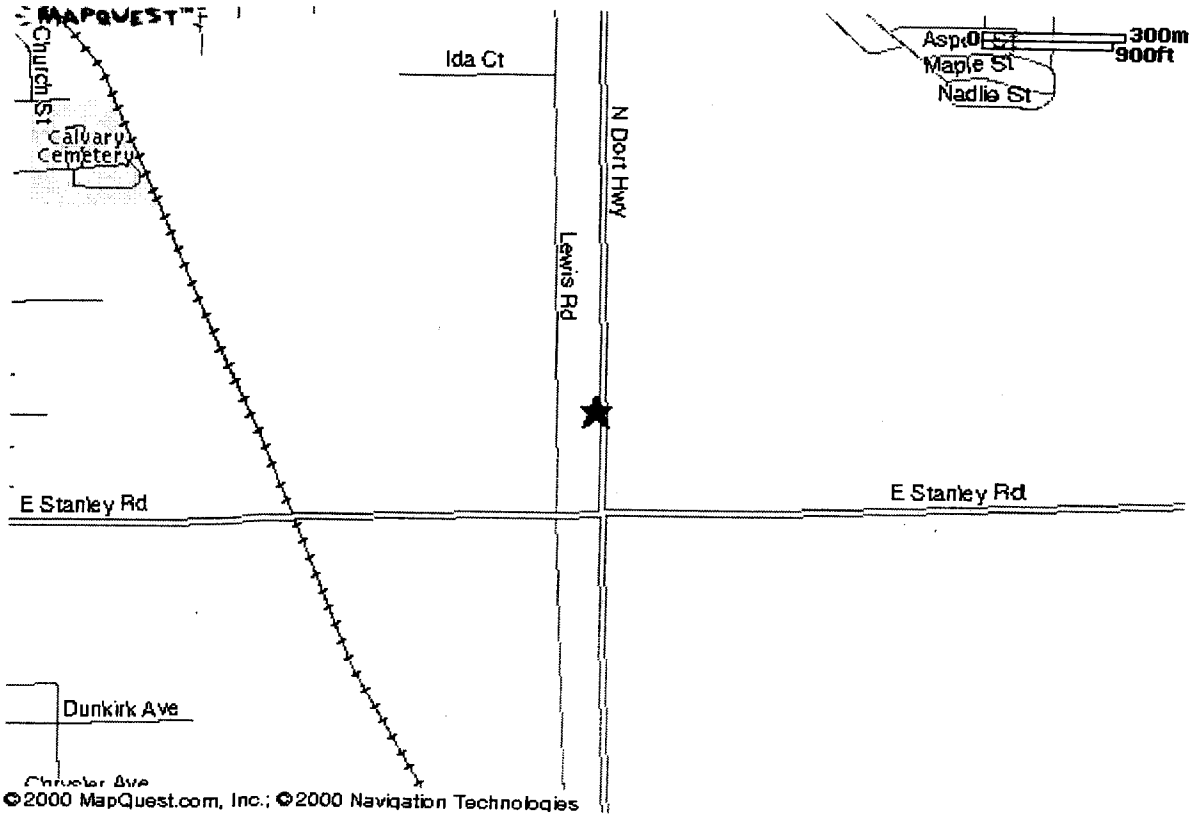
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2. GEOLOGICAL SURVEY JUN 28 1982

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

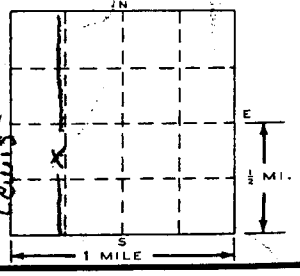
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ NW¼ NE¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection

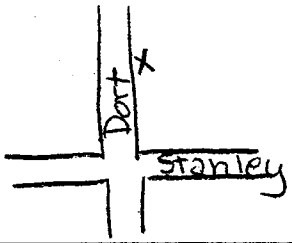
.3+Miles North of Stanley Rd. on the East side of Dort Highway

Street Address & City of Well Location G 7138 N. Dort

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

79

Address: Mums Motel
G 7138 N. Dort
Mt. Morris, Mi. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

320 ft.

Date of Completion: 2-26-82

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 240 ft. depth
7 4 in. to 244 ft. depth

Grouted Drill Hole Diameter
7-7/8 in. to 240 ft. depth
4½ in. to 320 ft. depth

Height: Above/~~Below~~ Surface 1 ft.
Weight _____ lbs./ft.
Drive Shoe [ ] Yes [X] No

8 SCREEN

[X] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft Other _____

9 STATIC WATER LEVEL

95 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

180 air after 1 hrs. pumping at 5-7 G.P.M
_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION

[X] Pitless adapter [X] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 240 ft.
[ ] Neat cement [ ] Bentonite [X] Other cuttings
No. of bags of cement _____ Additives 5 cups Insta Pac.

13 Nearest source of possible contamination

Type sanitary line Distance 5 ft. Direction N

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Tait
Model number 1 D L 310 HP 1 Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK
Manufacturer's name Amtrol
Model number 252 Capacity 30 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Topsoil	8	8
Clay	17	25
Silty Sand Gray	70	95
Clay	140	235
Sand Rock	10	245
Hard Gray Shale	20	265
Sand Rock Hard	15	280
Gray Shale	20	300
Hard Sand Rock	5	305
Gray Schale	15	320

Had to innercase the first 5 ft. of bedrock with 4" Steel casing because it kept bleeding sand.

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ed Birkmeier Well Drilling Ltd. 1607
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 10707 Easton Rd., New Lothrop, Mich. 48460

Signed Edward G. Birkmeier Date 3-2-82
AUTHORIZED REPRESENTATIVE

D67d (Rev 10-80)

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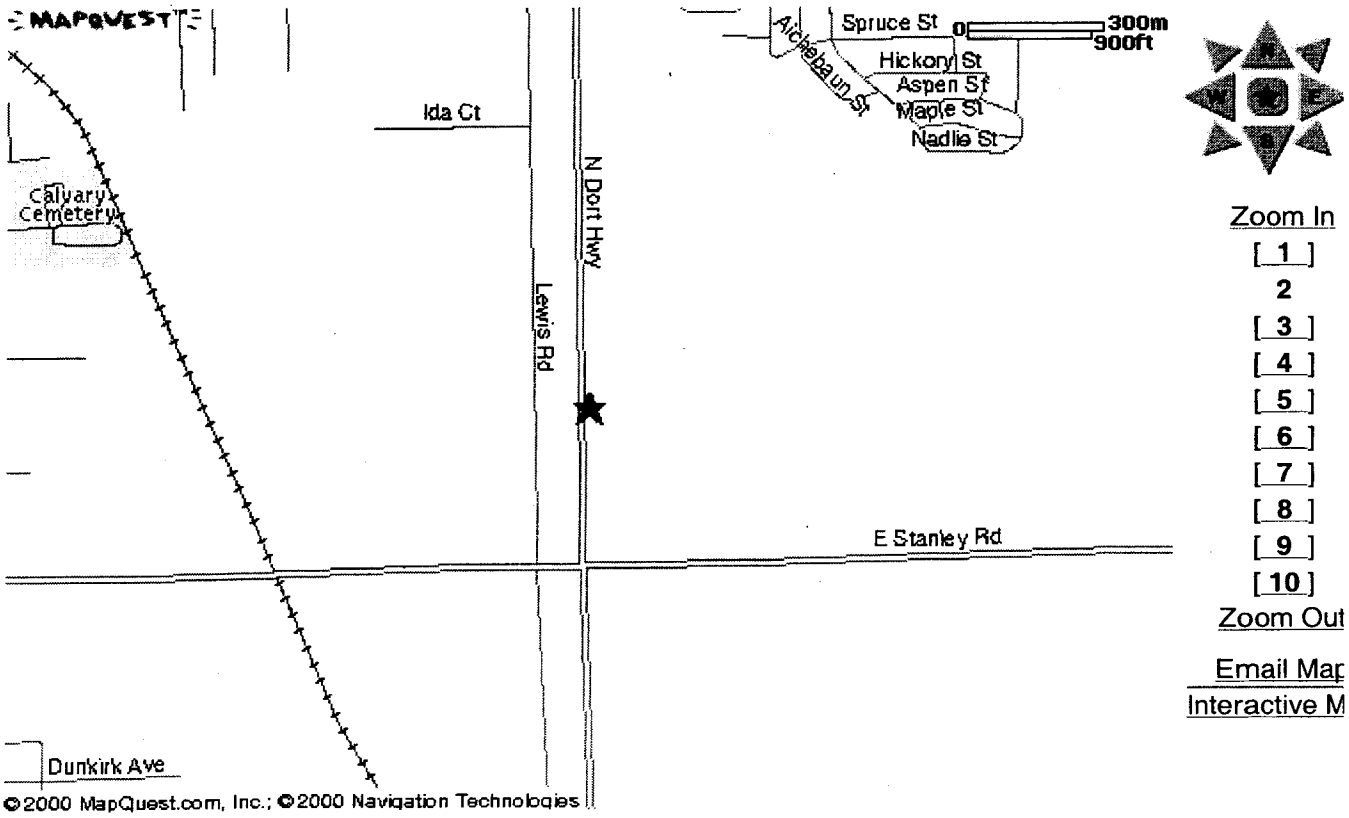
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

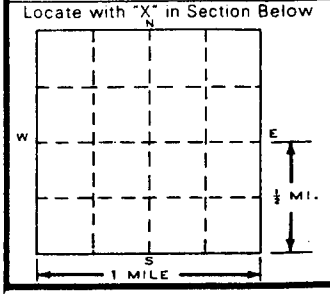
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mount Morris	¼ ¼ ¼	18	8 N/S	7E E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location: 7141 Dort Hwy.

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 80

Address: DouggBurton
G-7141 Dort Hwy.
Mt. Morris, MI

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH: (completed) 280 ft. | **Date of Completion** 6.23.86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 139 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No Boot

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	18	18
Gray clay	20	38
Sand	4	42
Clay & stones	12	54
Graxel	12	66
Clay & stone	110	176
Clay	49	225
Broken Lime	13	238
Sandstone	7	245
Lime	2	247
Sandstone	33	280
USE A 2ND SHEET IF NEEDED		

8 SCREEN: ☐ Not Installed

Type none Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

_____ ft. after _____ hrs. pumping at _____ G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☐ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.

☐ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Goulds

Model number 7EH HP ½ Volts _____

Length of Drop Pipe 140 ft. capacity _____ G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well-x-trol

Model number 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor Well Drilling — REGISTERED BUSINESS NAME — 1590 REGISTRATION NO.

Address 11103 Lewis Rd., Clio

Signed Brian Taylor — AUTHORIZED REPRESENTATIVE — Date 6.23.86

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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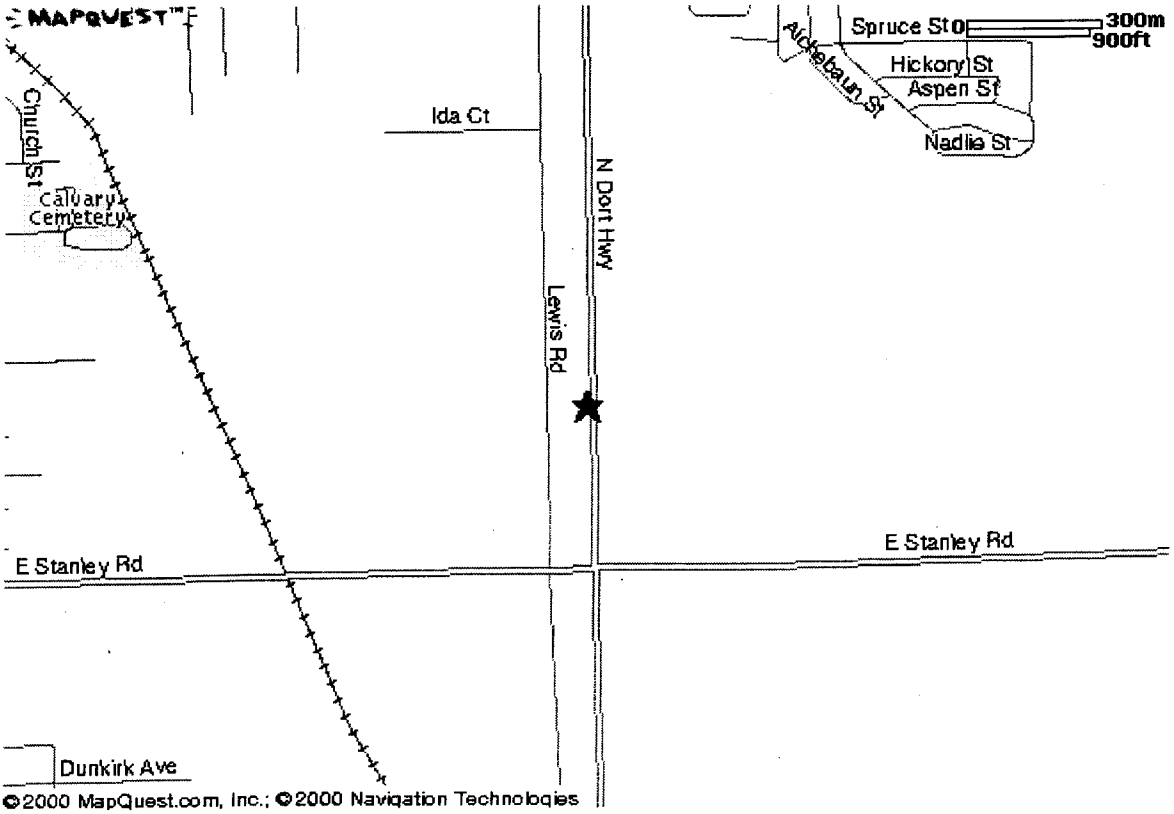
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	nw ¼ SW ¼ SW ¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection

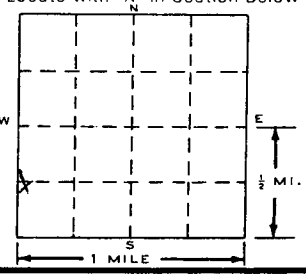
81

Between Mt. Morris and Stanley Rd.

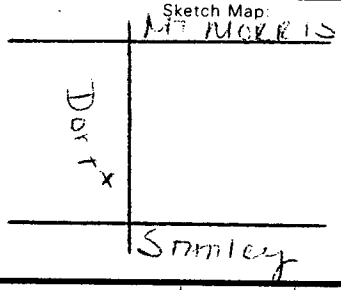
W. Side

Street Address & City of Well Location 7191 N. Dort Hwy.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Address: Roger Kenyon
P.O. Box 541
Genesee, MI. 48437

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

300 FT.

Date Completed: MO 11 DAY 26 YR 93

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☐ Domestic ☐ Type I Public ☒ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 251 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 251 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
SDR 21
Drive Shoe ☐ Yes
Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	240'	240'
Sandstone	60'	300'

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

260 ft. after 2 hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 80 ft.

☒ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement 10 Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Meyers

Model number 2NFL102-20 HP 1 Volts 230

Length of Drop Pipe 240 ft. capacity 20 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

RECEIVED
MICH. DEPT. OF PUBLIC HEALTH
MAR - 7 94
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 8107 N. Dort Hwy. Mt. Morris, MI.

Signed _____ Date 2/9/94
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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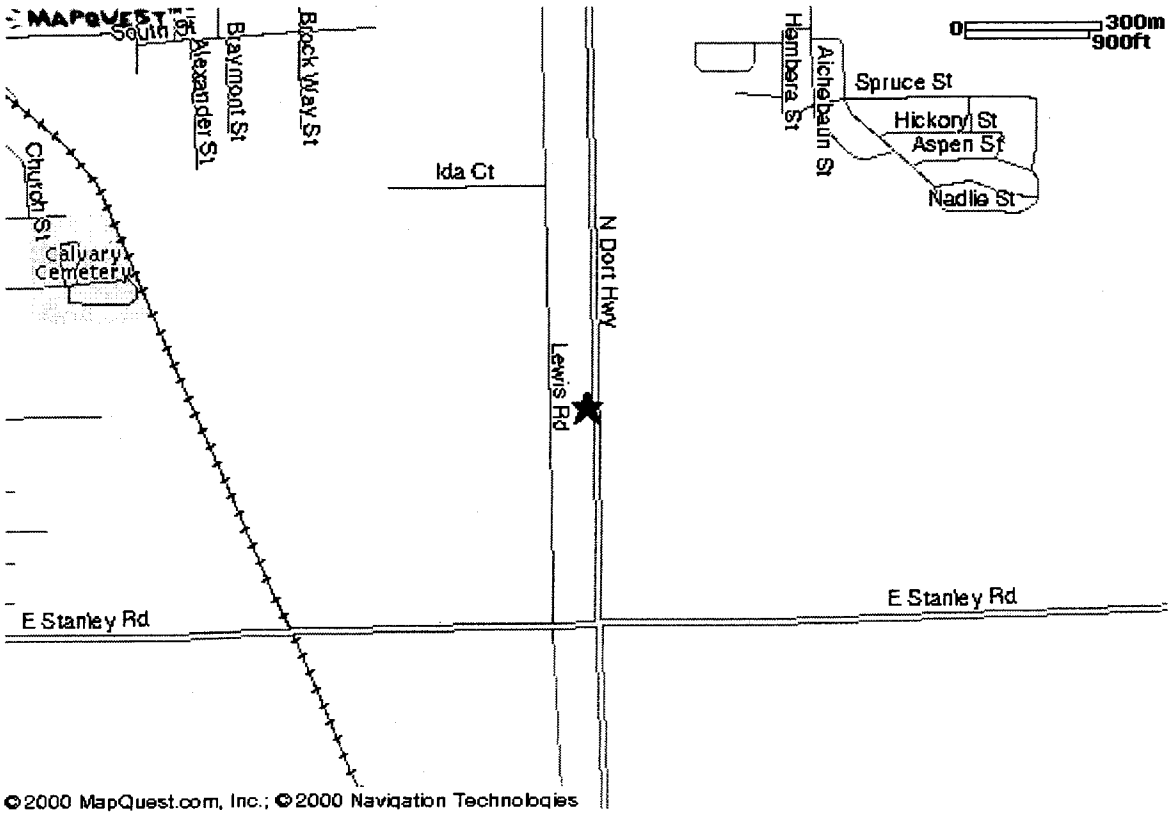
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GEOLOGICAL SURVEY SAMPLE No.

JUL 22 1981

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

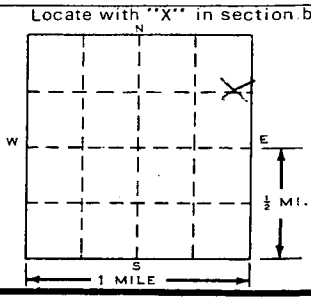
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	6 (N)S.	7 (E)W.

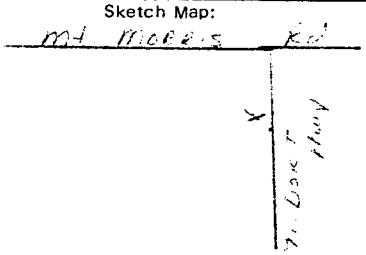
Distance And Direction from Road Intersections: S of Mt. Morris Rd. W side 82

Street address & City of Well Location: 7257 N. Dort Hwy. Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:
Jim Christensen
Address: 11222 S. Saginaw
Grand Blanc, MI 48439

4 WELL DEPTH: (completed) Date of Completion
342 ft. April 16, 1981

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☐ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☒ Warehouse

7 CASING:
Threaded ☒ Welded ☐
Diam. 4 in. to 252 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: _____ Dia.: _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
Fittings:

9 STATIC WATER LEVEL
135 ft. below land surface

10 PUMPING LEVEL below land surface
340 ft. after 3 hrs. pumping 5 g.p.m.
_____ ft. after ___ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) _____ Chlorides (Cl) _____
Hardness _____ Other _____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ _____
Depth: From 1 ft. to 252 ft.

14 Nearest Source of possible contamination
____ feet _____ Direction San. sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Goulds
Model Number 5ES05422 HP ___ Volts _____
Length of Drop Pipe 200 ft. capacity ___ G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10'	10'
Clay & Gravel	80'	90'
Sand & Gravel	15'	105'
Clay & Gravel	55'	160'
Course Gravel	10'	170'
Sandy Clay & Gravel	20'	190'
Broken Formation of Sandstone	5'	195'
Shale	20'	215'
Broken Sandstone	5'	220'
Shale & Gravel	30'	250'
Sandstone	20'	270'
Shale & Sandstone mixed	72'	342'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl F. Lyons AUTHORIZED REPRESENTATIVE Date April 20, 1981

D67d 100M (Rev. 12-68)

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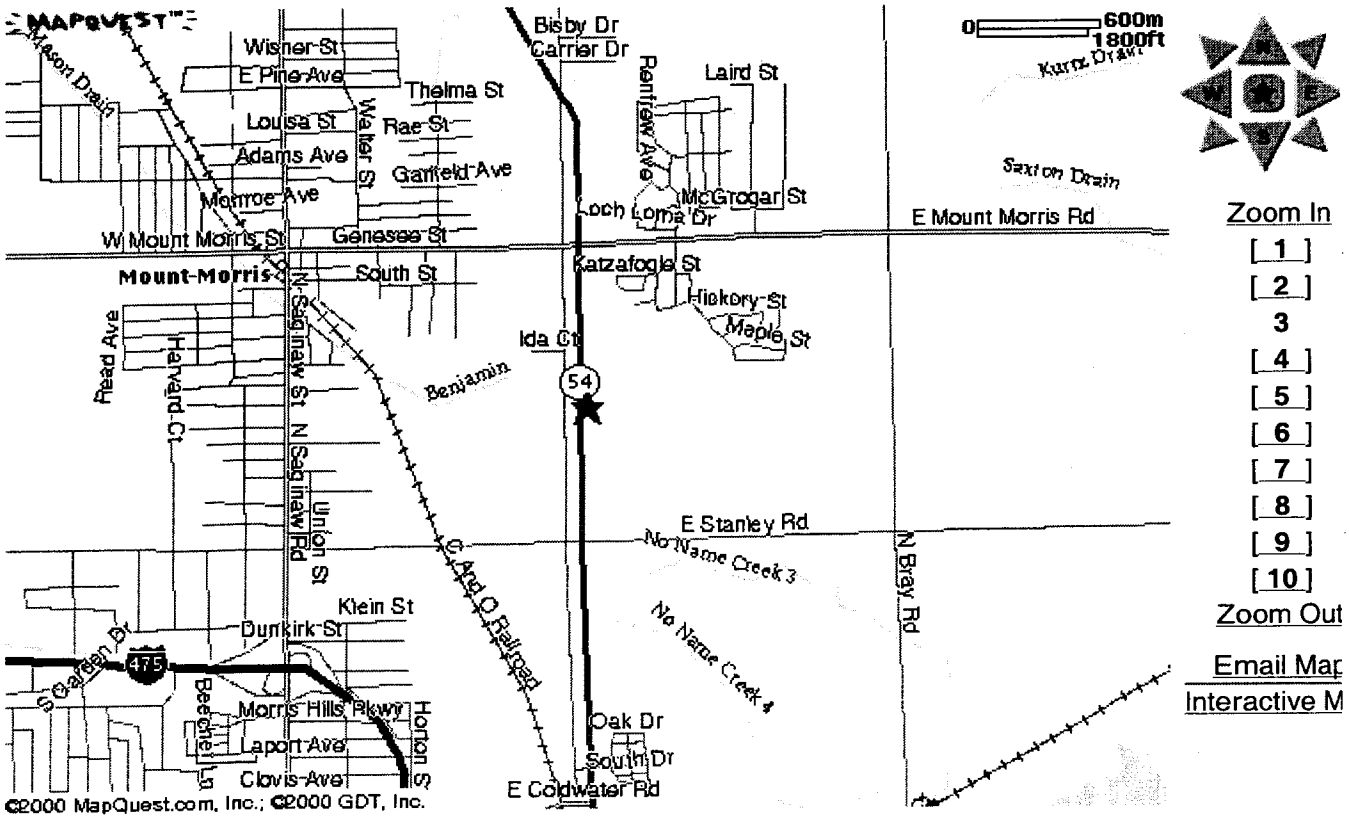
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WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

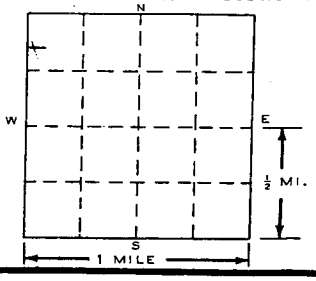
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	8	8 N/S.	7 E/W.

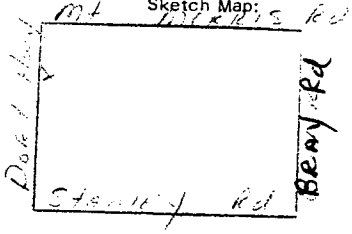
Distance And Direction from Road Intersections: Between Mt. Morris Rd. & Stanley Rd. E side

Street address & City of Well Location: 7260 N. Dort Hwy.

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: George Treece

Address: 7260 N. Dort Hwy. Mt. Morris, MI 83

4 WELL DEPTH: (completed) 339 ft. Date of Completion: Sept. 1980

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 255 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL 135 ft. below land surface

10 PUMPING LEVEL below land surface

337 ft. after 3 hrs. pumping 8 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From 1 ft. to 255 ft.

14 Nearest Source of possible contamination

____ feet ____ Direction San. sewers Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name: Goulds

Model Number 5ES05422 HP ½ Volts 230

Length of Drop Pipe 200 ft. capacity 5 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & Gravel	10'	10'
Clay	50'	60'
Clay & Gravel	45'	105'
Course Gravel	5'	110'
Clay & Gravel	95'	205'
Limestone	10'	215
Shale	25'	240'
Limestone	15'	255'
Sandstone	5'	260'
Shale, Limestone & Sandstone mixed	79'	339'

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

*CORRECTED BY

**ADDITION BY

ELEVATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl F. Lyons Date Oct. 13, 1980

AUTHORIZED REPRESENTATIVE

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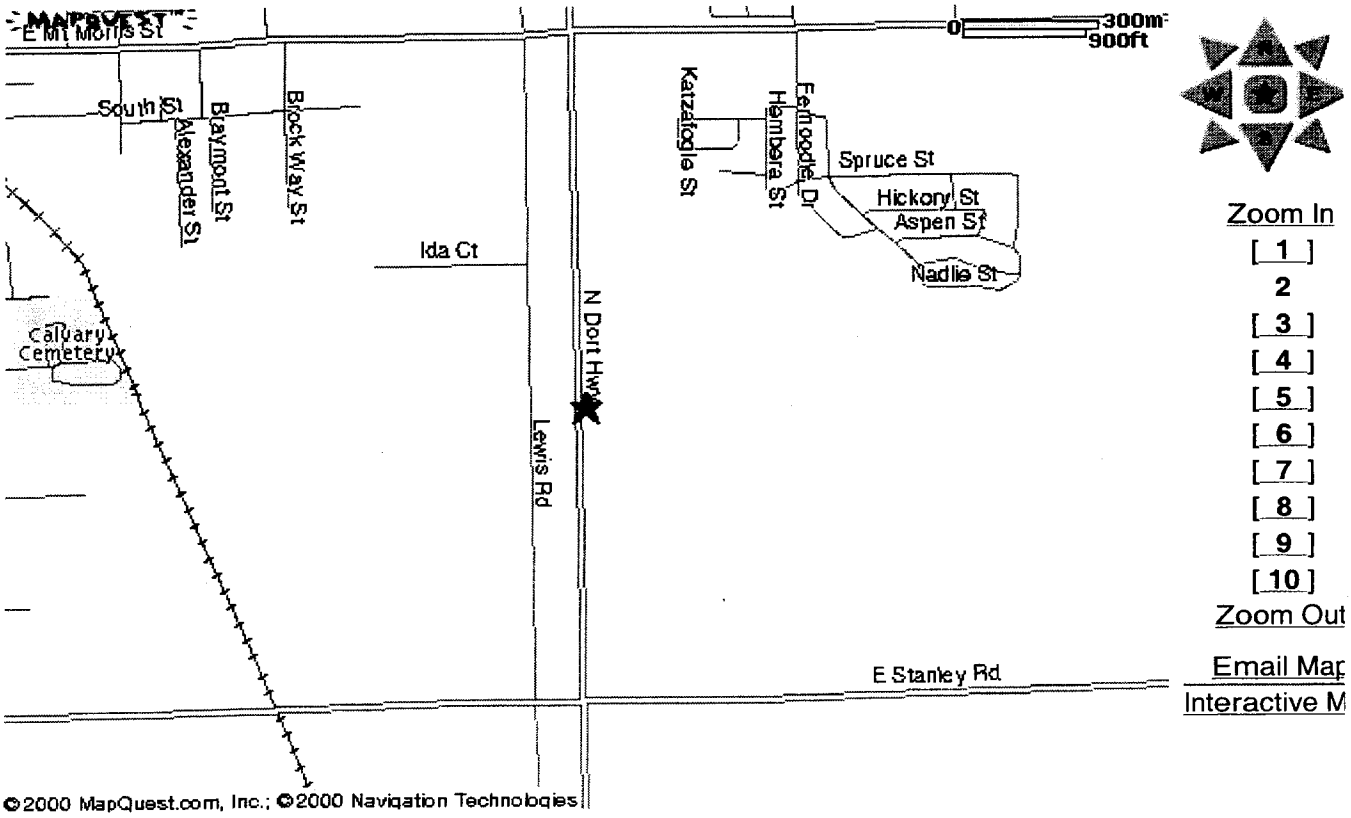
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	NE ¼ SE ¼ NE ¼	9	8N N/S	7E E/W

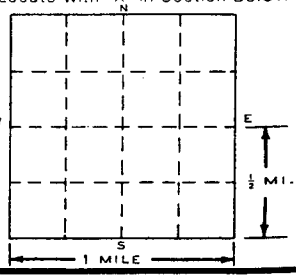
Distance And Direction From Road Intersection

ABOUT .35 MI S OF MT MORRIS RD (84)
ABOUT 145' W OF DORT HWY

Street Address & City of Well Location: 7293 DORT-HWY MT MORRIS MI 48458

Locate with "X" in Section Below

Sketch Map



3 OWNER OF WELL

JOYCE HENNEKE
Address 2300 JOILET ST
FLINT, MI 48504
Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH (completed) 114 ft. | **Date of Completion** 11 30 92

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded
5 in. to 110 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter
8 in. to 110 ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight PVC lbs./ft.
Drive Shoe ☐ Yes ☒ No

8 SCREEN ☐ Not Installed
Type JOHNSON Diameter 4"
Slot/Gauze 20 Length 4'
Set between 110 ft. and 114 ft.
FITTINGS ☒ K-Packer ☐ Lead Packer ☐ Bremer Check
☒ Blank above screen 12'ft Other ____

9 STATIC WATER LEVEL
42 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
80 ft. after ____ hrs. pumping at 25 G.P.M.
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION ☐ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 110 ft
☐ Neat cement ☒ Bentonite ☒ Other CLAY SL.
No. of bags of cement ____ Additives GAVEL PAC

13 Nearest source of possible contamination
Type SEPTIC Distance 50+ ft. Direction S
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name GOULDS
Model number 10LS05421 HP 1/2 Volts 115
Length of Drop Pipe 80 ft. capacity 12 G.P.M.
TYPE ☒ Submersible ☐ Jet ____
PRESSURE TANK
Manufacturer's name A-O SMITH
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Y CLAY	8.0	8.0
SAND	4.0	12.0
B CLAY	47.0	59.0
SAND	3.0	62.0
SOFT CLAY	46.0	108.0
GRAVEL	6.0	114.0

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Mich. Dept. of Public Health
FEB 24 1993

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GIDS

16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGOR GENESEE MI 48437

Signed [signature] AUTHORIZED REPRESENTATIVE Date 12-2-92

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- General Hospital
- General Hospital
- Guiding Light
- One Life to Live
- Port Charles
- Sunset Beach
- Guiding Light
- One Life to Live
- Port Charles
- Sunset Beach
- Young and the Restless

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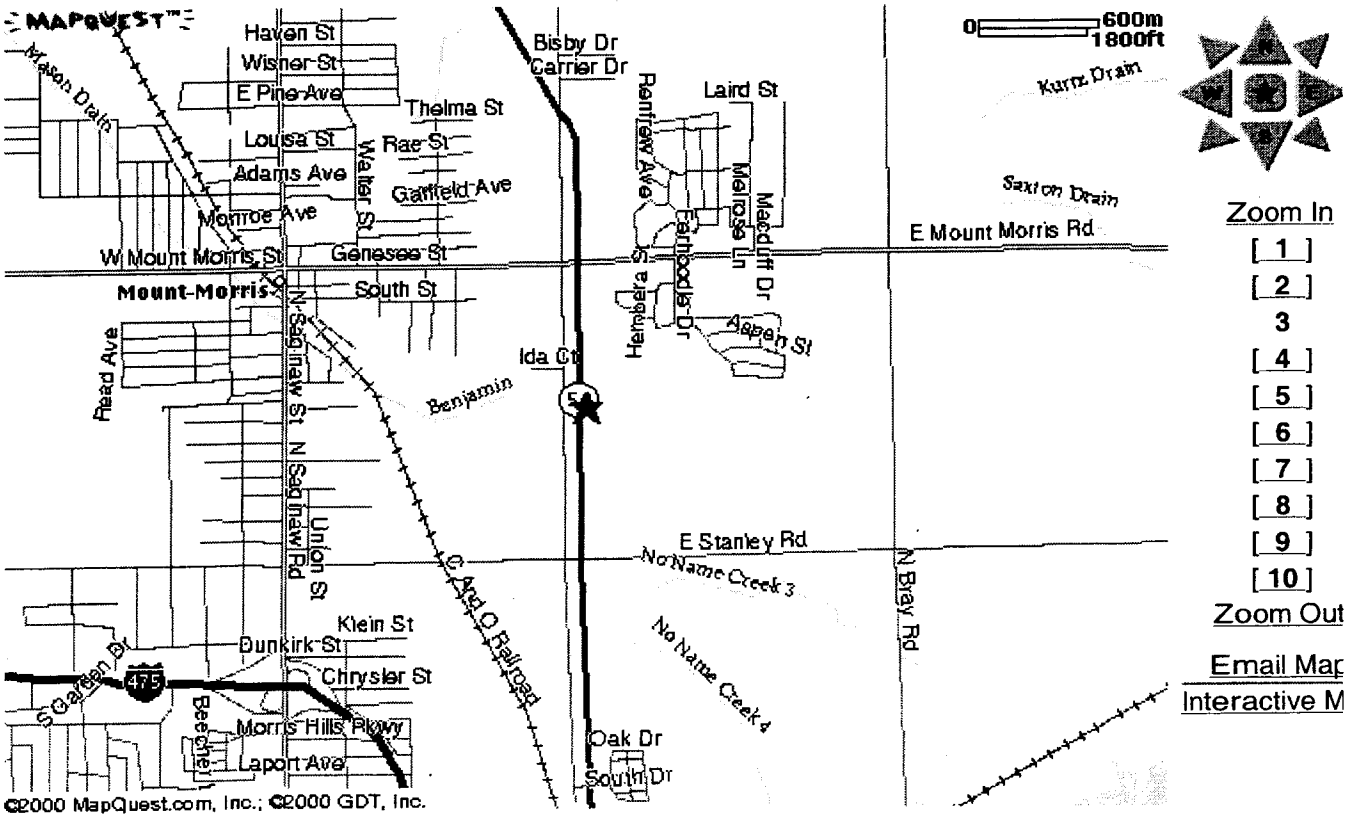
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

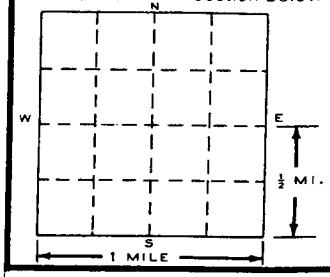
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ SW ¼ NW ¼	8	8 N/S	7 E/W

Distance And Direction From Road Intersection
Between Stanley & Mt. Morris Rd. on west side.
DORT MANOR APARTMENTS.

Street Address & City of Well Location G-7351 N. Dort Hwy. Mt. Morris

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL:

Joseph Uhrich
Address 410 Holland Rd.
Flushing, MI. 48433

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

104 FT.

Date Completed: MO 6 DAY 14 YEAR 94

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☐ Domestic ☐ Type I Public ☒ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 96 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/~~Below~~
Surface 1 ft.
Weight SDR21 lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Gray clay	70	80
Gravel	24	104

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8 SCREEN:

Johnson ☐ Not Installed
Type Stainless Diameter 4"
Slot/~~Gauge~~ (2) #12 Length 8'
Set between 96 ft. and 104 ft.
FITTINGS: ☒ K-Packer ☐ Lead Packer ☐ Bremer Check
☒ Blank above screen 3 ft. Other _____

9 STATIC WATER LEVEL:

40 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

95 ft. after 2 hrs. pumping at 2000 G.P.M. H.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 96 ft.
☐ Neat cement ☐ Bentonite ☒ Other Benseal
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance _____ ft. Direction North
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☒ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Gould
Model number 25EL15422 HP 1½ Volts 230
Length of Drop Pipe 90 ft. capacity 25 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name A.O. Smith
Model number V-350 Capacity 360 Gallons

15. Remarks, elevation, source of data, etc.

g Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co. 25-1947
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 5370 Corunna Rd. Flint, MI. 48532
Signed Clinton A. Burns Date 6-15-94
AUTHORIZED REPRESENTATIVE

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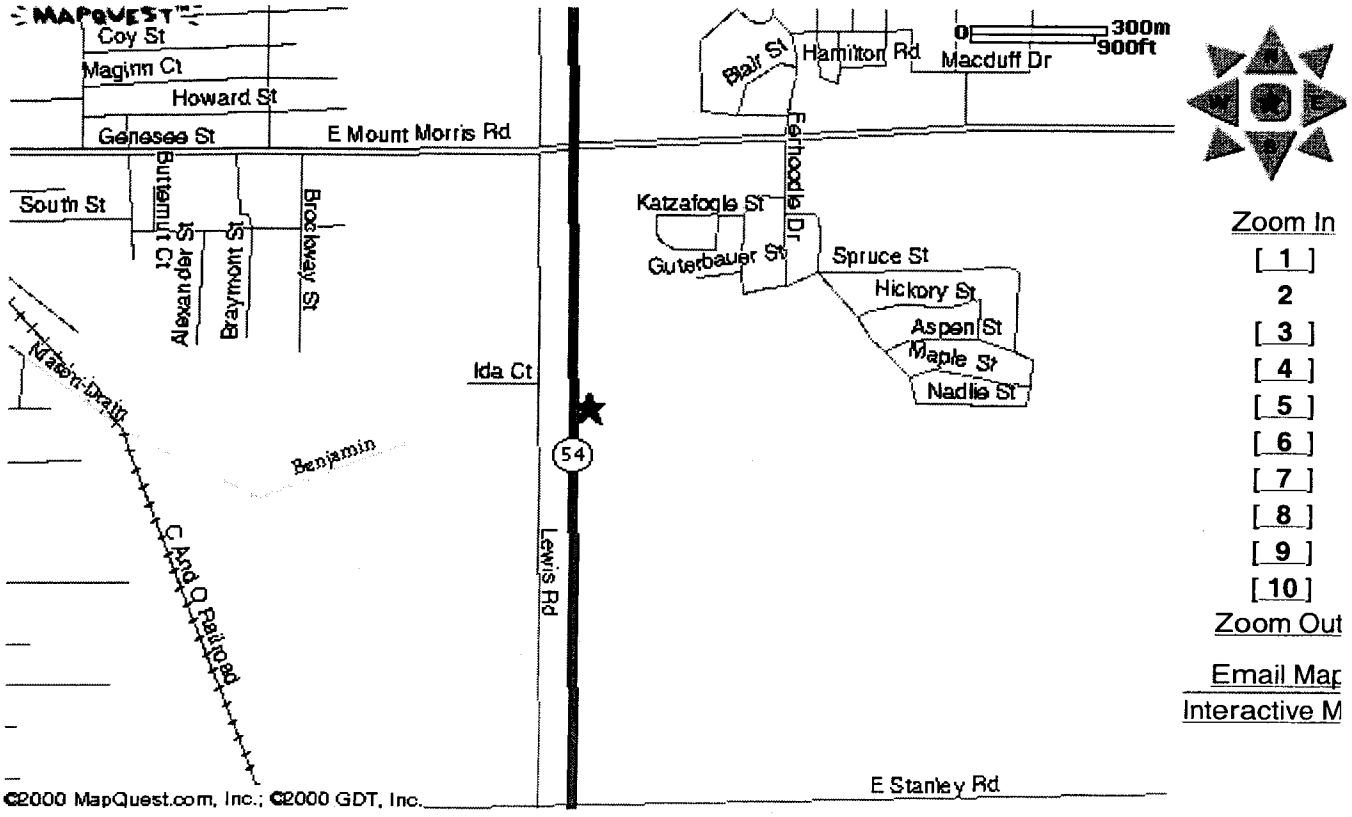
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MAY - 5 1976

3

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	GENESEE	W½ SW¼ NW¼	8	8 (N) S.	7 (E) W.

Distance And Direction from Road Intersections: **Between Mt. Morris & Stanley**

Street address & City of Well Location: **7365 N. Dort Hwy.**

Locate with "X" in section below. Sketch Map: MT Morris Rd, Dort Hwy, State Rd

N / W / E / S; ½ MI.; 1 MILE

3 OWNER OF WELL:
Address: **William Kerrison, 7365 N. Dort Hwy., Mt. Morris, MI** 86

4 WELL DEPTH: (completed) Date of Completion
322 ft. **April 1976**

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
4 in. to 270 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	25'	25'
Clay & gravel	10'	35'
Sand & gravel	5'	40'
Blue Clay & gravel	55'	95'
Sand & gravel	30'	125'
Blue clay & gravel	145'	270'
Gray sandstone	15'	285'
Limestone	5'	290'
Blue shale	32'	322'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
90 ft. below land surface

10 PUMPING LEVEL below land surface
320 ft. after 3 hrs. pumping 5 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 270 ft.

14 Nearest Source of possible contamination
60 feet NW Direction Septic Type
Well disinfected upon completion? ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Rapidayton
Model Number 10P27 HP 1 Volts 13 stage 230
Length of Drop Pipe 260 ft. capacity 7 G.P.M.
Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl S Lyons (AUTHORIZED REPRESENTATIVE) Date April 1976

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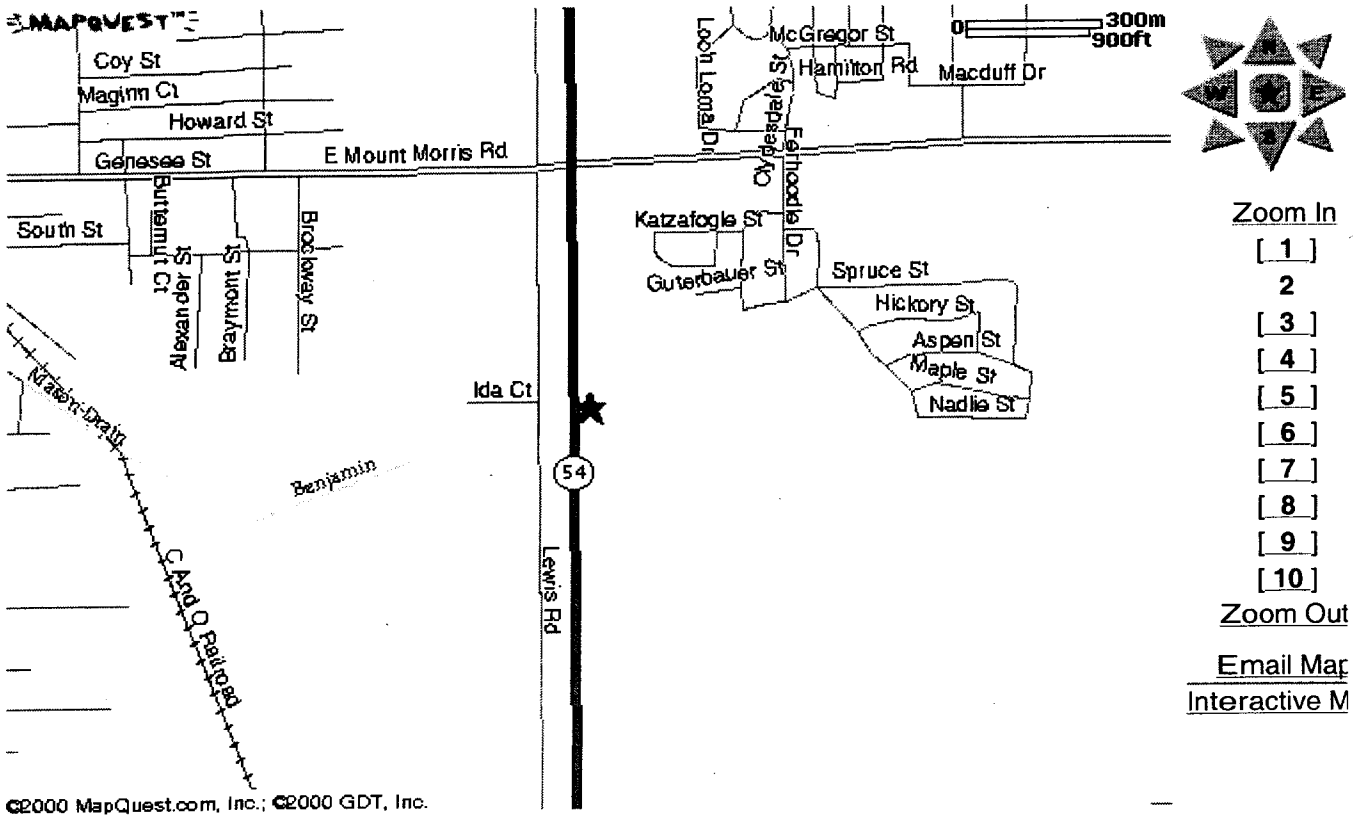
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NUMBER: W 9 4 25 5 6 4 4

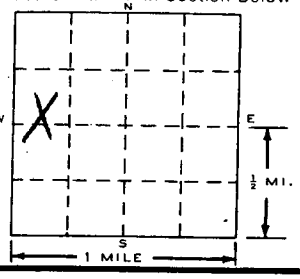
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	¼ NW¼ SW¼	7	8 N/S	9 E/W

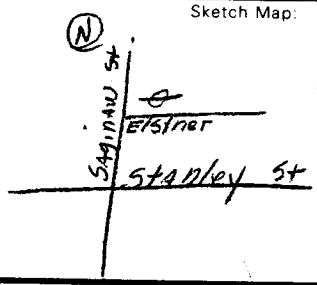
Distance And Direction From Road Intersection: North of Stanley Rd on East. 87

Street Address & City of Well Location: 1023 Elstner St

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Address: Sami Daraiseh
G-7110 N Saginaw St
Mt Morris

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH

224 FT. Date Completed MO. 2 DAY 22 YEAR 94 ☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☐ Domestic ☐ Type I Public ☒ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 166 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
9 in. to 166 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay	29	29
sandy, clay, stones	121	150
sandstone, dirty clay	10	160
sandstone	23	183
mestone, sandstone	41	224

USE A 2ND SHEET IF NEEDED

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8 SCREEN

☐ Not Installed
Type NA Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

87 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

224 ft. after _____ hrs. pumping at 30+ G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 166 ft.
☐ Neat cement ☒ Bentonite ☐ Other 0-25
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☒ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name McDonald
Model number K2 HP 3/4 Volts _____
Length of Drop Pipe 120 ft. capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name Well X-trol
Model number 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

Rig Operator's Name: Brad Taylor

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 Lewis Rd Clio

Signed Brad Taylor AUTHORIZED REPRESENTATIVE Date 3 11 94

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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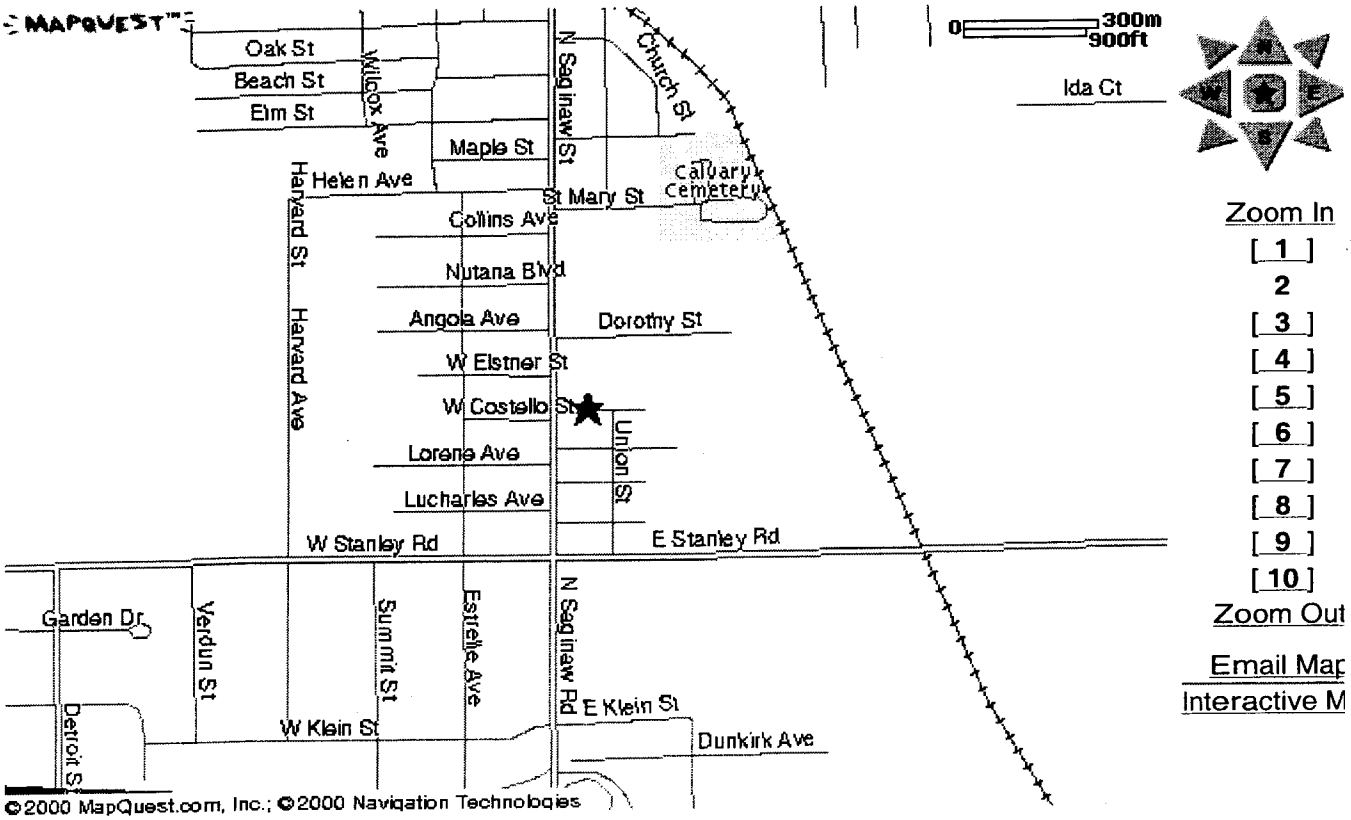
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★ **1023 E Elstner St, Mount Morris, MI 48458-2238** (17)

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

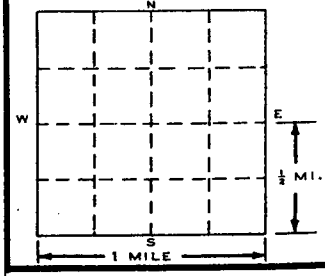
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection
About 200 ft. W. of N. SAGINAW St.
About 80 ft. N. of ELTSNER

Street Address & City of Well Location At 1030

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: CLINE PILLOW 88
Address 1030 W. ELTSNER
MT. MORRIS MICH
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 260 FT. Date Completed MO 7 DAY 21 YEAR 88 [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [X] Welded
5 in. to 171 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 167 ft. depth
_____ in. to _____ ft. depth
Height: Above/~~Below~~
Surface _____ ft.
Weight PVC lbs./ft.
~~Drive Shoe~~ [X] Yes [ ] No TAPE

8 SCREEN: [ ] Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 101 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
160 ft. after _____ hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From TOP to 167 ft.
[ ] Neat cement [X] Bentonite [X] ~~Other~~ CLAY SLURRY
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SANITARY Distance 10 ft. Direction W
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Gould's
Model number 10ES412 HP 3/4 Volts 230
Length of Drop Pipe 180 ft. capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name A.O Smith
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	10	10
Yellow Clay	7	17
Blue Clay	73	90
Gravel	11	101
Blue Clay	39	140
Black Shale w/ Strips Brown Shale	35	175
Brown Shale	6	181
Gray Sandstone	43	224
Broken Shale	18	242
Gray Sandstone	18	260

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Mich. Dept. of Public Health
AUG 25 1988
Bureau of Environmental and Occupational Health-GWCS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.
Inner Cased with 10' 1/4" PVC from 165-175 sealed with Tape

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Perron Well Drilling 020
REGISTERED BUSINESS NAME REGISTRATION NO.
Address Genesee
Signed Doug Perron Date 7-22-88
AUTHORIZED REPRESENTATIVE

Rig Operator's Name:
Doug

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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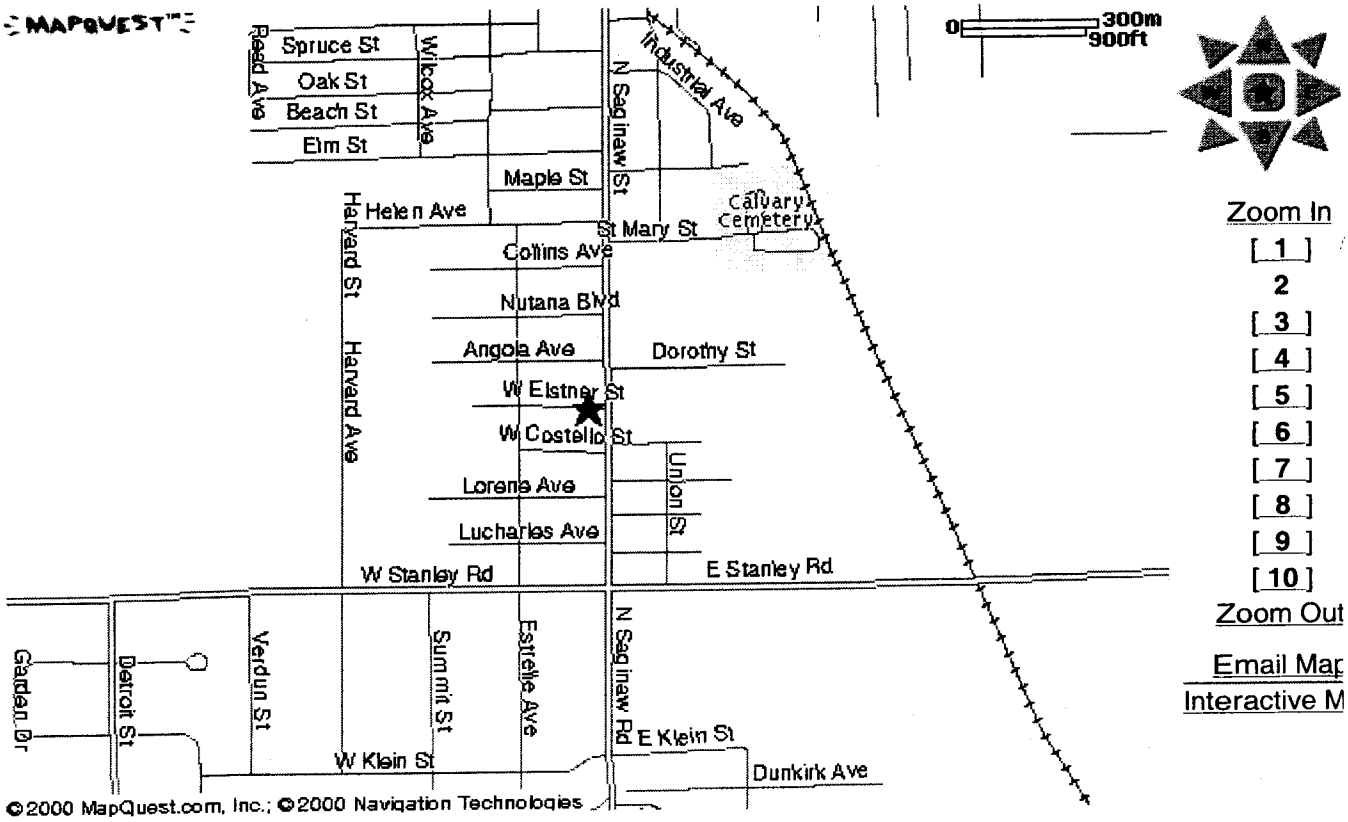
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

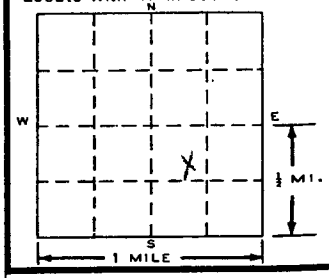
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE ¼ NW ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

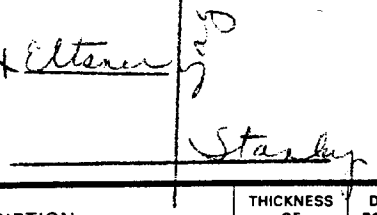
Mt. Morris and Stanley Rd.
Saginaw St. End

Street Address & City of Well Location 1104 Eltsner Ave.

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL:

Robert Lannon
Address 121 W. Piper
Flint, MI. 48505
Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

220 FT. Date Completed MO. 08 DAY 01 YEAR 89 ☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 135 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 135 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
SDR21
Drive Shoe ☐ Yes ☐ No
Shale Boot

8 SCREEN:

☒ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

80 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

218 ft. after 3 hrs. pumping at 42 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 135 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance 50+ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Trico
Model number 7TS10P051 HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Rapidayton
Model number 42-T Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	45	45
Sand	45	90
Clay	32	122
Gray Sandstone	48	170
Green Sandstone	28	198
Limestone	12	210
Gray Sandstone	10	220
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
USE A 2ND SHEET IF NEEDED	0	0

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling Inc. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy Mt. Morris, MI 48458

Signed Gary M. Lyons Date 08/14/89
AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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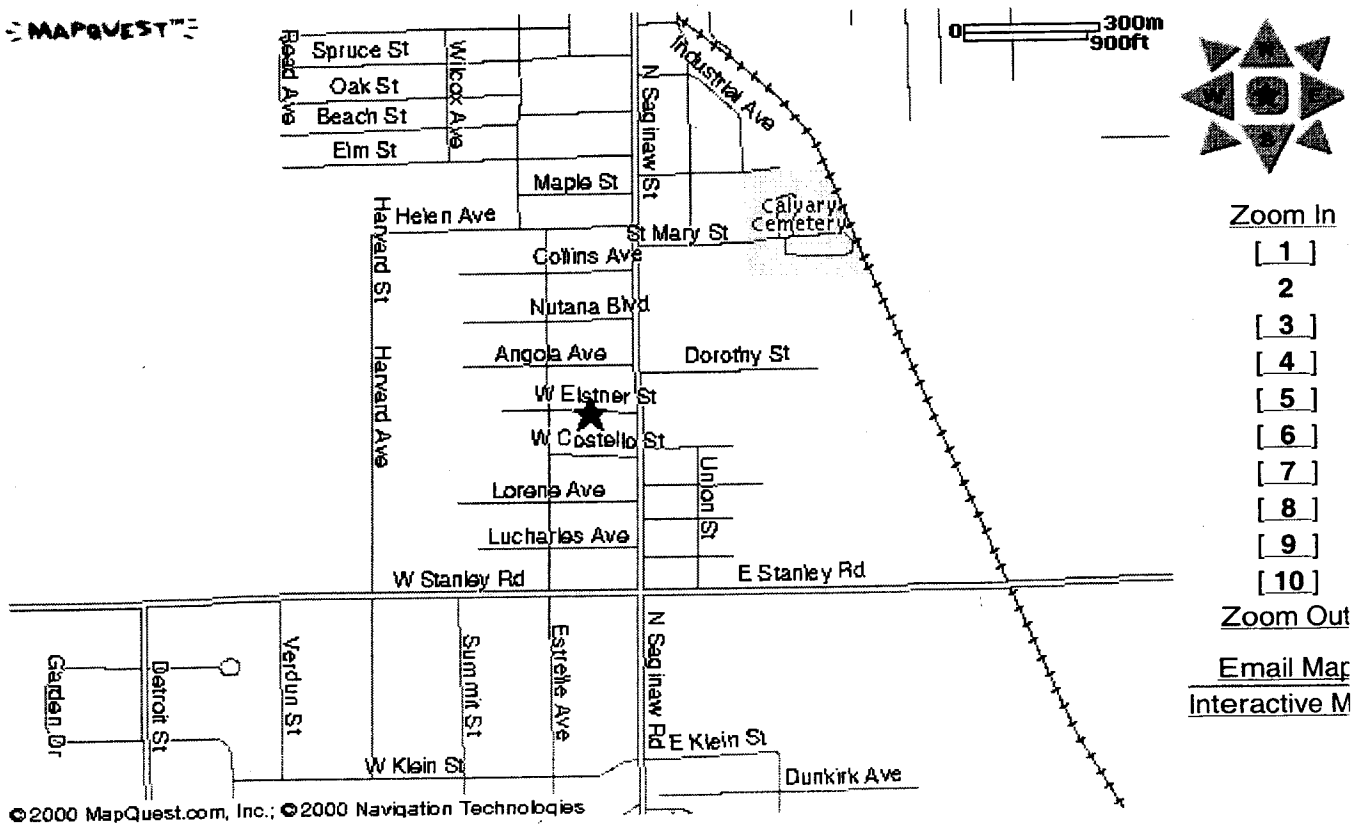
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

1. LOCATION OF WELL

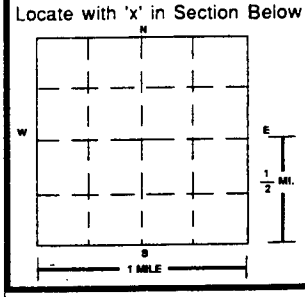
County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESSEE	GENESSEE	1/4 1/4 1/4	20	8 N	7 E

Distance and Direction from Road Intersection

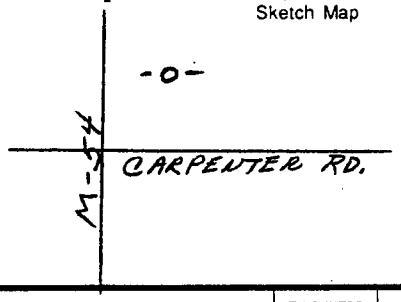
1/2 Mile North of Carpenter Road - 1/4 Mile East of M-54 ~~WELL #2~~ 5315 Energy Plant

Street Address & City of Well Location ~~Carpenter Road, Flint~~ 40

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address Genessee Power Station
Carpenter Road, Flint
Address Same as Well Location [X] Yes [ ] No

4. WELL DEPTH: 260 ft. | Date Completed 9 / 14 / 94 | [XX] New Well [ ] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [X] Auger/Bored [ ] Jetted [ ] _____

6. USE: [ ] Household [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [X] Cooling

7. CASING: [X] Steel [ ] Threaded [ ] Plastic [X] Welded [ ] Other _____
Diameter: 10 in. to 140 ft. depth; _____ in. to _____ ft. depth
BORE HOLE: Diameter: 15 in. to 140 ft. depth; _____ in. to _____ ft. depth
Height: Above/~~Below~~ Surface: 1'6" ft
Weight: 40 lbs./ft.
[ ] Drive Shoe [ ] Shale Packer

8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
55 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
_____ ft. After _____ hrs. Pumping at 80 G.P.M.
[ ] Plunger [ ] Bailer [ ] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[ ] Pitless Adapter [ ] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 140 to surface
[X] Neat Cement [ ] Bentonite [ ] Other _____
No. of Bags _____ Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name _____
Model Number Aermotor HP _____ Volts _____
Length of Drop Pipe 66MB120-7 ft. Capacity 15 480 G.P.M.
TYPE: [ ] Submersible [ ] Jet [ ] Other 220 80
PRESSURE TANK:
Manufacturer's Name _____
Model Number _____ Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
~~Clay~~	~~20~~	~~20~~
~~Sand & Gravel~~	~~10~~	~~30~~
~~Clay~~	~~43~~	~~73~~
~~Sand & Gravel~~	~~6~~	~~79~~
~~Clay & Gravel~~	~~23~~	~~102~~
~~Shale~~	~~36~~	~~138~~
~~Sandstone~~	~~12~~	~~150~~
~~Limestone~~	~~5~~	~~155~~
~~Sandstone~~	~~6~~	~~161~~
~~Limestone~~	~~14~~	~~175~~
~~Sandstone~~	~~39~~	~~214~~
~~Limestone & Shale~~	~~6~~	~~220~~
~~Shale~~	~~12~~	~~232~~
~~Shale & Limestone~~	~~24~~	~~256~~
~~Limestone~~	~~4~~	~~260~~

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BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

15. ABANDONED WELL PLUGGED? [ ] Yes [ ] No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry [ ] Cement/Bentonite Slurry [ ] Concrete Grout [ ] Bentonite Chips
No. of Bags _____ Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
[XX] Employee [ ] Subcontractor
Name Richard Bloom

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Raymor Company, Inc. 0384
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1357 Comstock street, Marne 49435

Signed _____ Date Nov. 2, 1994
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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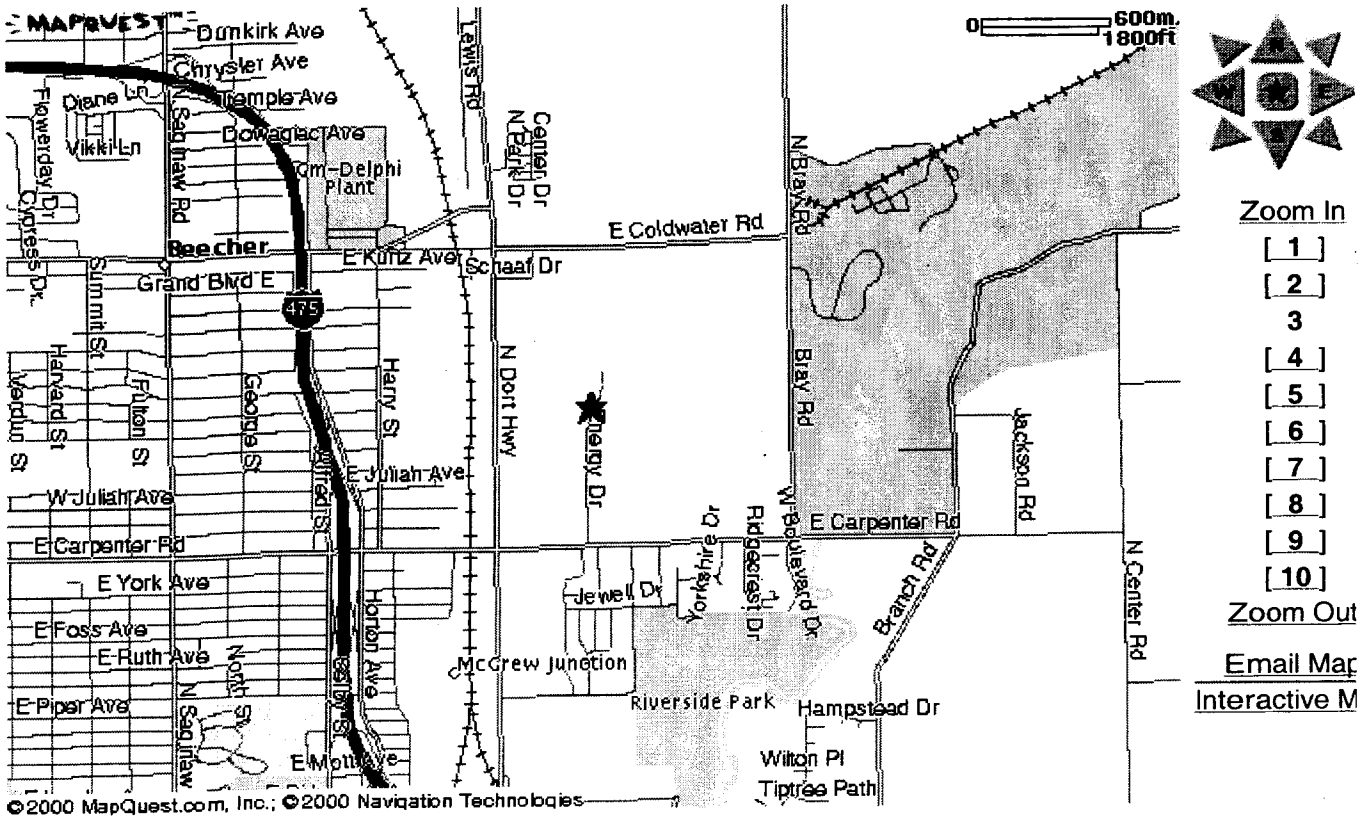
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★ **5315 Energy Drive, Flint, MI 48505-1854** 90

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

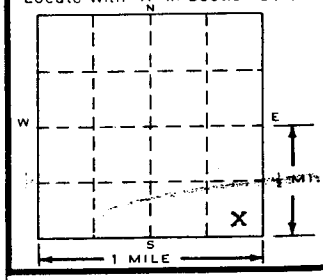
County	Township Name	Fraction	Section Number	Town Number	Range Number
enesee	Mt Morris	SE¼ SE¼ SE¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

91

Street Address & City of Well Location: 7051 Estrelle Street

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Oakwood Reality
G2341 N. Linden Rd
Flint, MI

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

222 FT.

Date Completed: MO. 02 DAY 07 YEAR 96

[X] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING:

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 140 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

7-7/8 in. to 137 ft. depth

Height: Above/Below

Surface ____ ft.

Weight ____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	30	42
Sand	20	62
Blue Clay	75	137
Limestone	15	152
Sandstone	20	172
Sandstone	5	177
Limestone	12	189
Sandstone	10	199
Limestone	5	204
Sandstone	18	222

8 SCREEN:

[ ] Not Installed

Type ____ Diameter ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:

80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

140 ft. after 2 hrs. pumping at 30 G.P.M.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 137 to 0 ft.

[ ] Neat cement [X] Bentonite [ ] Other ____

No. of bags of cement 5 Additives Crumbles

13 Nearest source of possible contamination

Type Sewer Distance 12 ft. Direction S

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aermotor

Model number ____ HP 3/4 Volts 220

Length of Drop Pipe 60 ft. capacity 12 G.P.M.

TYPE: [X] Submersible [ ] Jet ____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

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Mich. Dept. of Public Health
JUL 18 1996
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc
REGISTERED BUSINESS NAME — REGISTRATION NO. 1242

Address 1151 Paul Street

Signed Robert J Dekoski Date 06-18-96
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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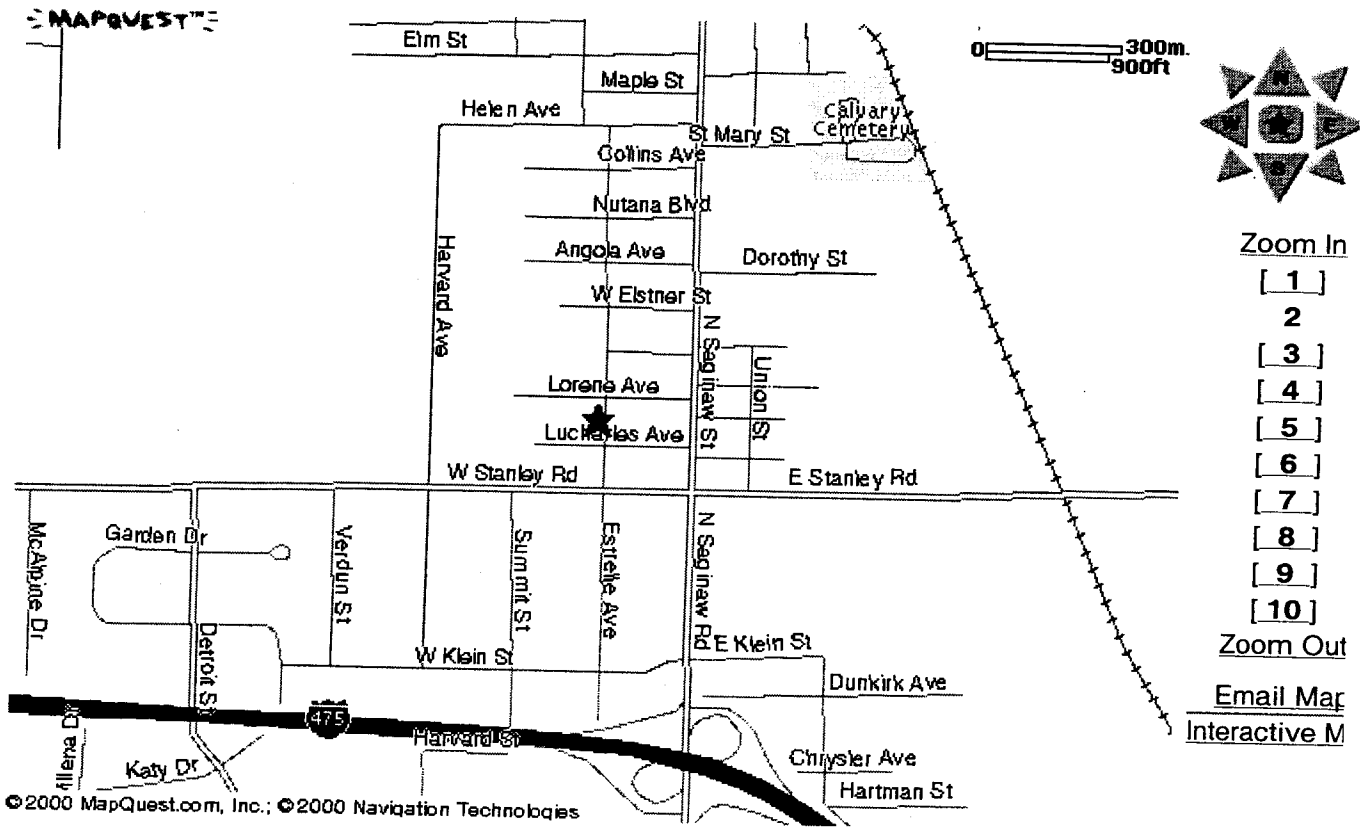
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★ **7051 Estrelle Street, Mount Morris, MI 48458-2152** 41

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	se ¼ se ¼ se ¼	12	8 N/S	6 E/W

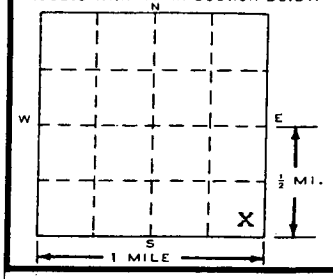
Distance And Direction From Road Intersection

42

Street Address & City of Well Location: 7065 Estreele St

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL:

Address: Oakwood Reality
2341 N. Linden Rd
Flint, MI

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

247 FT.

Date Completed: MO. 12 DAY 30 YEAR 94

[X] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 140 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Blue Clay	28	38
Sand	15	53
Blue Clay	72	125
le	25	150
Limestone	15	165
Sandstone	20	185
Limestone	30	215
Sandstone	30	247

USE A 2ND SHEET IF NEEDED

RECEIVED MICH. DEPT. OF PUBLIC HEALTH JUL -5 BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH

8 SCREEN:

[ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

140 ft. after 1 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 140 to 0 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement 4 Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 30 ft. Direction S

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aermotor

Model number _____ HP 3/4 Volts 220

Length of Drop Pipe 140 ft. capacity 12 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 E. Paul St

Signed Robert J Dekoski Date 06-12-95

AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation

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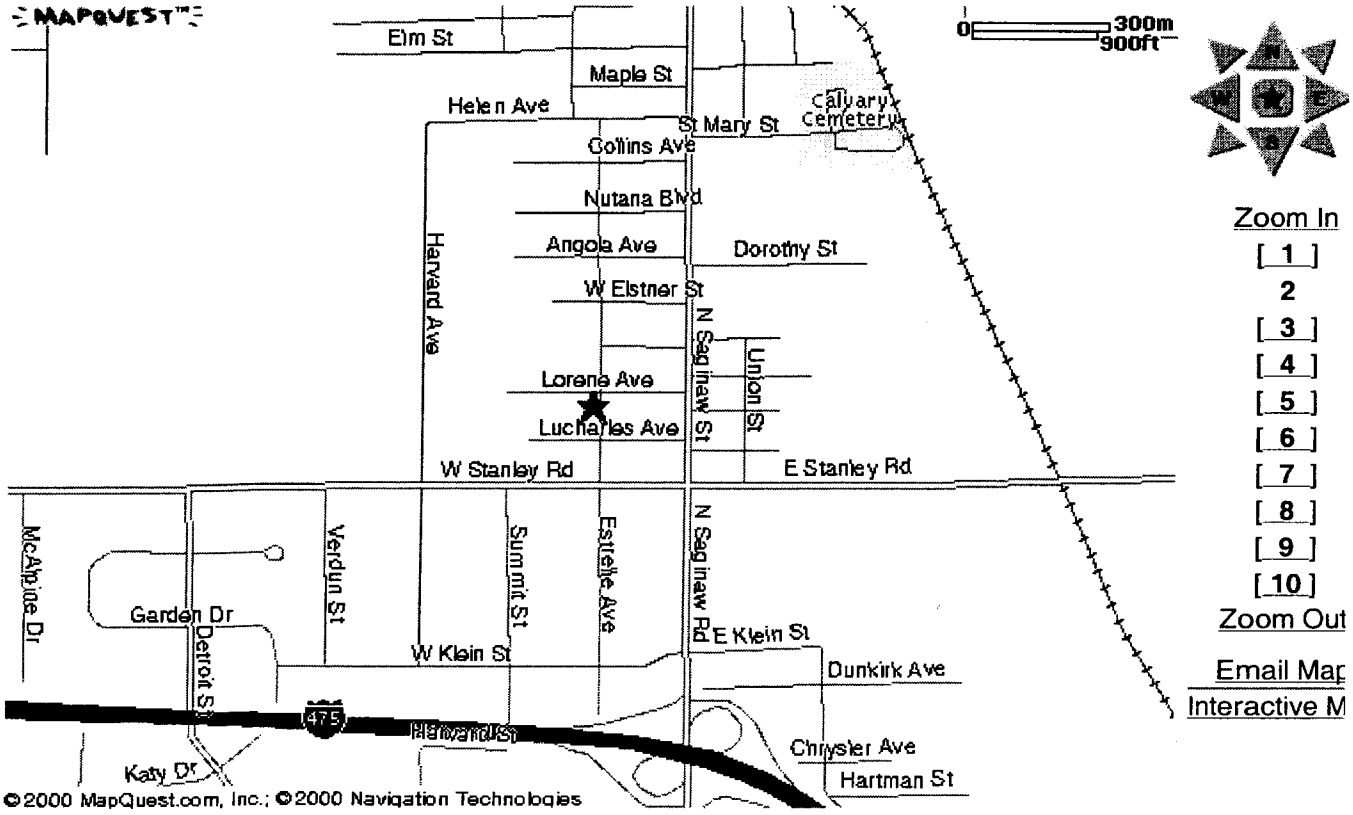
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TAX NO: | WATER WELL AND PUMP RECORD | PERMIT NO: | Page of 1 1

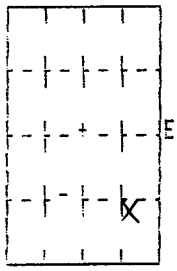
1. LOCATION OF WELL

County	Township Name	Fraction	Section No	Town No	Range Number
GENESEE	MT MORRIS	NW 1/4 SE 1/4 SE 1/4	12	8 N	6 E

Distance And Direction From Road Intersection
.2 MILE WEST AND .2 MILE NORTH OF STANLEY ROAD AND SAGINAW ROAD

Well Addr: 7103 ESTRELLE AVENU

Locate with 'X' in Sec. Below



1/2 mi.

Sketch Map



3. Owner of Well MARY KEIMER 93
Address 7103 ESTREELE AVENUE
MT MORRIS MI
Address Same as Well Location? YES

4. WELL DEPTH 200 ft. | Date Compl 08/26/97 | This is a: REPLACEMENT

5. EQUIPMENT USED: ROTARY

6. WELL USE: HOUSEHOLD

7. CASING Type: PLASTIC | Connection: WELDED
Diam. | Height ABOVE
5 in. to 144 ft. | Surface 1 ft
in. to ft. | Weight lb./ft.
BORE HOLE: | Drive Shoe NO
8 3/4 in. to 144 ft. | Shale Packer NO
in. to ft.

Formation Description	Thickness	Depth
BROWN CLAY	13	13
GRAY CLAY	5	18
GRAVEL	3	21
CLAY	85	106
SANDY CLAY	35	141
SANDSTONE	39	180
LIMESTONE	5	185
STONE	15	200

DRILLER NOTES:
5 7/8" TO 151'
4 1/2" TO 200'

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MICH DEPT OF ENVIRONMENTAL QUALITY
OCT 1 1997
Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

8. Screen Type: _____ Diam: ____ [X] Not Inst.
____ _____ Length: ____
Set Between ____ ft. and ____ ft.
Fittings: _____ [_] Blank above scrn: ____ ft

9. Static Level: 90 ft. Flow: [N]

10. Pumping Level below land surface:
200 ft. after 1 hrs. @ 30 GPM
[_] Plunger [_] Bailer [X] Air [_] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 140 to 0 ft Material: BENSEAL
No. of Bags 14 bags Additives: SUPER MUD

13. Nearest source of possible contamination:
Type: SANITARY SEWER Distance: 20 ft. Dir: SOUTH
Type: Distance: ft. Dir:

14. Pump: [_] Not Installed [_] Installation Only
Manufacturer's Name: RED JACKET
Model: 50CNICN9BC HP: 0.5 Voltage: 220
Drop pipe: 120 ft. Capacity: 10 GPM
Pump type: SUBMERSIBLE
Pressure Tank Manufacturer's Name : WELL X-TROL
Model: 203 Capacity: 10 Gal.

15. Abandoned Well Plugged? NO See Remarks
Casing Diameter in. Depth ft.
Plugging Material:
No. of Bags Casing Removed?

16. Remarks, elevation, source of data, etc.
PUMP - JEFF BABINGER
OLD WELL UNDER DRIVEWAY COULD NOT BE ABANDONED

17. Drilling Machine Operator: [X] Employee [_] Subcontractor
Name PAUL WENDLING

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Registered Bus. Name ED BIRKMEIER WELL DRILLING LTD 1607
Business Address 10655 Easton Road New Lothrop MI 48460

Signed _____ 09/02/97
Authorized Representative Date

GW-8-229 9/93
Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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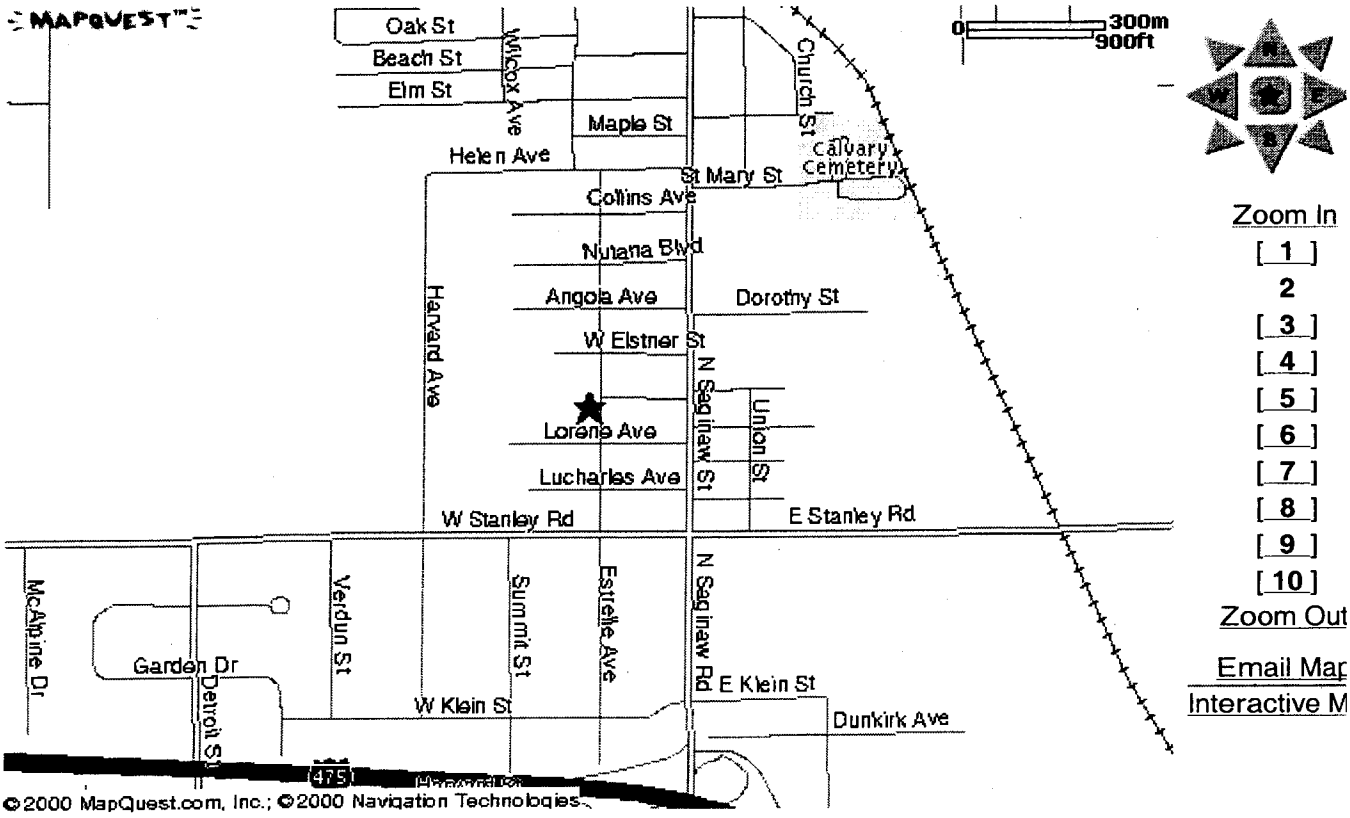
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GEOLOGICAL SURVEY NO. 1982

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

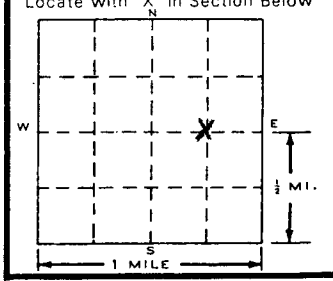
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NE ¼ SW ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

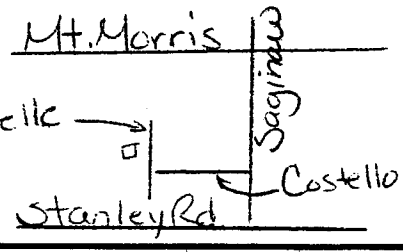
1 block off Saginaw on Costello then first house on west side of Estrelle.

Street Address & City of Well Location: 7117 Estrelle

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

(94)

Address: Joe Brown, 7117 Estrelle, Mt. Morris, MI 48458

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH (completed)

200 ft.

Date of Completion: 9-8-82

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 143 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

7 7/8 to 143 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface 1 ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

8 SCREEN

☒ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

82 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

Air 200 ft. after 1 hrs. pumping at 20-50 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☒ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to _____ ft

☐ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement 0 Additives Insta Pac

13 Nearest source of possible contamination

Type ~~Sanitary~~ Distance 6 ft. Direction S

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name: Tait

Model number 5DL310 HP ½ Volts 220

Length of Drop Pipe 120 ft. capacity 10 G.P.M.

TYPE ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name: Amtrol

Model number 202 Capacity 5-7 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	35	35
Silt with sand	20	55
Clay	35	90
Gravel	5	95
Clay	44	139
White shale (sandy)	11	150
Sand rock hard	40	190
Soft Green sand rock	10	200
3gpm until 140'		
Pump sand but was cleared		
nearly completely.		

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NOV 12 1982
Environmental and Occupational Health Administration

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ed ~~Birkmeier Well Drilling Ltd.~~ 1607
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 10707 Easton Rd. New Lothrop, MI 48460

Signed Edward Birkmeier Date 10-8-82
AUTHORIZED REPRESENTATIVE

D67d (Rev. 10-80)

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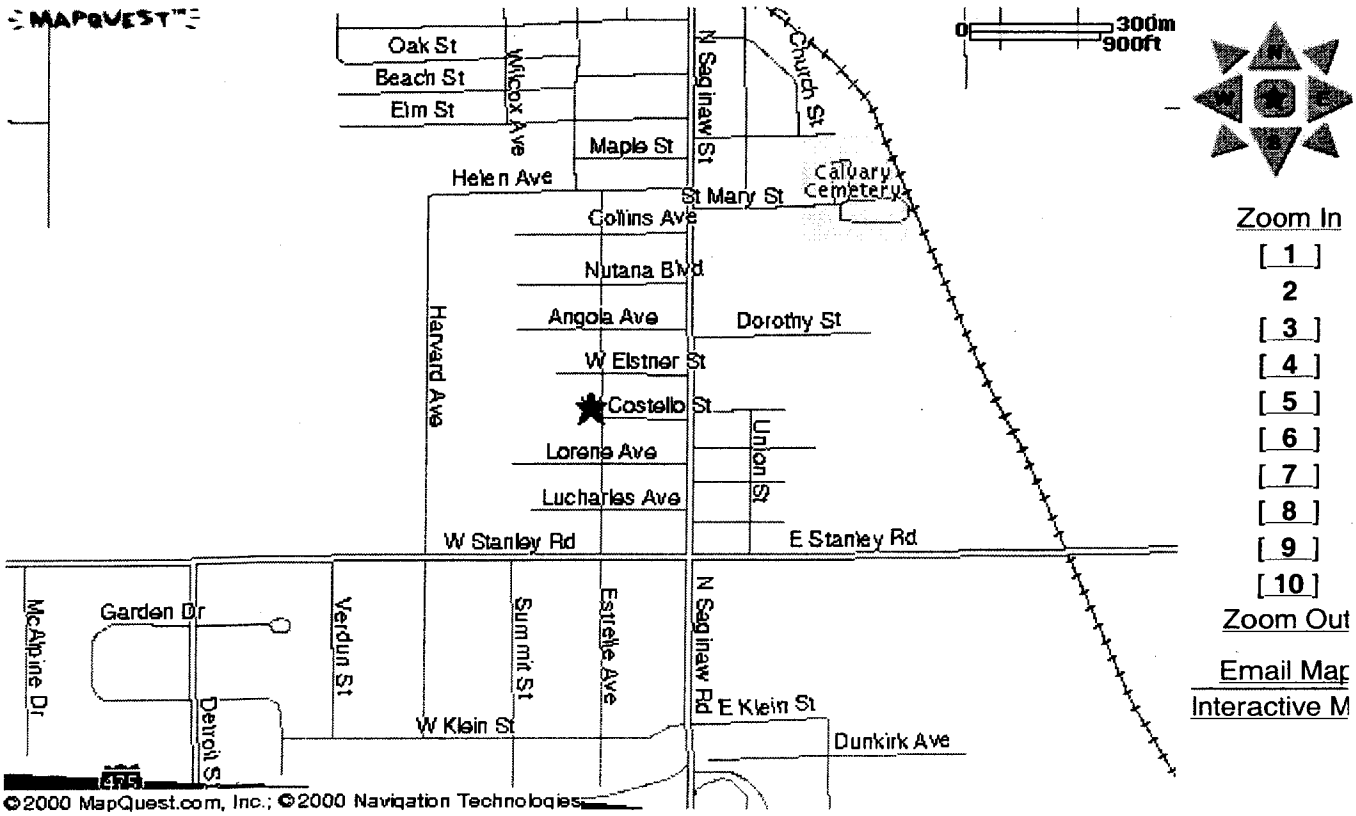
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Amended Well Log with well abandonment

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

TRK NO: | PERMIT NO: | Page of 1 1

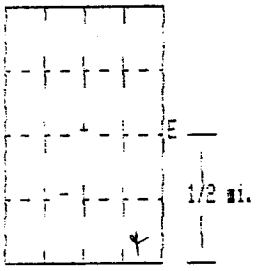
1. LOCATION OF WELL

County	Township Name	Fraction	Section No	Town No	Range Number
GENESEE	MT MORRIS	SW 1/4 SW 1/4 SE 1/4	18	8 N	6 E

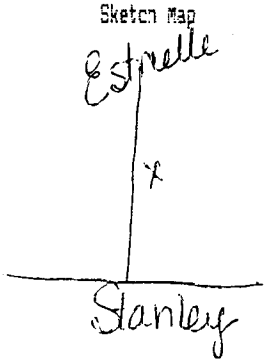
Distance And Direction From Road Intersection
1/2 MILE NORTH OF STANLEY ROAD ON THE EAST SIDE OF ESTRELLE ROAD

Well Addr: 7126 ESTRELLE ROAD

Locate with 'X' in Sec. Below



Sketch Map



3. Owner of Well TERESA HAGUSS 95
Address 7126 ESTRELLE
MT MORRIS MI 48458
Address Same as Well Location? YES

4. WELL DEPTH 220 ft. | Date Compl 05/06/97 | This is a: REPLACEMENT

5. EQUIPMENT USED: ROTARY

6. WELL USE: HOUSEHOLD

7. CASING Type: PLASTIC | Connection: WELDED
Dias. | Height ABOVE
5 in. to 143 ft. | Surface 1 ft
in. to ft. | Weight lb./ft.
BORE HOLE: | Drive Shoe NO
3 1/2 in. to 143 ft. | Shale Packer NO
in. to ft.

Formation Description	Thickness	Depth
BROWN CLAY	20	20
GRAY CLAY	120	140
SANDROCK	3	143
SHALE	7	150
SANDROCK	50	200
[illegible]STONE	15	215
[illegible]STONE	5	220

DRILLERS NOTES:
4 1/2" TO 220'

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JAN 06 1998
Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

8. Screen Type: _____ Dias: ____ [X] Not Inst.
____ _____ Length: ____
Set Between ____ ft. and ____ ft.
Fittings: _____ [_] Blank above scrn: ____ ft

9. Static Level: 85 ft. | Flow: NO

10. Pumping Level below land surface:
140 ft. after 1 hrs. @ 20 GPM
[_] Plunger [_] Bailer [X] Air [_] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 143 to 0 ft Material: BENSEAL
No. of Bags 15 bags Additives: SUPER MUD

13. Nearest source of possible contamination:
Type: SANITARY SEWER Distance: 20 ft. Dir: NORTH
Type: Distance: ft. Dir:

14. Pump: [_] Not Installed [_] Installation Only
Manufacturer's Name: RED JACKET
Model: 75CNICN6CC HP: 0.75 Voltage: 230
Drop pipe: 120 ft. Capacity: 10 GPM
Pump type: SUBMERSIBLE
Pressure Tank Manufacturer's Name : WELL X-TROL
Model: 203 Capacity: 10 Gal.

15. Abandoned Well Plugged? YES
Casing Diameter 2 in. Depth 100 ft.
Plugging Material: NEAT CEMENT
No. of Bags 2 Casing Removed? N

16. Remarks, elevation, source of data, etc.
PUMP - JEFF BABINGER

17. Drilling Machine Operator: [X] Employee [_] Subcontractor
Name BARRY BROWN

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Registered Bus. Name ED BIRKMEIER WELL DRILLING LTD 1607
Business Addre[illegible] 10655 East[illegible] New[illegible]throp MI 48460

Signed Ed Birkmeier 06/11/97
Authorized Representative Date

GW-8-223 9/92
[illegible]hority: Act 368 PA 1978
[illegible]mpletion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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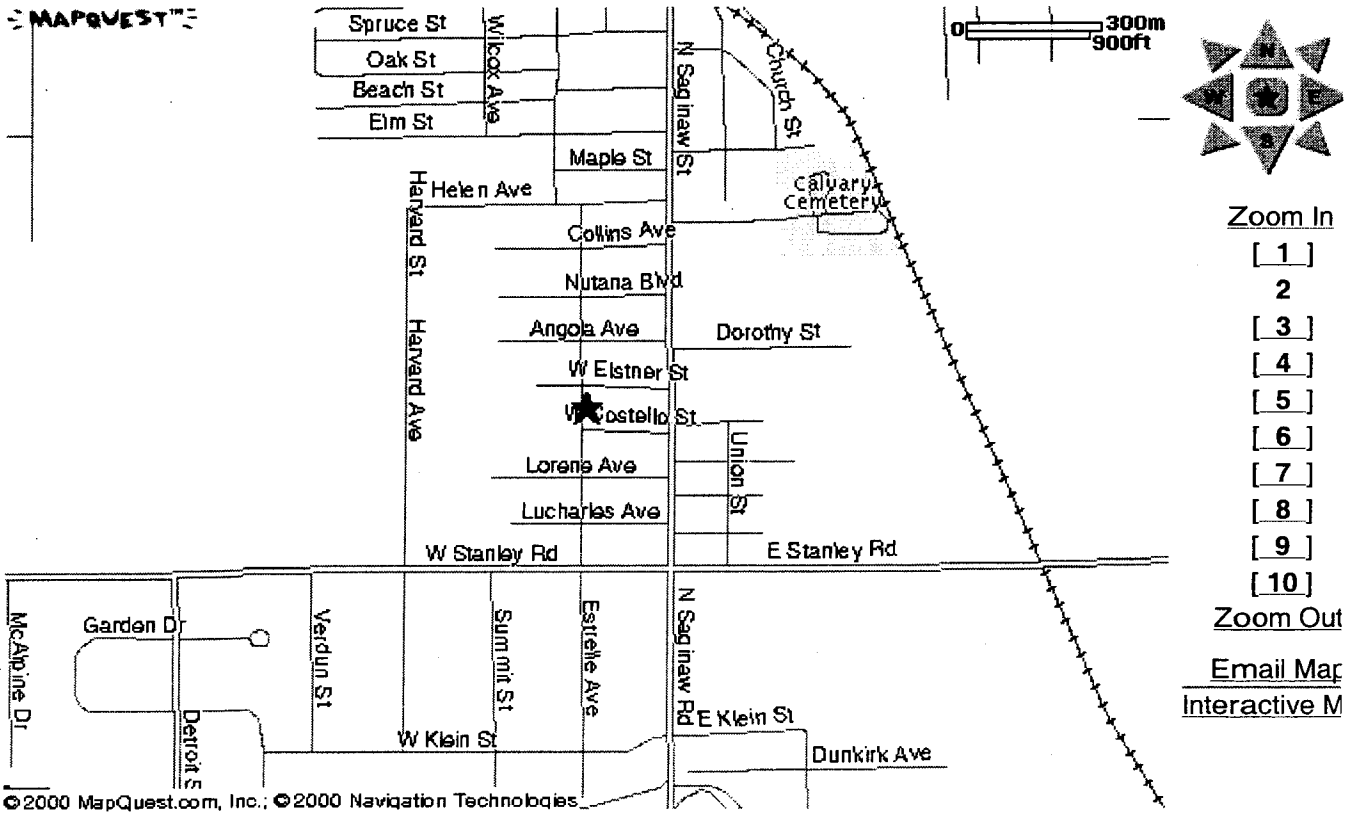
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO. [ ]

WATER WELL AND PUMP RECORD

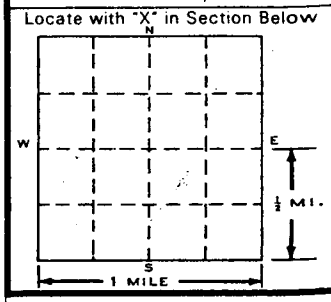
PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection
About 70 ft N. of E. COLVIN ST.
About 75 ft W. of ESTRELLE ST.
Street Address & City of Well Location at 7151

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL

Richard Eckstein
Address 7151 Estrelle St. MT. MORRIS Mich 48
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH

255 FT.

Date Completed: MO. 7 DAY 24 YEAR 87

[ ] New Well [X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE

[ ] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING

Diameter [ ] Steel [ ] Threaded [ ] Plastic [ ] Welded

5 in. to 133 ft. depth
in. to ft. depth
Grouted Drill Hole Diameter
8 in. to 134 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight lbs./ft.
Drive Shoe [ ] Yes [ ] No
Tape

8 SCREEN

[ ] Not Installed
Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL

92 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

140 ft. after hrs. pumping at 25 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION

[ ] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [ ] Yes From Top to 134 ft.
[ ] Neat cement [ ] Bentonite [ ] Other
No. of bags of cement Additives

13 Nearest source of possible contamination

Type SANITARY SEWER Distance ft. Direction E
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [X] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Gould
Model number 10ET0412 HP 1 Volts 230
Length of Drop Pipe 100 ft. capacity 15 G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name Ownes Galv. Tank
Model number Capacity 42 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	17	17
Blue Clay	71	88
Sand	17	105
Blue Clay	12	117
Red Shale	4	121
Black Shale	10	131
Grey Sandstone	49	180
Brown Shale w/ Strips	40	220
Grey Sandstone		
Brown Shale	20	240
White Sandstone	15	255

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRLG. 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR ST. GENESEE MI.
Signed Bud Perio AUTHORIZED REPRESENTATIVE Date 7-26-87

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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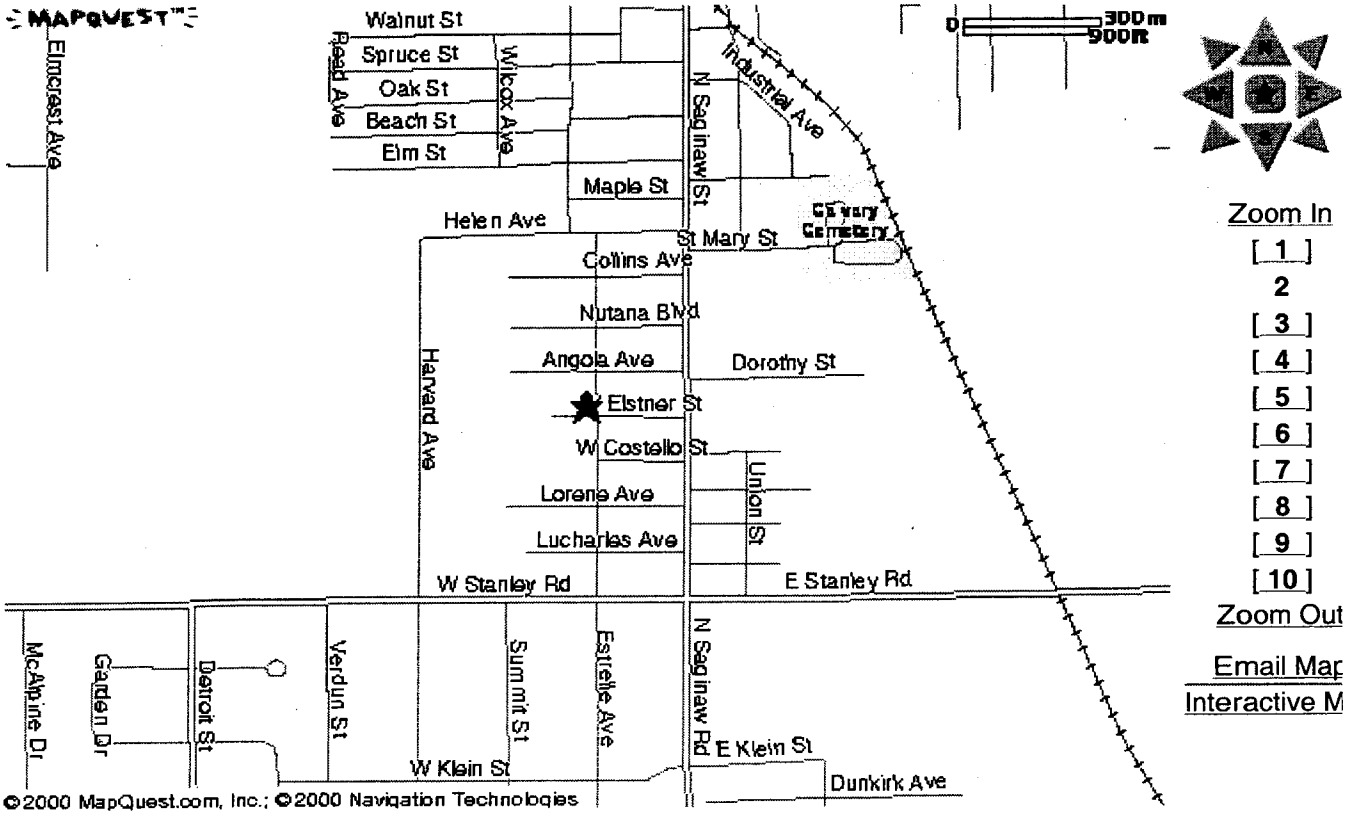
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO. [ ]

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

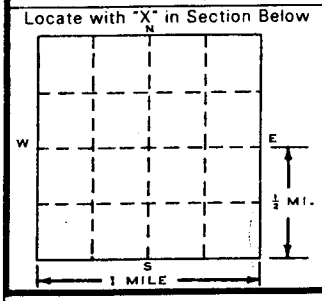
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	1/4 1/4 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection
About 100 ft. N. of ELSTNER
About 125 ft. W. of ESTRELLE

Street Address & City of Well Location At 7158

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 97
JERRY PILLOW
Address 7158 ESTRELLE
MT. MORRIS Mich
Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 240 FT. Date Completed MO 8 DAY 19 YEAR 87 [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ]

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [X] Welded
5 in. to 154 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 151 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
~~Drive Shoe~~ [X] Yes [ ] No
TAPE

8 SCREEN: [ ] Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 93 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
160 ft. after _____ hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [ ] Yes From top to 151 ft.
[ ] Neat cement [X] Bentonite [X] Other Clay Slurry
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type SANITARY Distance 10T ft. Direction N
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name Goulds
Model number 10EJ10412 HP 1 Volts 230
Length of Drop Pipe 160 ft. capacity 20 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name ~~Hydro~~ A-O Smith
Model number V-200 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	7	7
Yellow Clay	5	12
Blue Clay	91	103
GRAVEL	8	111
Blue Clay	20	131
Black SHALE	18	149
GRAY SHALE	19	168
GREEN SANDSTONE	42	210
BROWN SHALE	15	225
WHITE SANDSTONE	15	240

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USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Operator's Name: 1)949

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address GENESEE, Mi
Signed Doug Perio AUTHORIZED REPRESENTATIVE Date 8-20-87

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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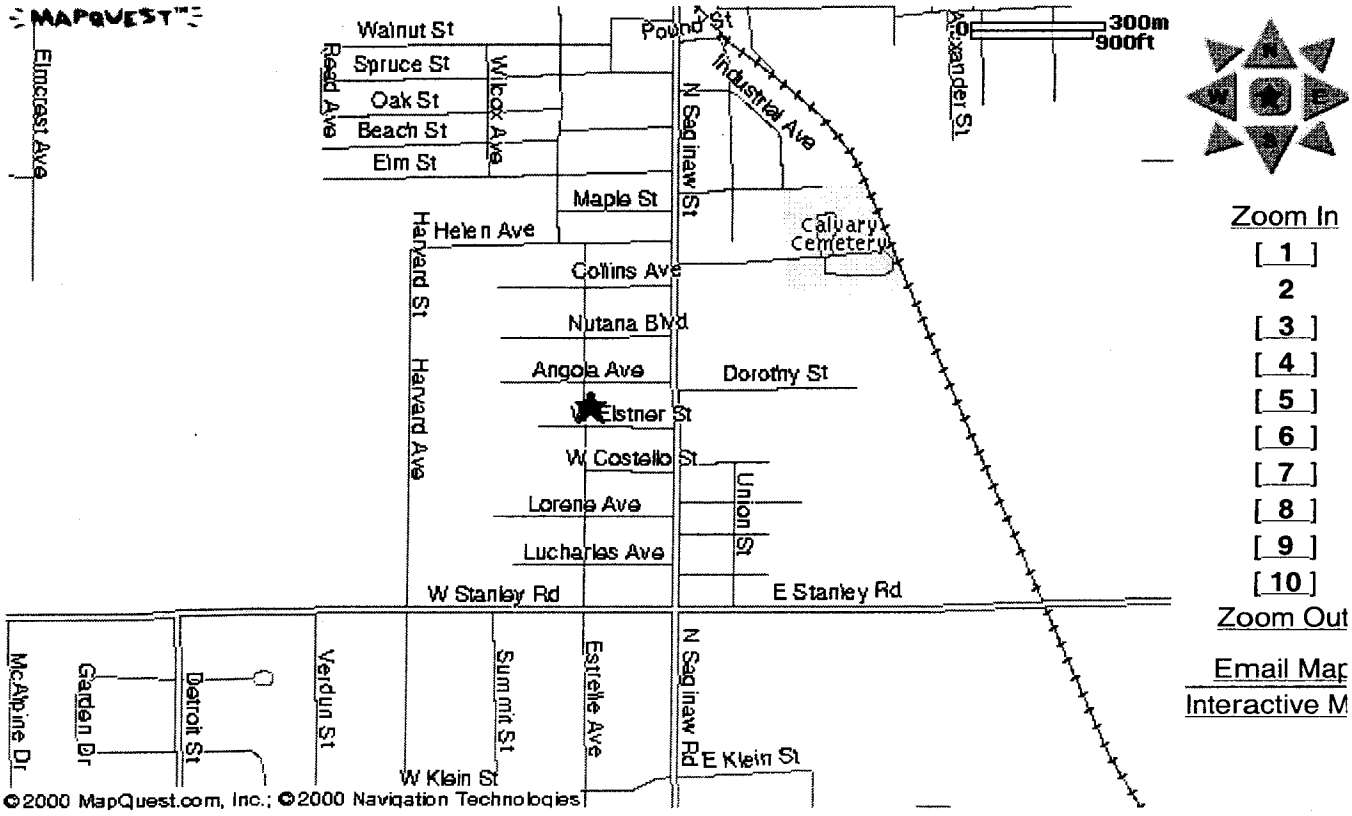
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO: 01701

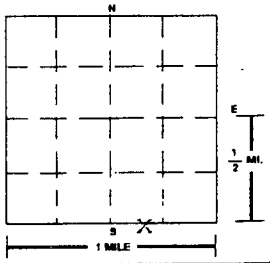
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT. MORRIS	SE 1/4 SW 1/4 SE 1/4	24	T.8N	R.6E

Distance and Direction from Road Intersection

Street Address & City of Well Location: 7041 HARVARD ST.

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL
Address: JULIE CLONTZ
7041 HARVARD ST
MT. MORRIS MI 48458

Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 217 ft. Date Completed: 08-21-99
[ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ] _____

6. USE: [X] Household [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat Pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7. CASING: [ ] Steel [ ] Threaded [ ] Plastic [ ] Welded [ ] Other _____
Diameter: 5 in. to 120 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: _____ in. to _____ ft. depth
7 7/8 _____ in. to 115 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
[ ] Drive Shoe [ ] Shale Packer
Liner 35 Ft

8. SCREEN: [ ] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
78 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
120 ft. After 1 hrs. Pumping at 20 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade
[X] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 118 to 0 ft.
[ ] Neat Cement [X] Bentonite [ ] Other _____
No. of Bags 4 Additives Crumbles

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 20 ft. Direction N
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name Aermotor
Model Number T-12-75 HP 3/4 Volts 220
Length of Drop Pipe 140 ft. Capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other _____
PRESSURE TANK:
Manufacturer's Name Well X-Trol
Model Number WX203 Capacity 14 Gallons 10

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	30	42
Sand & Gravel	20	62
Blue Clay & Stones	53	115
Shale	30	145
Limestone	12	157
Sandstone	60	217

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? [ ] Yes [ ] No
Casing Diameter _____ in. Depth _____ ft. Under Deck
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry
[ ] Cement/Bentonite Slurry [ ] Concrete Grout [ ] Bentonite Chips
No. of Bags _____ Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name _____

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 1152 E. Paul St

Signed Robert E. Koski (AUTHORIZED REPRESENTATIVE) Date 8-21-99

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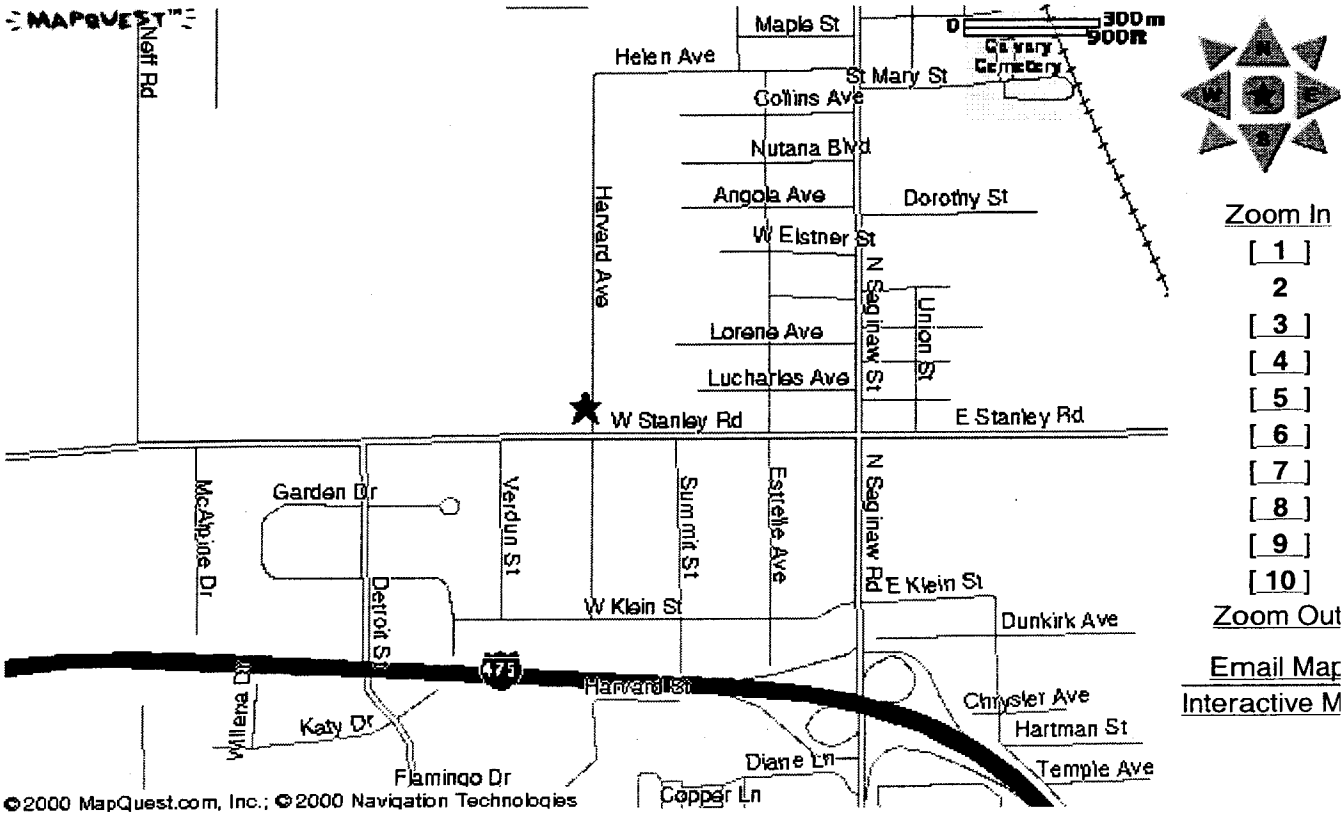
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

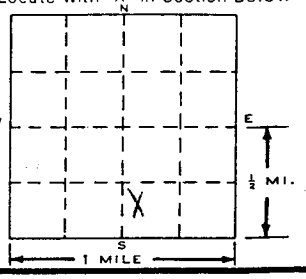
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NW 1/4 SW 1/4 SE 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

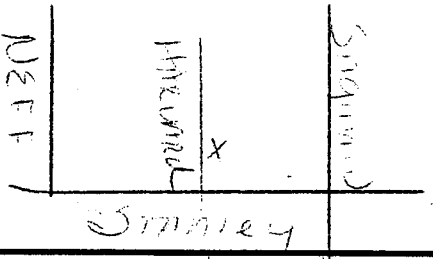
Neff and Saginaw St. 99
Stanley Rd. E. Side

Street Address & City of Well Location 7060 Harvard St.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Randy Stevens
~~6701~~ N. Saginaw St.
Mt. Morris, MI. 48458

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH

190 FT.

Date Completed: MO. 10 DAY 22 YEAR 92

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 125 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 125 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
SDR21
Drive Shoe ☐ Yes ☐ No
Shale Boot

8 SCREEN

☒ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

80 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

180 ft. after 2 hrs. pumping at 50 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 125 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance 50+ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Meyers
Model number 2P152-12 HP 1/2 Volts 230
Length of Drop Pipe 100 ft. capacity 12 G.P.M.
TYPE: ☒ Submersible ☐ Jet
PRESSURE TANK:
Manufacturer's name Challenger
Model number 202 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	30	30
Sand	20	50
Clay	48	98
Black Shale	50	148
Limestone	12	160
Gray Sandstone	26	186
Limestone	4	190
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0

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15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling Inc. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

5810 N. Dort Hwy Mt. Morris, MI 48458
Address

Signed Gary D Price Date 11/16/92
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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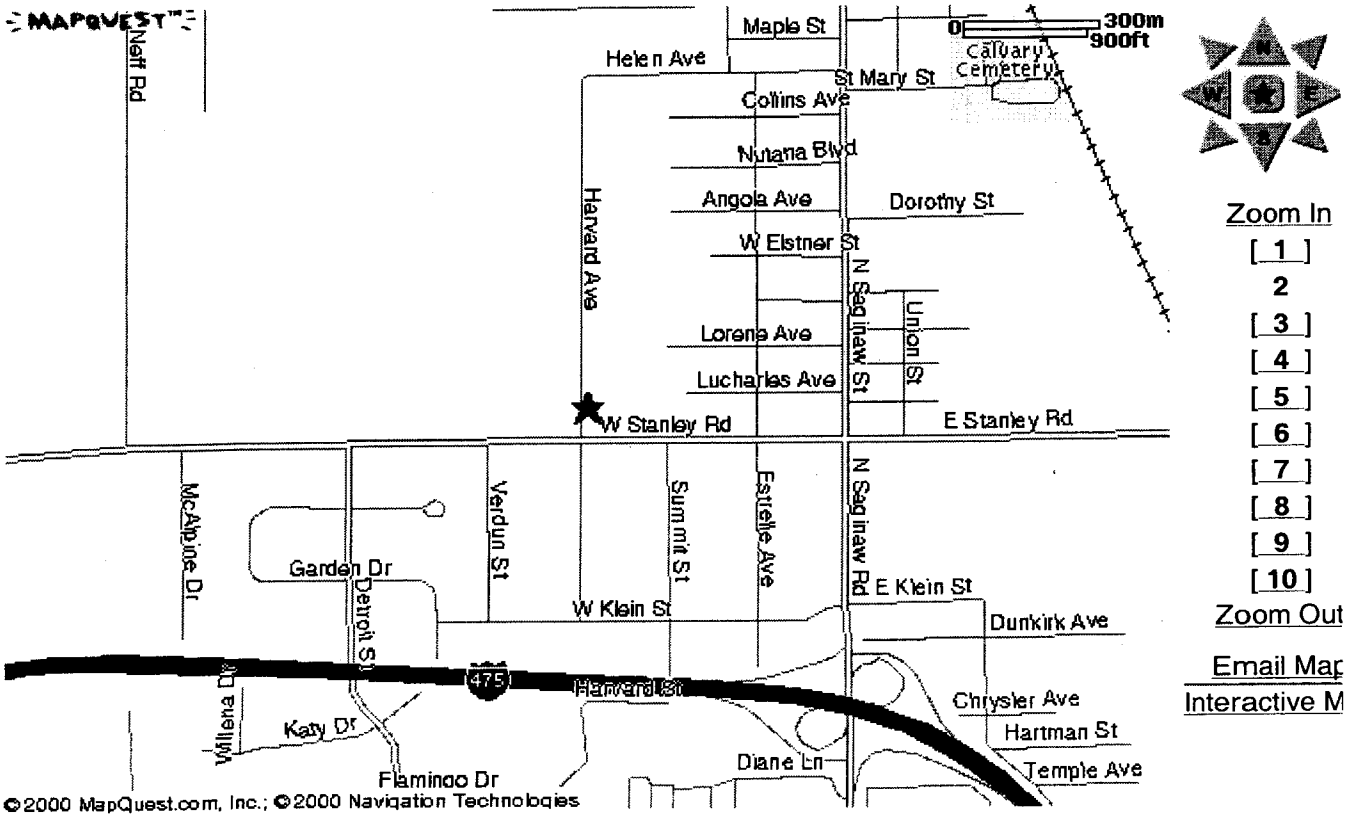
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt. Morris	SW ¼ NW ¼ SW ¼ SE ¼	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections

OWNER No.

Street address & City of Well Location: 7061 Harvard St. 100 Mt. Morris, Mich.

3 OWNER OF WELL:

Address: Michelon Bldrs. 5496 N. Saginaw Flint, Michigan

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	25	25
Sand	12	37
Clay	33	70
Clay & Gravel	30	100
Shale	55	155
Sand Stone	5	160
Shale	30	190
Lime Stone	15	205
Sand Stone	35	240

4 WELL DEPTH: (completed) 240 ft. **Date of Completion** Dec. 28, 1966

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Threaded ☒ Welded ☐

Diam. 2 in. to 157 ft. Depth

___ in. to ___ ft. Depth

Height: Above/Below surface 1 ft.

Weight 3.75 lbs/ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL

55 ft. below land surface

10 PUMPING LEVEL below land surface

73 ft. after 1 hrs. pumping 10 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☒ No

Material: ☐ Neat Cement ☐ ___

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

51 feet SW Direction Septic Type

Well disinfected upon completion ☐ Yes ☒ No

15 PUMP:

Manufacturer's Name Rapidayton

Model Number 10TA-H2S HP 1

Length of Drop Pipe 94 ft. capacity 7½ G.P.M.

Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

CORRECTED BY: RTS 3/29/67

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Taylor Well Drilling — REGISTERED BUSINESS NAME — 0038 — REGISTRATION NO.

Address 3230 W. Dodge Rd. Clio, Mich.

Signed T J Taylor — AUTHORIZED REPRESENTATIVE — Date Feb. 28, '67

D67D 100M 6-66

MAR 23 1967

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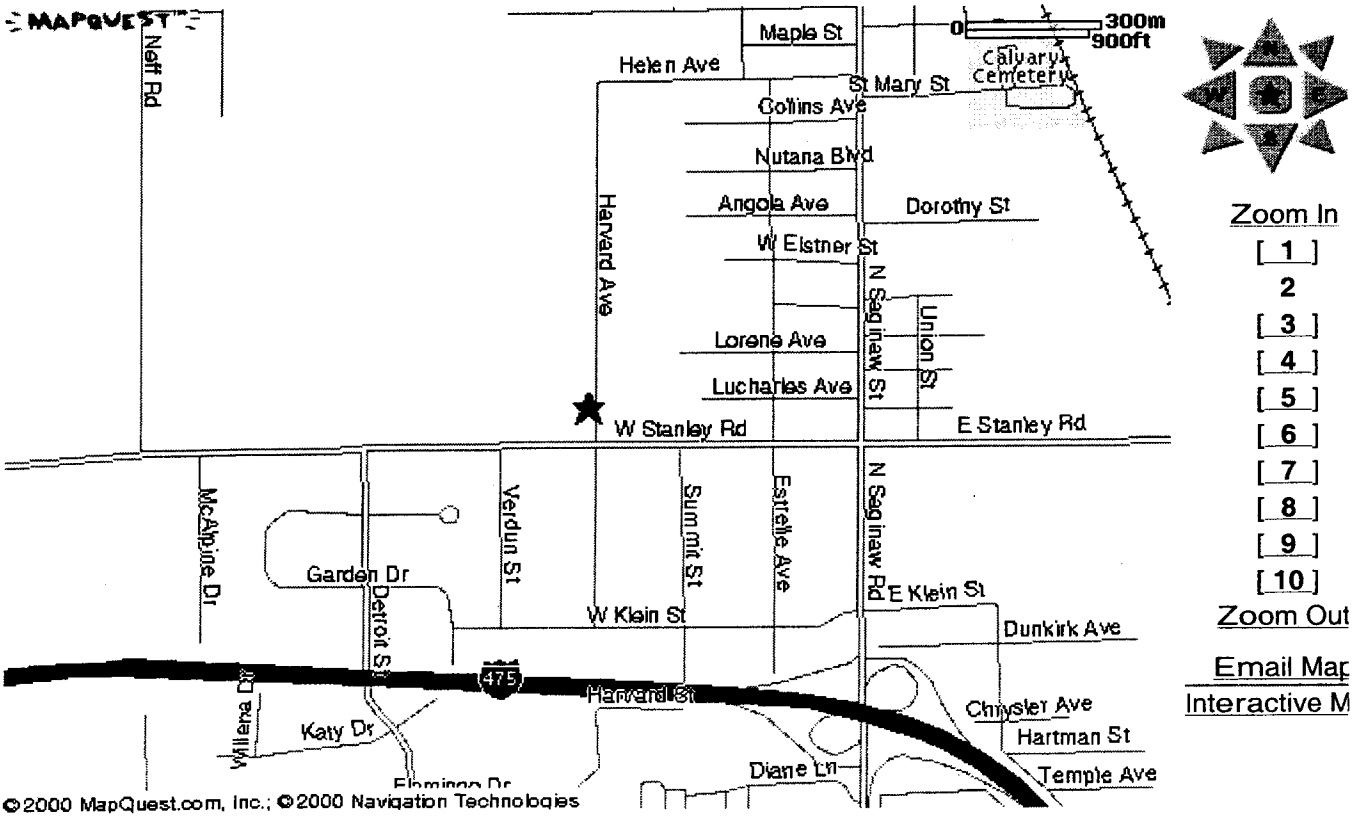
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

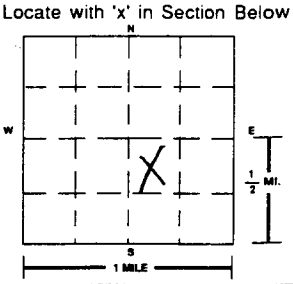
1. LOCATION OF WELL

County	Township Name	Fraction 1/4 NW 1/4 SE 1/4	Section No.	Town No.	Range No.
GENESEE	MT MORRIS		12	8 N	6 E

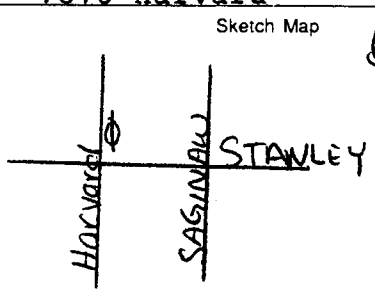
Distance and Direction from Road Intersection
North of Stanley Rd & West of Saginaw Rd

Street Address & City of Well Location 7078 Harvard

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address Tom Elliot
7078 Harvard
Mt Morris MI
101

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 245 ft. | Date Completed 7 / 7 / 95 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 143 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 143 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	108	108
shales	34	142
sandstone, slate	103	245

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
78 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
245 ft. After _____ hrs. Pumping at 25-30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 143 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 50+ ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 110 ft. Capacity _____ G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 Lewis Rd Clio
Signed Brad Taylor Date 7 17 95
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

GEOLOGICAL SURVEY COPY

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

RECEIVED DEPT OF PUBLIC HEALTH AUG 11 95 ENVIRONMENTAL HEALTH SOUTHEAST DIST.

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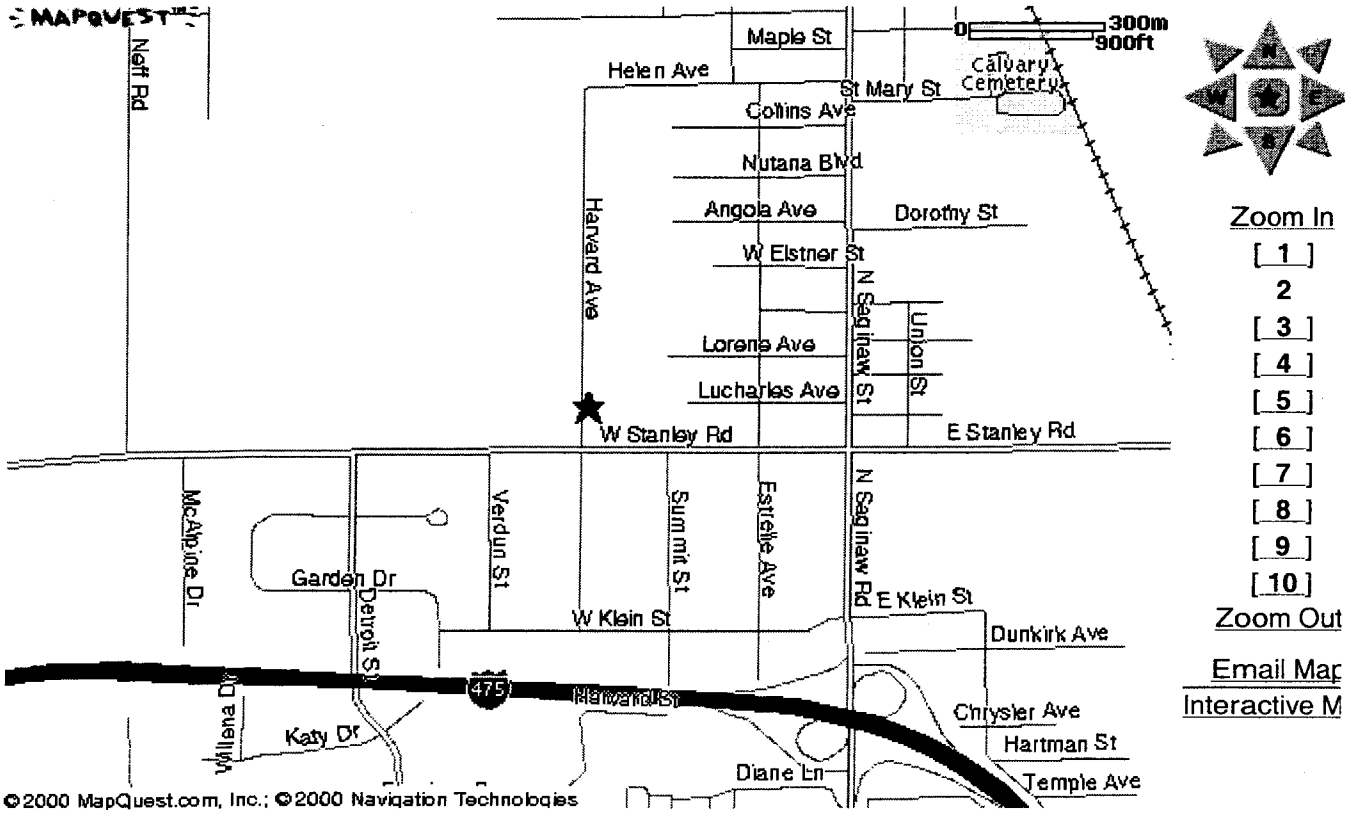
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GEOLOGICAL SURVEY SAMPLE No. [ ]

JUL 10 1980

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

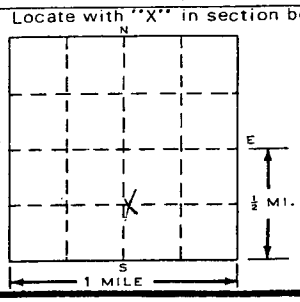
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ SE¼	12	8 N/S	6 E/W

Distance And Direction from Road Intersections

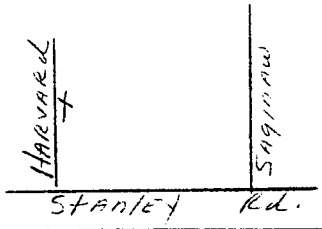
¼ mile N of Stanley Rd. E side

Street address & City of Well Location 7070 Harvard

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Address: William Babauef
7070 Harvard
Mt. Morris, MI

102

4 WELL DEPTH: (completed) Date of Completion

222 ft. March 10, 1980

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐ Diam.
2 in. to 189 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 3.65 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	45'	45'
Blue Clay	45'	90'
Gravel	10'	100'
Black Shale	65'	165'
ray Sandstone	40'	205'
Limestone	10'	215'
Gray Sandstone	7'	222'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
75 ft. below land surface

10 PUMPING LEVEL below land surface
220 ft. after 3 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 189 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Goulds
Model Number VS10 HP 1 Volts 230
Length of Drop Pipe 105 ft. capacity 7 G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Kenneth W. Lyons Date March 14, 1980
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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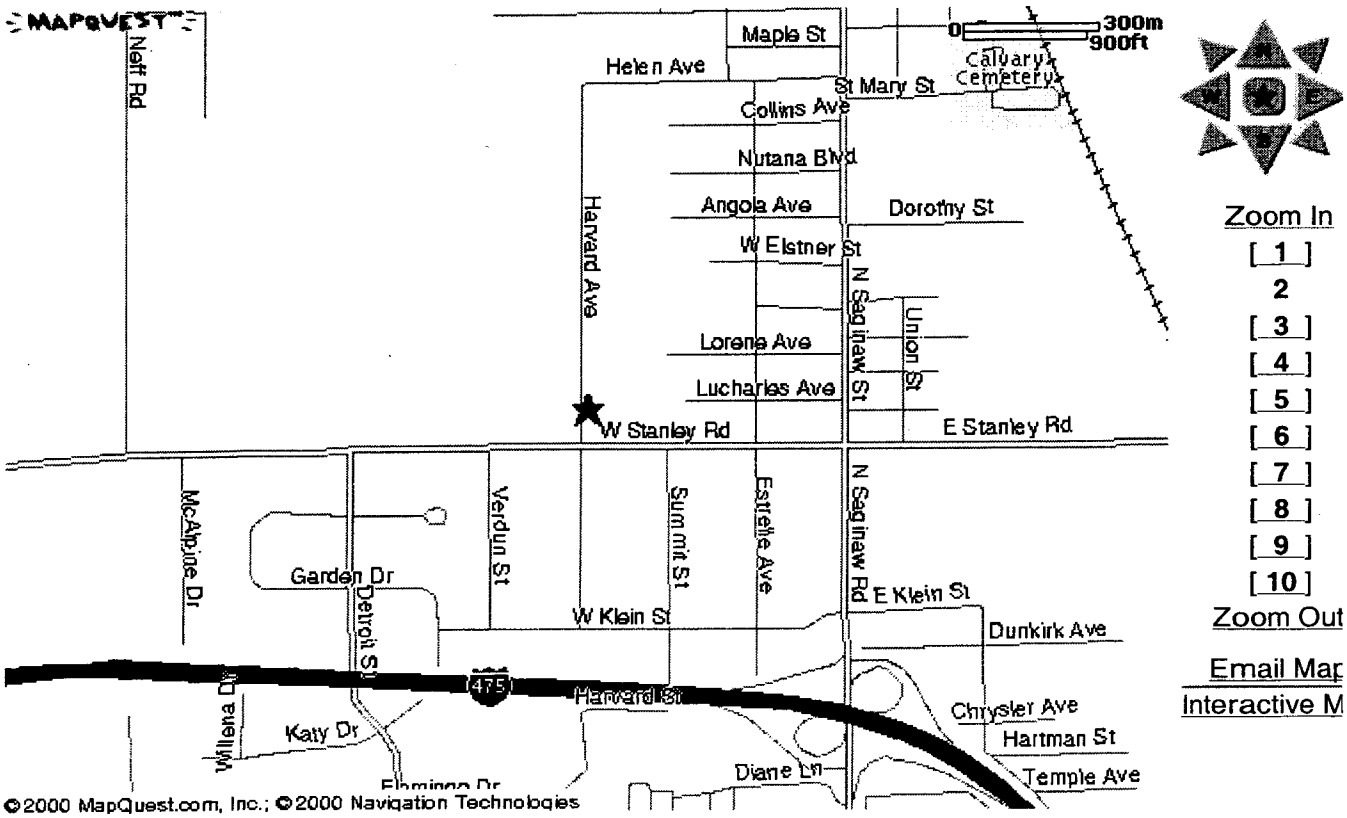
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

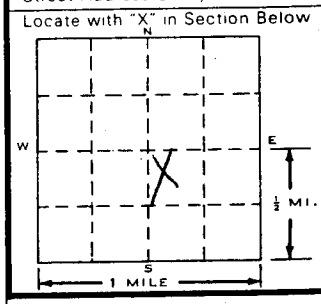
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT MORRIS	¼ NW ¼ SE ¼	12	8 N/S	6 E/W

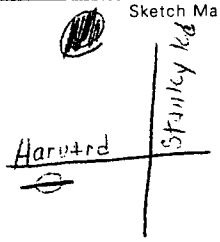
Distance And Direction From Road Intersection: North of Stanley Rd on West.

Street Address & City of Well Location: SAME

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Address: Jim Smith
7093 N Harvard St
Mt Morris Mi

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

244 FT. | Date Completed MO. 8 DAY 6 YEAR 93 | [ ] New Well [X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 149 ft. depth
in. to ft. depth

Grouted Drill Hole Diameter
9 in. to 149 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight lbs./ft.
Drive Shoe [ ] Yes [ ] No
Boot

8 SCREEN:

[ ] Not Installed
Type NA Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL:

75 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

244 ft. after hrs. pumping at 30+ G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 0 to 149 ft.
[ ] Neat cement [X] Bentonite [ ] Other
No. of bags of cement Additives

13 Nearest source of possible contamination

Type Distance ft. Direction
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name McDonald
Model number K2 HP 3/4 Volts
Length of Drop Pipe 120 ft. capacity G.P.M.
TYPE: [X] Submersible [ ] Jet
PRESSURE TANK:
Manufacturer's name Well X-trol
Model number 203 Capacity Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay and stones	111	111
dirty shale & sandstone	10	121
shales	24	145
slate	39	184
idstone & limestone	60	224

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING — REGISTERED BUSINESS NAME
2082 — REGISTRATION NO.
Address 11103 Lewis Rd Clio
Signed Brad Taylor — AUTHORIZED REPRESENTATIVE
Date 8 18 93

17. Rig Operator's Name: Brad Taylor

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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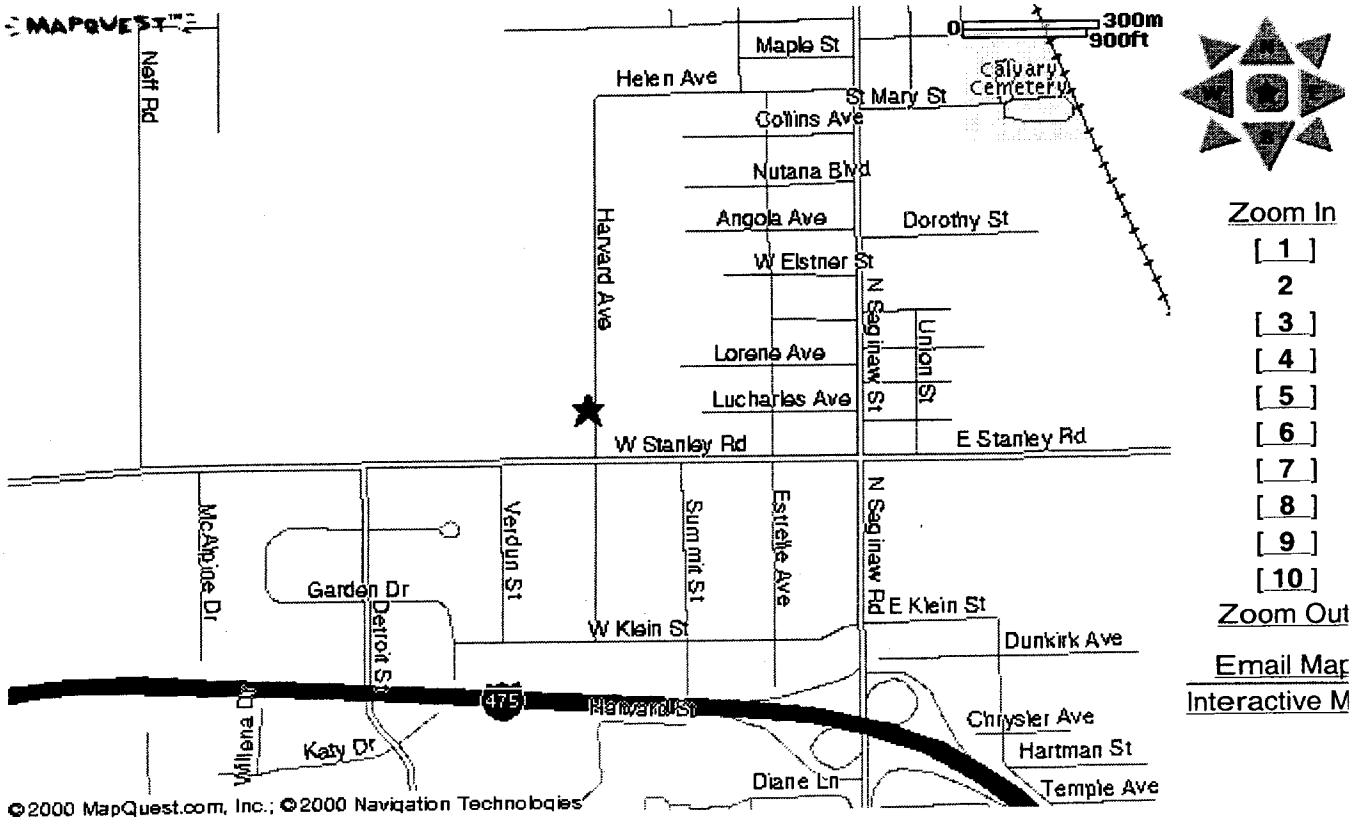
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

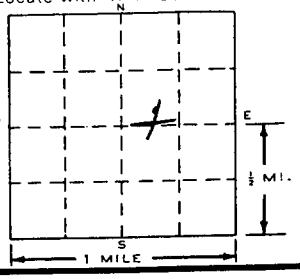
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	1/4 1/4 1/4	12	8 (N)S	6 (E)W

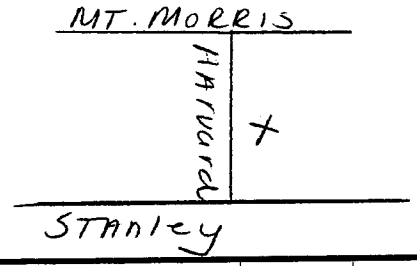
Distance And Direction From Road Intersection
1/4 mi. N. of Stanley Rd. Between Stanley & Mt. Morris Rd. E. Side 104

Street Address & City of Well Location 7094 Harvard St. Mt. Morris

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

Terry Decker
Address 5151 Dania
Flint, MI. 48504

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed)

200 ft.

Date of Completion: August 5, 1985

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded
5 in. to 145 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 145 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Sdr 21
Drive Shoe ☐ Yes ☐ No
Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	13'	13'
Sand & Gravel	56'	69'
Clay	19'	88'
Clay & Gravel Mixed	4'	92'
Black Shale	34'	126'
Hard Black Shale	7'	134'
Brown Sandstone	21'	155'
Gray Sandstone	40'	195'
Limestone	5'	200'

8 SCREEN

☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

80 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

175 ft. after 2 hrs. pumping at 42 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 145 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Tait
Model number 5DL25S HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 5 G.P.M.
TYPE ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name X-Trol
Model number 202 Capacity 20 Gallons

RECEIVED
Mich. Dept. of Public Health
NOV 26 1985
Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort. Hwy. Mt. Morris, MI.
Signed _____ Date Aug. 8, 1985
AUTHORIZED REPRESENTATIVE

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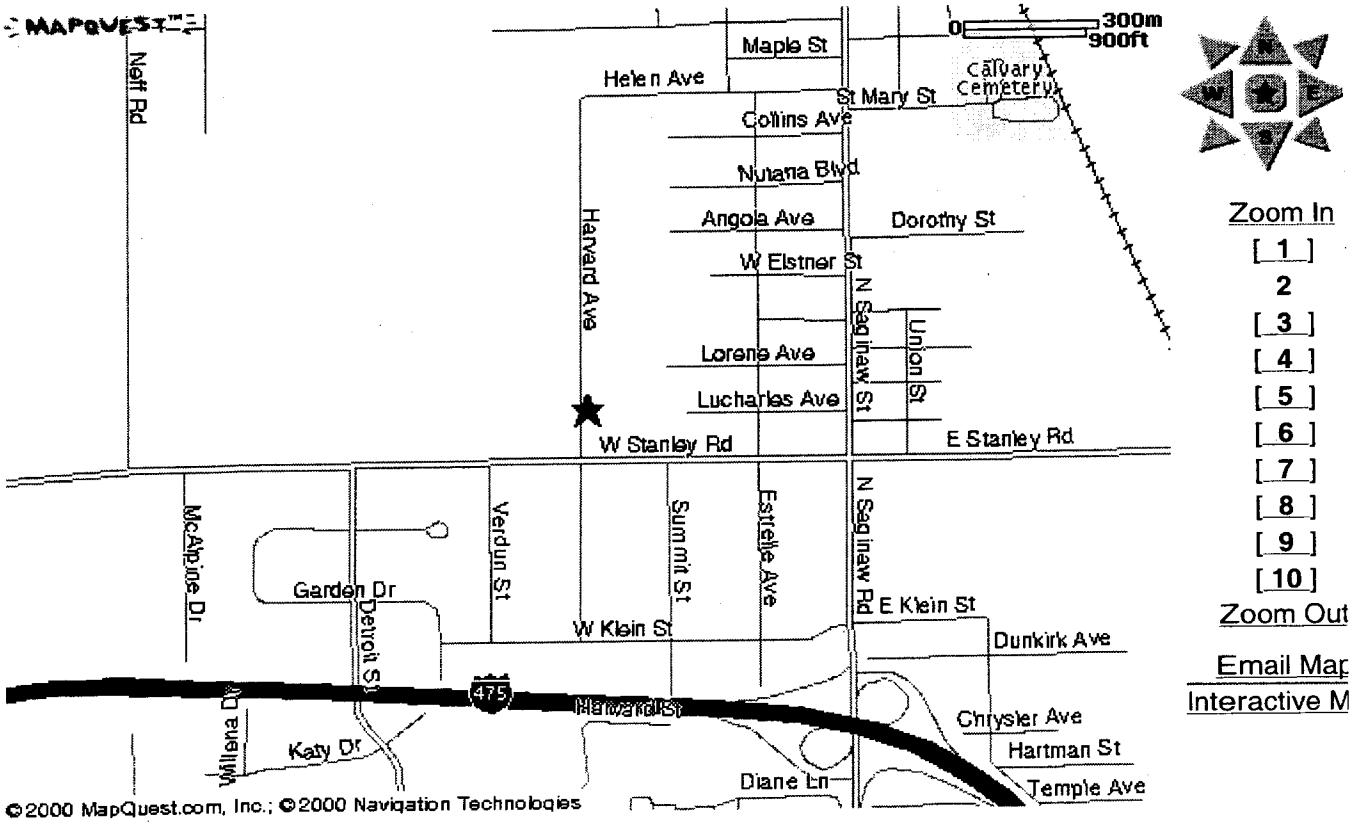
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3 DEC 14 1977

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

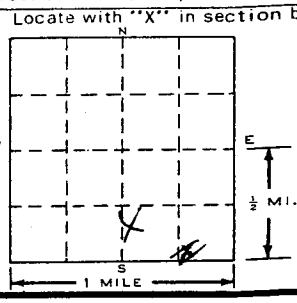
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	~~SE 1/4 SE~~ NW SW SE 1/4	12	8 (N/S.)	6 (E/W.)

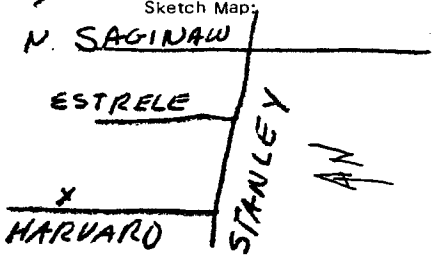
Distance And Direction from Road Intersections: N. Saginaw and Stanley Rd. Turn West 2 Blks. to Harvard St - Turn North

Street address & City of Well Location: 1/8 mi

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Bruce Ferguson

Address 7098 Harvard St 105

Mt Morris, Mich

4 WELL DEPTH: (completed) Date of Completion

96 ft. 11-21-77

5

☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug

☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry

☐ Irrigation ☐ Air Conditioning ☐ Commercial

☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

Diam. 2 in. to 89 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft.

Weight 3.73 lbs./ft.

Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clayish Topsoil	0-7	7
Sand (course)	38	45
Gray Clay	18	63
Gravel (small)	4	67
Fine Sand		
Little water ~~Fine~~		
Clay, Gray	16	83
Fine sand w/ small	5	88
Gravel	8	96
Medium Gravel	↑	
water sand (fine)		
but pumped clear.		
		96'

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: Clayton Mark Dia.: 1 1/4"

Slot/Gauze 80 Length 6'

Set between 90 ft. and 96 ft.

Fittings: 3' 1 1/4 Hole tail pipe - 3 1/4 Hole couplings Breamer check

9 STATIC WATER LEVEL

21 ft. below land surface

10 PUMPING LEVEL below land surface

63 ft. after 2 hrs. pumping 6 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit

☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted?

☐ Yes ☒ No

☐ Neat Cement ☐ Bentonite ☐ ____

Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

60 feet West Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☒ Not installed

Manufacturer's Name ____

Model Number ____ HP ____ Volts ____

Length of Drop Pipe ____ ft. capacity ____ G.P.M.

Type: ☐ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

M&B

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Wards 2nd Well Repair #1662

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 3140 W Sherman Ave.

Signed Richard Ward Date 11-21-77

AUTHORIZED REPRESENTATIVE

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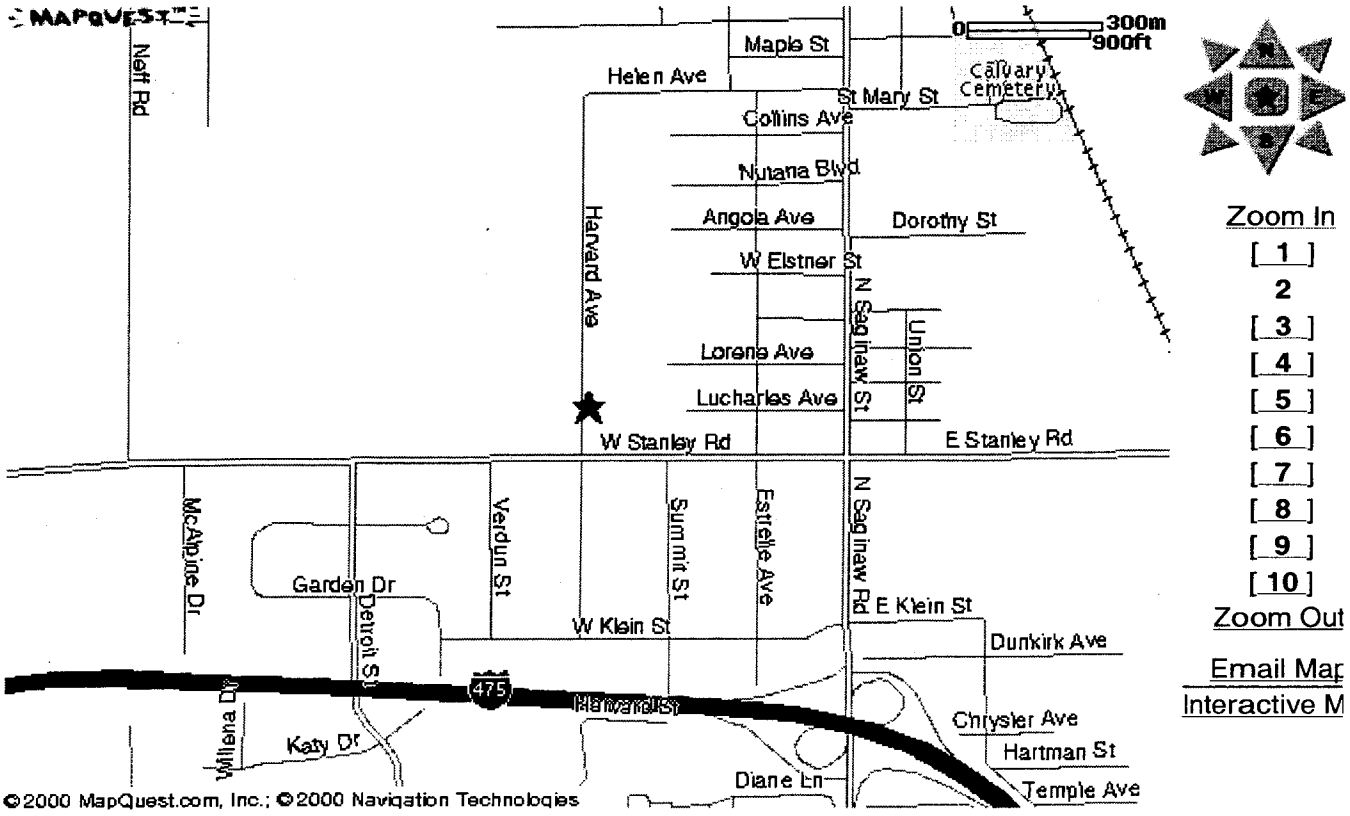
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

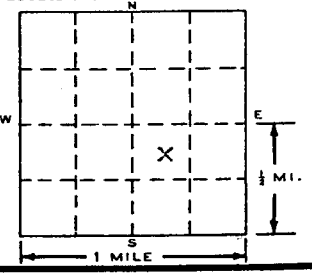
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NW ¼NW ¼SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 106

Kevin Hawley

Address 7128 Harvard St

Mt. Morris, Mi 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: 236 FT. Date Completed MO. 01 DAY 06 YEAR 90 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 140 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	30	42
Sand & Gravel	15	57
Blue Clay	57	114
[illegible]e Clay & Stones	15	119
Shale	30	149
Limestone	30	179
Sandstone & Limestone	57	236

USE A 2ND SHEET IF NEEDED

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 82 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

140 ft. after 1 hrs. pumping at 25 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☒ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 136 to 0 ft.

☐ Neat cement ☒ Bentonite ☒ Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name F&W

Model number _____ HP 1 Volts 220

Length of Drop Pipe 150 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX 203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling, Inc 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 3-8-90

AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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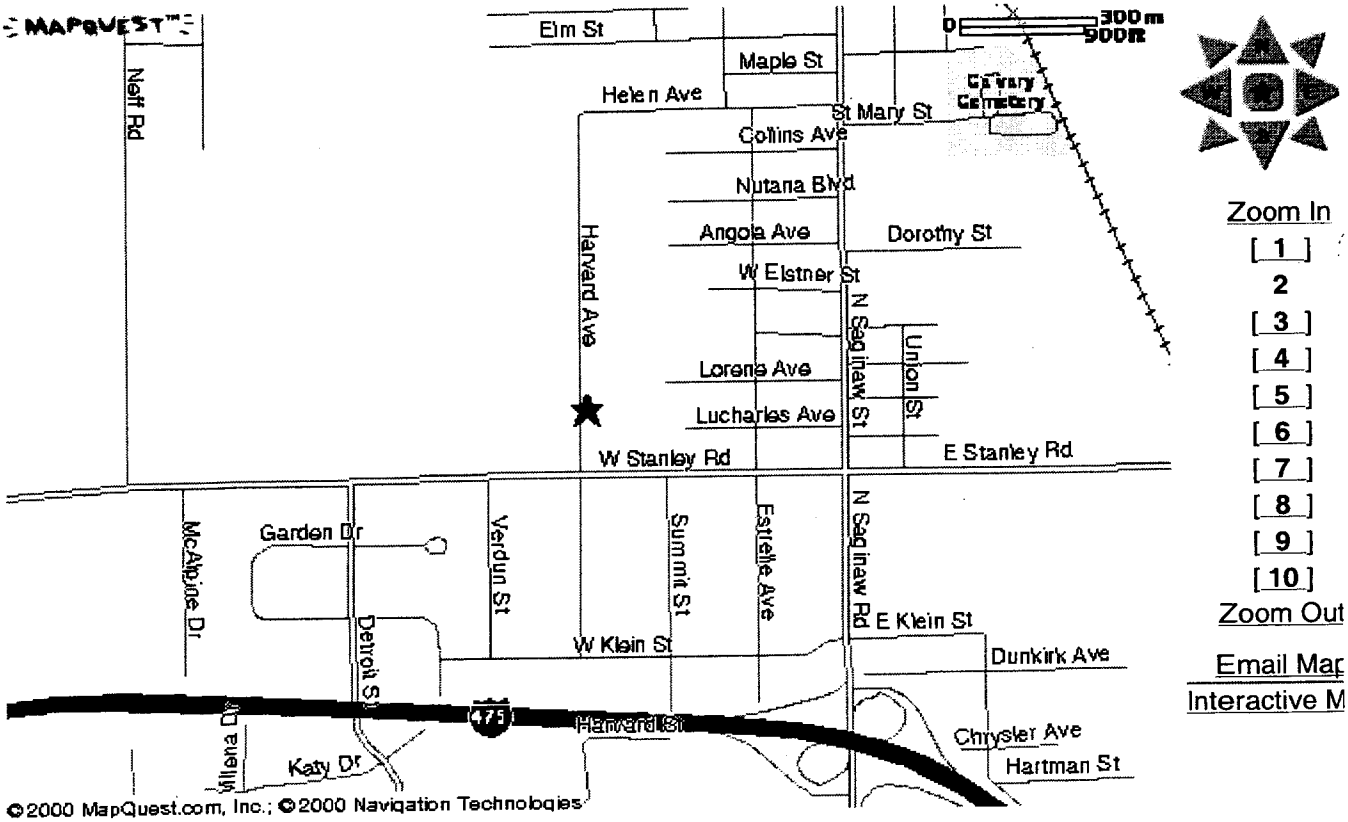
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

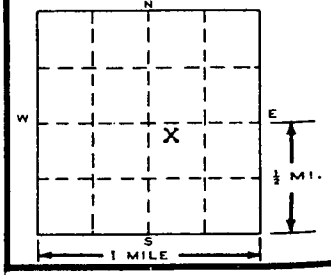
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NW ¼ NW ¼ SE ¼	12	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: Ed Weiderman

Address: 7164 Harvard St 107, Mt. Morris, Mi

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed) 235 ft. — Date of Completion 5-14-86

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 140 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Blue Clay	60	70
Sand	20	90
Blue Clay	30	120
Blue Clay & Stone	17	137
Shale	30	167
Sandstone	15	182
Limestone	12	204
Sandstone	31	235

8 SCREEN: [ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

155 ft. after 2 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 140 to 25 ft.

[ ] Neat cement [X] Bentonite [X] Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Flint & Walling

Model number _____ HP 1 Volts 220

Length of Drop Pipe 180 ft. capacity 15 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX 203 Capacity 60 Gallons

RECEIVED
Mich. Dept. of Public Health
AUG 19 1986
Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul St Mt. Morris, Mi

Signed Robert J Dekoski Date 8-15-86

AUTHORIZED REPRESENTATIVE

D67d 2/84

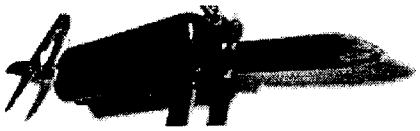
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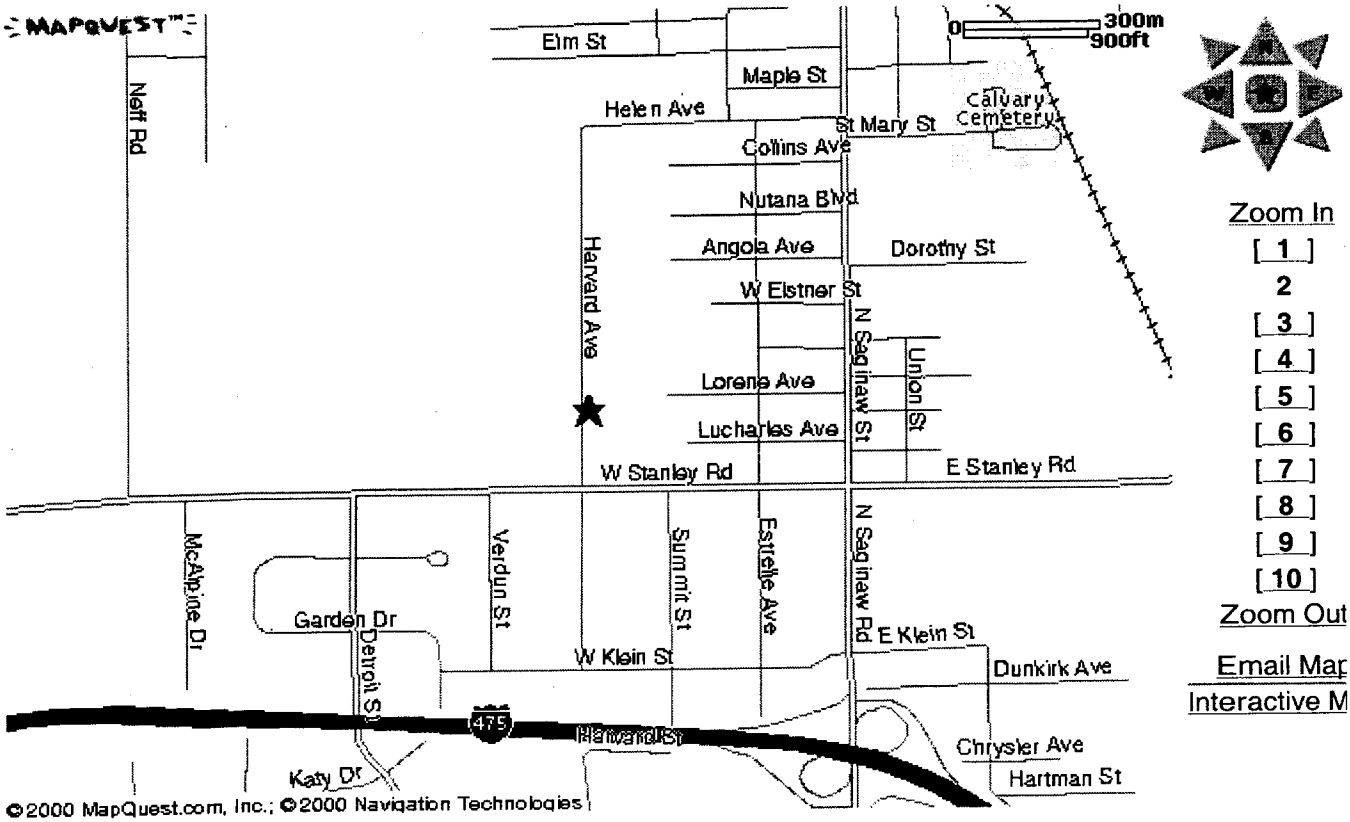
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

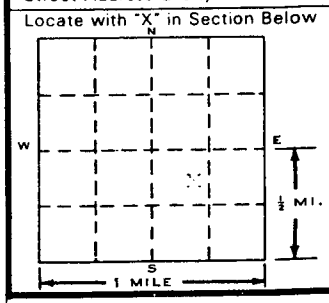
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	SE ¼ NW ¼ SE ¼	12	5 N/S	5 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 108

Name: Sam Nichols

Address: 6-7177 Harvard St
Mt Morris, MI 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 240 ft. | **Date of Completion** 3-9-89

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 130 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	28	40
Sand & Gravel	20	60
Blue Clay	40	100
Blue Clay & Stones	20	120
Shale	40	160
Sandstone	12	172
Limestone	30	202
Sandstone	38	240

USE A 2ND SHEET IF NEEDED

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
30 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
130 ft. after 1 hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade
☒ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 127 to 6 ft
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name F&W
Model number _____ HP 3/4 Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well-Rite
Model number 203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Detoski Well Drilling, Inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert C. Detoski Date 10-15-89
AUTHORIZED REPRESENTATIVE

D67d 2/84

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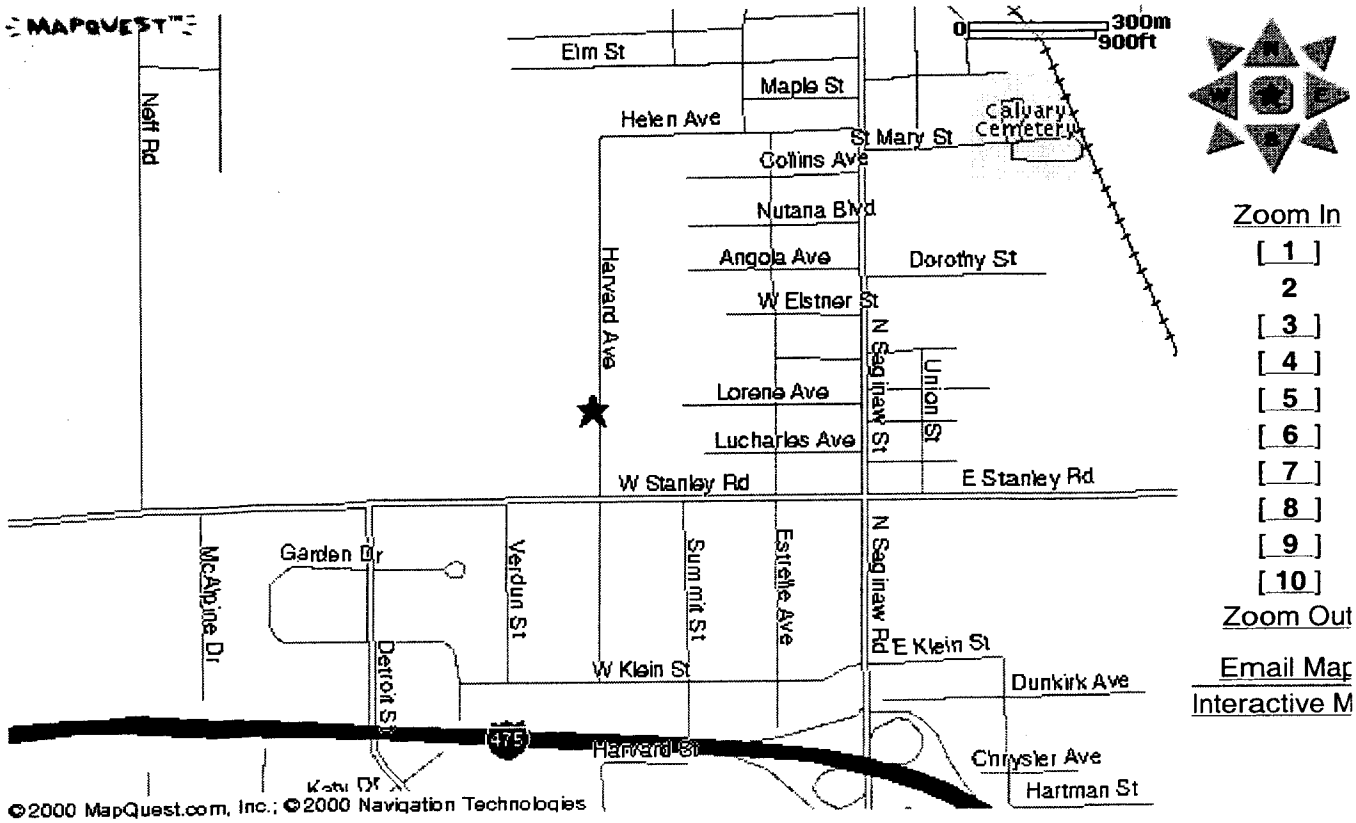
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

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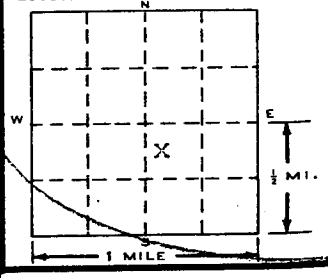
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NW ¼ NW ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 109

Cecilia Babauef
Address 7187 Harvard St
Mt. Morris, MI 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: 240 FT. Date Completed MO. 08 DAY 08 YEAR 90 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 134 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
155 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From ~~131~~ to ~~10~~ ft.
☐ Neat cement ☒ Bentonite ☒ Other clays
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Aermotor
Model number _____ HP 3/4 Volts 220
Length of Drop Pipe 160 ft. capacity 12 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well X-Trol
Model number WX 203 Capacity 60 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	30	42
Sand	10	52
Blue Clay	68	120
Shale	80	200
Limestone	15	215
Sandstone	25	240

USE A 2ND SHEET IF NEEDED

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15. Remarks, elevation, source of data, etc.

... Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 1151 E. Paul St
Signed Robert J Dekoski Date 09-18-90
AUTHORIZED REPRESENTATIVE

D67d 12/85

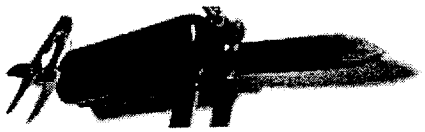
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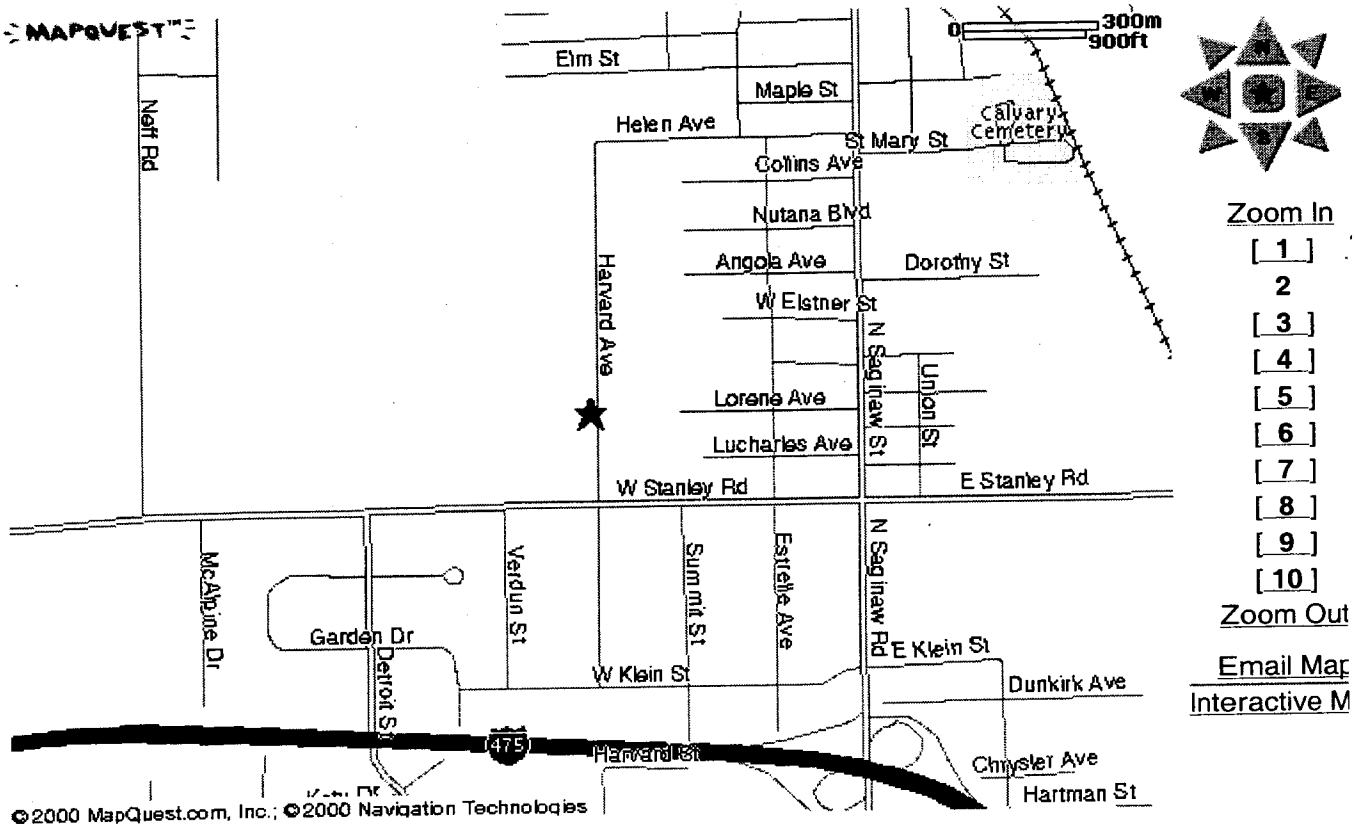
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

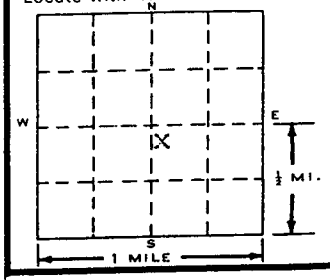
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NW¼ NW¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 10

John Robbins
Address G-7189 Harvard Street
Mt. Morris, Mi

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: 232 FT. Date Completed MO. 8 DAY 5 YEAR 88 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 131 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	18	18
Blue Clay	32	50
Sand	18	68
Blue Clay	50	118
hale	40	158
Sandstone	10	168
Limestone	20	188
Sandstone	44	232

USE A 2ND SHEET IF NEEDED

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 83 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

125 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 128 to 10 ft.

☐ Neat cement ☒ Bentonite ☒ Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only F&W

Manufacturer's name _____

Model number _____ HP ¾ Volts 220

Length of Drop Pipe 140 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

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15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 11-15-88
AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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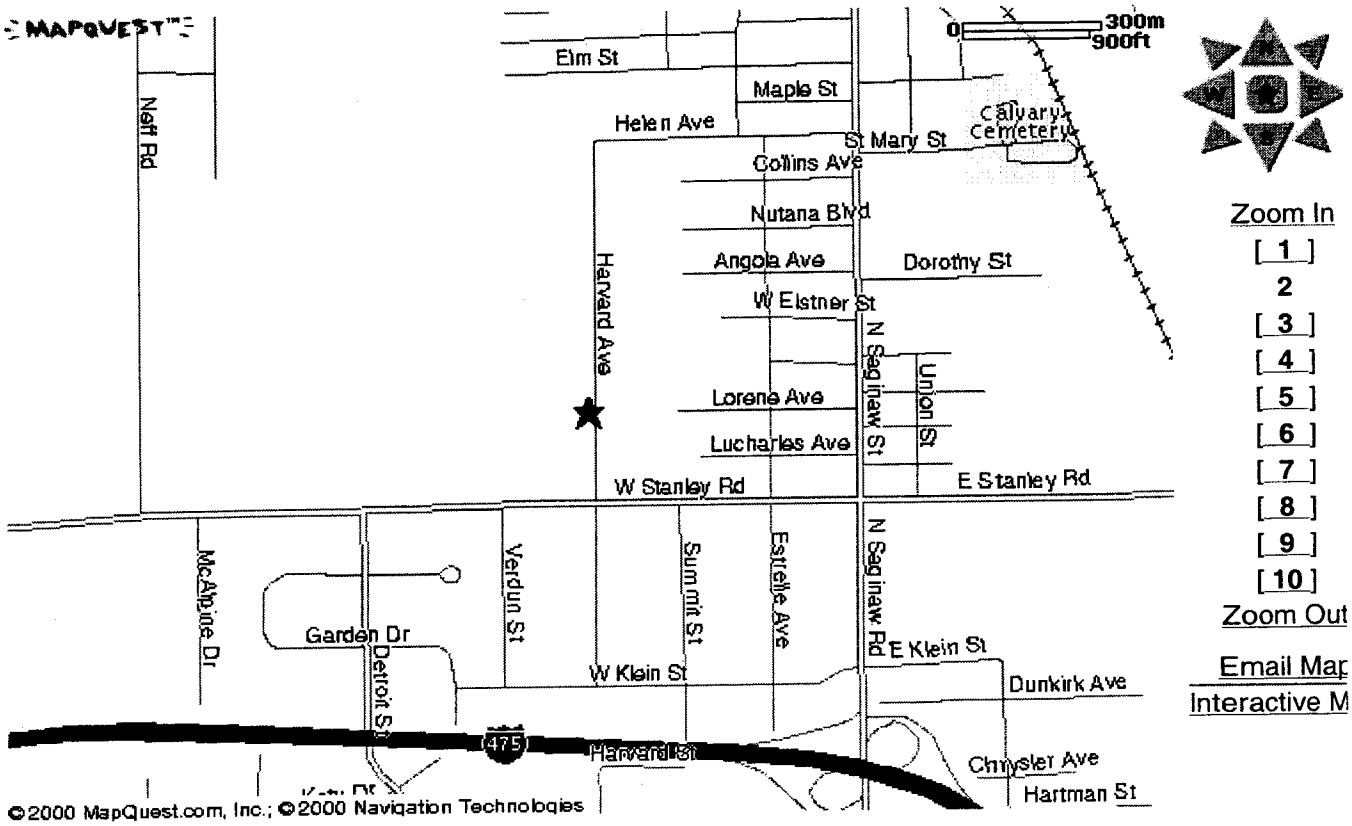
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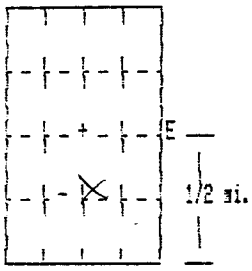
1. LOCATION OF WELL

County	Township Name	Fraction	Section No	Town No	Range Number
GENESEE	MT MORRIS	SW 1/4 NW 1/4 SE 1/4	12	8 N	5 E

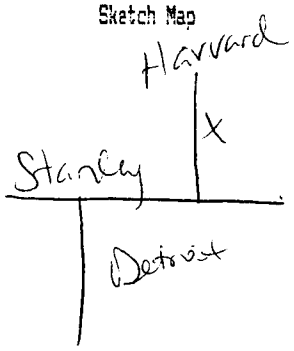
Distance And Direction From Road Intersection
NORTH OF STANLEY ROAD ON THE EAST SIDE OF HARVARD STREET

Well Addr: 7210 HARVARD STREE

Locate with 'X' in Sec. Below



Sketch Map



3. Owner of Well RICK OLDAUGH
Address 3075 OAK DRIVE
HOLLY MI 48442
Address Same as Well Location? NO

4. WELL DEPTH 210 ft. Date Compl 11/17/98 This is a: NEW WELL

5. EQUIPMENT USED: ROTARY

6. WELL USE: HOUSEHOLD

7. CASING Type: PLASTIC Connection: WELDED
Diam. Height ABOVE
5 in. to 150 ft. Surface 1 ft
in. to ft. Weight lb./ft.
BORE HOLE: Drive Shoe NO
8 3/4 in. to 150 ft. Shale Packer NO
in. to ft.

Formation Description	Thickness	Depth
BROWN CLAY	15	15
GRAY CLAY	65	80
SAND	10	90
CLAY	50	140
SHALE	35	175
SANDSTONE	35	210

8. Screen Type: _____ Diam: _____ [X] Not Inst.
_____ Length: _____
Set Between ____ ft. and ____ ft.
Fittings: _____ [_] Blank above scrn: ____ ft

9. Static Level: 40 ft. Flow: [N]

10. Pumping Level below land surface:
210 ft. after 1 hrs. @ 20 GPM
[_] Plunger [_] Bailer [X] Air [_] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 150 to 0 ft Material: BENSEAL
No. of Bags 15 bags Additives: EZ MUD

13. Nearest source of possible contamination:
Type: SANITARY SEWER Distance: 50 ft. Dir: NW
Type: Distance: ft. Dir:

14. Pump: [_] Not Installed [_] Installation Only
Manufacturer's Name: RED JACKET
Model: 50CNICN2BC HP: 0.5 Voltage: 220
Drop pipe: 100\ ft. Capacity: 10 GPM
Pump type: SUBMERSIBLE
Pressure Tank Manufacturer's Name : WELL X-TROL
Model: 203 Capacity: 10 Gal.

15. Abandoned Well Plugged? NO N/A
Casing Diameter in. Depth ft.
Plugging Material:
No. of Bags Casing Removed?

16. Remarks, elevation, source of data, etc.
PUMP - TONY NEWMAN

17. Drilling Machine Operator: [X] Employee [_] Subcontractor
Name DAN CESSL

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Registered Bus. Name ED BIRKMEIER WELL DRILLING LTD 1607
Business Address 19[illegible]ston Road New Lothrop MI 48460

Signed _____ 11/24/98
Authorized Representative Date

GW-8-228 9/93
Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY COPY Mich. Dept. of Public Health Auth. No. 89-12-001

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★ **7210 Harvard Street, Mount Morris, MI 48458-2143**

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DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO: 971

1. LOCATION OF WELL

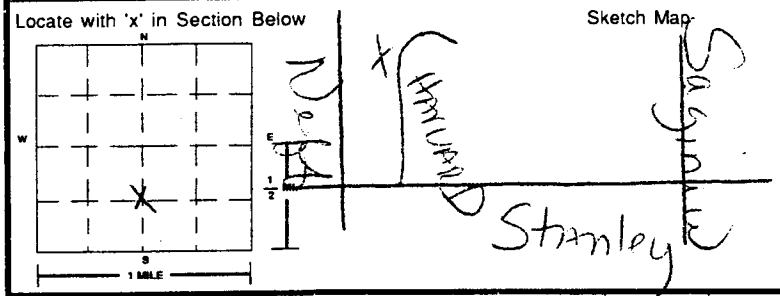
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Mt. Morris	SW 1/4 NW 1/4 SE 1/4	12	8	7

Distance and Direction from Road Intersection

Between: Saginaw and Neff Rd.
OFF: Stanley
7211 Harvard St. (12)

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map

3. OWNER OF WELL

Address: Gardner Excavating
9329 Neff Rd.
Clio, MI 48420

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 220 ft. | Date Completed 10/14/99 | ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 156 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 156 ft. depth
4.5 in. to 220 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs/ft.
☐ Drive Shoe SDR21
☒ Shale Packer
SHALE ROCK

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sandy Clay	35	35
Clay	80	115
Sandstone	5	120
Shale	29	149
Sandstone	46	195
Limestone	10	205
Sandstone	15	220

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. ☐ Other _____

9. STATIC WATER LEVEL:
95 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 2 hrs. Pumping at 40 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 156 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Sewer Distance 10+ ft. Direction N

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50F211-12 HP .5 Volts 220
Length of Drop Pipe 120 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 66 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

JAN 2000

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name PERCY BUCK

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 9107 N Dort Hwy Mt Morris MI. 48458

Signed _____ (AUTHORIZED REPRESENTATIVE) Date 11/09/1999

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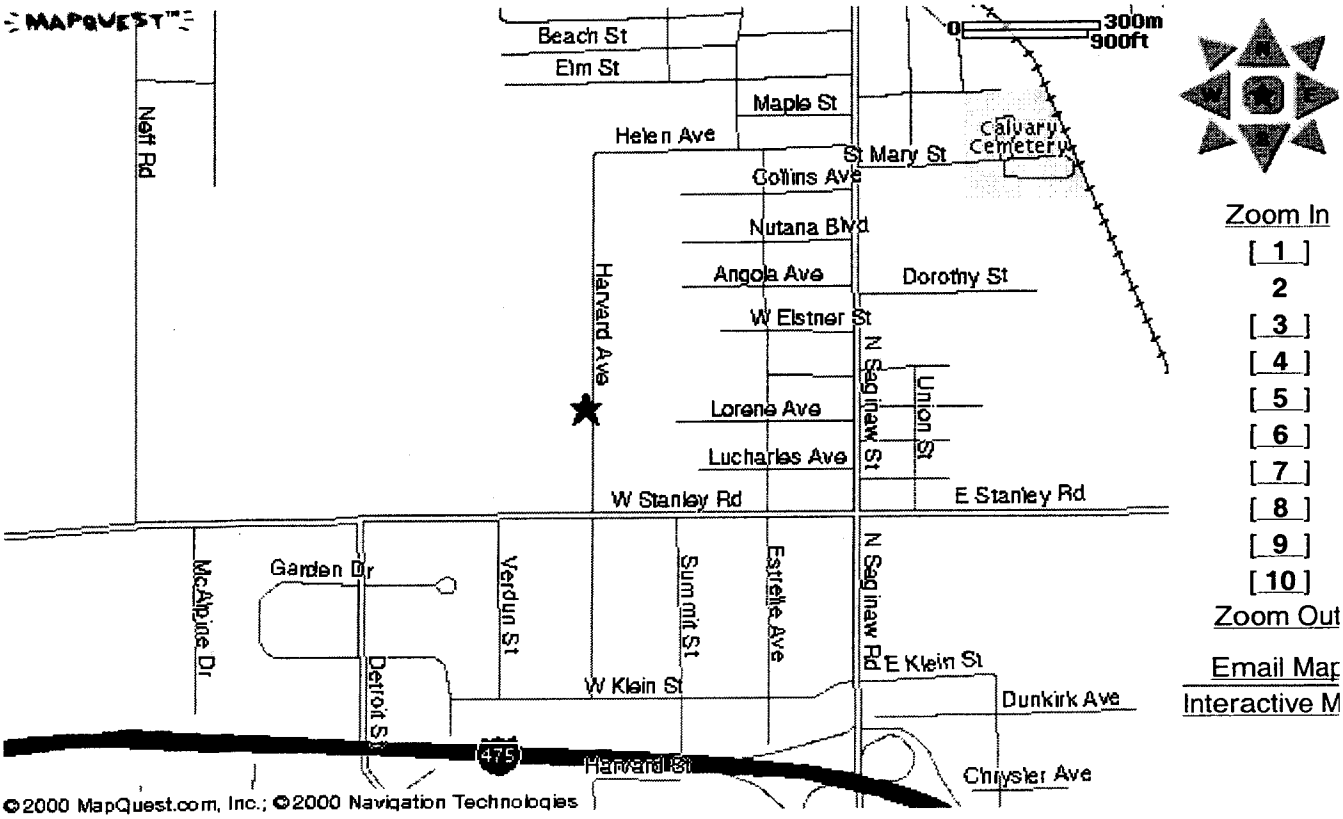
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

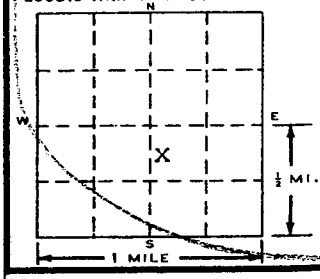
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NW ¼ NW ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

James Fournier 113

Address 7219 Harvard St
Mt. Morris, MI 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

247 FT.

Date Completed MO. 09 DAY 11 YEAR 90

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☒ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 144 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	22	34
Sand	18	52
Blue Clay	68	120
Shale	60	180
Limestone	20	200
Sandstone	47	247

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
SEP 26 1990
Bureau of Environmental and Occupational Health

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

35 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

140 ft. after 1 hrs. pumping at 30 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 141 to 20 ft.

☐ Neat cement ☒ Bentonite ☐ Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aremotor

Model number _____ HP ¾ Volts 220

Length of Drop Pipe 140 ft. capacity 14 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 09-18-90

AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

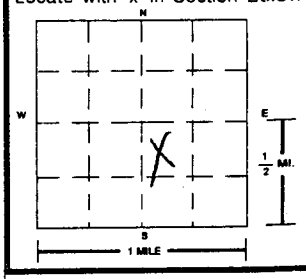
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 NW 1/4 SE 1/4	12	8 N	6 E

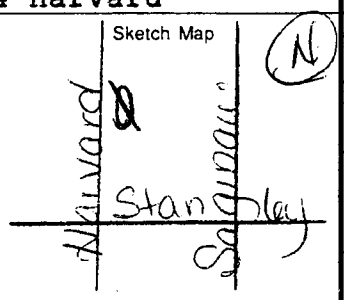
Distance and Direction from Road Intersection: West of Saginaw, North of Stanley Rd

Street Address & City of Well Location: 7244 Harvard 114

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Wolverine Homes
Address: 5113 Highpoint Dr
Swartz Creek MI

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 225 ft. Date Completed 7 / 20 / 98 ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 162 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 162 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	119	119
shales	31	150
slate, shale	11	161
slate, sandstone	5	166
slate, shale	29	195
gray slate w/streaks of sandstone	19	214
sandstone	11	225

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 83 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
_____ ft. After _____ hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☐ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 162 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 154 ft. Direction S
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number J2 HP _____ Volts _____
Length of Drop Pipe 120 ft. Capacity _____ G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 251 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd Clio, MI 48420

Signed Brad Taylor Date 8/1/98
AUTHORIZED REPRESENTATIVE

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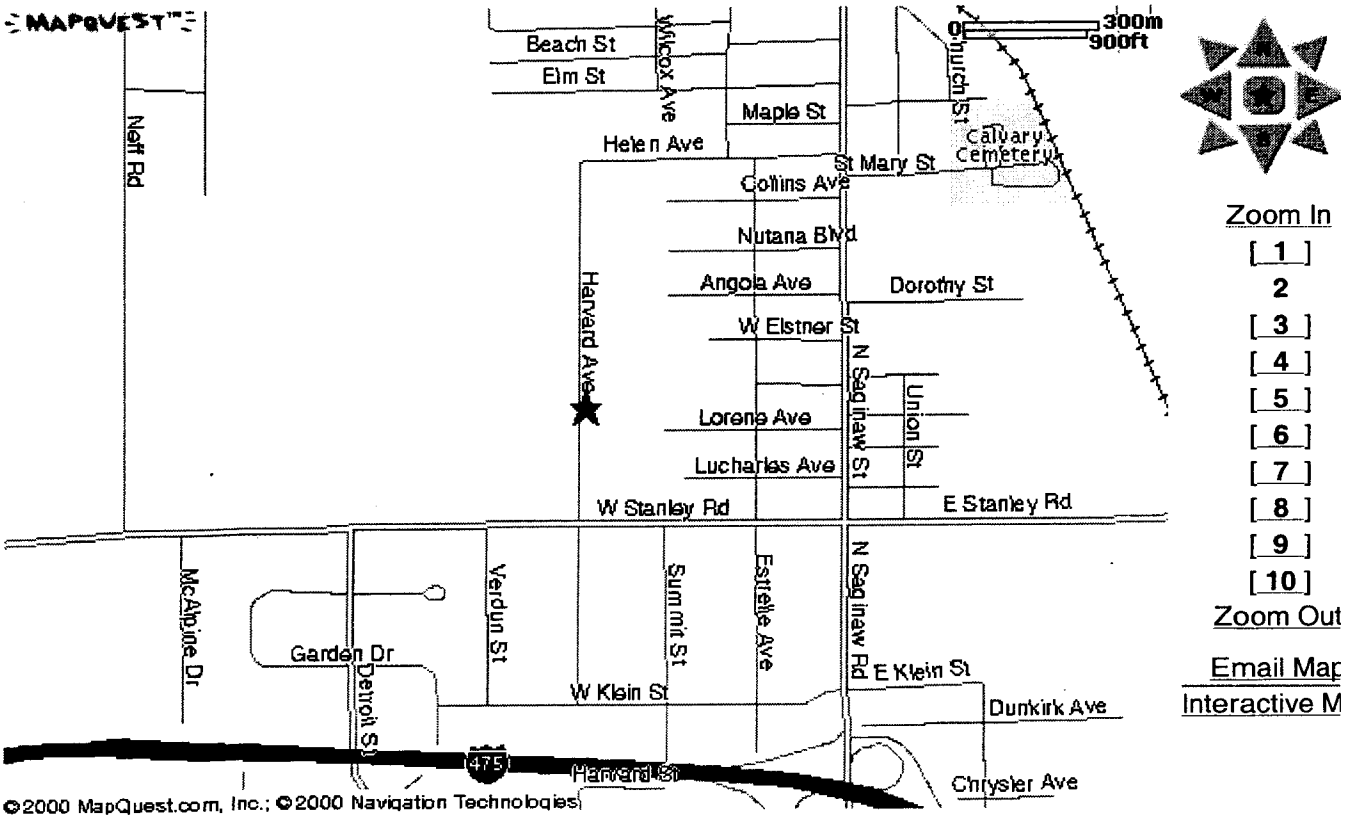
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	se¼ sw¼ ne¼	7	8 N/S.	7 E/W.

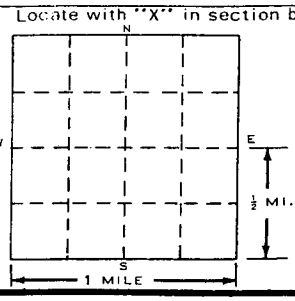
Distance And Direction from Road Intersections

115

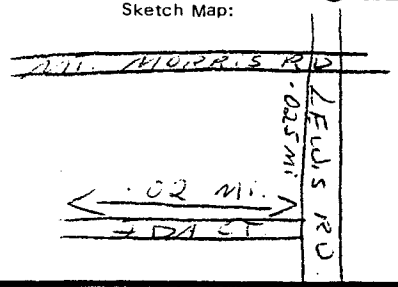
1463 Ida Ct.

Street address & City of Well Location Mt. Morris, Michigan

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Address: Blum Builders
4021 Clio Rd.
Flint, Michigan

4 WELL DEPTH: (completed) Date of Completion

290 ft. Jan. 19, 1973

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐
4 in. to 254 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	45	45
Clay & Gravel	60	105
Gray Clay	20	125
Clay & Gravel	129	254
Sandstone	36	290

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
120 ft. below land surface

10 PUMPING LEVEL below land surface
____ ft. after ___ hrs. pumping 12 g.p.m.
____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit
☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☒ drilling mud
Depth: From 0 ft. to 254 ft.

14 Nearest Source of possible contamination
50 feet N Direction Septic Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Did not install
Model Number ____ HP ___ Volts ____
Length of Drop Pipe ____ ft. capacity ___ G.P.M.
Type: ☐ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

KB

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Taylor Well Drilling (REGISTERED BUSINESS NAME) 0038 (REGISTRATION NO.)

Address 11081 Clio Rd. Clio, Mich.

Signed Mary A Taylor (AUTHORIZED REPRESENTATIVE) Date Jan. 24, '73

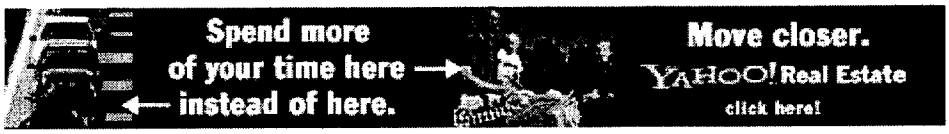
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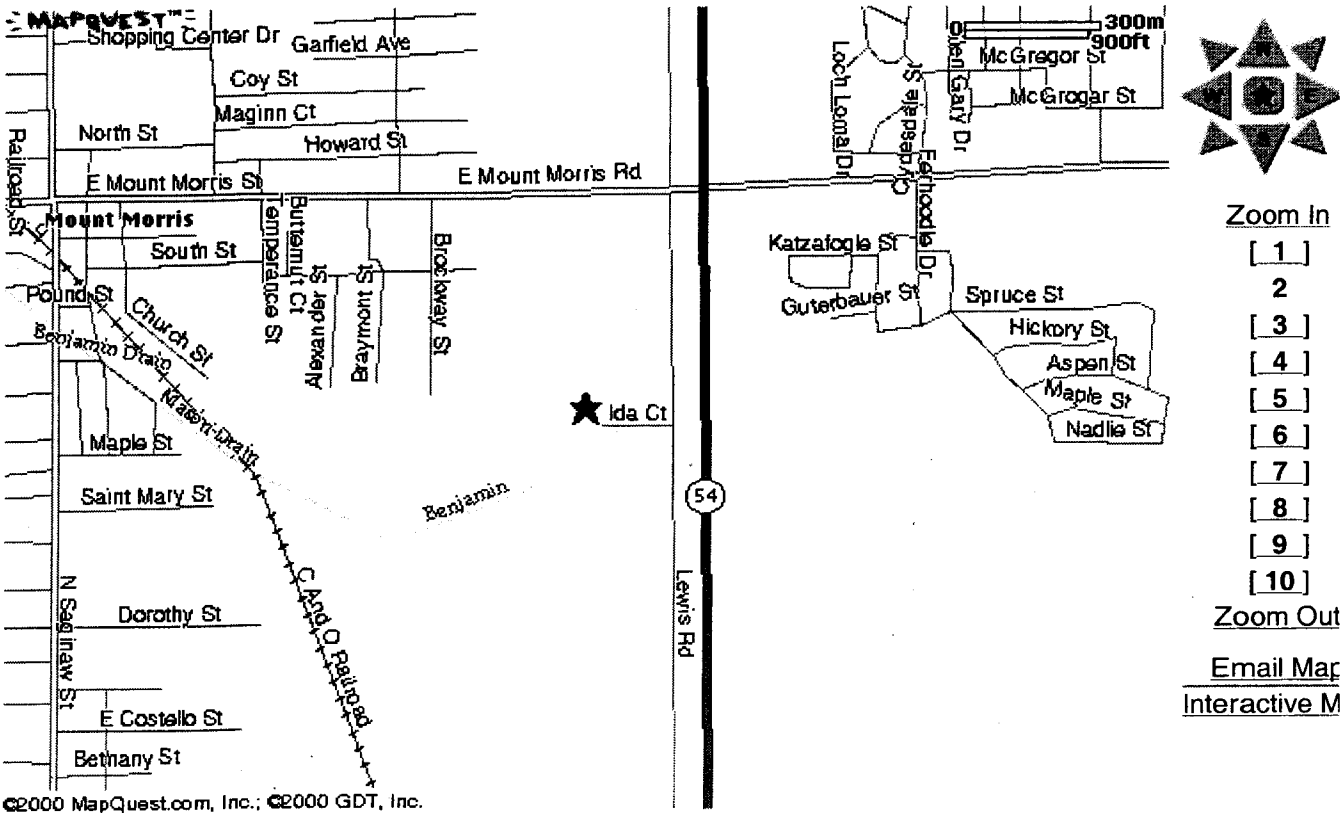
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SE 1/4 SW 1/4 NE 1/4	7	8N	7E

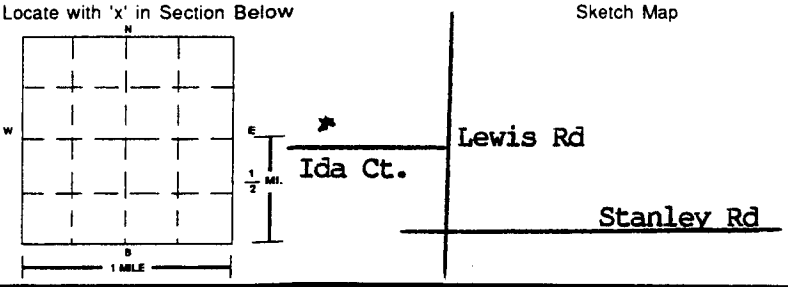
Distance and Direction from Road Intersection

½ Mile North of Stanley RD; 1/10 Mile west of Lewis..

Street Address & City of Well Location

Locate with 'x' in Section Below

Sketch Map



3. OWNER OF WELL
Address: Bob Dailey 116
1473 Ida Ct.

Address Same as Well Location [*] Yes [ ] No

4. WELL DEPTH: 300 ft. Date Completed 9 / 29 / 94 [ ] New Well [*] Replacement Well

5. [ ] Cable Tool [*] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ] _____

6. USE: [*] Household [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ] _____

7. CASING: [ ] Steel [ ] Threaded [*] Plastic [ ] Welded [ ] Other _____
Diameter: 5 in. to 254 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: _____ in. to _____ ft. depth
8 in. to 254 ft. depth
Height: Above/Below** Surface: XX 1 ft
Weight: 2.92 lbs./ft.
[ ] Drive Shoe [ ] Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
BROWN CLAY	9	9
GRAY CLAY	60	69
Med SAND	10	79
GRAY CLAY	100	179
HARD GRAY CLAY & GRAVEL	20	199
SHALE & GRAVEL	45	244
SAND STONE - WHITE SHALE	56	300
USE A 2ND SHEET IF NEEDED		

8. SCREEN: [*] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
120 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
150 ft. After ½ hrs. Pumping at 18 G.P.M.
[ ] Plunger [ ] Bailer [ ] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[*] Pitless Adapter [*] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [*] Yes From 0 to 254 ft.
[ ] Neat Cement [*] Bentonite [ ] Other _____
No. of Bags 40 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Sewer Distance 70 ft. Direction East
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name Goulds
Model Number 10ls10 HP 1 Volts 230
Length of Drop Pipe 180 ft. Capacity 10 G.P. M.
TYPE: [ ] Submersible [ ] Jet [ ] Other _____
PRESSURE TANK:
Manufacturer's Name A.O. Smith
Model Number V-140 Capacity 14 Gallons 44

15. ABANDONED WELL PLUGGED? [*] Yes [ ] No
Casing Diameter 2 in. Depth ? ft.
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry [ ] Cement/Bentonite Slurry [ ] Concrete Grout [*] Bentonite Chips
No. of Bags _____ Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
[*] Employee [ ] Subcontractor
Name David Coon

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

COON WELL DRILLING INC. 2152
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 2265 Rollins Grand Blanc, MI.

Signed David Coon Date 9-30-94
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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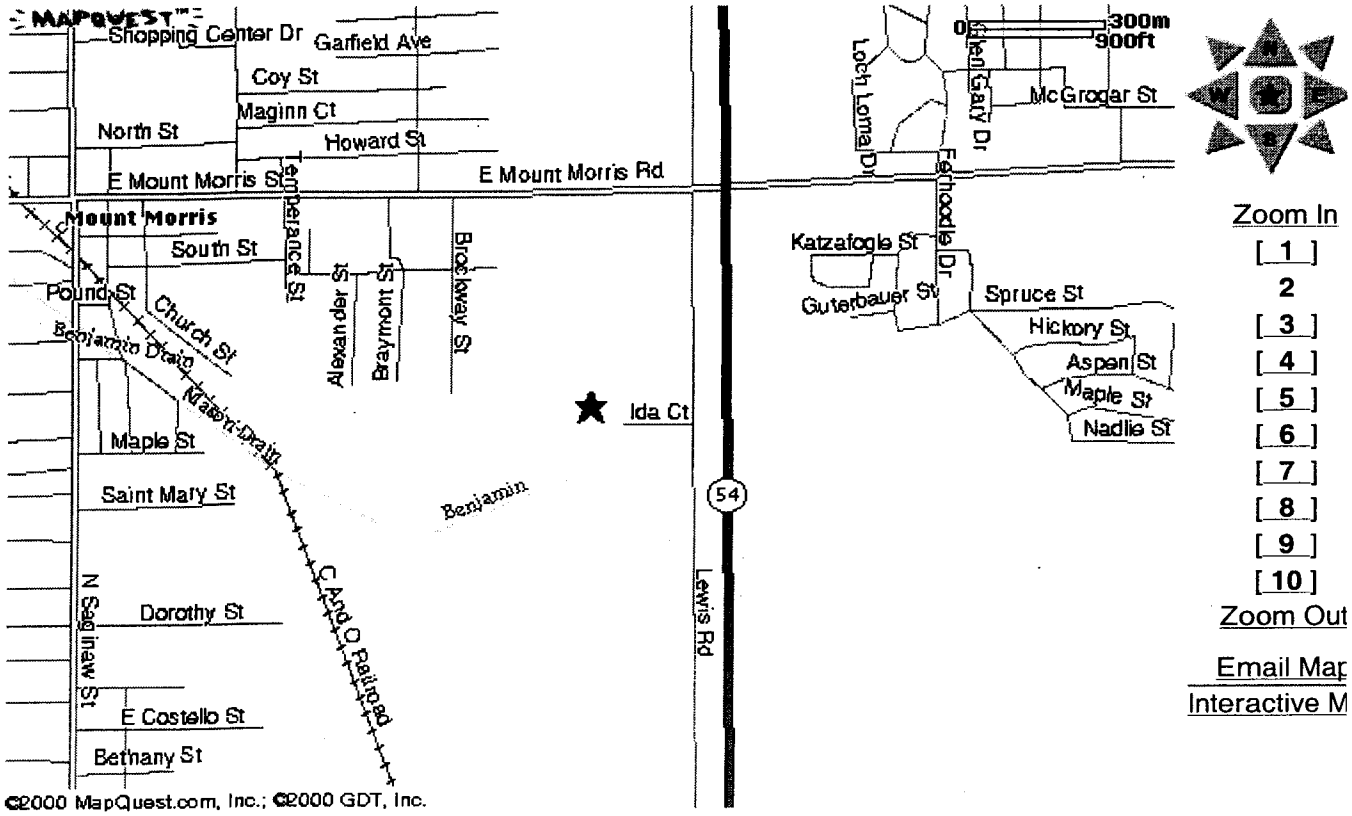
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★ **1473 Ida Court, Mount Morris, MI 48458-2253** 1\6

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

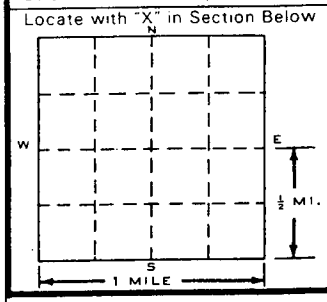
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE ¼ NE ¼ NE ¼	19	8 N/S	7 E/W

Distance And Direction From Road Intersection

Between Carpenter & Coldwater Rds. (117)

Street Address & City of Well Location: 5503 Lewis Rd.

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Roger Slaght

Address: 3181 Farrand Rd.

Clio MI 48420

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

220 FT.

Date Completed: MO. 11 DAY 18 YEAR 94

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public

☐ Irrigation ☐ Type IIa Public ☐ Heat pump

☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 158 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface 1 ft.

Weight SDR17 & SDR21 lbs./ft.

Drive Shoe ☐ Yes ☐ No Shale boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown clay	20	20
Gray clay	127	147
Gray shale	8	155
Sandstone	15	170
Gray & Green Shale	20	190
Sandstone	30	220

USE A 2ND SHEET IF NEEDED

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

100 ft. after 1 hrs. pumping at 1500 G.P.M. H.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade

☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 158 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aermotor

Model number _____ HP 1/2 Volts 115

Length of Drop Pipe 100 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well-Rite

Model number WR60-02 Capacity 40 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co., Inc. 25-1947

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 5370 Corunna Rd., Flint MI 48532

Signed _____ Date 11-18-94

AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor

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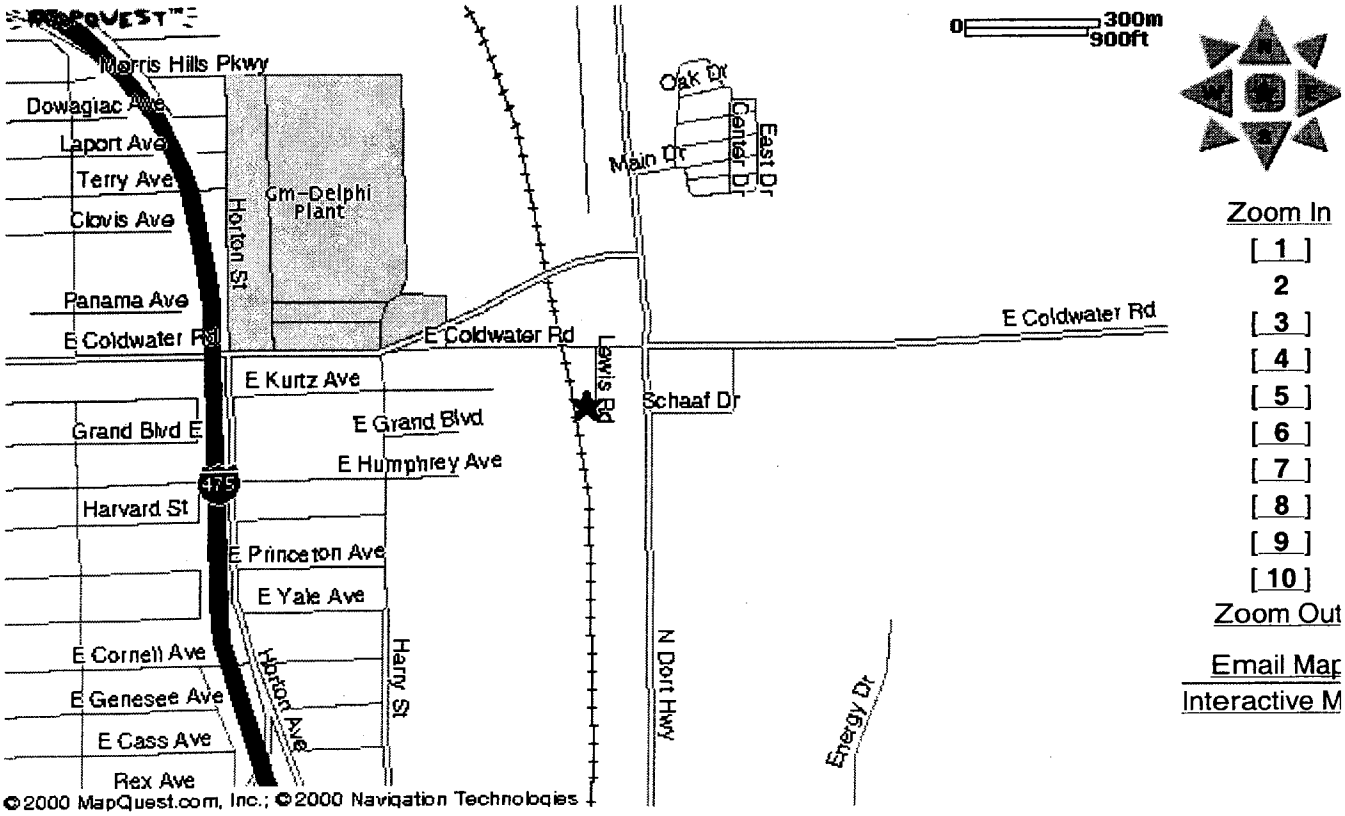
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GEOLOGICAL SURVEY MAR 28 1984

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

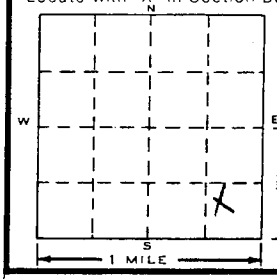
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	1/4 1/4 1/4	18	8 N/S	7 E/W

Distance And Direction From Road Intersection

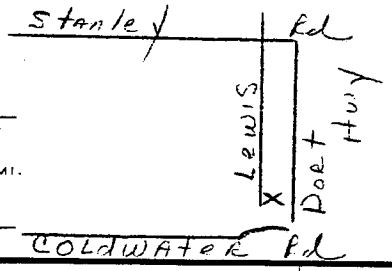
Lewis & Coldwater E side
N of Coldwater

Street Address & City of Well Location G-6086 Lewis Rd. Mt. Morris

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL 118

Phillip Gunther
Address G-6086 Lewis Rd.
Mt. Morris, MI

Address Same As Well Location? [x] Yes [ ] No

4 WELL DEPTH (completed) 242 ft. | Date of Completion Aug. 17, 1983

5 [ ] Cable tool [x] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE [xx] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ]

7 CASING Diameter [ ] Steel [ ] Threaded [xx] Plastic [ ] Welded
5 in. to 185 ft. depth
___ in. to ___ ft. depth
Grouted Drill Hole Diameter
7 7/8 to 185 ft. depth
___ in. to ___ ft. depth

Height Above/Below Surface 1 ft.
Weight SDR 21 lbs./ft.
Drive Shoe [ ] Yes Shale Boot [ ] No

8 SCREEN [ ] Not Installed
Type ___ Diameter ___
Slot/Gauze ___ Length ___
Set between ___ ft. and ___ ft.
FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ___ ft Other ___

9 STATIC WATER LEVEL
95 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface
240 ft. after 2 hrs. pumping at 43 G.P.M.
___ ft. after ___ hrs. pumping at ___ G.P.M.

11 WELL HEAD COMPLETION [x] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [x] Yes From 1 to 185 ft
[ ] Neat cement [x] Bentonite [ ] Other ___
No. of bags of cement ___ Additives ___

13 Nearest source of possible contamination
Type Septic Distance 50 ft. Direction W
Well disinfected upon completion? [x] Yes [ ] No

14 PUMP [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name F & W
Model number 4F10B07 305 HP 3/4 Volts 230
Length of Drop Pipe 140 ft. capacity 10 G.P.M.
TYPE [x] Submersible [ ] Jet ___
PRESSURE TANK
Manufacturer's name X-trol
Model number 203 Capacity 32.0 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	5'	5'
Blue Clay	60'	65'
Gravel	10'	75'
Clay & Gravel	20'	95'
Gravel	10'	105'
Clay & Gravel	75'	180'
Limestone	20'	200'
Green /sandstone	20'	220'
Gray Sandstone	22'	242'

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)
Address G-8107 N. Dort Hwy. Mt. Morris, MI 48458
Signed Earl L Lyons (AUTHORIZED REPRESENTATIVE) Date Aug. 17, 1983

D67d (Rev 10-80)

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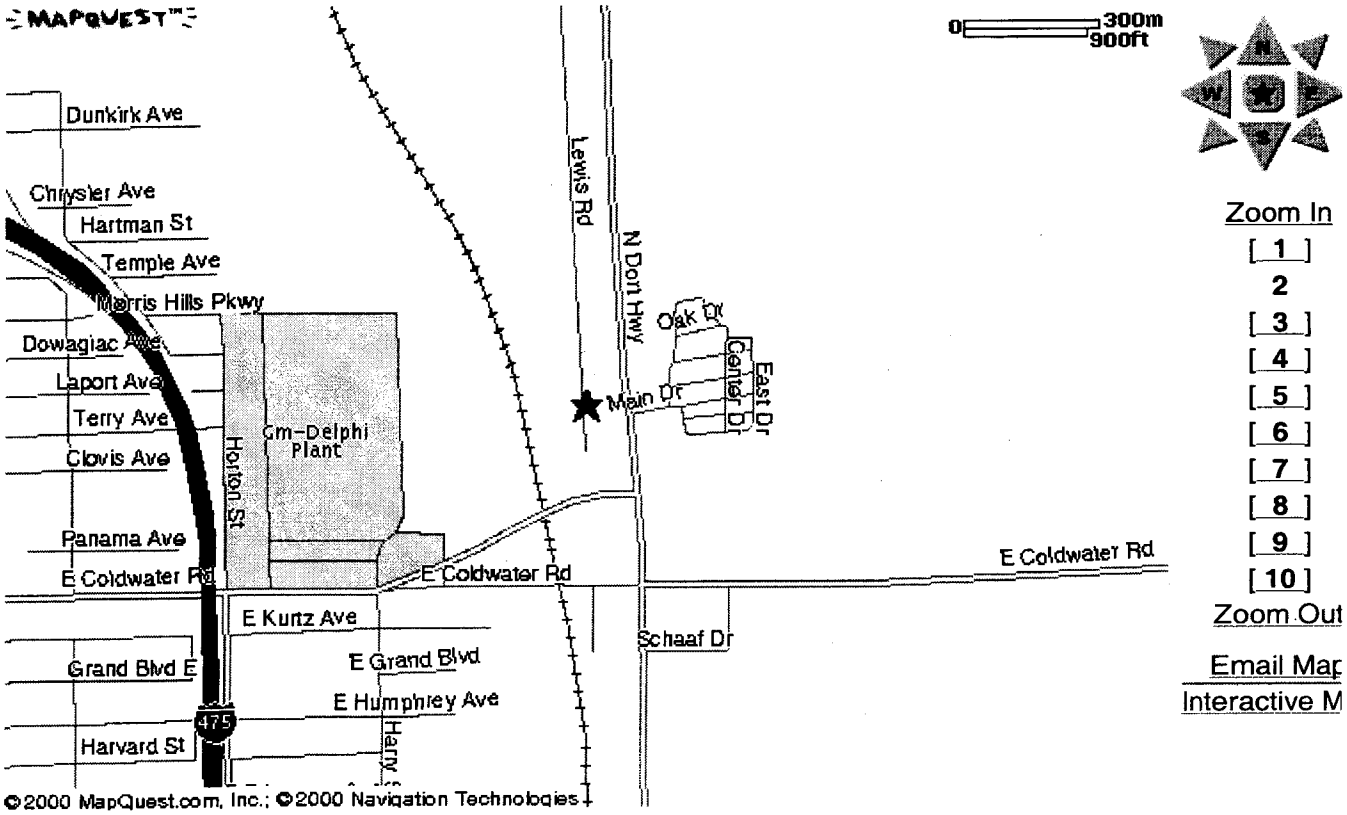
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

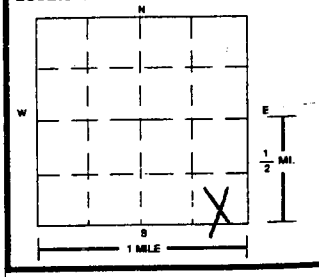
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 SE 1/4 SE 1/4	18	8 N	7 E

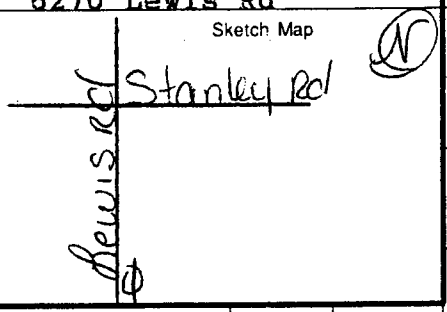
Distance and Direction from Road Intersection
South of Stanley Rd on East.

Street Address & City of Well Location 6270 Lewis Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Peter Olejnik
Address 6270 Lewis Rd
Mt MOrris MI
119

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 265 ft. | Date Completed 4/15/98 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 199 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 199 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
108 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
265 ft. After _____ hrs. Pumping at 30+ G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 199 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 10 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10+ ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 140 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	181	181
shales	6	187
lime, sandstone	68	265

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MICH DEPT OF ENVIRONMENTAL QUALITY
JUN 15 1998
Drinking Water & Radiological Protection Division
WELL RECORDS UNIT

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well!

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio, MI 48420
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 5-12-98

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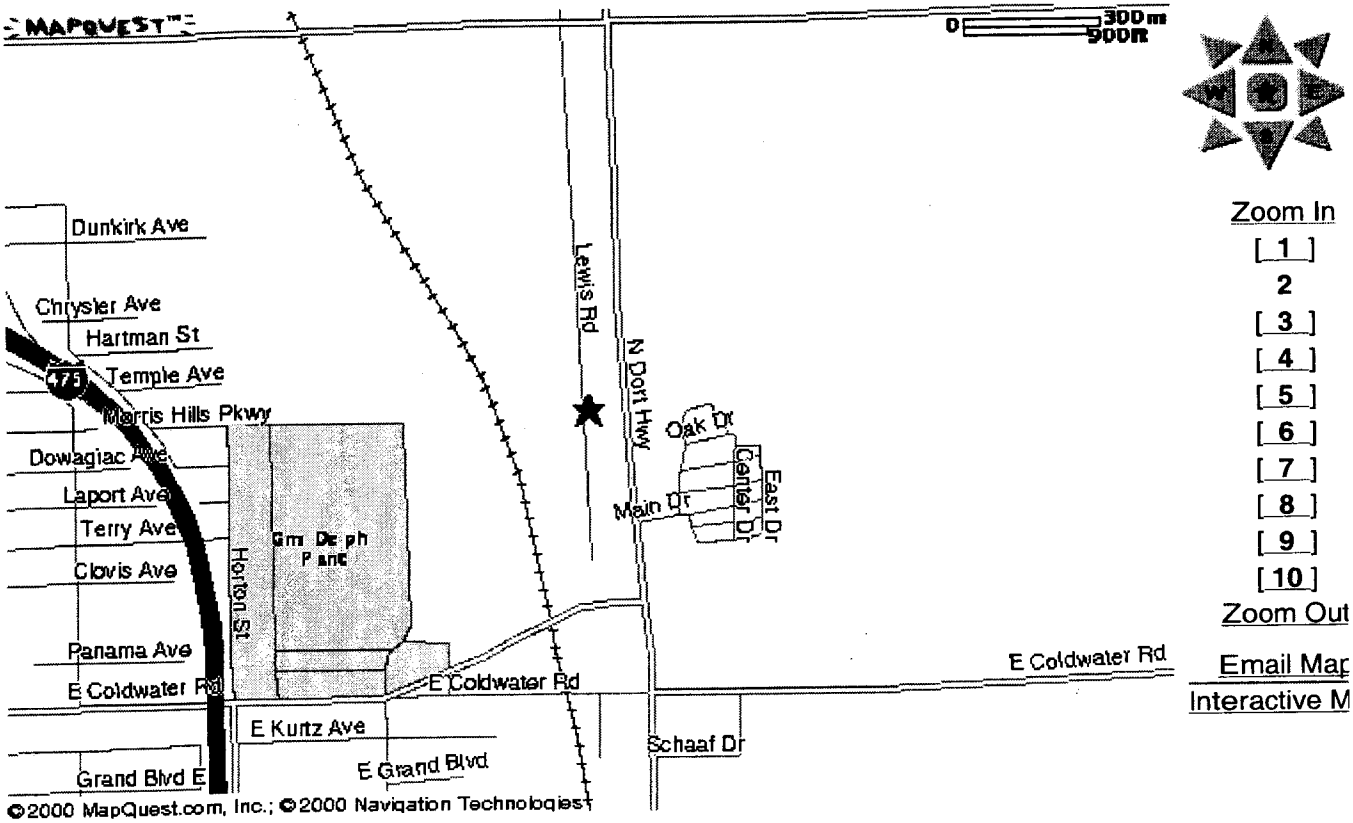
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DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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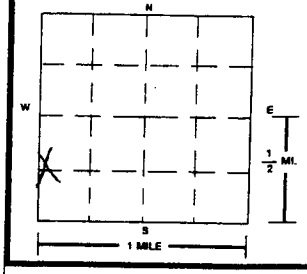
PERMIT NO: 970

1. LOCATION OF WELL

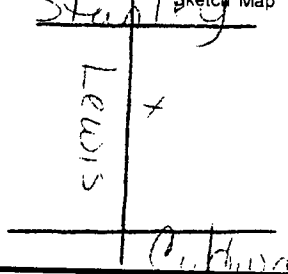
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 NW 1/4 SW 1/4	17	8	7

Distance and Direction from Road Intersection
Between: Stanley and Coldwater Rd.
OFF: Lewis Rd.
6452 Lewis Rd. 120
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Robert Wells
P.O. Box 90191
Burton, MI. 48509
Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 260 ft. | Date Completed: 08/25/99 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other
Diameter: 5" in. to 193 ft. depth
in. to ft. depth
BORE HOLE:
Diameter: 8" in. to 193 ft. depth
4.5 in. to 260 ft. depth
Height: Above/Below Surface: ft
Weight: lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer SHALE ROOT

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	40	40
Sand	7	47
Clay	68	115
clay	45	160
Soft Green Sandstone	8	168
Black Shale	22	190
Limestone	20	210
Sandstone	10	220
Sandy Shale	15	235
Sandstone	15	250
Sandy Shale	10	260

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type Diameter
Slot/Gauze Length:
Set Between ft. and ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen ft. Other

9. STATIC WATER LEVEL:
90 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
240 ft. After 2 hrs. Pumping at 40 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 193 ft.
☐ Neat Cement ☒ Bentonite ☐ Other
No. of Bags 9 Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Distance ft. Direction
Type Sewer Distance 10' ft. Direction South

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50F2011268 HP .5 Volts 110
Length of Drop Pipe 120 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 66 Capacity 20 Gallons 5.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter 2 in. Depth UNDetermined
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☒ Bentonite Chips
No. of Bags 1 Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

OCT 1 9

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name MIKE MUNSELL

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed AUTHORIZED REPRESENTATIVE Date 09/01/1999

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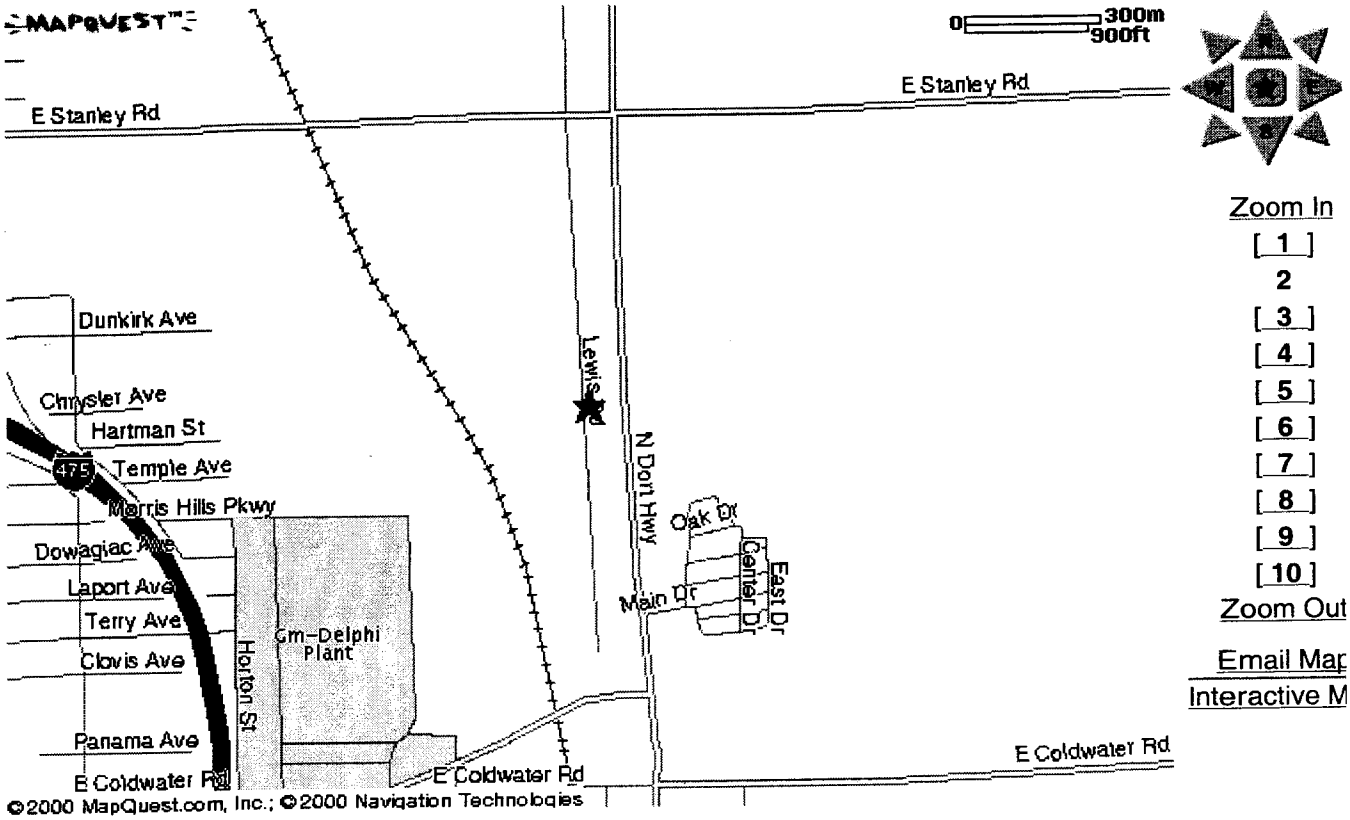
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GEOLOGICAL SURVEY SAMPLE No. [ ]

2 DEC 17 1979

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

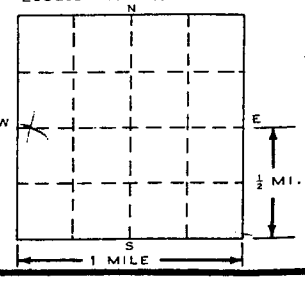
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ W½	17	8 N/S.	7 E/W.

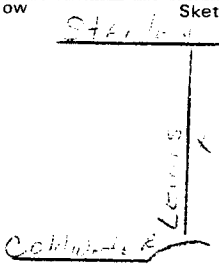
Distance And Direction from Road Intersections
½ way between Stanley Rd. & Coldwater Rd. E side

Street address & City of Well Location 6466 Lewis Rd. Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:
Stephanie LaFrenier
Address 6466 Lewis Rd. 121
Mt. Morris, MI

4 WELL DEPTH: (completed) 262 ft. Date of Completion Oct. 3, 1979

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 196 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft. Weight 3.65 lbs./ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	40'	40'
Sand & Gravel	40'	80'
Clay	60'	140'
Sand & Gravel	30'	170'
Shale	27'	197'
Limestone	45'	242'
Sandstone	20'	262'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
70 ft. below land surface

10 PUMPING LEVEL below land surface
260 ft. after 3 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 196 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Flint & Walling
Model Number C6269 HP 1 2 stage Volts 110
Length of Drop Pipe 105 ft. capacity 15 G.P.M.
Type: ☐ Submersible ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort Hwy. Mt. Morris, MI
Signed Kenneth W. Lyons Date Oct. 4, 1979
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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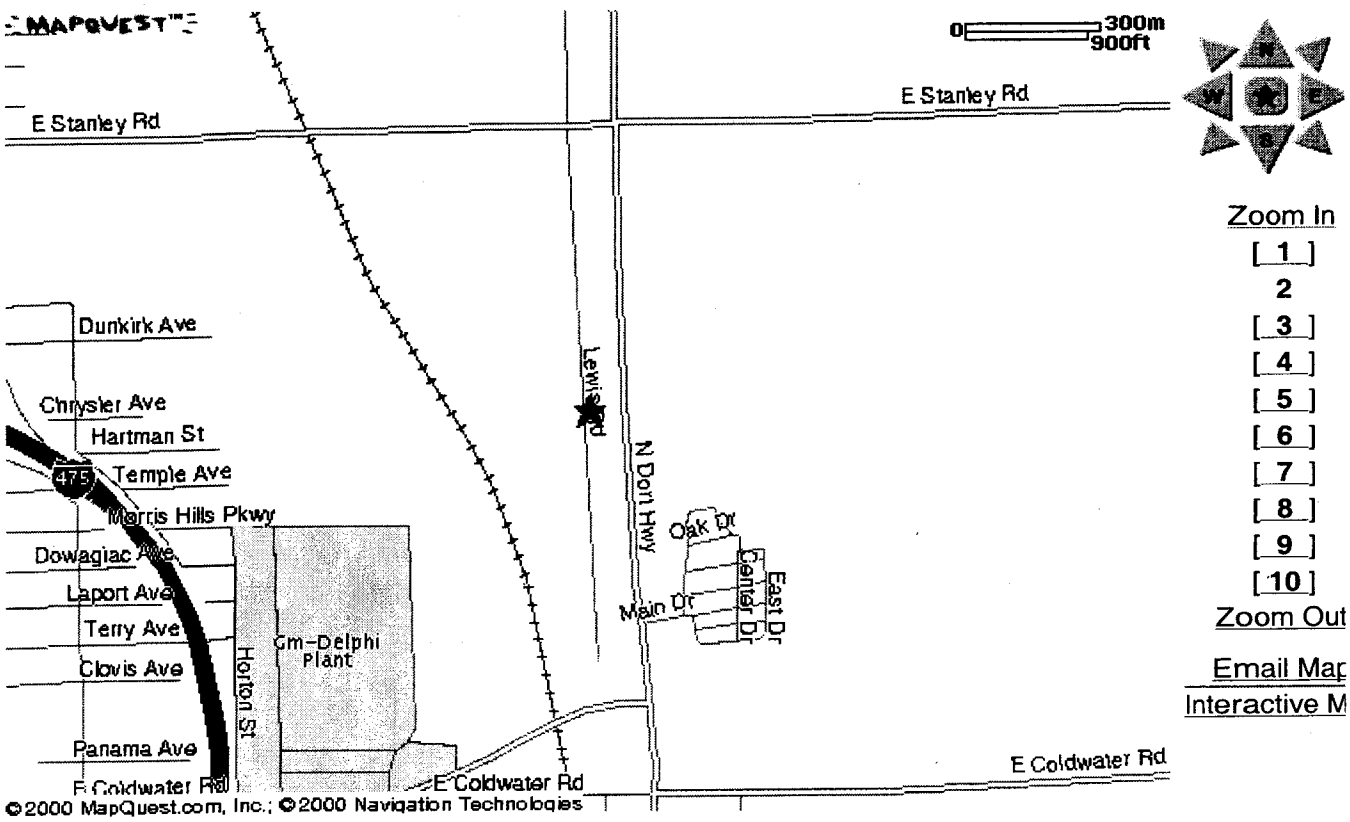
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

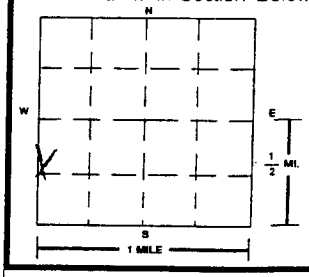
PERMIT NO: 1308

1. LOCATION OF WELL

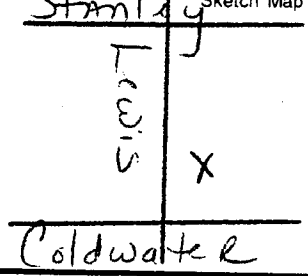
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 NW 1/4 SW 1/4	17	8	7

Distance and Direction from Road Intersection
Between: Stanley and Coldwater Rd.
OFF: Lewis Rd.
6472 Lewis Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Michael Minterfering
6472 Lewis Rd. 122
Mt. Morris, MI. 48458
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 260 ft. | Date Completed 06/30/99 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☐ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☒ Steel ☐ Threaded ☐ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 190 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 190 ft. depth
4.5 in. to 260 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer SHALE BOOT

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
95 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
255 ft. After 2 hrs. Pumping at 25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 190 ft.
☐ Neat Cement ☐ Bentonite ☐ Other _____
No. of Bags 5 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type San. Sewer Distance 50' ft. Direction east
Type _____ Distance _____ ft. Direction _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay and Gravel	30	30
Sandy Clay	85	115
Clay	40	155
Clay and Stones	25	180
Limestone	20	200
Sandstone	10	210
Limestone	30	240
Sandstone	20	260

JUL 21 1999

USE A 2ND SHEET IF NEEDED

14. PUMP: ☐ Not Installed ☐ Sealed ☐ Pump Installation Only
Manufacturer's Name Goulds 05P07722 .75 230
Model Number 160 HP 1.0 Volts _____
Length of Drop Pipe _____ ft. Capacity _____ G.P.M.
TYPE: ☐ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Homeowners
Model Number _____ Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter _____ in. Depth Undetermined
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags 2 Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name DON WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 07/08/1999
AUTHORIZED REPRESENTATIVE

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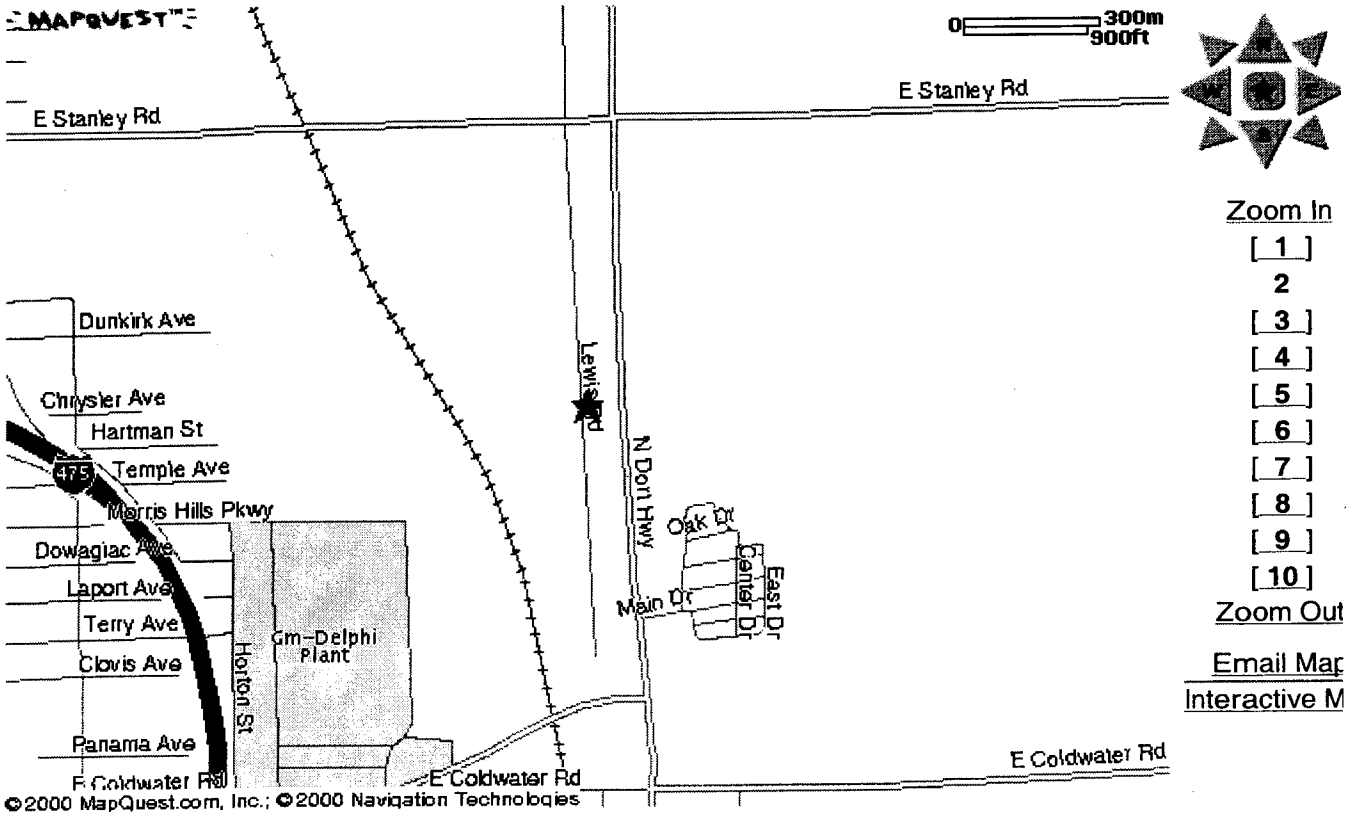
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GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

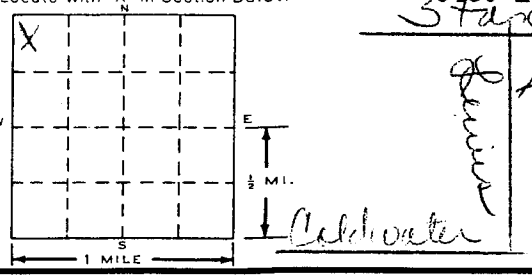
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW NW	17	8 N/S	7 E/W

Distance And Direction From Road Intersection: Stanley and Coldwater Rd. / Lewis Rd. E. Side

Street Address & City of Well Location: 6480 Lewis Rd. Stanley

Locate with "X" in Section Below



OWNER OF WELL: Address: Bruce and Ceollett Plamondon, 6480 Lewis Rd., Mt. Morris, MI. 48458 (123)

Address Same As Well Location: ☐ Yes ☐ No

4 WELL DEPTH: FT. 0 — Date Completed MO. DAY YEAR: 06/01/92 — ☐ New Well ☐ Replacement Well

5 ☐ Cable tool ☐ Rotary ☐ Driven X ☐ Dug ☐ Hollow rod ☐ Auger X ☐ Jetted ☐

6 USE: ☐ Domestic X ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐

7 CASING: Diameter ☐ Steel ☐ Threaded ☐ Plastic ☐ Welded
5 in. to X ft. depth
in. to 203 ft. depth
Grouted Drill Hole Diameter
8 in. to 203 ft. depth
in. to ft. depth
Height: Above/Below
Surface ft.
Weight lbs./ft.
Drive Shoe SDR21 ☐ Yes ☐ No

8 SCREEN: ☐ Not Installed X Shale Boot
Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen ft. Other

9 STATIC WATER LEVEL: ft. below land surface ☐ Flow

10 PUMPING LEVEL: 90 below land surface
250 ft. after 2 hrs. pumping at 42 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION: ☐ Pitless adapter X ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes X From 1 to 203 ft.
☐ Neat cement ☐ Bentonite ☐ Other
No. of bags of cement X Additives

13 Nearest source of possible contamination
Type San. Sewer Distance 50+ ft. Direction
Well disinfected upon completion? ☐ Yes ☐ No
Was old well plugged? ☐ Yes X ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Aeromotor
Model number A12B50 HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 12 G.P.M.
TYPE: ☐ Submersible X ☐ Jet
PRESSURE TANK:
Manufacturer's name
Model number CM202 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	18	18
Sand	8	26
Clay	12	38
Sand and Gravel	28	66
Clay	24	90
Gravel	6	96
Clay	87	183
Black Shale	4	187
Green Sandstone	11	198
Limestone	12	210
Gray Sandstone	60	270
	0	0
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	0	0

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15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling Inc. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy Mt. Morris, MI 4

Signed Gary M Price Date 06/06/92
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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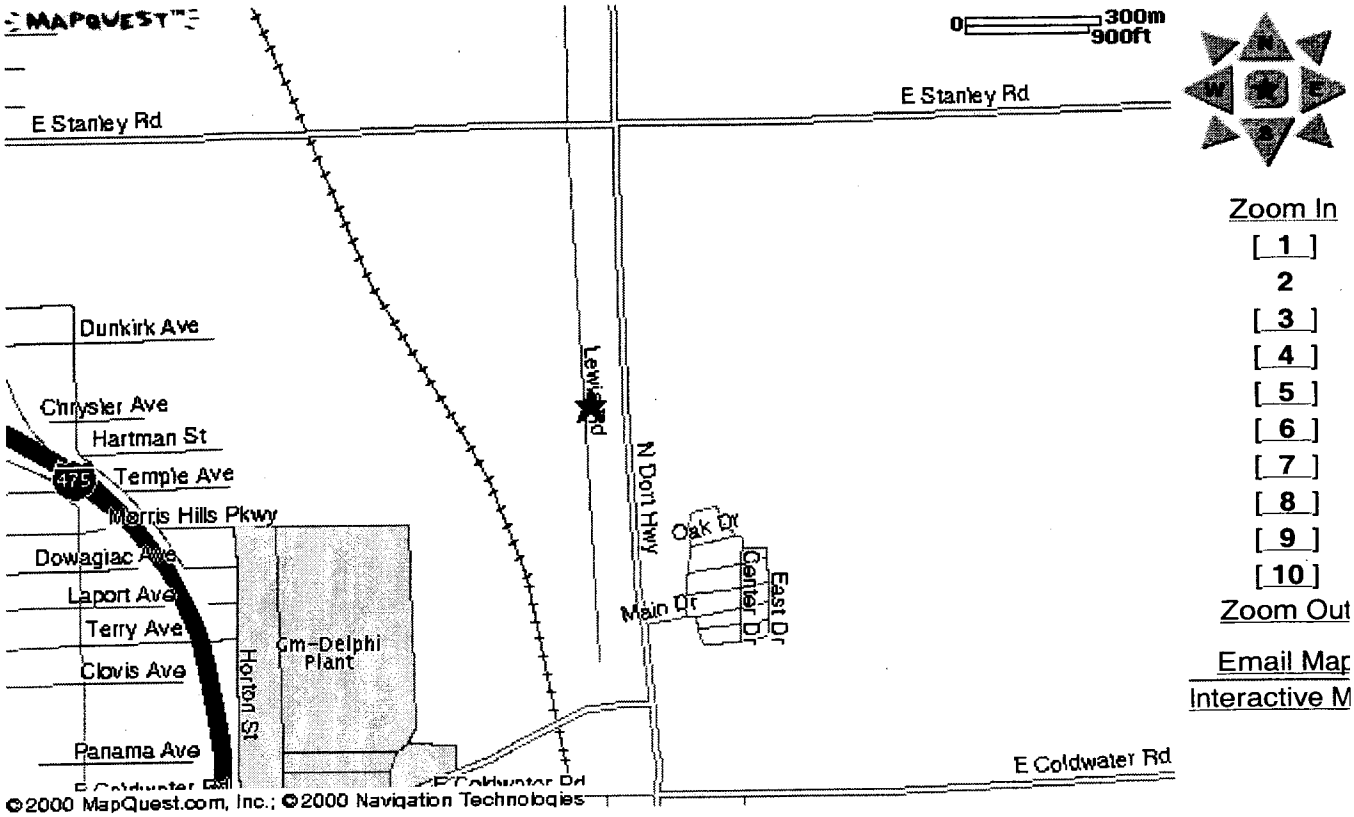
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

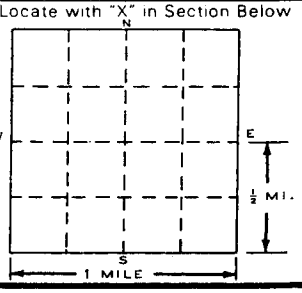
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE ¼ SE ¼ SE ¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

1-Block North of Stanley Rd. on the West side of Lewis Rd.

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Thomason Well Drilling, 7049 Lewis Rd. 124

Address Same As Well Location? [*] Yes [ ] No

4 WELL DEPTH:

72 FT.

Date Completed: MO. 11 DAY 20 YEAR 92

[ ] New Well [*] Replacement Well

5

[ ] Cable tool [*] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE:

[*] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING:

Diameter: [ ] Steel [ ] Threaded [*] Plastic [ ] Welded

5" in. to 67 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

7 7/8 in. to 67 ft. depth

Height: Above/Below *****

Surface 1 ft.

Weight 2.92 lbs./ft

Drive Shoe [ ] Yes [*] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	12	12
Gray Clay	26	38
Fine Sand & Clay	15	53
Fine Sand	9	62
Fine Gravel	10	72

8 SCREEN:

[ ] Not Installed

Type Stainless steel Diameter 5"

Slot/Gauze 1-18 slot Length 5

Set between 67 ft. and 72 ft.

FITTINGS: [*] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:

41 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

51 ft. after ½ hrs. pumping at 15 G.P.M.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION:

[ ] Pitless adapter [*] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [*] Yes From 0 to 72 ft.

[*] Neat cement [ ] Bentonite [ ] Other ____

No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination

Type ____ Distance ____ ft. Direction ____

Well disinfected upon completion? [*] Yes [ ] No

Was old well plugged? [ ] Yes [*] No

14 PUMP:

[*] Not Installed [ ] Pump Installation Only

Manufacturer's name ____

Model number ____ HP ____ Volts ____

Length of Drop Pipe ____ ft. capacity ____ G.P.M.

TYPE: [ ] Submersible [ ] Jet ____

PRESSURE TANK:

Manufacturer's name ____

Model number ____ Capacity ____ Gallons

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Note; Coon Well Drilling Co., did not install pump or plug old well.

17. Rig Operator's Name:

Robert Coon, SR.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Coon Well Drilling Co. 0283

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 2265 Rollins St., Grand Blanc, MI 4843[illegible]

Signed [signature] Date 11-23-93

AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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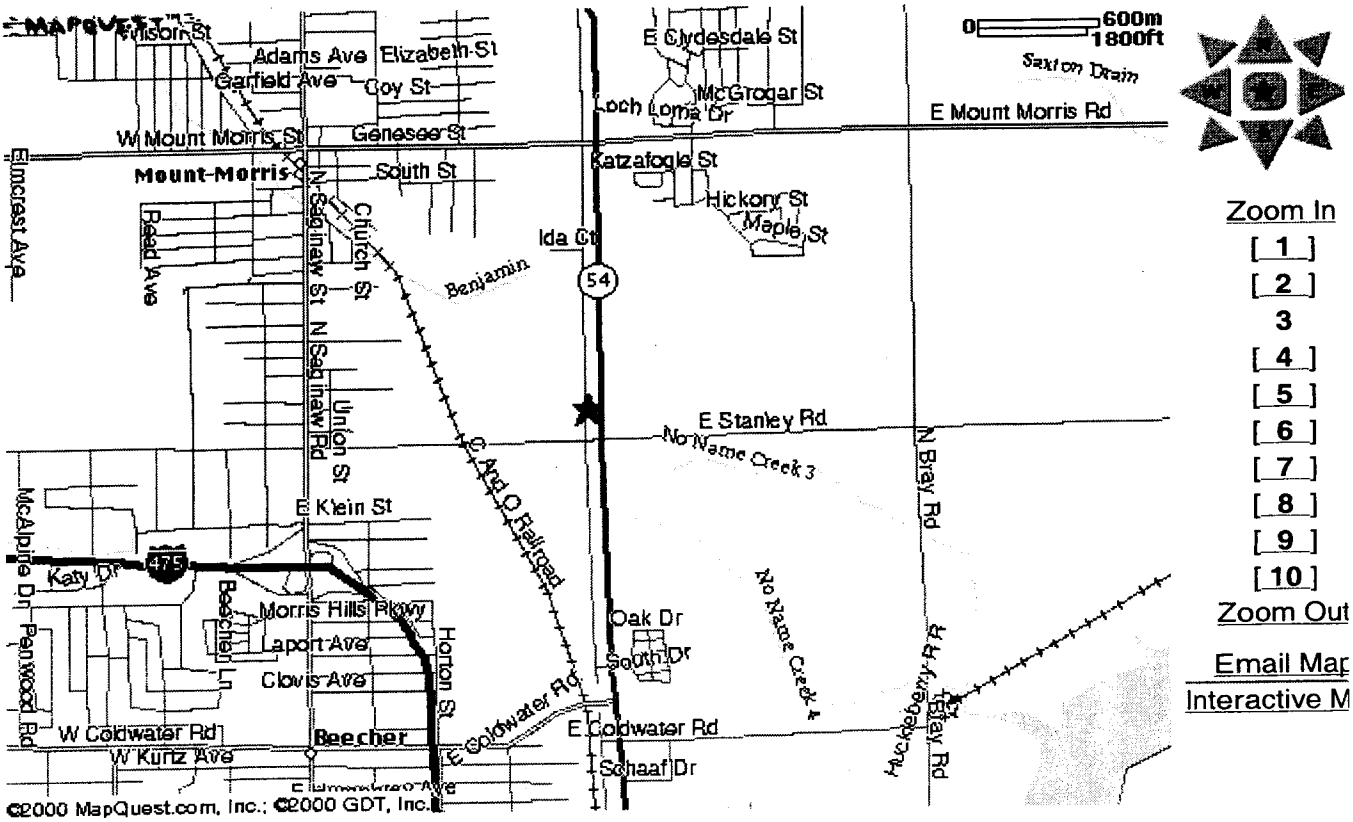
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2 AUG 21 1975

WATER WELL RECORD
ACT 294 PA 1965

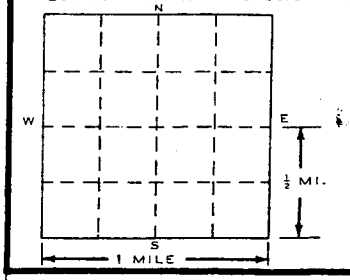
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	¼ SE ¼ SE ¼	8	8 N/S	7 E/W

Distance And Direction from Road Intersections
About 0.1 Mile W. of STANLEY Rd.
About 80 ft. E. of Lewis Rd
Street address & City of Well Location AT 6 7064

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL:
Address SCOTT HOLLISTER 125
6 7064 Lewis Rd
Mt. Morris

4 WELL DEPTH: (completed) Date of Completion
69 ft. 11-9-74

5
☐ Cable tool ☐ Rotary ☒ Driven ☐ Dug
☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
Diam. 2 in. to 63 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface Surface
Weight 3.75 lbs./ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: Plastic Dia.: 1¼
Slot/Gauze 60 Length 6 2-3 ft. Screens
Set between 63 ft. and 69 ft.
Fittings: SEALED WITH K. PACKER
30" TAIL PIPE

9 STATIC WATER LEVEL
42 ft. below land surface

10 PUMPING LEVEL below land surface
60 ft. after ____ hrs. pumping 60 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted?
☒ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
50 feet S Direction Septic Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed (OWNERS)
Manufacturer's Name SHETLER Prop.
Model Number ____ HP ½ Volts 110
Length of Drop Pipe 52 ft. capacity 7 G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	3	3
YELLOW CLAY	9	12
BLUE CLAY	49	61
WATER SAND	8	69

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY CP
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
B.E. PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4189 GREGOR ST. GENESEE
Signed Bud Perior Date 11-11-74
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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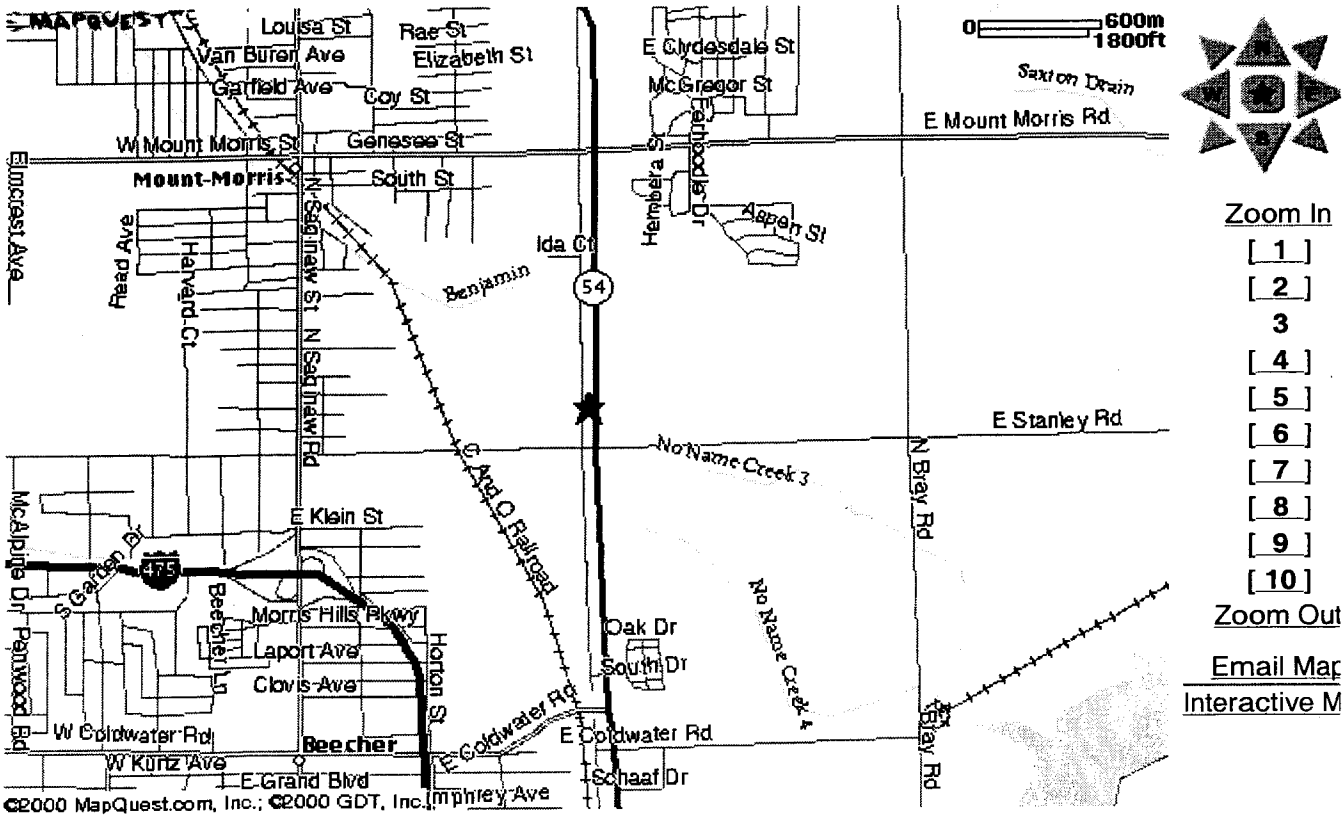
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★ **7064 Lewis Road, Mount Morris, MI 48458-2229** 125

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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

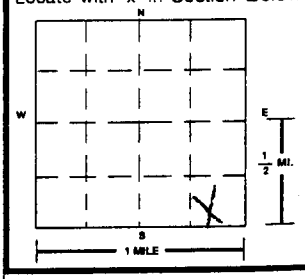
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 SE 1/4 SE 1/4	7	8 N	7 E

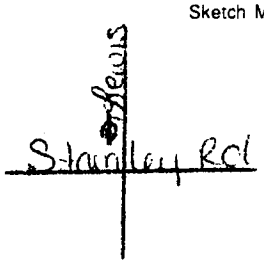
Distance and Direction from Road Intersection: North of Stanley Rd on West.

Street Address & City of Well Location: 7065 Lewis Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Theodore McCartney
Address: 7065 Lewis Rd, Mt Morris MI 126

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 74 ft. | Date Completed: 7/15/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 64 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 74 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☐ Shale Packer

8. SCREEN: ☐ Not Installed ☒ Gravel-Packed
Type PVC Diameter 5"
Slot/Gauze 20 Length: 10'
Set Between 64 ft. and 74 ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 43 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
64 ft. After _____ hrs. Pumping at 15 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 64 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 3 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type septic Distance 50+ ft. Direction NW
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 60 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	47	47
sand & clay	6	53
clay & stones	3	56
sand	17	73
clay	1	74

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Environmental Health
NOV 18 1996
BUR. OF OCCUPATIONAL HEALTH-GWQS

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No Still in use!
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 7 28 96

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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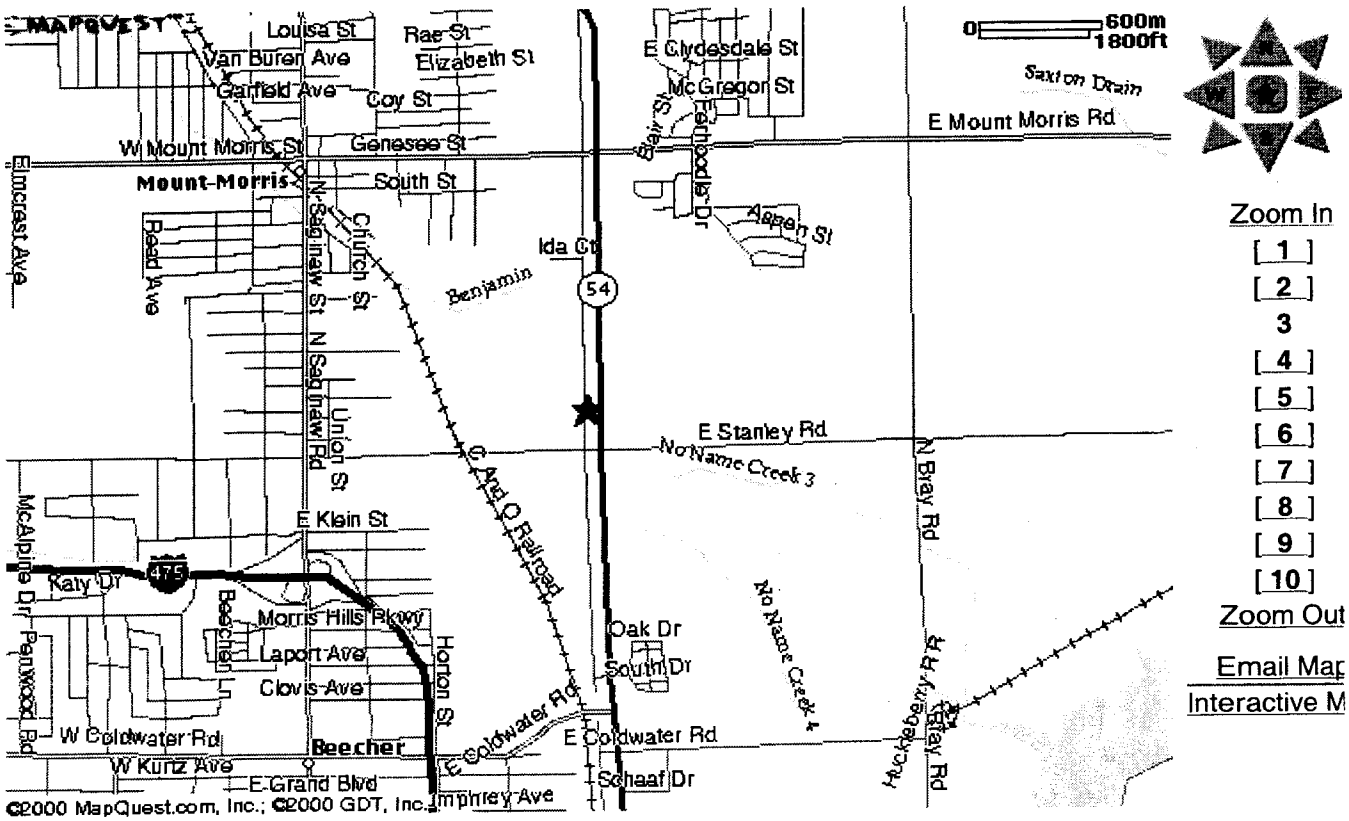
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

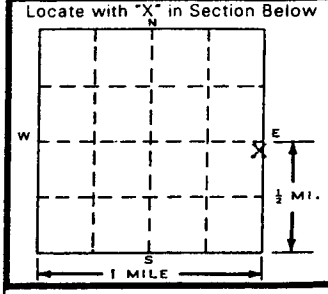
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genseee	Genesee	NE ¼ NE ¼ SE ¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Scott Van Alst
7209 Lewis Rd 127
Mt. Morris, Mi

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

185 FT.

Date Completed: MO. 09 DAY 18 YEAR 89

[ ] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 180 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	8	8
Blue Clay	60	68
Gravel	10	18
Blue Clay	92	170
Gravel	15	185

USE A 2ND SHEET IF NEEDED

8 SCREEN:

[ ] Not Installed

Type Point Diameter 3"

Slot/Gauze 25 Length 5

Set between 180 ft. and 185 ft.

FITTINGS: [X] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen 3 ft. Other _____

9 STATIC WATER LEVEL:

100 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

180 ft. after 1 hrs. pumping at 25 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 175 to 0 ft.

[ ] Neat cement [X] Bentonite [X] Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name F & W

Model number _____ HP ¾ Volts 220

Length of Drop Pipe 160 ft. capacity 10 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX 203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling , Inc 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 12-11-89

AUTHORIZED REPRESENTATIVE

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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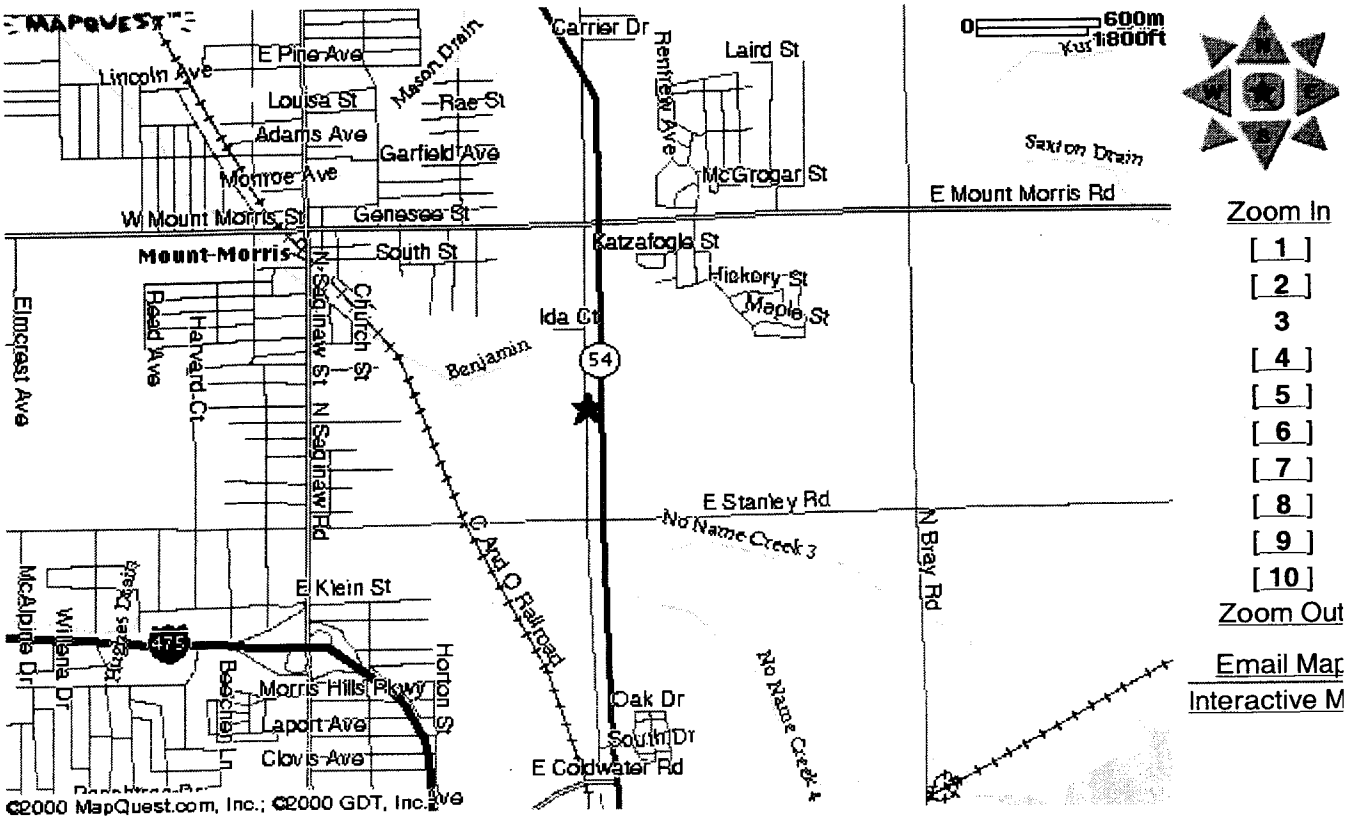
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

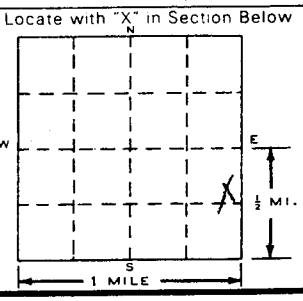
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE 1/4 NE 1/4 SE 1/4	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

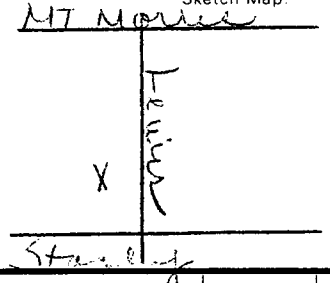
Stanley and Mt. Morris Rd.
Lewis Rd. W. Side

Street Address & City of Well Location: 7221 Lewis Rd.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Gay E. Peavey
7221 Lewis Rd.
Mt. Morris, MI. 48458

128

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

75 FT.

Date Completed MO. / DAY / YEAR: 06/10/92

[ ] New Well
[X] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 69 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 69 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

SDR21

Drive Shoe [ ] Yes [ ] No

Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	62	62
Sand and Gravel	13	75
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0

USE A 2ND SHEET IF NEEDED

8 SCREEN:

[ ] Not Installed

Type Johnson Diameter 4"
Slot/Gauze 15 Length 4'
Set between 69 ft. and 75 ft.
FITTINGS: [X] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

45 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

69 ft. after 2 hrs. pumping at 10 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 69 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 50+ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aeromotor

Model number A12B50 HP 1/2 Volts 115

Length of Drop Pipe 67 ft. capacity 12 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name Clayton Mark

Model number CM 202 Capacity 20 Gallons

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15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling Inc. 1886

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy Mt. Morris, MI 4845

Signed _____ Date 07/16/92

AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor

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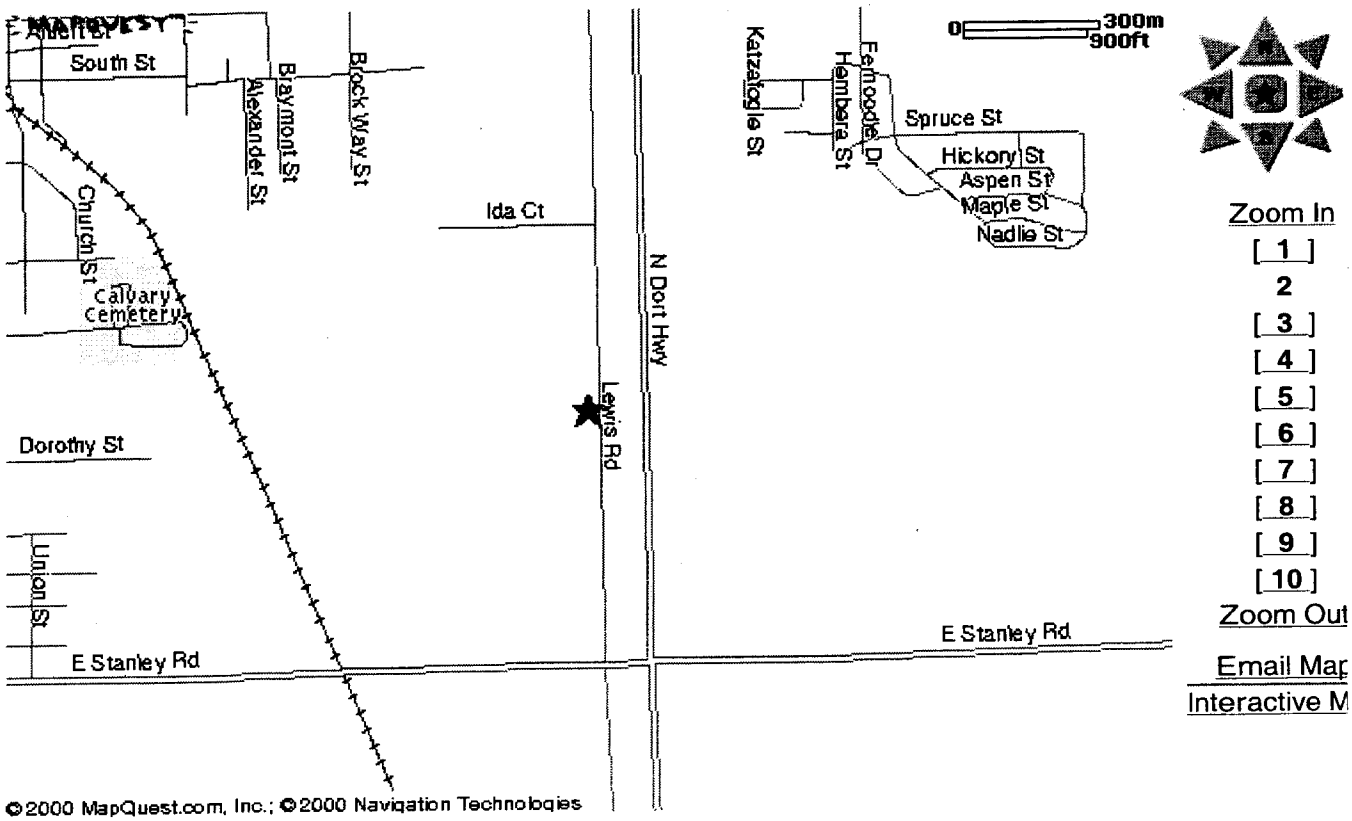
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

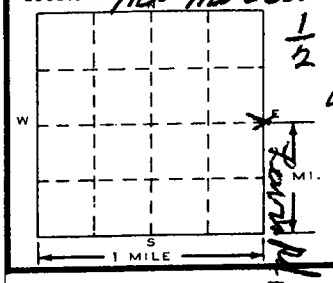
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	~~Mt Morris~~ 1	1/4 1/4 1/4	7	8 N/S	7 E/W

Distance And Direction From Road Intersection
Job. 7239 Lewis Rd. Mt. Morris Mi. (29)

Street Address & City of Well Location

Locate with an X in Section Below

Sketch Map: 1/2 mile S. of mt morris Rd on Lewis Rd on W. side of Rd.



3 OWNER OF WELL

Millie Paxton
Address 10036 N. Linden Rd
Clio Mi.
Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed)

340 ft

Date of Completion: 9-29-84

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 235 ft. depth 235
____ in. to ____ ft. depth

Grouted Drill Hole Diameter
____ in. to ____ ft. depth
____ in. to ____ ft. depth Shale packer

Height Above/Below Surface ____ ft.
Weight ____ lbs /ft.
Drive Shoe ☐ Yes ☐ No

8 SCREEN

☒ Not installed

Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen ____ ft Other ____

9 STATIC WATER LEVEL

88 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

88 ft. after 2 hrs. pumping at 1000 G.P.M
____ ft. after ____ hrs. pumping at ____ G.P.M

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 212 ft
☐ Neat cement ☒ Bentonite ☐ Other ____
No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination

Type Septic tank Distance 50 ft. Direction N.
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name ____
Model number A-12-50 HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 300 G.P.M.
TYPE: ☒ Submersible ☐ Jet
PRESSURE TANK
Manufacturer's name Ammotor
Model number A-12-50 Capacity 300 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
gravely	0	30
Clay	50	86
gravely Clay	60	140
Clay Blue	20	160
sandy Clay	40	200
green soft Sand Stone	35	235
white sand stone	40	275
gray sand Stone	25	300
Sand stone	40	340

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
OCT 25 1985
Bureau of Environmental and Occupational Health
GWDS

15. Remarks, elevation, source of data, etc.

well very salty

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

McCullough Well Drilling 25-04-5
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 12361 N. Clio Rd. Clio Mi.
Signed S. McCullough Date 9-29-84
AUTHORIZED REPRESENTATIVE

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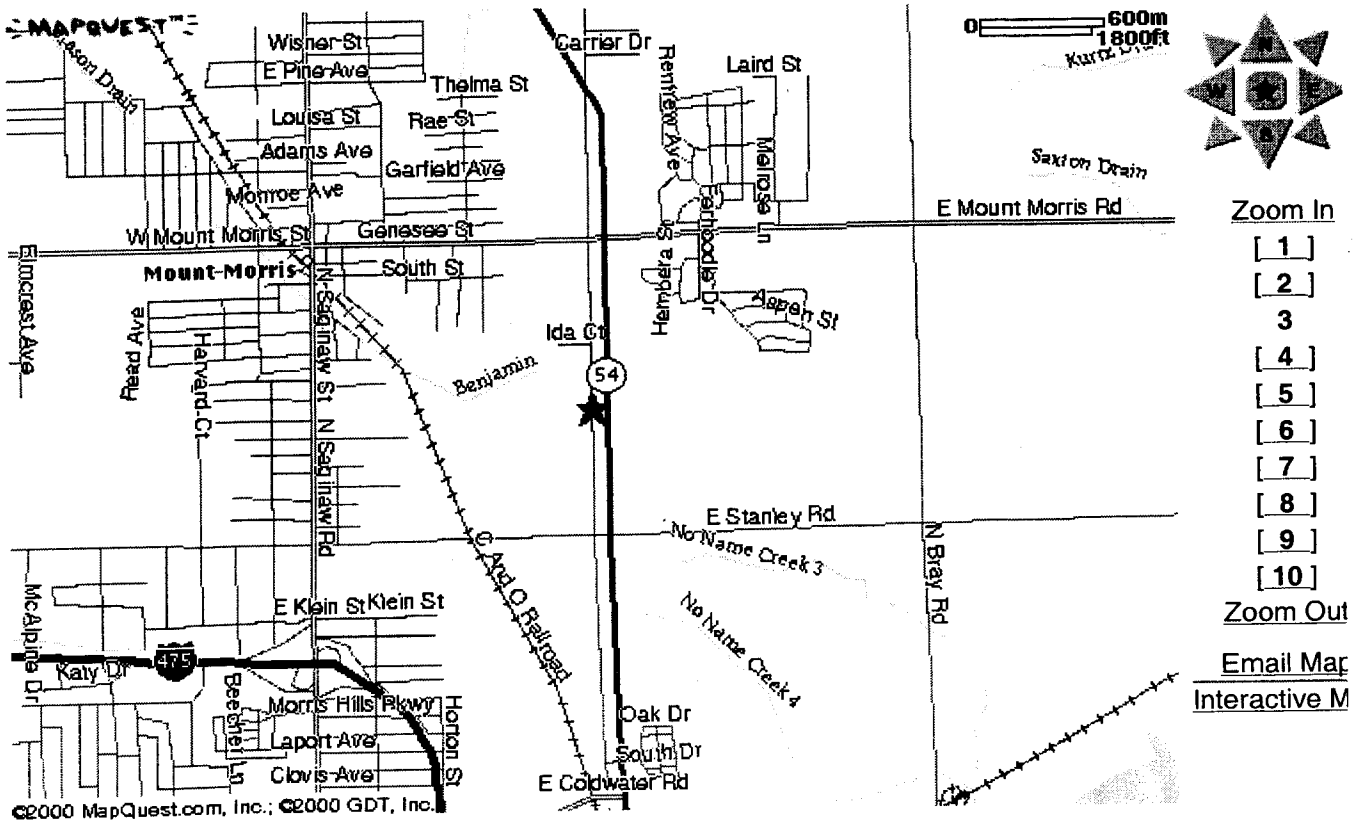
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GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

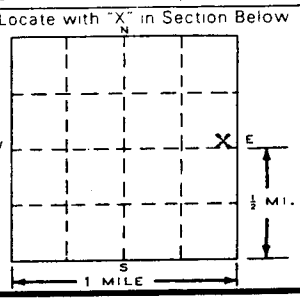
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE 1/4 SE 1/4 SE 1/4	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map

3 OWNER OF WELL

Address: Larry Carrier
G-7289 Lewis Rd
Mt. Morris, Mi

130

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

75 ft.

Date of Completion: 4-9-84

5

[ ] Cable tool [ ] Rotary [ ] Driven [ ] Dug
[X] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter [X] Steel [ ] Threaded [ ] Plastic [ ] Welded

2 in. to 69 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	15	15
Blue Clay	15	30
Fine Sand	27	57
Gravel	17	74
Fine Sand	1	75

USE A 2ND SHEET IF NEEDED

8 SCREEN

[ ] Not Installed

Type Plastic Diameter 1¼

Slot/Gauze 7 Length 6'

Set between 69 ft. and 75 ft.

FITTINGS [X] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen 4 ft. Other _____

9 STATIC WATER LEVEL

44 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

58 ft. after 2 hrs. pumping at 15 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [ ] Yes From _____ to _____ ft.

[ ] Neat cement [ ] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Rapidayton

Model number _____ HP 1 Volts 220

Length of Drop Pipe 57 ft. capacity 6 G.P.M.

TYPE [ ] Submersible [X] Jet _____

PRESSURE TANK

Manufacturer's name _____

Model number _____ Capacity 42 Gallons

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Mich. Dept. of Public Health
AUG 19 1986
Bureau of Environmental and Occupational Health - GWQS

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul St. Mt. Morris, Mi

Signed Robert J Dekoski Date 8-14-86

AUTHORIZED REPRESENTATIVE

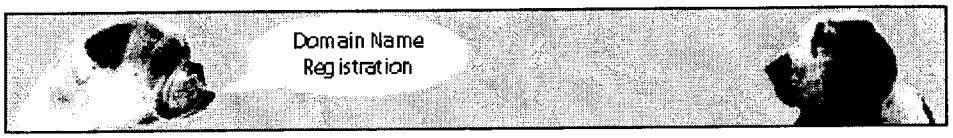
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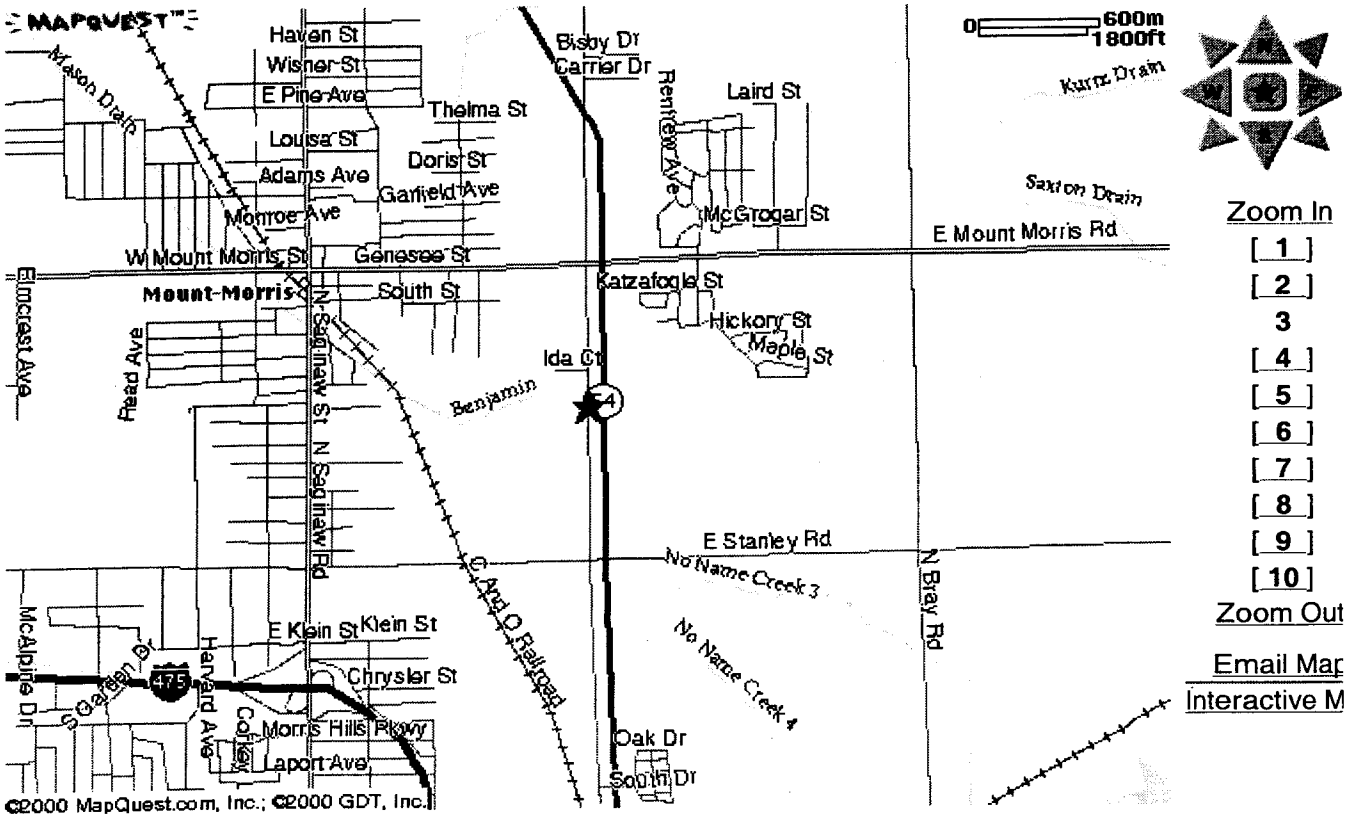
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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PERMIT NO:

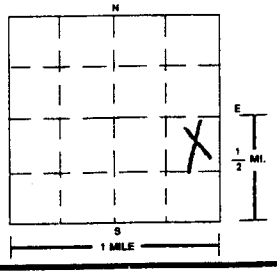
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NE 1/4 SE 1/4	7	8 N	7 E

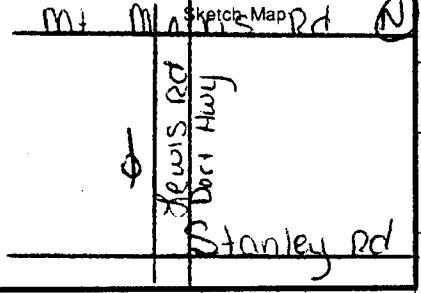
Distance and Direction from Road Intersection: Between Mt. Morris & Stanley Rds on West.

Street Address & City of Well Location: G-7303 Lewis Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Albert LeMarble
Address: G-7303 Lewis Rd
Mt Morris MI 31

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 75 ft. Date Completed 2 / 5 / 99 ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 63 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 75 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clays	48	48
stones, clays	18	66
sand	7	73
clay	2	75

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MICH DEPT OF ENVIRONMENTAL QUALITY
MAR 26 1999
Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☒ Gravel-Packed
Type PVC Diameter 5"
Slot/Gauze 20 Length: 10'
Set Between 63 ft. and 73 ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other 2' Tail

9. STATIC WATER LEVEL: 49 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
60 ft. After _____ hrs. Pumping at 15-20 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 63 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 2 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 20+ ft. Direction N
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number J2 HP _____ Volts _____
Length of Drop Pipe 60 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No
Casing Diameter 2 in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☒ Bentonite Chips
No. of Bags 2 Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio, MI 48420
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 2 23 99

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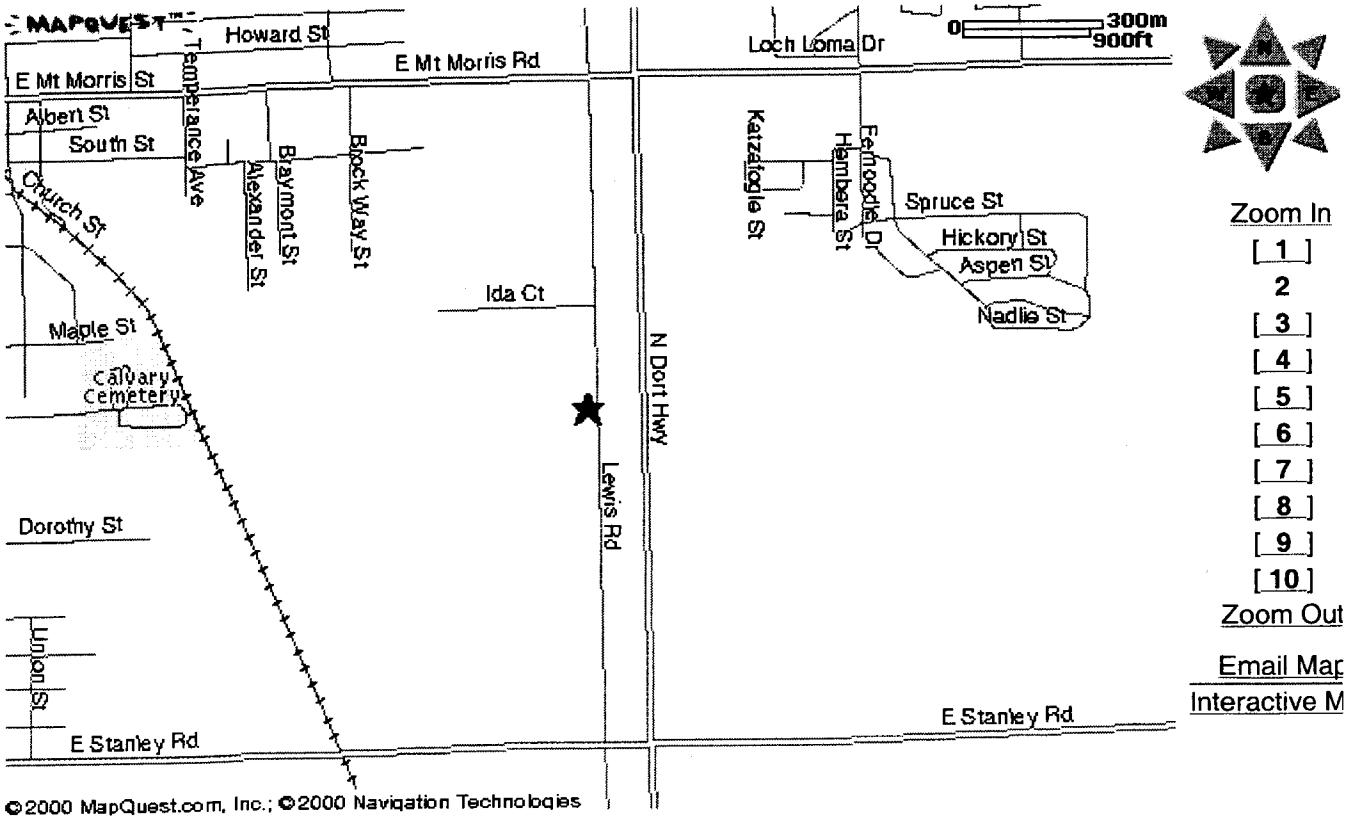
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

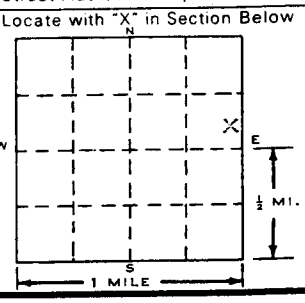
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE¼ SE¼ NE¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: Joseph Duplanty

Address: 7321 Lewis Road 32, Mt. Morris, Mi

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 60 ft. | **Date of Completion** 12-7-87

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter 2 in. to 55 ft. depth; _____ in. to _____ ft. depth; Grouted Drill Hole Diameter _____ in. to _____ ft. depth; _____ in. to _____ ft. depth

☐ Steel ☒ Threaded ☒ Plastic ☐ Welded

Height: Above/Below Surface _____ ft. Weight _____ lbs./ft. Drive Shoe ☐ Yes ☐ No

8 SCREEN: ☐ Not Installed

Type Plastic Diameter 1¼ Slot/Gauze 7 Length 5 Set between 55 ft. and 60 ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☒ Bremer Check ☒ Blank above screen 4 ft. Other _____

9 STATIC WATER LEVEL: 28 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

_____ ft. after _____ hrs. pumping at _____ G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☐ Pitless adapter ☐ 12" above grade ☒ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☒ Not Installed ☐ Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

TYPE: ☐ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	8	8
Blue Clay	47	55
Sand & Gravel	5	60

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling, Inc 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 2-25-88

AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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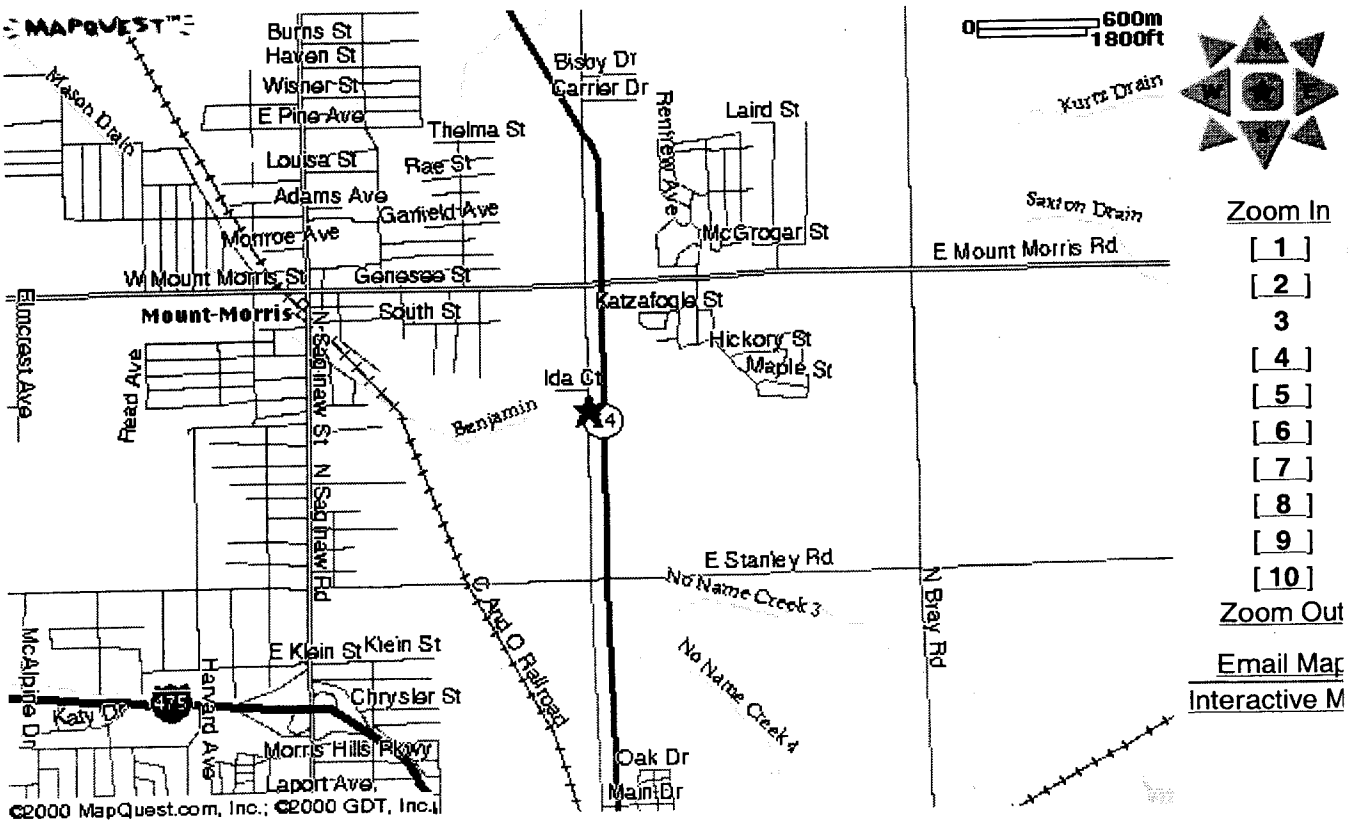
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

GEOLOGICAL SURVEY NO. [ ]

PERMIT NUMBER [ ][ ][ ] [ ][ ] [ ][ ][ ][ ]

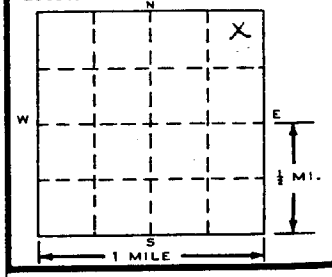
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NW ¼ SE ¼ NW ¼	7	3 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: Larry Duplanty 133
7333 Lewis Rd
Mt. Morris Mi

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 322 FT. Date Completed MO. 7 DAY 28 YEAR 88 [X] New Well [ ] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded
5 in. to 248 ft. depth
____ in. to ____ ft. depth
Grouted Drill Hole Diameter
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe [ ] Yes [ ] No

8 SCREEN: [ ] Not Installed
Type ____ Diameter ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL: 135 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
220 ft. after 1 hrs. pumping at 20 G.P.M.
____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 245 to 12 ft.
[ ] Neat cement [X] Bentonite [X] Other clay
No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination
Type ____ Distance ____ ft. Direction ____
Well disinfected upon completion? [X] Yes [ ] No
Was old well plugged? [ ] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name F&W
Model number ____ HP 1 Volts 220
Length of Drop Pipe 220 ft. capacity 20 G.P.M.
TYPE: [X] Submersible [ ] Jet ____
PRESSURE TANK:
Manufacturer's name Well X-trol
Model number WX 203 Capacity 60 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Blue Clay	90	100
Sand & Gravel	15	115
Blue Clay	120	235
lue Clay & Stone	10	245
Limestone	20	265
Sandstone	210	285
Sandstone & Limestone	37	322

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

.. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert O Dekoski Date 11-30-88
AUTHORIZED REPRESENTATIVE

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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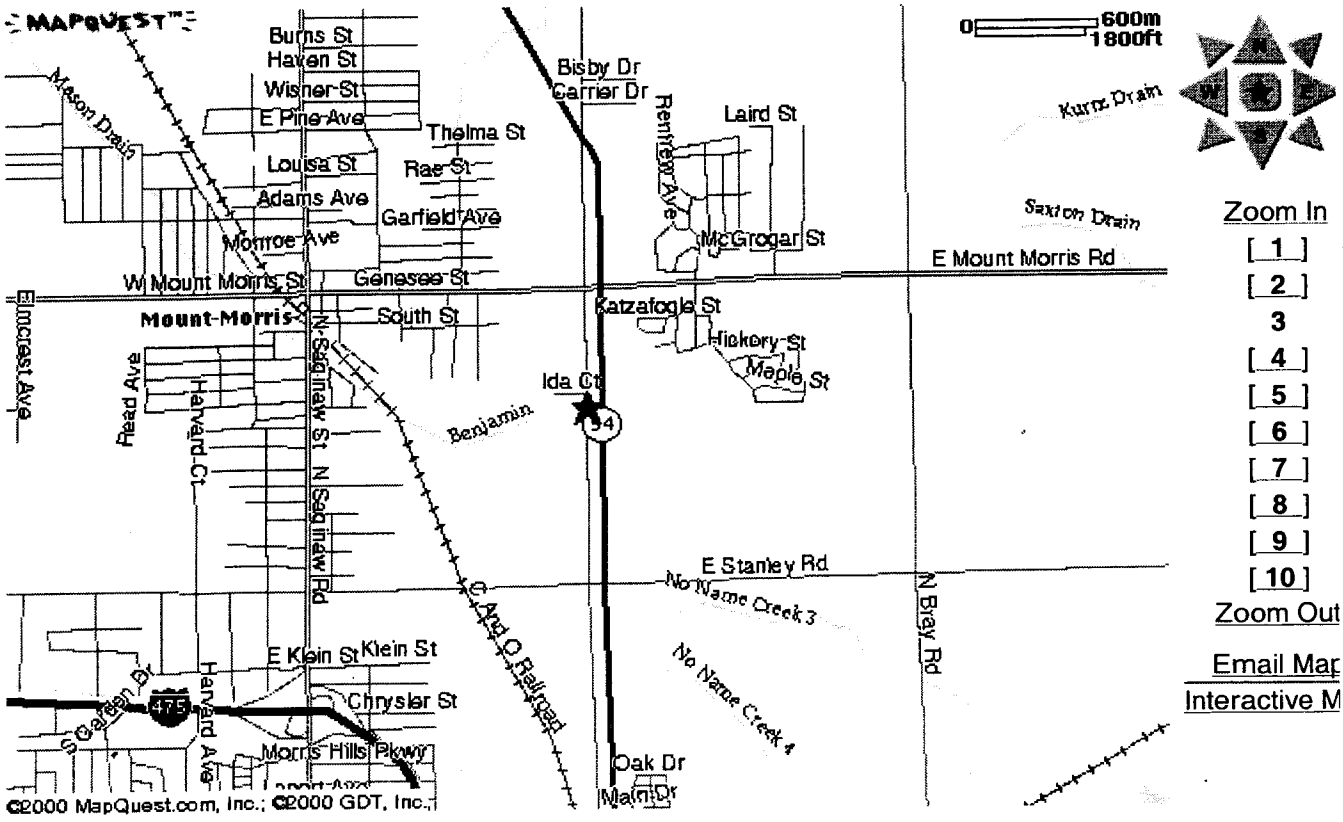
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

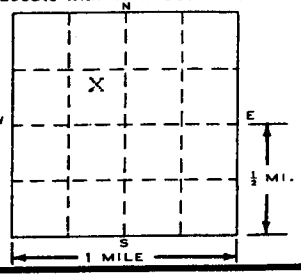
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE ¼ SE ¼ NW ¼	7	8 N/S	7 E/W

ance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Bob Arndt 24

Address 7359 Lewis Road
Mt. Morris, Mi

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

328 FT.

Date Completed MO. 7 DAY 30 YEAR 88

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded

5 in. to 258 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand		
Blue Clay		
Sand		
Blue Clay		
lue Clay & Stone		
Limestone		
Sandstone & Limestone		

USE A 2ND SHEET IF NEEDED

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

125 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

220 ft. after 1 hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 255 to 10 ft.

☐ Neat cement ☒ Bentonite ☒ Other clay

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name F&W

Model number _____ HP 1 Volts 220

Length of Drop Pipe 220 ft. capacity 25 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-trol

Model number WX203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 11-30-88
AUTHORIZED REPRESENTATIVE

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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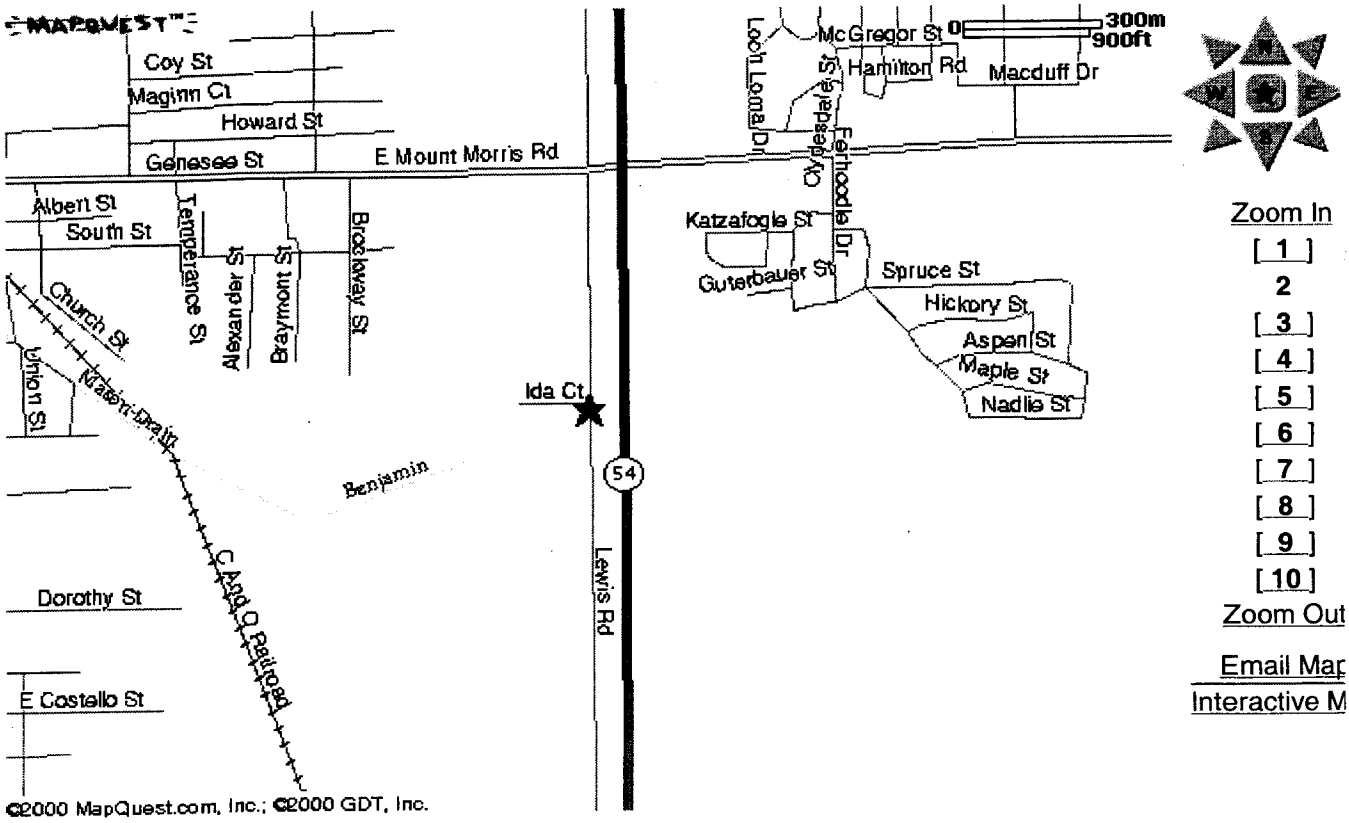
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DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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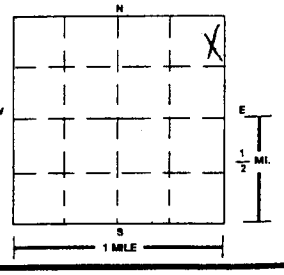
PERMIT NO:

1. LOCATION OF WELL

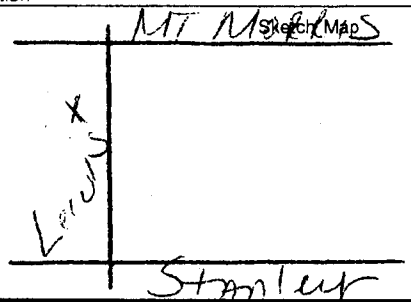
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SE 1/4 NE 1/4 NE 1/4	7	8	7

Distance and Direction from Road Intersection
Between: Mt. Morris and Stanley Rd.
OFF: Lewis Rd.
7373 Lewis Rd. 135
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Eddie Handeland
548 Dover Ct.
Mt. Morris, MI 48458
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 300 ft. | Date Completed 07/31/98 | ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 265 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 265 ft. depth
4.5 in. to 300 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer
SHALE BOOT

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	53	53
Medium Gravel	19	72
Clay and Medium Gravel	38	110
Gummy Clay	5	115
Clay and Gravel	15	130
Clay	50	180
Clay and Medium Gravel	40	220
Gummy Clay	30	250
Sandstone	50	300

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
117 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
280 ft. After 2 hrs. Pumping at 15 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 265 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 13 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type sewer Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 75SESW1-12BC HP .75 Volts 220
Length of Drop Pipe 200 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 66 Capacity 20 Gallons 5.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name DAN WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 08/05/1998
AUTHORIZED REPRESENTATIVE

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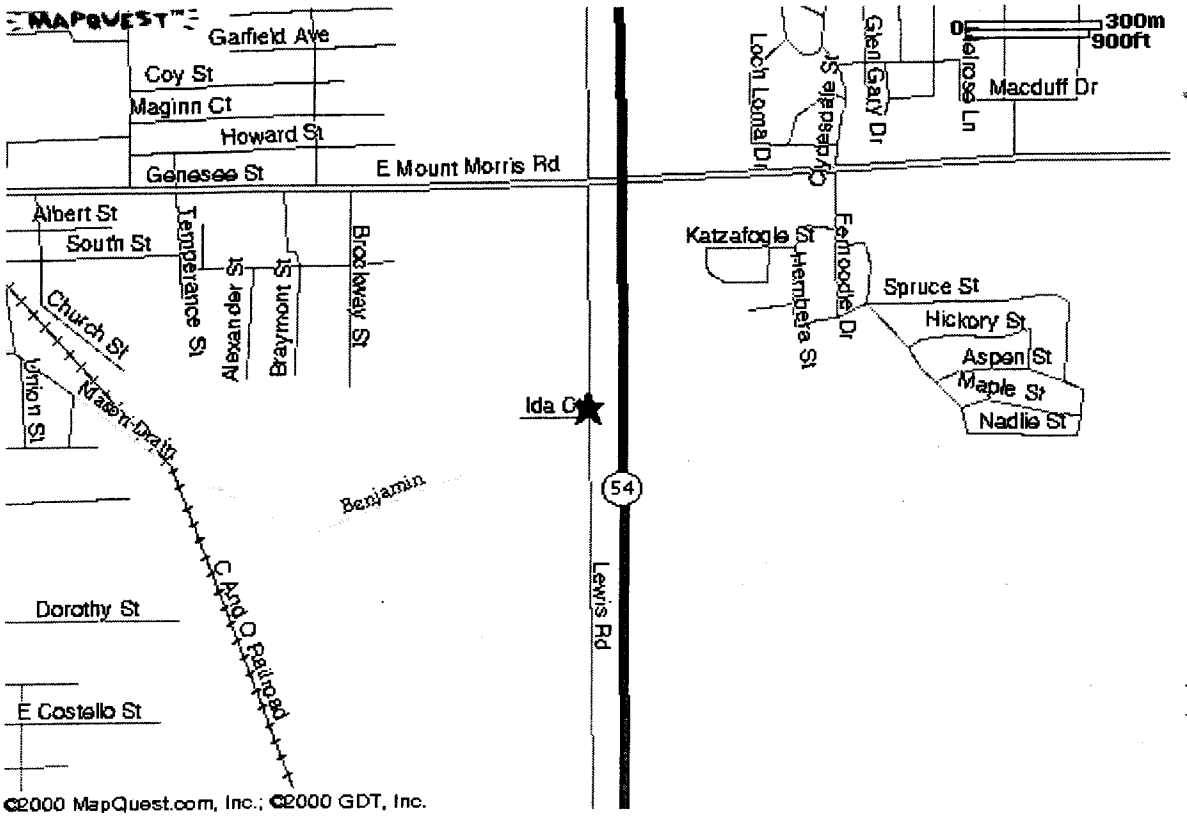
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7373 Lewis Road, Mount Morris, MI 48458-2255 135

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GEOLOGICA SURVEY SAMPLE No.

JUN 01 1979

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

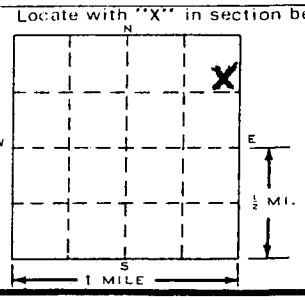
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE¼ NE¼ NE¼	7	6 (N) S.	7 (E) W.

Distance And Direction from Road Intersections: 100 yd S of dodge. E Side of Lewis Rd.

Street address & City of Well Location: 9468 Lewis Rd.

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL: Joe Abraham 136

Address: 9468 Lewis

4 WELL DEPTH: (completed) 41 ft. — Date of Completion: 3-4-79

5 [X] Cable tool [ ] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ] ____

6 USE: [X] Domestic [ ] Public Supply [ ] Industry [ ] Irrigation [ ] Air Conditioning [ ] Commercial [ ] Test Well [ ] ____

7 CASING: Threaded [X] Welded [ ] Diam. 2 in. to 38 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft. Weight ____ lbs./ft. Drive Shoe? Yes [X] No [ ]

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	20	20
Clay + gravel	10	30
Sand (course)	11	41

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: Stainless Dia.: ____ Slot/Gauze 10 Slot Length ____ Set between 38 ft. and 41 ft.

Fittings: drop Check

9 STATIC WATER LEVEL 15 ft. below land surface

10 PUMPING LEVEL below land surface 21 ft. after 2 hrs. pumping 8 g.p.m.; ____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ____ Chlorides (Cl) ____ Hardness ____ Other ____

12 WELL HEAD COMPLETION: [ ] In Approved Pit [X] Pitless Adapter [ ] 12" Above Grade

13 Well Grouted? [X] Yes [ ] No [ ] Neat Cement [X] Bentonite [ ] ____ Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination: 75 feet E Direction Septic Type

Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [ ] Not installed

Manufacturer's Name Rapidaton

Model Number 5E1 HP ½ Volts 115

Length of Drop Pipe 32 ft. capacity 8 G.P.M.

Type: [ ] Submersible [X] Jet [ ] Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY OMLID, ITEM #10
*CORRECTED BY
**ADDITION BY
LOCATION
LOG TO BOX

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Keith Deans Well Drilling — REGISTERED BUSINESS NAME — 1161 REGISTRATION NO.

Address 5009 Islandview

Signed Keith Deans — AUTHORIZED REPRESENTATIVE — Date 3-6-79

D67d 100M (Rev. 12-68)

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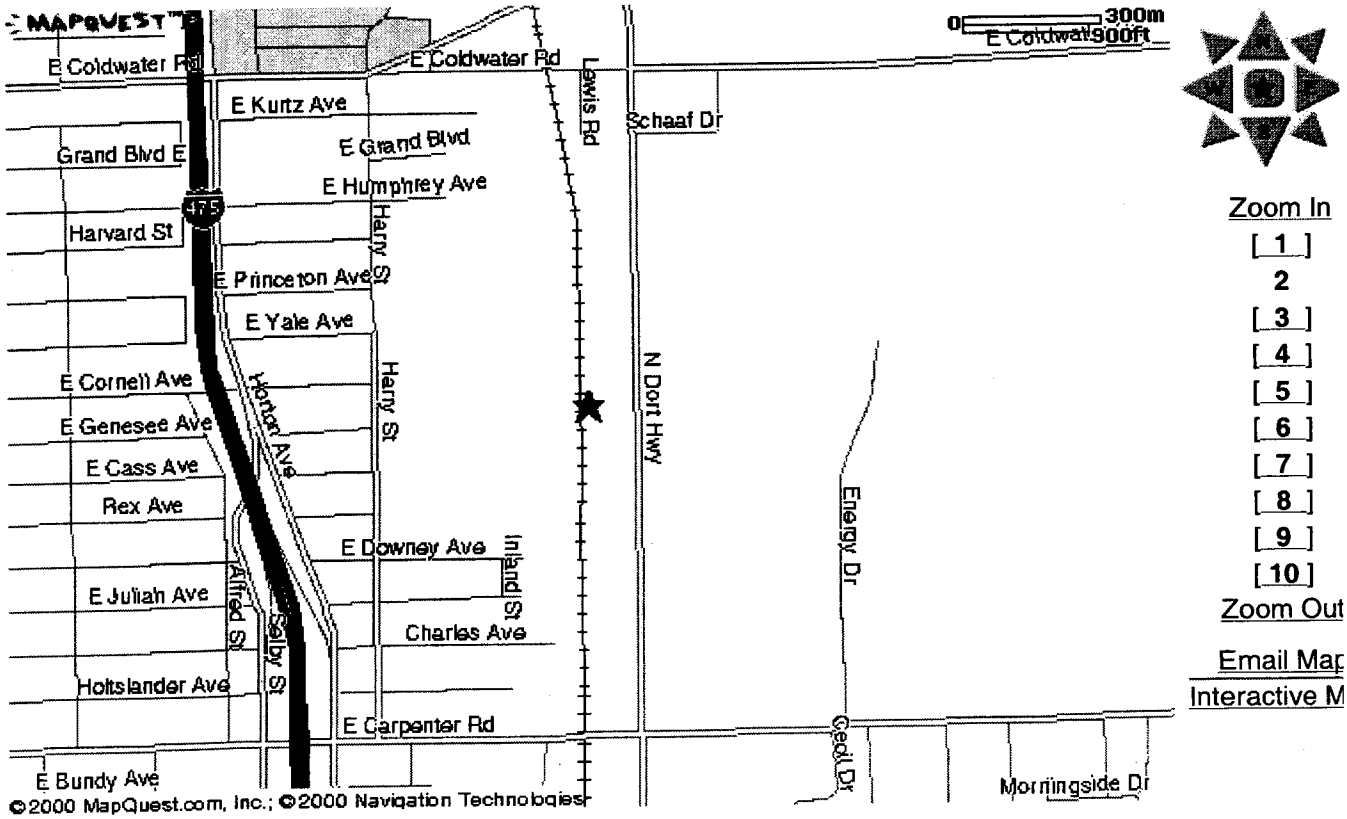
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★ **9468 Lewis Road, Flint, MI 48505** 136

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(C) Water Well
18-8N-7E TD 396 in Marshall
Genesee Twp., (Genesee County)
Approx. Columbia Elevation 137

Location: One mile north of McGrew station near Flint, Michigan.
SE¼ SE¼ SE¼ section 18, T. 8 N., R. 7 E.
300 ft. from south and 500 ft. from east line of quarter section.

Elevation: 778 feet above sea level.

Log furnished by Wm. E. Caster, 609 Madison Street, Saginaw. Interpretation by R. A. Smith and R. B. Newcombe.

Well drilled for Pere Marquette Railroad.

	Thickness (feet)	Depth (feet)
PLEISTOCENE:		
Clay	30	30
Gravel	10	40
Hardpan	50	90
	(90)	
PENNSYLVANIAN:		
~~MISSISSIPPIAN:~~		
Saginaw:		
Sand and gravel	30	120
Hardpan and gravel	57	177
	(87)	
MISSISSIPPIAN:		
Bayport (?):		
Lime	7	184
	(7)	
Michigan:		
Green shale	30	214
White sand rock	5	219
Sand rock with blue lime streaks	5	224
Green shale	5	229
Dark sandy shale	36	265
Lime (very hard)	6	271
Light sandy shale	10	281
Dark shale with dark lime streaks	3	284
Sandy shale	21	305
Sand rock	6	311
Lime	2	313
Sandy shale	6	319
Lime	1	320
Light sandy shale	10	330
	(146)	
Marshall:		
Sand rock	65	395
Sandy shale	1	396
	(66+)	
TOTAL DEPTH		396

178
90
688

GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

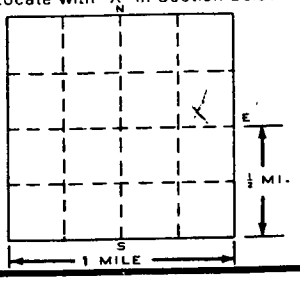
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	1/4 1/4 1/4	12	8 N/S	6 E/W

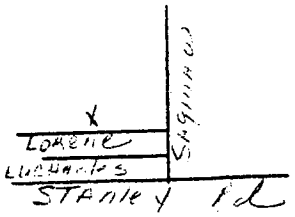
Distance And Direction From Road Intersection
Between Mt. Morris Rd. & Stanley Rd. W side
2 Blocks N of Stanley Rd.

Street Address & City of Well Location 1022 Lorene Mt. Morris

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

John T. Smith
Address 1022 Lorene
Mt. Morris, MI

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed)

222 ft.

Date of Completion: Feb. 26, 1985

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 145 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 145 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft. SDR 21
Drive Shoe [ ] Yes [ ] No Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Blue Clay	20'	20'
Fine Sand	10'	30'
Blue Clay	10'	40'
Sand & Gravel	50'	90'
Clay & Gravel	45'	135'
Blue Shale	5'	140'
Gray Sandstone	60'	200'
Limestone	10'	210'
Gray Sandstone	12'	222'
USE A 2ND SHEET IF NEEDED		

8 SCREEN:

[ ] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

95 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

160 ft. after 2 hrs. pumping at 43 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 145 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. sewers Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Tait
Model number 7DL210S HP 3/4 Volts 230
Length of Drop Pipe 140 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name Homeowners tank
Model number _____ Capacity _____ Gallons

RECEIVED
Mich. Dept. of Public Health
JUN 4 1985
Bureau of Environmental and Occupational Health

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort Hwy. Mt. Morris, MI
Signed Gary W Price Date Feb. 26, 1985
AUTHORIZED REPRESENTATIVE

D67d 2/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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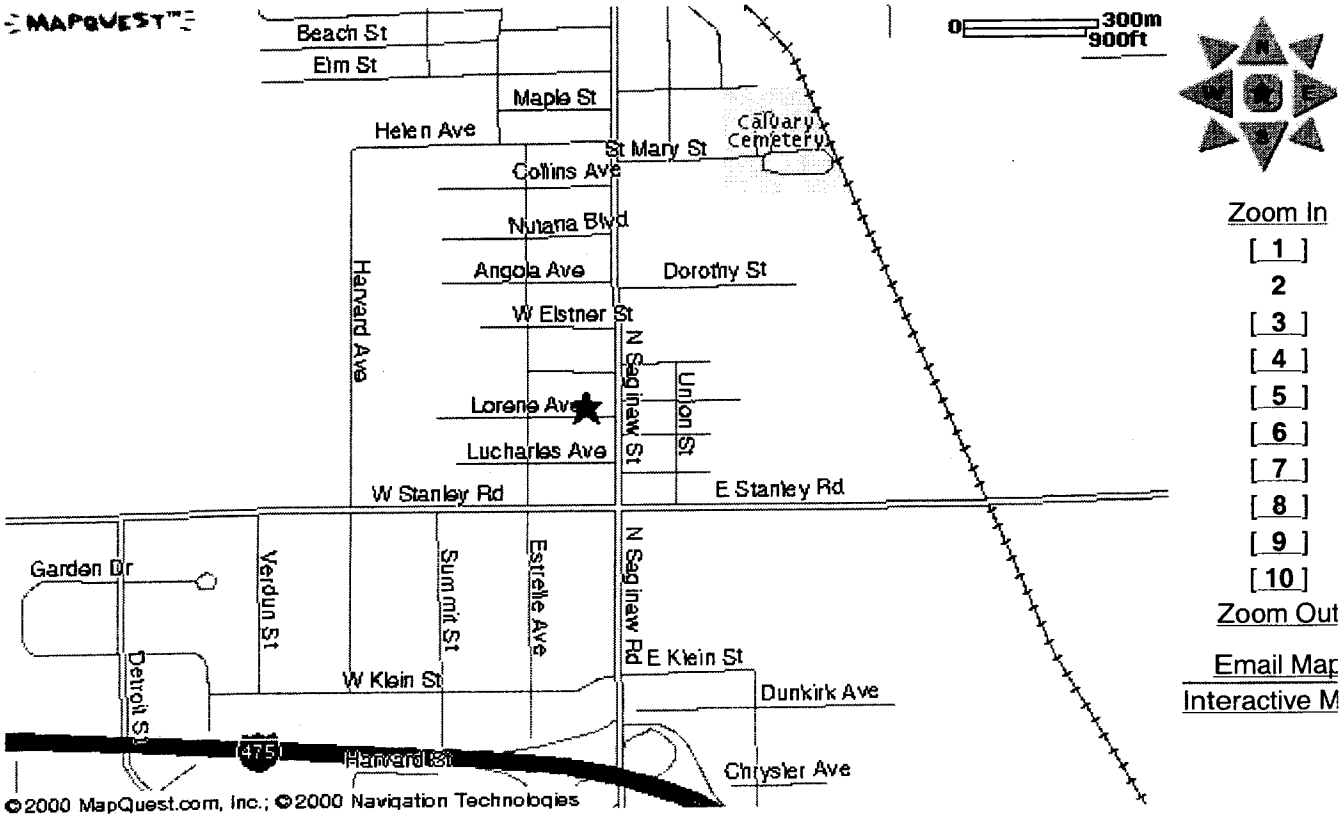
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GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

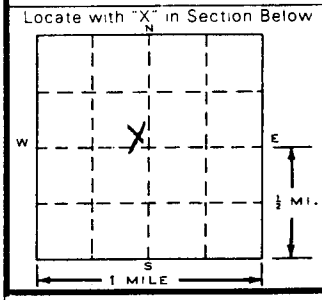
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ ¼	12	8 (N)S	6 (E)W

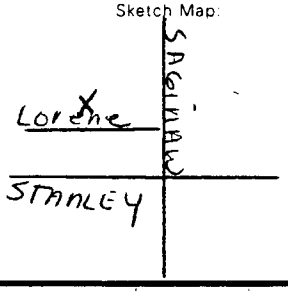
Distance And Direction From Road Intersection
¼mi. N. of Stanley
1 blk. W. of Saginaw N. Side

Street Address & City of Well Location 1028 Lorene Mt. Morris

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Albert Gowin 139
Address 1028 Lorene
Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

220 ft.

Date of Completion: March 12. 1986

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter [ ] Steel [ ] Threaded
[X] Plastic [ ] Welded

5 in. to 145 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
8 in. to 145 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Sdr 21
Drive Shoe [ ] Yes [ ] No
Shale Boot

8 SCREEN

[ ] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

90 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

170 ft. after 1 hrs. pumping at 33 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	35'	35'
Sand and Gravel	20'	55'
Clay	55'	110'
Soft Black Shale	30'	140'
Hard Black Shale	12'	152'
White Sandstone	44'	196'
Limestone	24'	220'

USE A 2ND SHEET IF NEEDED

11 WELL HEAD COMPLETION

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 1 to 145 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Tait
Model number 7DL210S HP 3/4 Volts 230
Length of Drop Pipe 120 ft. capacity 10 G.P.M.
TYPE [X] Submersible [ ] Jet _____
PRESSURE TANK
Manufacturer's name Well X-Trol
Model number 202 Capacity 20 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort. Hwy. Mt. Morris, MI. +84

Signed _____ Date 3--14-86
AUTHORIZED REPRESENTATIVE

D67d (Rev. 10-80)

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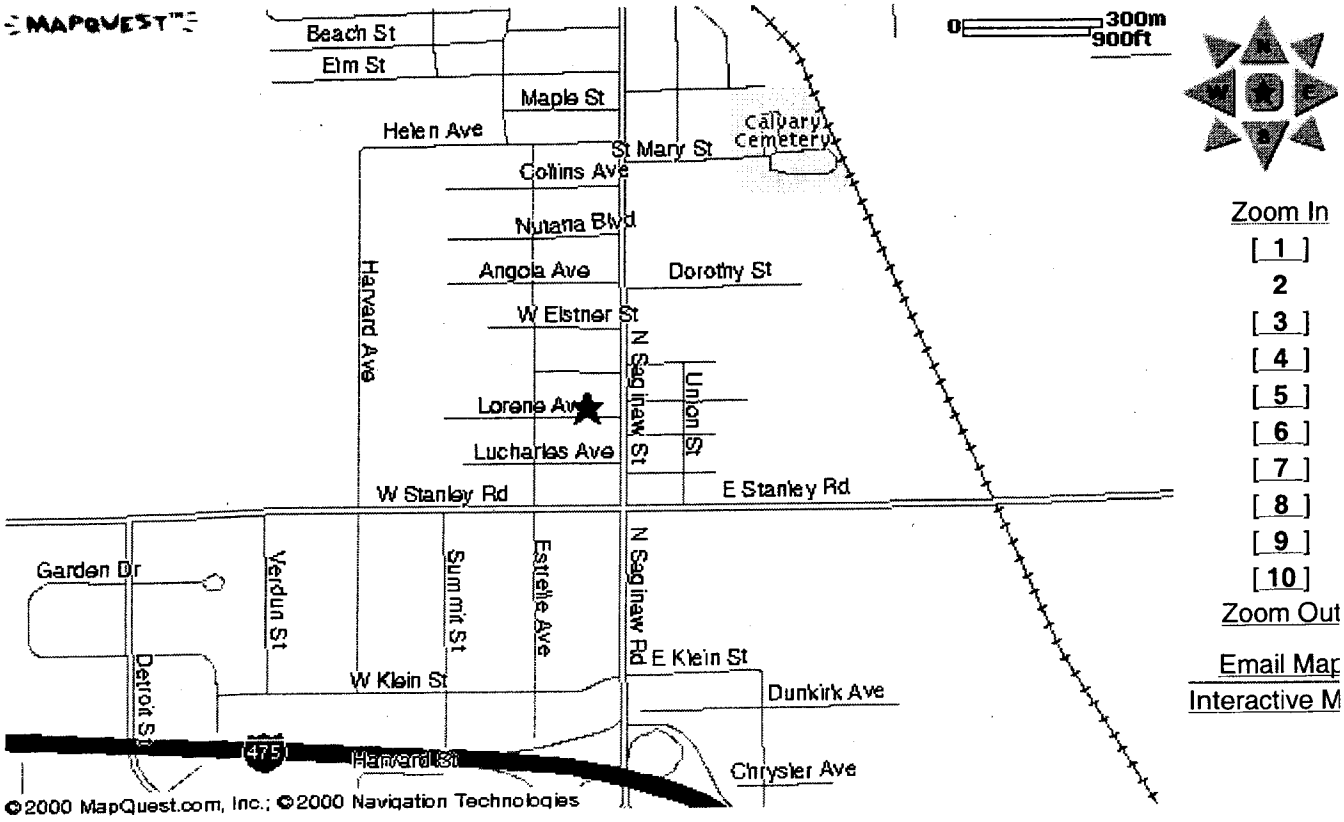
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GEOLOGICAL SURVEY NO AUG 22 1983

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

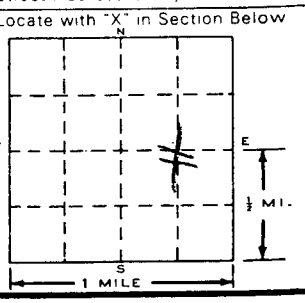
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	1/4 SE 1/4 SE 1/4	12	9 N	6 E

Distance And Direction From Road Intersection

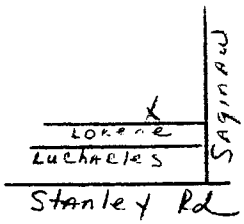
W off Saginaw Rd.
N of Stanley Rd. N side

Street Address & City of Well Location 1038 Lorene Mt. Morris

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

Anita Severn 140
Address 1038 Lorene
Mt. Morris, MI

Address Same As Well Location? [x] Yes [ ] No

4 WELL DEPTH (completed)

242 ft.

Date of Completion: July 13, 1983

5

[ ] Cable tool [x] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[x] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter [ ] Steel [ ] Threaded [x] Plastic [ ] Welded

5 in. to 140 ft. depth
8 in. to 140 ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface 1 ft.
Weight SDR 21 lbs /ft.
Drive Shoe [ ] Yes [ ] No
Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	10'	10'
Blue Clay	20'	30'
Clay & Gravel	100'	130'
Blue Shale	5'	135'
Gray Sandstone	45'	180'
Limestone & Sandstone mixed	62'	242'

USE A 2ND SHEET IF NEEDED

8 SCREEN

[ ] Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

96 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

240 ft. after 2 hrs. pumping at 30 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[x] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [x] Yes From 1 to 140 ft.
[ ] Neat cement [x] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. sewers Distance _____ ft. Direction _____
Well disinfected upon completion? [x] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name F & W
Model number 4F10B07-305 HP 3/4 Volts 230
Length of Drop Pipe 140 ft. capacity 10 G.P.M.
TYPE [x] Submersible [ ] Jet
PRESSURE TANK
Manufacturer's name XX-trol
Model number 202 Capacity 20.0 Gallons

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Mich. Dept. of Public Health
AUG 1 1983
Environmental and Occupational Health
Services Administration

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY,
**ADDITION BY,
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl Lyons (AUTHORIZED REPRESENTATIVE) Date July 18, 1983

D67d (Rev. 10-80)

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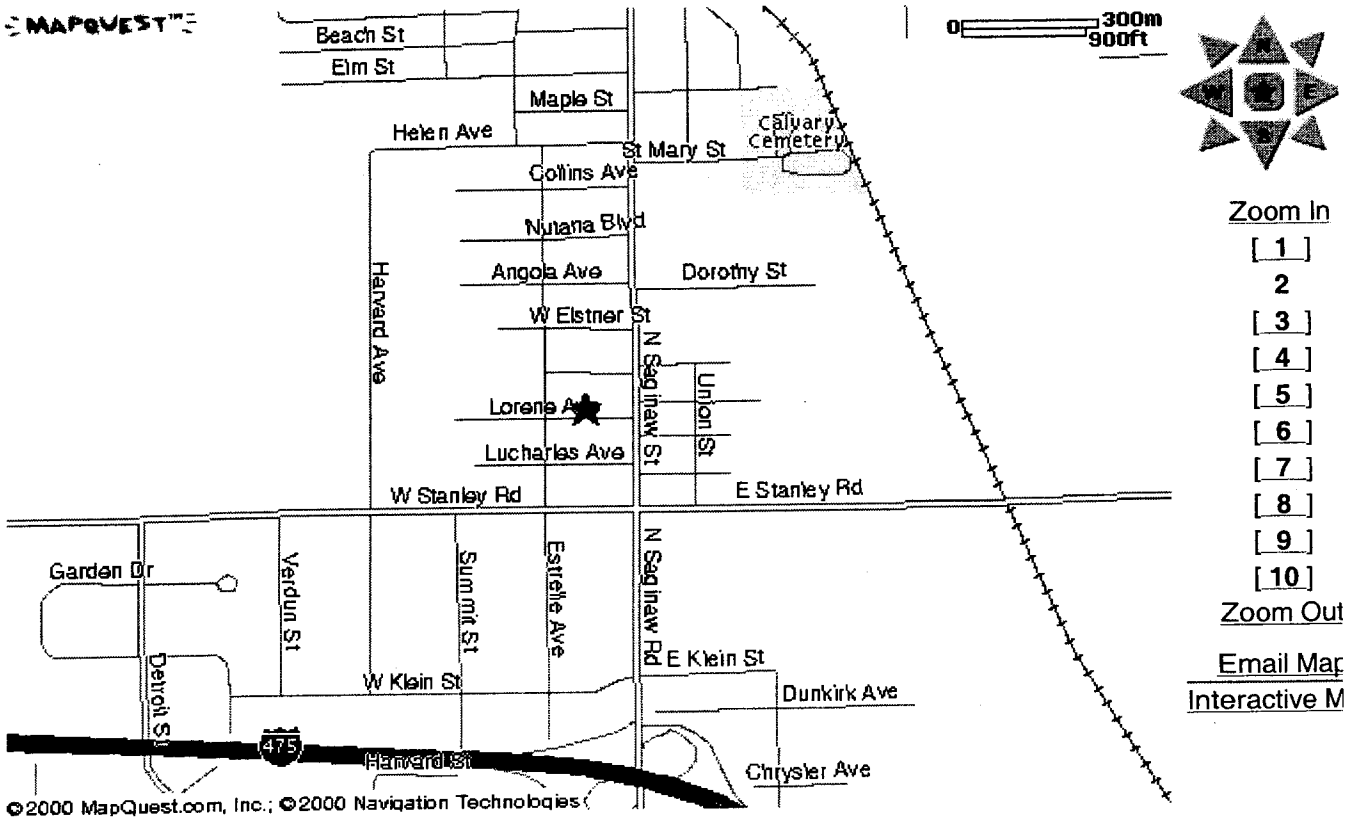
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1038 Lorene, Mount Morris, MI 48458-2124 140

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

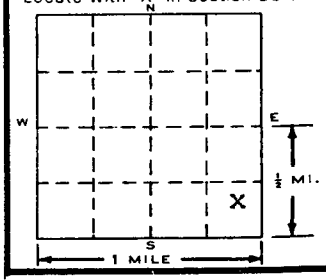
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mount Morris	SE ¼ SE ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

141

Mr. Sampson
Address 1045 Lorene St
Mt. Morris, Mi

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed)

202 ft.

Date of Completion: 7-28-86

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter 5 ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

140 in. to _____ ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay		
Blue Clay		
Sand		
Blue Clay		
Blue Clay & Stones		
Sandstone		
Shale		
Sandstone & Limestone		

RECEIVED
Mich. Dept. of Public Health
AUG 19 1986
Bureau of Environmental and Occupational Health - GWOS

USE A 2ND SHEET IF NEEDED

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

82 ft. below land surface ☐ Flo

10 PUMPING LEVEL: below land surface

140 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 140 to 35 ft.

☐ Neat cement ☒ Bentonite ☒ Other Clays
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Flint & Walling
Model number _____ HP 3/4 Volts 220
Length of Drop Pipe 132 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet
PRESSURE TANK:
Manufacturer's name Well X-Trol
Model number WX 203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 7151 Paul St Mt. Morris, Mi

Signed Robert J Dekoski — Date 8-15-86
AUTHORIZED REPRESENTATIVE

D67d 2/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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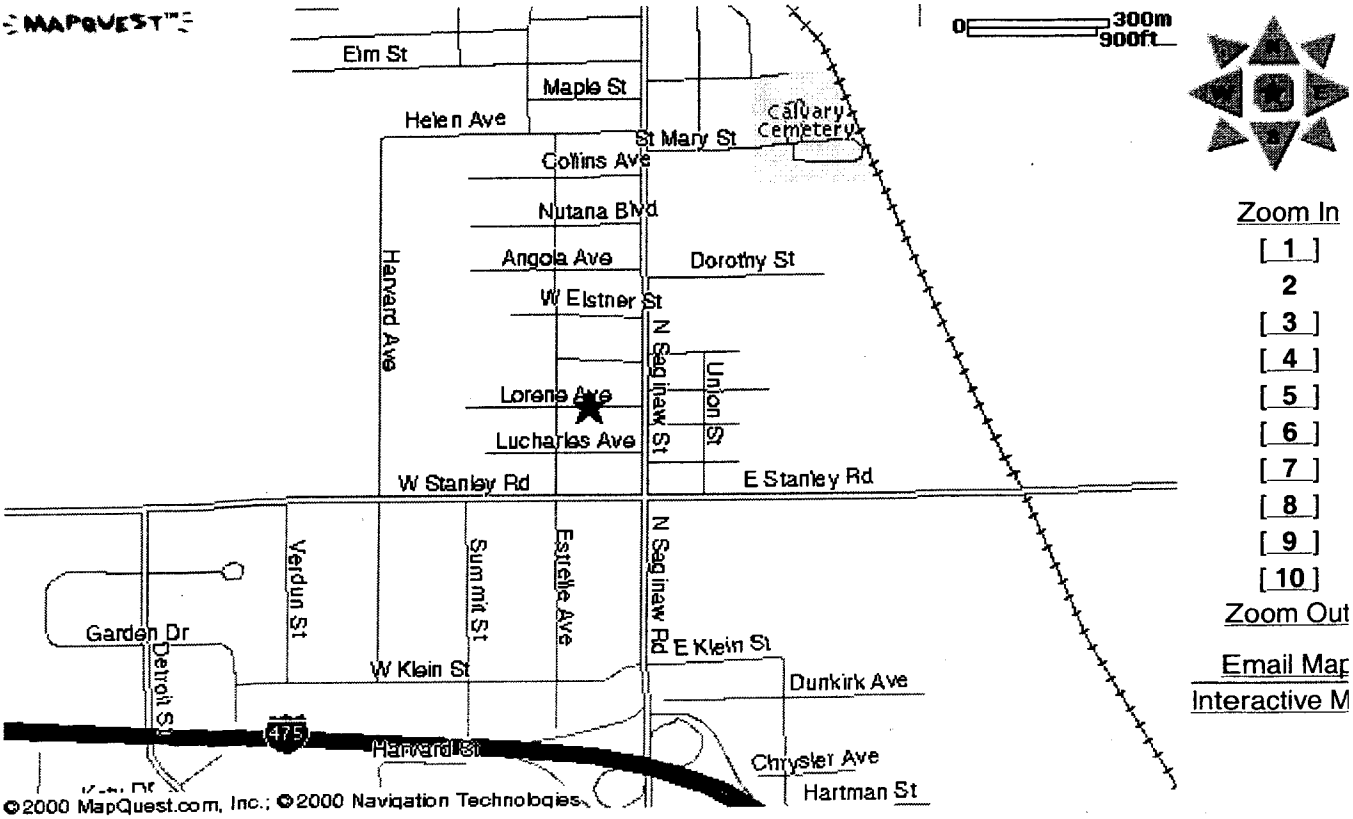
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★ **1045 Lorene Street, Mount Morris, MI 48458-2111** 141

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

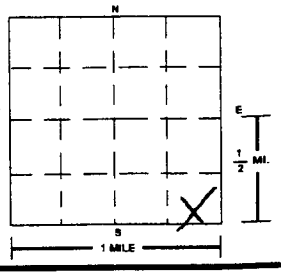
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 SE 1/4 SE 1/4	12	8 N	6 E

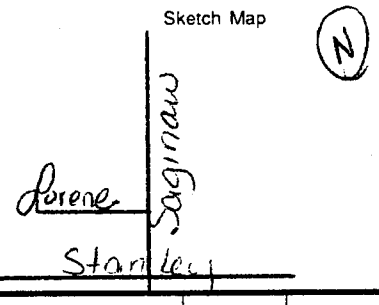
Distance and Direction from Road Intersection
North of ~~Frances~~ Stanley, West off Saginaw

Street Address & City of Well Location 1083 Lorene

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Thelma Kelly 142
Address 1083 Lorene
Mt Morris MI

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 205 ft. | Date Completed 1 / 21 / 99 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded
☐ Other _____
Diameter: 5 in. to 145 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 145 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe
☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
85 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
205 ft. After _____ hrs. Pumping at 20-25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 145 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 15+ ft. Direction E
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 120 ft. Capacity _____ G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	135	135
sandstone, shale, limestone	70	205

USE A 2ND SHEET IF NEEDED

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
MAR 25 1999
Drinking Water & Radiological Protection Division
Community Water Supply Section
WELL CONSTRUCTION UNIT

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No buried
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Lines for old well run under cement drive. Owner will plug well when she replaces drive.

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio MI 48420
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 3 23 99

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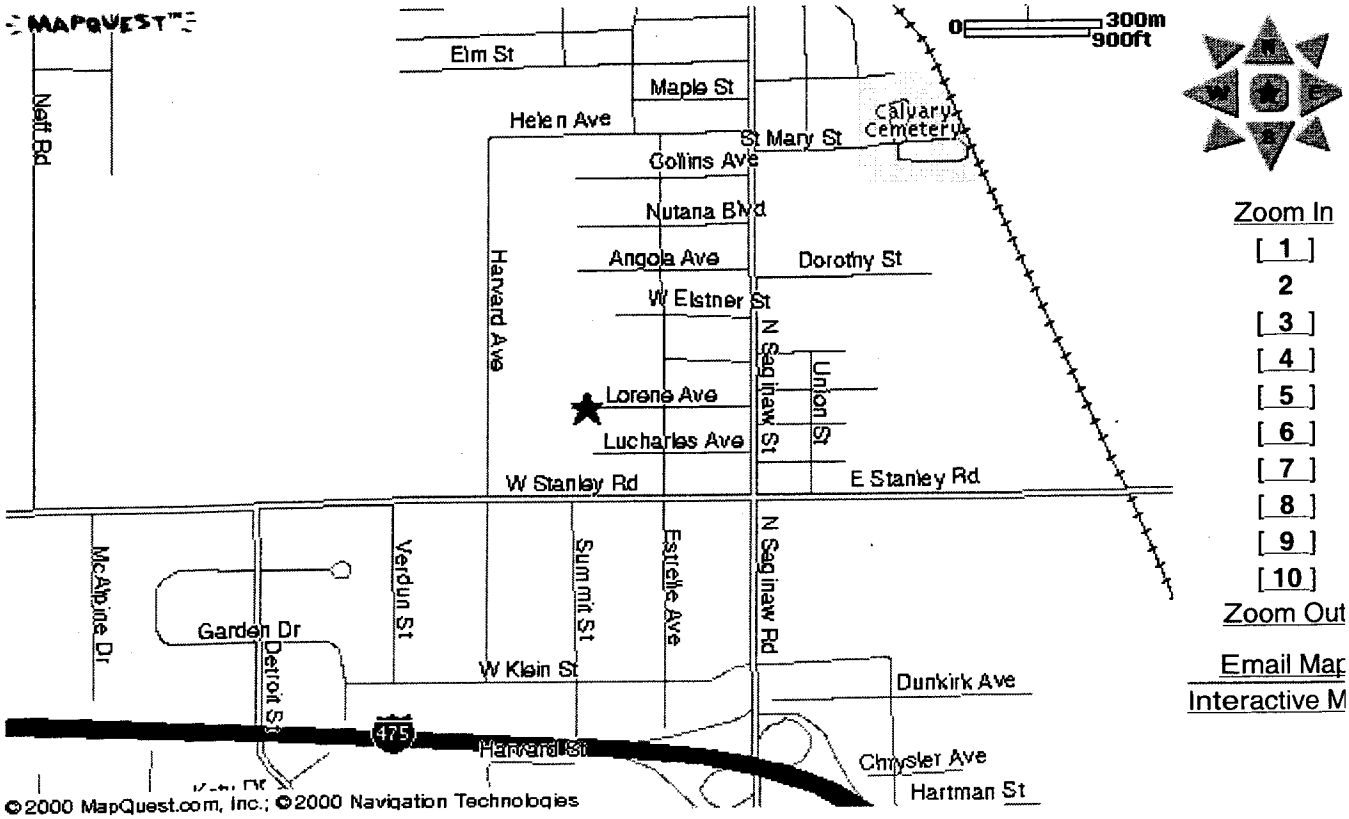
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★ **1083 Lorene, Mount Morris, MI 48458-2112** 142

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GEOLOGICAL SURVEY SAMPLE No. [ ]

JUN 13 1990

WATER WELL RECORD
ACT 294 PA 1965

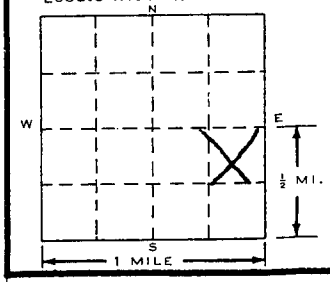
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	MT. Morris	¼ ¼ ¼	12	T8 N/S.	R6 E/W

Distance And Direction from Road Intersections
1/4 mile N. E of Stanley & Saginaw
Street address & City of Well Location
1093 Sorene Mt Morris 143

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL:
Jim Nichles
Address 1015 Potts RD Fenton

4 WELL DEPTH: (completed) Date of Completion
200 ft. 11-3-79

5
☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☑ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☑ Welded ☐
Diam. 4 in. to 150 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☑ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
yellow clay	15'	15'
blue clay	60'	75'
gravely clay	40'	115'
sandy clay	30'	145'
shale	5'	150'
sandstone	50'	200'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
90 ft. below land surface

10 PUMPING LEVEL below land surface
120 ft. after 2 hrs. pumping 10 g.p.m
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☑ Pitless Adapter ☐ 12" Above Grade

13
Well Grouted? ☑ Yes ☐ No
☐ Neat Cement ☑ Bentonite ☐ ____
Depth: From 0 ft. to 150 ft.

14 Nearest Source of possible contamination
20 feet E Direction Sewer Type
Well disinfected upon completion ☑ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name tait
Model Number 5ST25 HP ½ Volts 230
Length of Drop Pipe 126 ft. capacity 7 G.P.M.
Type: ☑ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER. ITEM NO
*CORRECTED BY
**ADDITION B
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Ron Blent Well Drilling 1531
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 3477 Ridgecliff
Signed Ron Blent Date 11-13-79
AUTHORIZED REPRESENTATIVE

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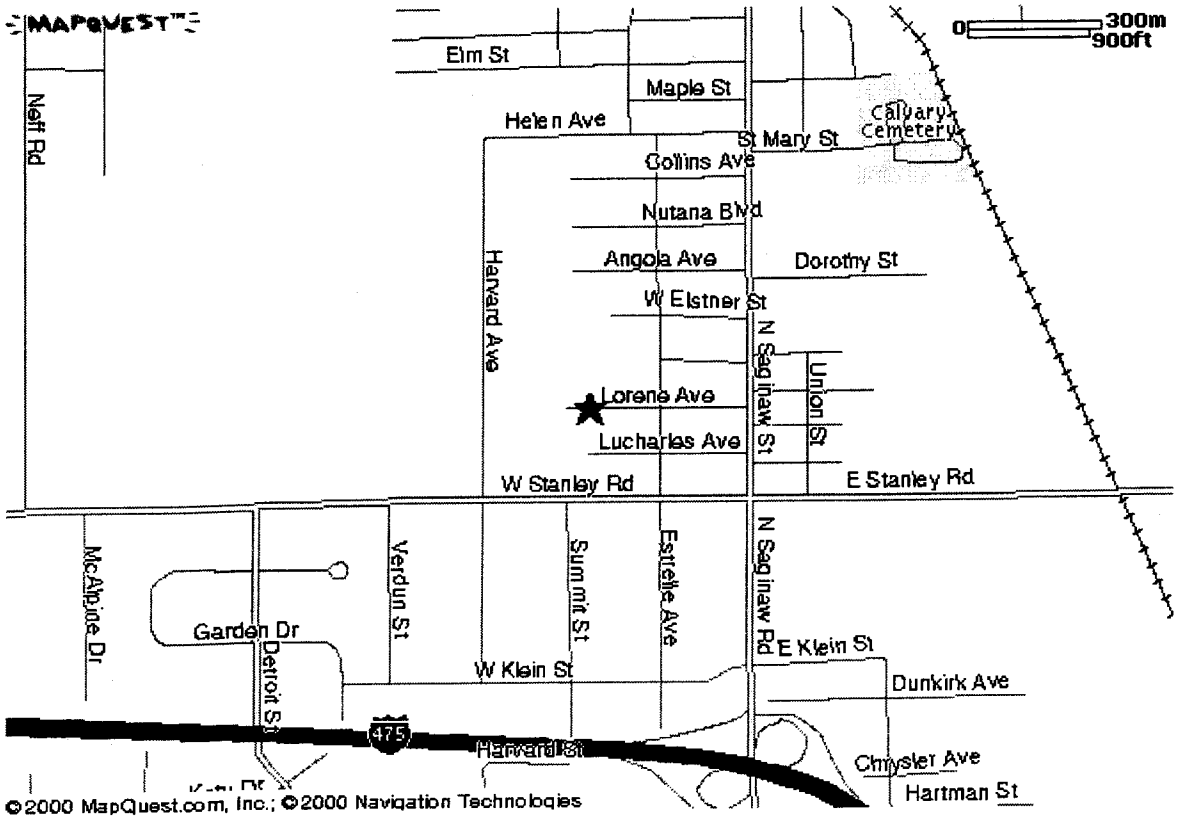
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GEOLOGICAL SURVEY FEB 13 1984

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

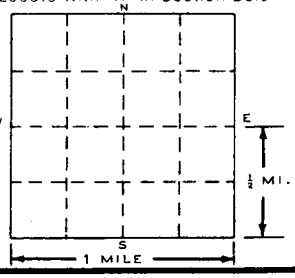
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ SE ¼ SE ¼	12	8 N	6 E

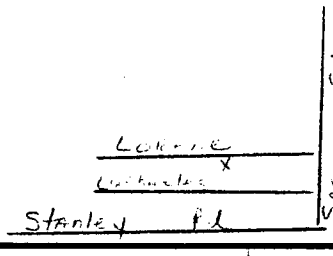
Distance And Direction From Road Intersection
N of Stanley Rd.
W off Saginaw Rd. S side

Street Address & City of Well Location 1097 Lorene Mt. Morris

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

Donald A. Hart
Address 1097 Lorene
Mt. Morris, MI

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH (completed) 202 ft. **Date of Completion** Oct. 17, 1983

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 155 ft. depth
_____ in. to _____ ft. depth
Grouted/Drill Hole Diameter
7 7/8 in. to 155 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface 1 ft.
Weight SDR 21 lbs./ft.
Drive Shoe ☐ Yes ☒ Shale Boot

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Blue Clay	40'	40'
Sand	15'	55'
Clay & Gravel	75'	130'
Blue Clay	25'	155'
Gray Sandstone	47'	202'

8 SCREEN ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL
95 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
198 ft. after 2 hrs. pumping at 33 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 155 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type San. sewer Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Flint & Walling
Model number 4F10B07-305 HP 3/4 Volts 230
Length of Drop Pipe 140 ft. capacity 10 G.P.M.
TYPE ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name X-trol
Model number 202 Capacity 20.0 Gallons

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
JAN 10 1984
Environmental and Occupational Health Services Administration

15. Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort Hwy. Mt. Morris, MI
Signed Earl F. Lyons AUTHORIZED REPRESENTATIVE Date Oct. 19, 1983

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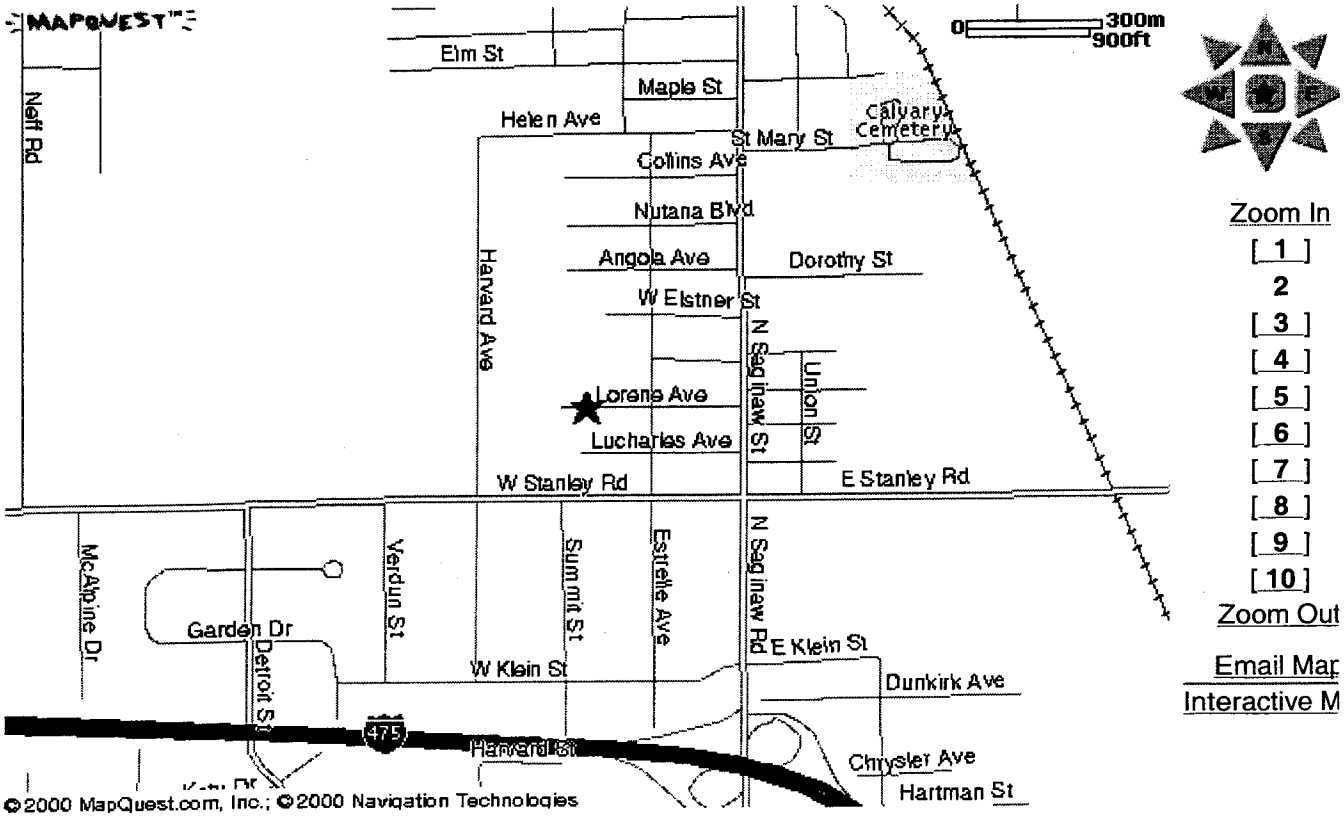
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GEOLOGICAL SURVEY SAMPLE No.

SEP 2 8 1979

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

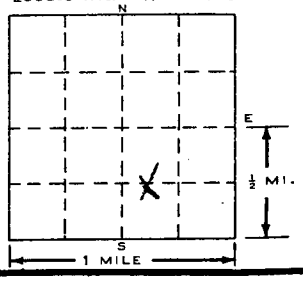
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ SE ¼ SE ¼	12	8 N	6 E

Distance And Direction from Road Intersections

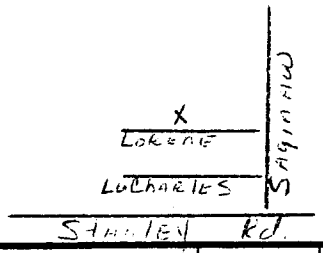
2 blocks N of Stanley Rd. N side
2 blocks W of Saginaw St.

Street address & City of Well Location 1106 Lorene, Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: E.W. NaDell
Address 1106 Lorene
Mt. Morris, MI

4 WELL DEPTH: (completed) 202 ft. Date of Completion Aug. 6, 1979

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐
4 in. to 158 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay & Gravel	60'	60'
Gravel	10'	70'
Clay & Gravel	75'	145'
Blue Shale	13'	158'
Gray Sandstone	32'	190'
Limestone	12'	202'

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
80 ft. below land surface

10 PUMPING LEVEL below land surface
198 ft. after 3 hrs. pumping 20 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 1 ft. to 158 ft.

14 Nearest Source of possible contamination
____ feet ____ Direction sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Goulds
Model Number 7EH05422 HP ½ Volts 220
Length of Drop Pipe 120 ft. capacity 7 G.P.M.
Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Kenneth W. Lyons Date Aug. 7, 1979
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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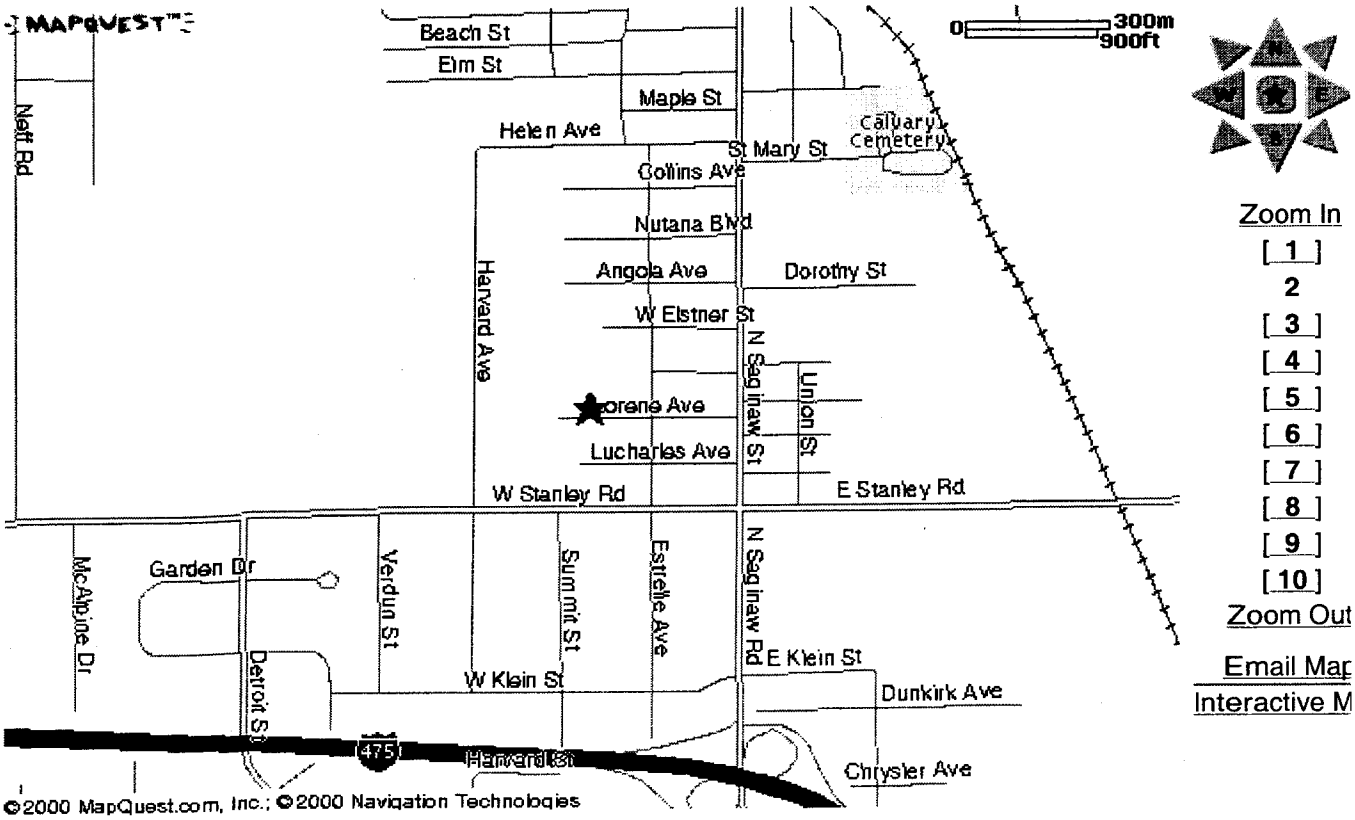
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GEOLOGICAL SURVEY SAMPLE No.

OCT 19 1979

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

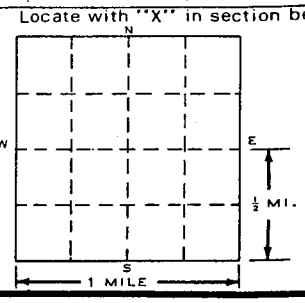
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	t. Morris	¼ ¼ ¼	12	8N/S	6E

Distance And Direction from Road Intersections: Aprrox. 2 blks. W. of Saginaw St. on S.

Street address & City of Well Location: 1111 Lorene

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL:

Address: Uldene Serven 146
1111 Lorene
t. Morris, Michigan

4 WELL DEPTH: (completed) Date of Completion

260 ft. Sept. 15, 1979

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
Diam. 4 in. to 140 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface ____ ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	95	95
Clay w/gravel	10	105
blk. & gray shale	95	200
Sandrock	10	210
Sandrock w/streaks of limestone	50	260

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: none Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
40 ft. below land surface

10 PUMPING LEVEL below land surface
260 ft. after ____ hrs. pumping 20 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
20 feet E Direction Sewer Type
Well disinfected upon completion ☐ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Macdonald
Model Number J2 HP 1/2 Volts 220
Length of Drop Pipe 113 ft. capacity ____ G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Brian Taylor 1500
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 11103 Lewis Rd., Clio

Signed [signature] Date 9-26-79
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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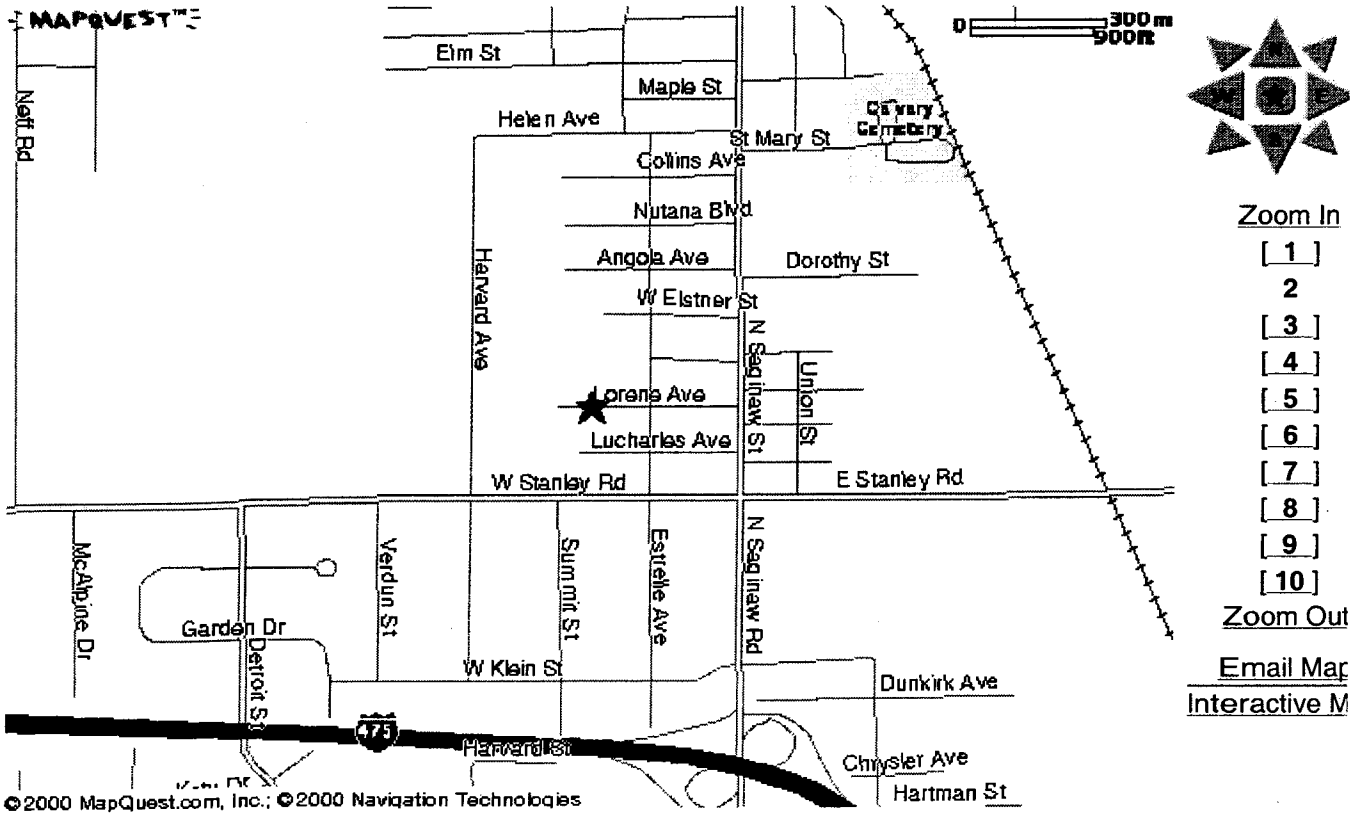
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GEOLOGICAL SURVEY SAMPLE NO.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt. Morris	¼ SE ¼ SE ¼	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections: 3 blocks W. Saginaw Rd.

OWNER No.

Street address & City of Well Location: 1121 Lorene Ave. Mt. Morris (147)

3 OWNER OF WELL: Leonard Caudell

Address: 5470 W. Mt. Morris Rd. Mt. Morris, Michigan

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Blue clay with course gravel	132'	132'
White sand rock	27'	159'
Blue shale	12'	171'
White sand rock	29'	200'

4 WELL DEPTH: (completed) 200 ft. Date of Completion 4/10/68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 132 ft. Depth; Threaded ☒ Welded ☐; ___ in. to ___ ft. Depth

Height: Above/Below surface 1 ft. Weight 4 lbs/ft. Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL 65 ft. below land surface

10 PUMPING LEVEL below land surface 100 ft. after 4 hrs. pumping 10 g.p.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☐ No

Material: ☐ Neat Cement ☐ ___

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination 50 feet NE Direction septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name Flint & Walling

Model Number C6279 HP 1

Length of Drop Pipe 100 ft. capacity 5 G.P.M.

Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

*CORRECTED BY:

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling — REGISTERED BUSINESS NAME

0032 — REGISTRATION NO.

Address 1155 Paul St. Mt. Morris, Mich.

Signed Earl Lyons — AUTHORIZED REPRESENTATIVE

Date 4/18/68

D67D 100M 6-66

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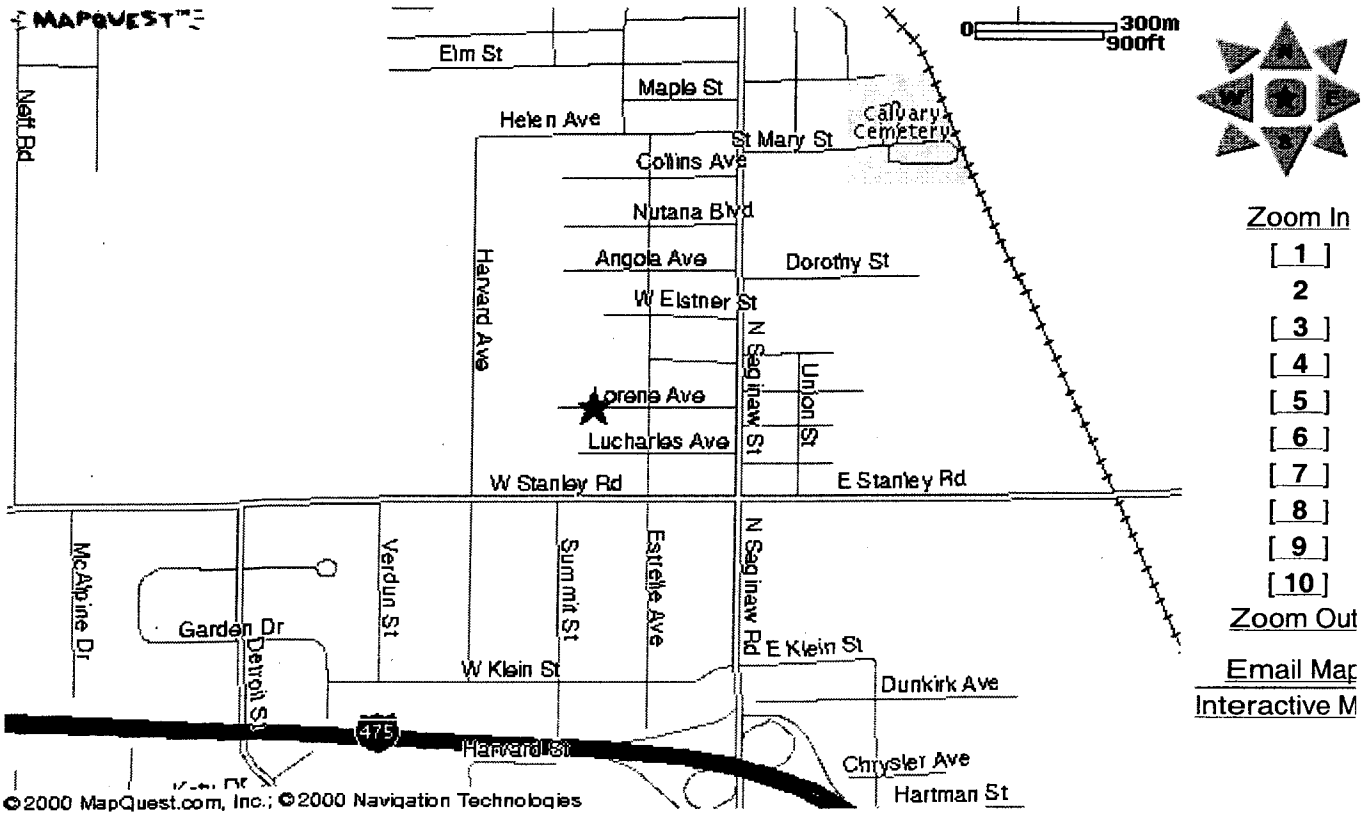
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

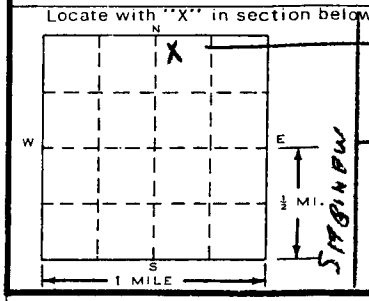
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mount Morris	¼ SW ¼ SE ¼	12	8 N/S.	6

Distance And Direction from Road Intersections: ½ mile W. Saginaw; ½ mile N. Stanley Rd. (148)

Street address & City of Well Location: 1127 Lorene Ave. Mt. Morris Mt. Morris, Michigan

Locate with "X" in section below — Sketch Map:



STANLEY RD
well
LORENE AVE.

3 OWNER OF WELL: Hohenstein Homes Inc.

Address Box 43

4 WELL DEPTH: (completed) 150 ft. Date of Completion 12/69

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 132 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft. Weight 10.79 lbs./ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow clay	27'	27'
Sand-fine-non water bearing	5'	32'
Blue clay with gravel mixed	100'	132'
White sand rock	18'	150'

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: ____ Dia.: ____ Slot/Gauze ____ Length ____ Set between ____ ft. and ____ ft. Fittings:

9 STATIC WATER LEVEL 70 ft. below land surface

10 PUMPING LEVEL below land surface 126 ft. after 3 hrs. pumping 15 g.p.m.; ____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ____ Chlorides (Cl) ____ Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ ____ Depth: From 1 ft. to 132 ft.

14 Nearest Source of possible contamination: 60 feet N Direction septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name Rapidayton

Model Number 7P215 HP 3/4 Volts 230

Length of Drop Pipe 105 ft. capacity 12 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER. [illegible] INC.

CORRECTED BY: [illegible]

ADDITION BY: [illegible]

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling — REGISTERED BUSINESS NAME — 0032 — REGISTRATION NO.

Address 1155 Paul St. Mt. Morris, Michi.

Signed Earl L Lyons — AUTHORIZED REPRESENTATIVE — Date 12/10/69

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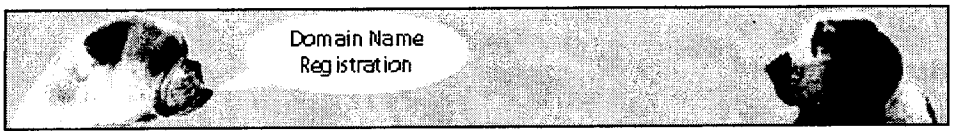
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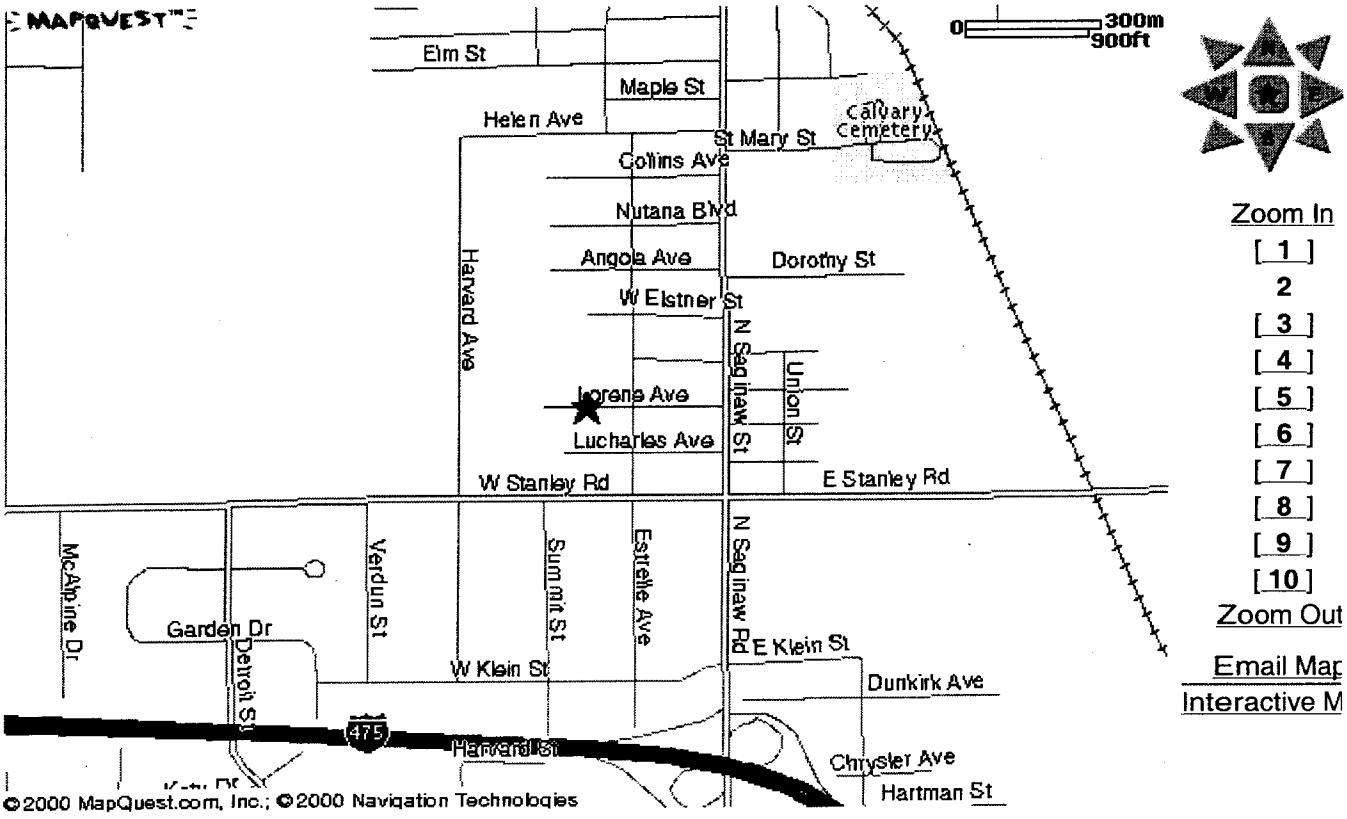
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

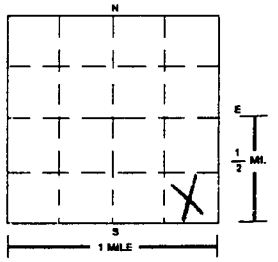
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 SE 1/4 SE 1/4	12	8 N	6 E

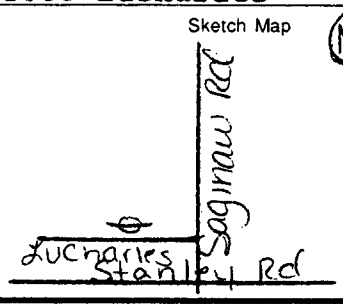
Distance and Direction from Road Intersection
North of stanley Rd & West off Saginaw
(49)

Street Address & City of Well Location 1030 Lucharles

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Tony Simmons
Address 12009 N Saginaw
Suite 4
Mt Morris MI
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 223 ft. Date Completed 11 / 10 / 97 ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 142 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 142 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	135	135
shales	4	139
sandstone & slate	60	199
sandstone & very hard limestone	24	223

USE A 2ND SHEET IF NEEDED

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JAN 06 1998
Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 78 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
223 ft. After _____ hrs. Pumping at 20+ G.P.M.
☐ Plunger ☐ Bailer ☐ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 142 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 40 ft. Direction W-S
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 120 ft. Capacity _____ G.P. M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name used customer's
Model Number _____ Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well.

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 LewisRd Clio, MI 48420
Signed Brad Taylor AUTHORIZED REPRESENTATIVE Date 12 23 97

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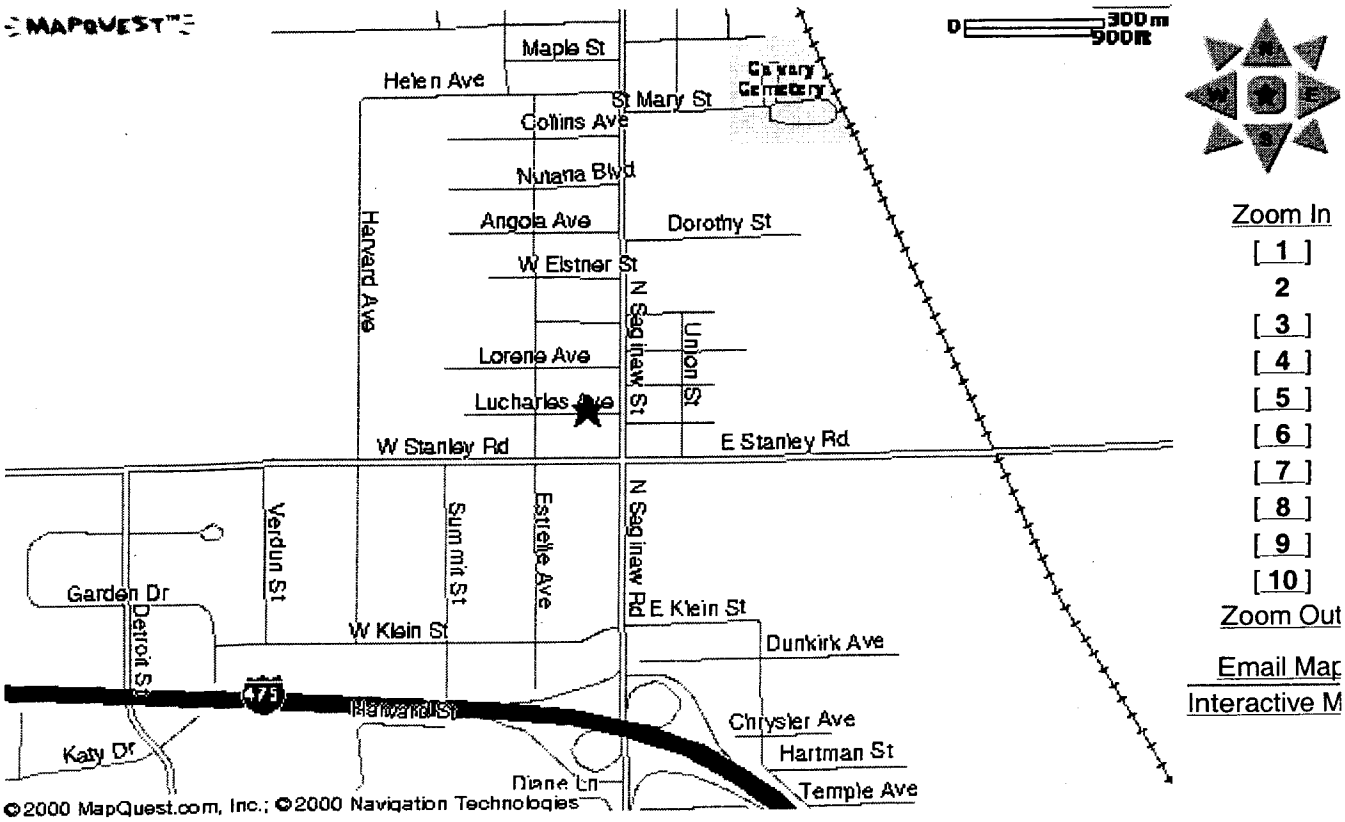
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

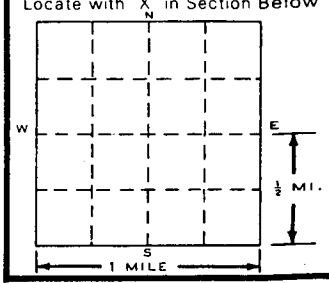
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE ¼ SE ¼ SE ¼	12	8 N/S X	6 E/W X

Distance And Direction From Road Intersection
1 Block North of Stanley Rd. & 1 Block West of Saginaw St.

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

Address: John Thomason
1035 Lucharles
Mt. Morris, MI

150

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

200 FT.

Date Completed: MO. 8 DAY 14 YEAR 92

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5" in. to 142 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
7 7/8 in. to 142 ft. depth

Height: Above/Below
Surface 1 ft.
Weight 2.92 lbs./ft.

Drive Shoe ☐ Yes ☒ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Sandy Clay	11	11
Gray Clay	38	49
Fine Gravel	4	53
Gray Clay	31	84
Fine Sand & Clay	22	106
Hard Gray Clay	27	133
Black Shale	5	138
White Sand Rock	25	163
Hard Brown Slate	6	169
Gray Sand Rock	22	185
Hard Brown Slate	15	200

USE A 2ND SHEET IF NEEDED

8 SCREEN:

☒ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

82 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

92 ft. after ½ hrs. pumping at 15 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☐ Pitless adapter ☒ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 142 ft.

☒ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☒ No

14 PUMP:

☒ Not Installed ☐ Pump Installation Only

Manufacturer's name _____
Model number _____ HP _____ Volts _____
Length of Drop Pipe _____ ft. capacity _____ G.P.M.
TYPE: ☐ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name _____
Model number _____ Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

Note: Coon Well Drilling Co., did not install pump or plug old well.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Coon Well Drilling Co., 0283
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 2265 Rollins St., Grand Blanc, MI 439

Signed [signature] Date 8-17-92
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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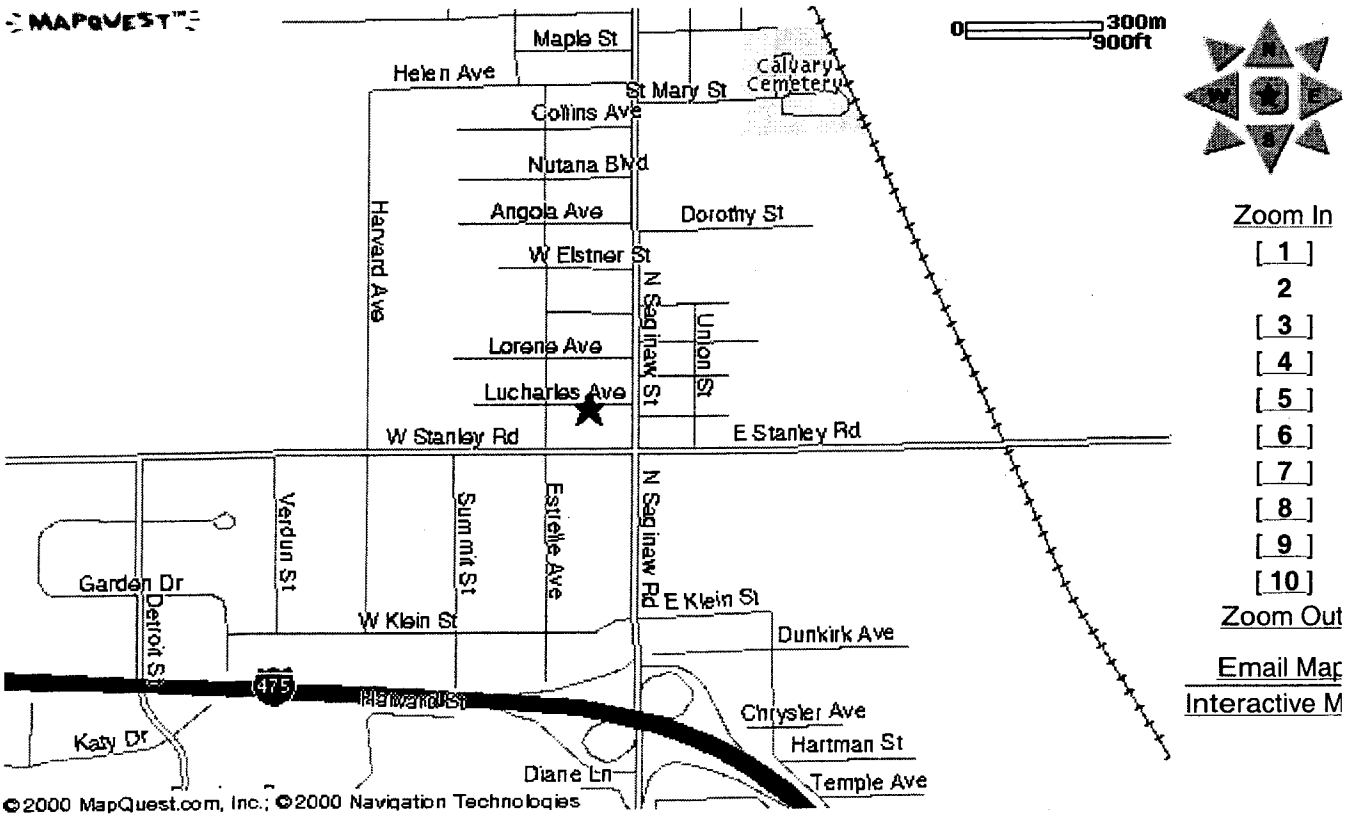
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★ **1035 Lucharles, Mount Morris, MI 48458-2113** 150

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

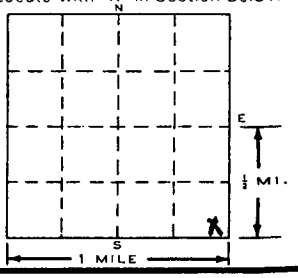
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT MORRIS	SE¼ SE¼ SE¼	12	8N N/S	6E E/W

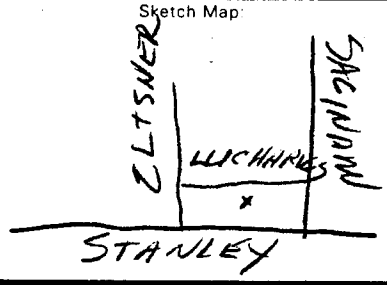
Distance And Direction From Road Intersection
ABOUT 200' E OF ELTSNER ST.
ABOUT 100' S OF LUCHARLES

Street Address & City of Well Location: 1039 LUCHARLES MT MORRIS , MI 48458

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

MARVIN BELCHER
Address 1039 LUCHARLES
MT MORRIS MI
Address Same As Well Location? [*] Yes [ ] No

4 WELL DEPTH

218 FT. Date Completed MO 06 DAY 16 YEAR 94
[ ] New Well [*] Replacement Well

5

[ ] Cable tool [*] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE

[*] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING

Diameter [ ] Steel [ ] Threaded [*] Plastic [*] Welded
5 in. to 148 ft. depth
in. to ft. depth
Grouted Drill Hole Diameter
8 in. to 141 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight PVC lbs./ft.
Drive Shoe [ ] Yes TAPED [ ] No

8 SCREEN

[*] Not Installed
Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL

91 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

160 ft. after hrs. pumping at 20 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION

[*] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [*] Yes From 0 to 141 ft.
[*] Neat cement [ ] Bentonite [ ] Other
No. of bags of cement 16 Additives

13 Nearest source of possible contamination

Type SANI Distance 10+ ft. Direction W
Well disinfected upon completion? [*] Yes [ ] No
Was old well plugged? [ ] Yes [*] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only
Manufacturer's name GOULDS
Model number 10EJ07412 HP 3/4 Volts 230
Length of Drop Pipe 160 ft. capacity 12 G.P.M.
TYPE: [*] Submersible [ ] Jet
PRESSURE TANK
Manufacturer's name A-O SMITH
Model number V-100 Capacity 10 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Y CLAY	8.0	8.0
B CLAY	17.0	25.0
SAND	15.0	40.0
B CLAY	95.0	135.0
G SHALE	6.0	141.0
G SANDSTONE	24.0	165.0
BR SHALE STRIPS GR SANDSTONE	53.0	218.0

USE A 2ND SHEET IF NEEDED

RECEIVED JUN 1 94 MICH. DEPT. OF PUBLIC HEALTH BUREAU OF ENVIRONMENTAL AND OCCUP. HEALTH

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name: DOUG.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4426 GREGOR GENESEE , MI 37
Signed AUTHORIZED REPRESENTATIVE Date 6-18-94

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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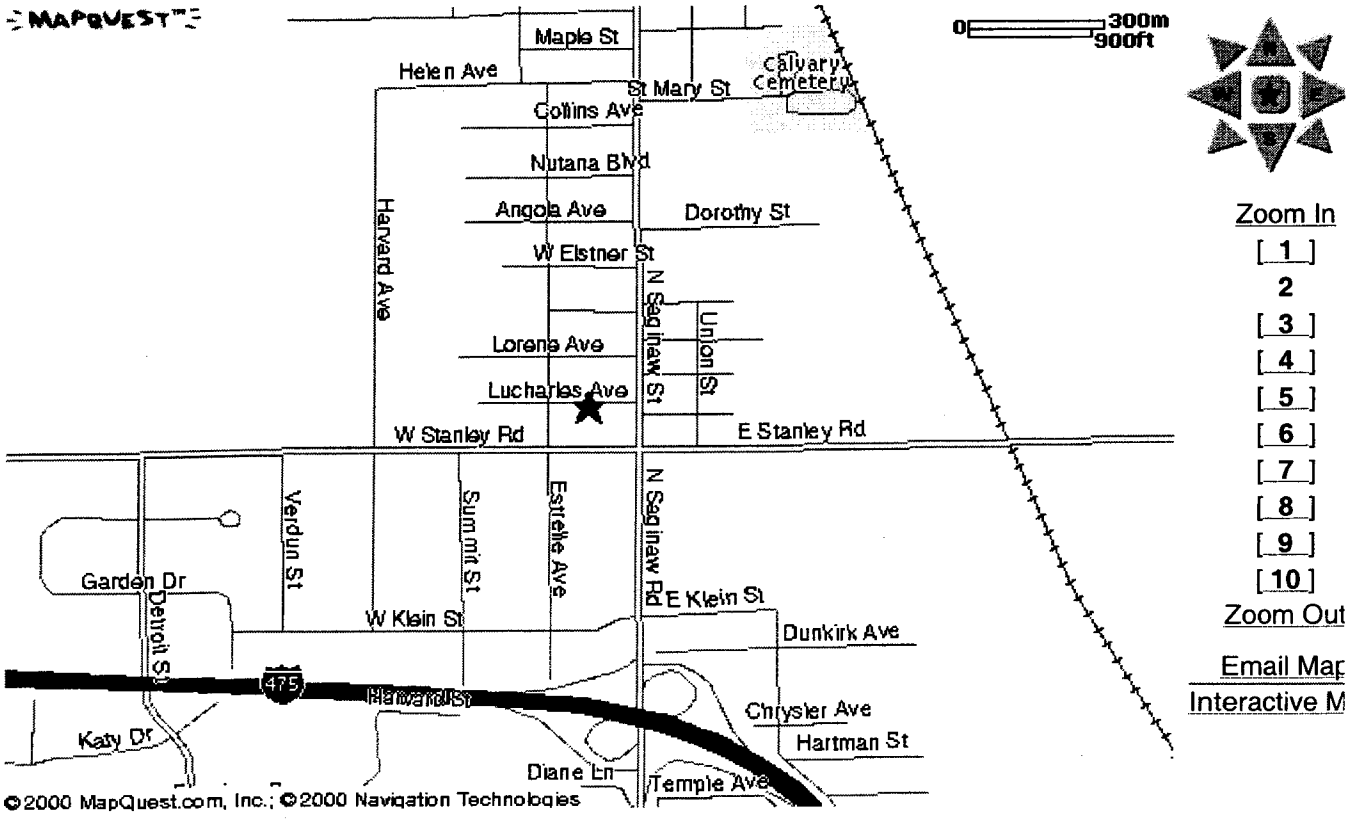
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

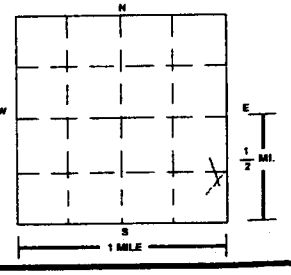
PERMIT NO:

1. LOCATION OF WELL

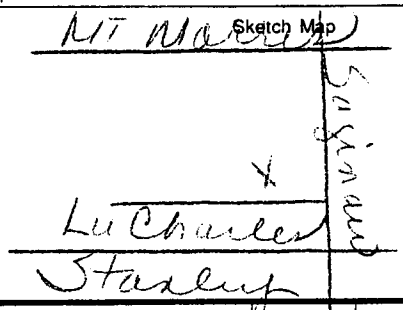
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Mt. Morris	NE 1/4 SE 1/4 SE 1/4	12	8	6

Distance and Direction from Road Intersection
Between: Stanley and Mt. Morris Rd.
OFF: Saginaw St.
1040 LuCharles
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Lorrine D Robinson 152
1040 LuCharles St.
Mt. Morris, MI 48458
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 220 ft. | Date Completed 10/17/98 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 147 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 147 ft. depth
4.5 in. to 220 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe DR21
☒ Shale Packer SHALE BOOT

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sandy Clay	20	20
Sand and Fine Gravel	25	45
Clay and Med. Gravel	30	75
Clay	20	95
Med. Gravel	5	100
Clay	10	110
Clay and Med. Gravel	5	115
Clay	20	135
Shale	5	140
Sandstone	30	170
Shale and Limestone	30	200
Sandstone	18	218
Limestone	2	220

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
50 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 2 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 147 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Sewer Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50SEW1-8BF HP .5 Volts 220
Length of Drop Pipe 120 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 66 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name DAN WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 9107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 10/20/1998
AUTHORIZED REPRESENTATIVE

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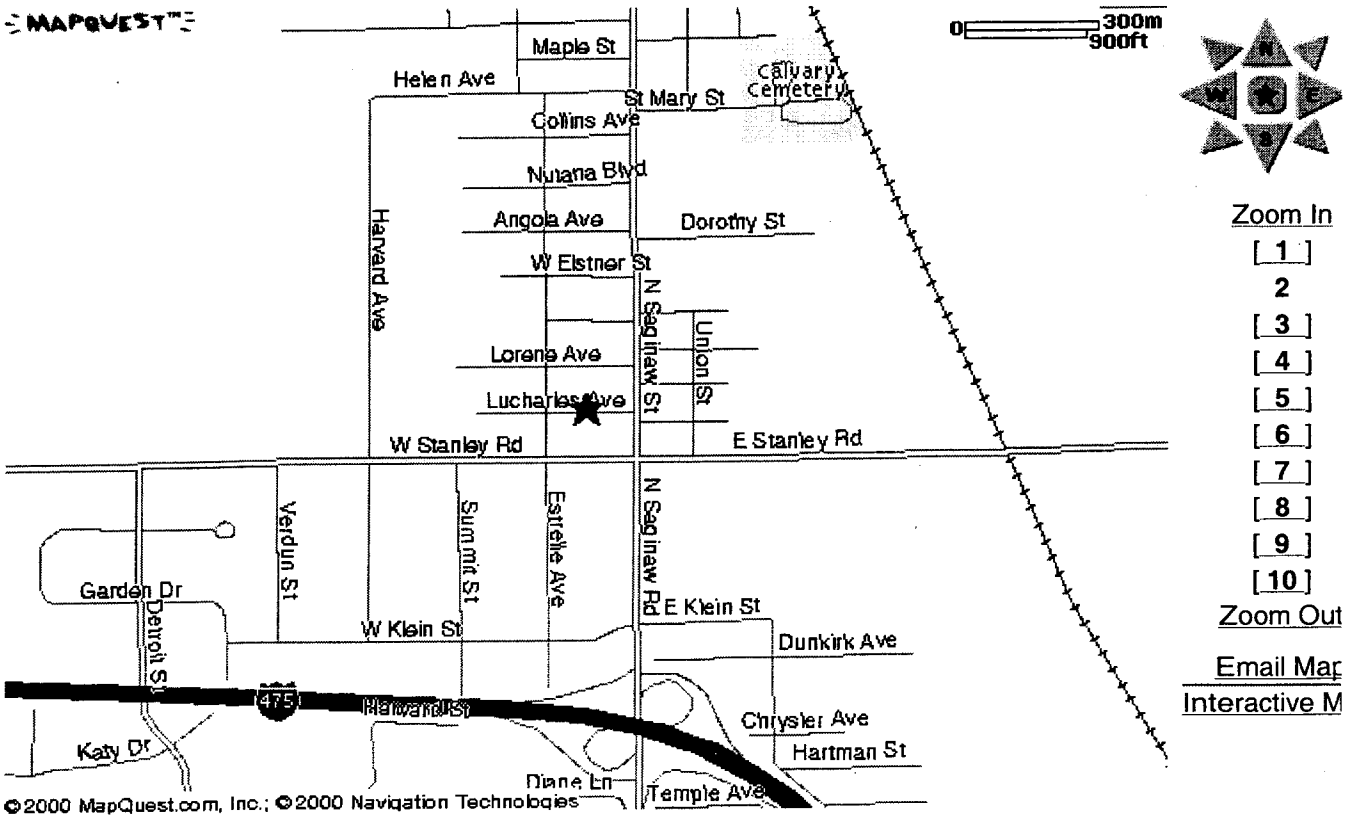
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

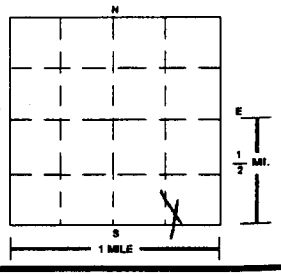
PERMIT NO:

1. LOCATION OF WELL

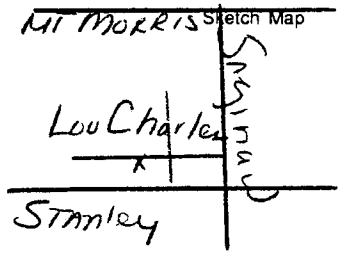
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Mt. Morris	SW 1/4 SE 1/4 SE 1/4	12	8	6

Distance and Direction from Road Intersection
Between: Stanley and Mt. Morris Rd.
OFF: Saginaw Rd.
1085 Lou Charles 153
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Edward Ayotte
13009 Wallace
Clio, MI. 48420
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 240 ft. | Date Completed: 10/24/95 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded
☐ Other _____
Diameter: 5" in. to 135 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 135 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ DR21
☒ Shale Packer
SHALE BOOT

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
60 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
220 ft. After 2 hrs. Pumping at 33 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 135 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 6 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Sewer Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50SEW1 HP .5 Volts 230
Length of Drop Pipe 120 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 103 Capacity 8 Gallons 2.6

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Sand	10	20[illegible]
~~Clay~~	~~15~~	~~35~~
Clay and Gravel	40	75
Clay	55	130
Black Shale	10	140
Sandstone	5	145
Black Shale	15	155
Sandstone	25	180
~~Limestone~~	~~26~~	~~206~~
Sandstone	4	210
Limestone	10	220
Sandstone	20	240

USE A 2ND SHEET IF NEEDED

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15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed Gary M Price Date 11/09/1995
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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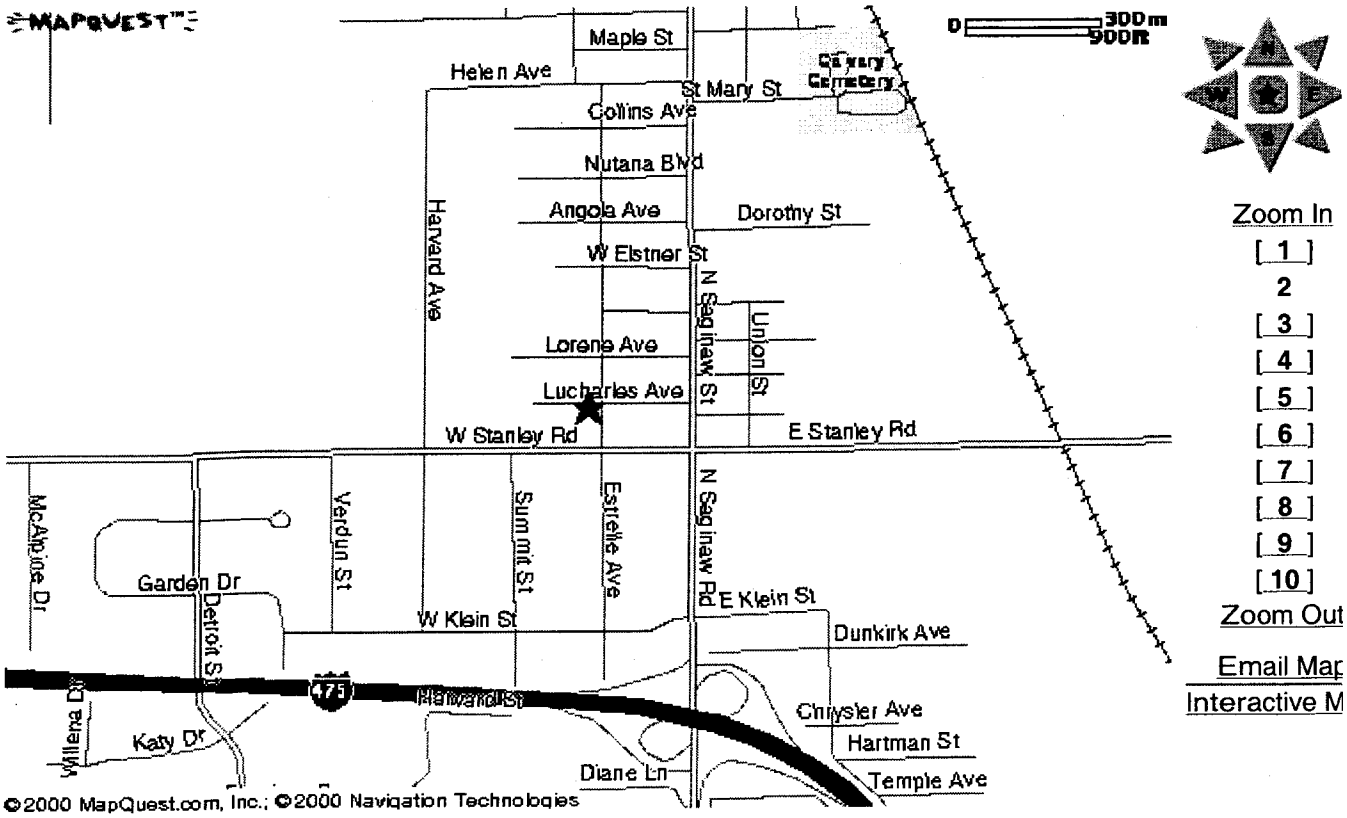
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

1. LOCATION OF WELL

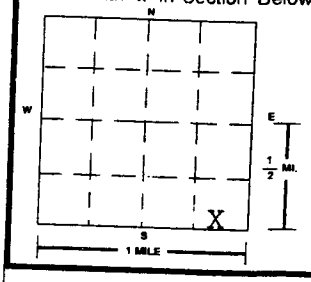
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Mt. Morris	1/4 1/4 1/4	12	T8N	R

Distance and Direction from Road Intersection

¼ mile W. of Saginaw St. on Lucharles

Street Address & City of Well Location: 1090 Lucharles Mt. Morris

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL

Address: Larry Williams 154
1090 Lucharles

Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 200 ft. | Date Completed: 2/25/98 | [ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ]

6. USE: [X] Household [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ]

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded [ ] Other
Diameter: 5 in. to 150 ft. depth; ___ in. to ___ ft. depth
BORE HOLE: Diameter: 8 in. to 150 ft. depth; ___ in. to ___ ft. depth
Height: Above/Below Surface: 1 ft
Weight: ___ lbs./ft.
[ ] Drive Shoe [X] Shale Packer

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
sand & clay	15'	15'
sand	5'	20'
blue clay	60'	80'
gravel	15'	95'
blue clay	40'	135'
shale	10'	145'
sandstone	55'	200'

USE A 2ND SHEET IF NEEDED

8. SCREEN: [ ] Not Installed [ ] Gravel-Packed
Type ___ Diameter ___
Slot/Gauze ___ Length: ___
Set Between ___ ft. and ___ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen ___ ft. Other ___

9. STATIC WATER LEVEL: 80 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
100 ft. After 2 hrs. Pumping at 25 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade [ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 0 to 150 ft.
[ ] Neat Cement [X] Bentonite [ ] Other
No. of Bags 9 Additives ___

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sanitary Distance 15 ft. Direction W.
Type ___ Distance ___ ft. Direction ___

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name Myers
Model Number 2NFL52-12 HP ½ Volts 230
Length of Drop Pipe 120 ft. Capacity 12 G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other
PRESSURE TANK:
Manufacturer's Name Champion
Model Number CM-8003 Capacity 9.9 Gallons 32

15. ABANDONED WELL PLUGGED? [X] Yes [ ] No
Casing Diameter 2 in. Depth 90 ft.
PLUGGING MATERIAL
[ ] Cement/Bentonite Slurry [ ] Neat Cement [ ] Bentonite Slurry [ ] Concrete Grout [X] Bentonite Chips
No. of Bags 3 Casing Removed? [ ] Yes [X] No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name ___

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

REGISTERED BUSINESS NAME: Ron Blunt Well Drilling — REGISTRATION NO.: 1531
Address: 1211 Ramsgate Rd. Flint
Signed: [signature] (AUTHORIZED REPRESENTATIVE) Date: 3-4-98

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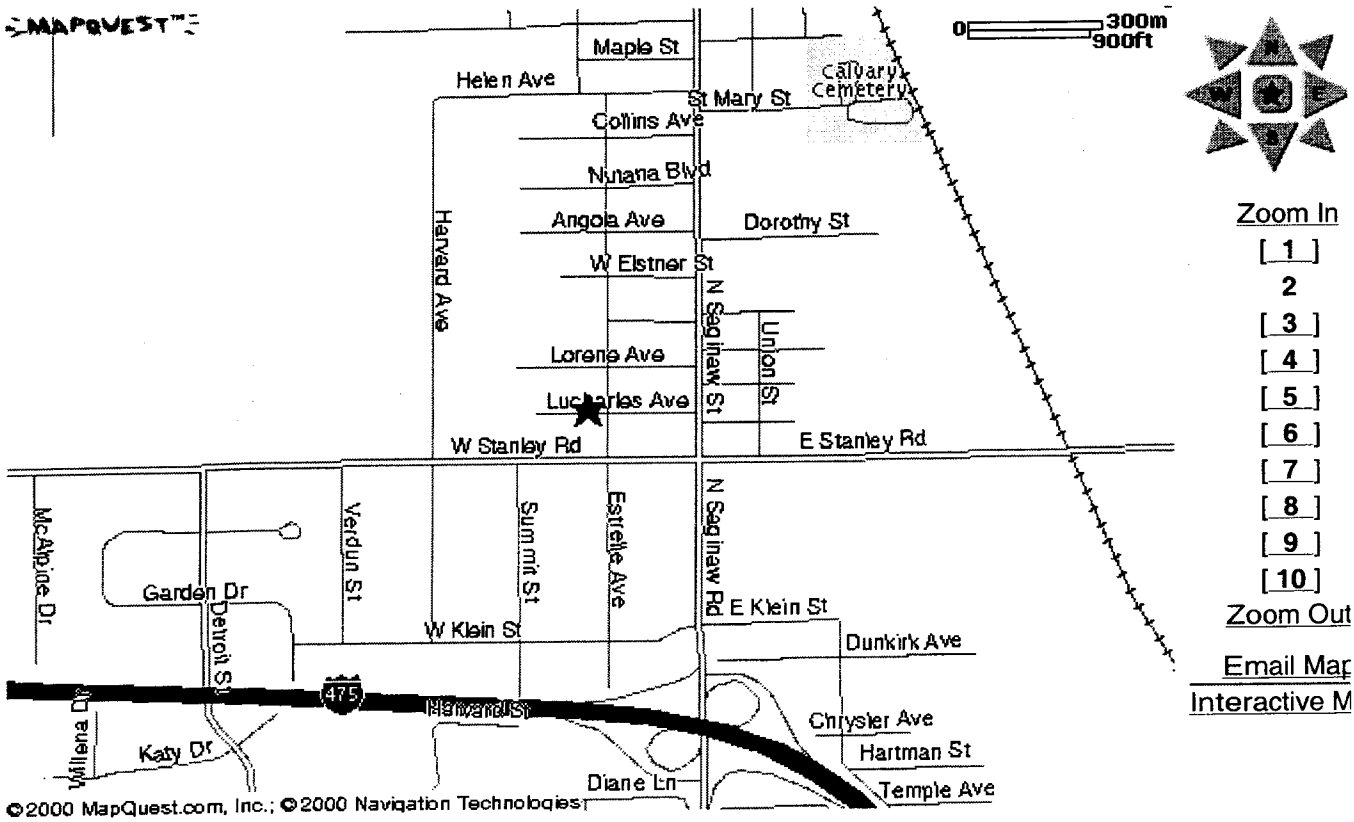
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

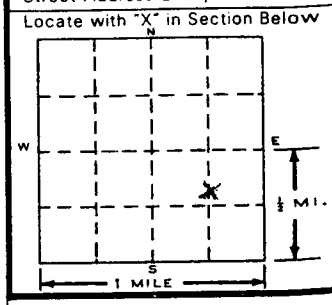
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	NW¼ SE¼ NE¼	12	T 8 N/S	6 E/W

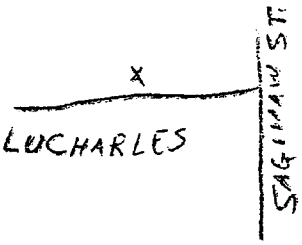
Distance And Direction From Road Intersection: APPROX 1/4 mi. W. OF SAGINAW ST. ON N. Side of LUCHARLES.

Street Address & City of Well Location: 1094 LUCHARLES MT. MORRIS

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Brenda Obrie

Address: 1094 LuCharles MT. Morris 55

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 200 ft. **Date of Completion** 6-15-94

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 150 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter 7⅞ in. to 150 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface 1 ft. Weight 2.926 lbs./ft.

Drive Shoe ☐ Yes ☒ No

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 47 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

120 ft. after 1 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 150 ft.

☐ Neat cement ☐ Bentonite ☒ Other Quik-Grout

No. of bags of cement 7 Additives ~~Quik-Grout~~

13 Nearest source of possible contamination

Type Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name J & W

Model number 47106953 HP 1/2 Volts 230

Length of Drop Pipe 90 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name Con-Air

Model number CA42T Capacity 6 Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
CLAY	67	67
SAND & GRAVEL	18	85
CLAY	47	132
CLAY & GRAVEL	13	145
SANDSTONE	55	200

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Walker Well Drilling 0843

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 5394 N. Henderson Rd. Linden

Signed Rick Walker Date 8-1-94

AUTHORIZED REPRESENTATIVE

D67d 2/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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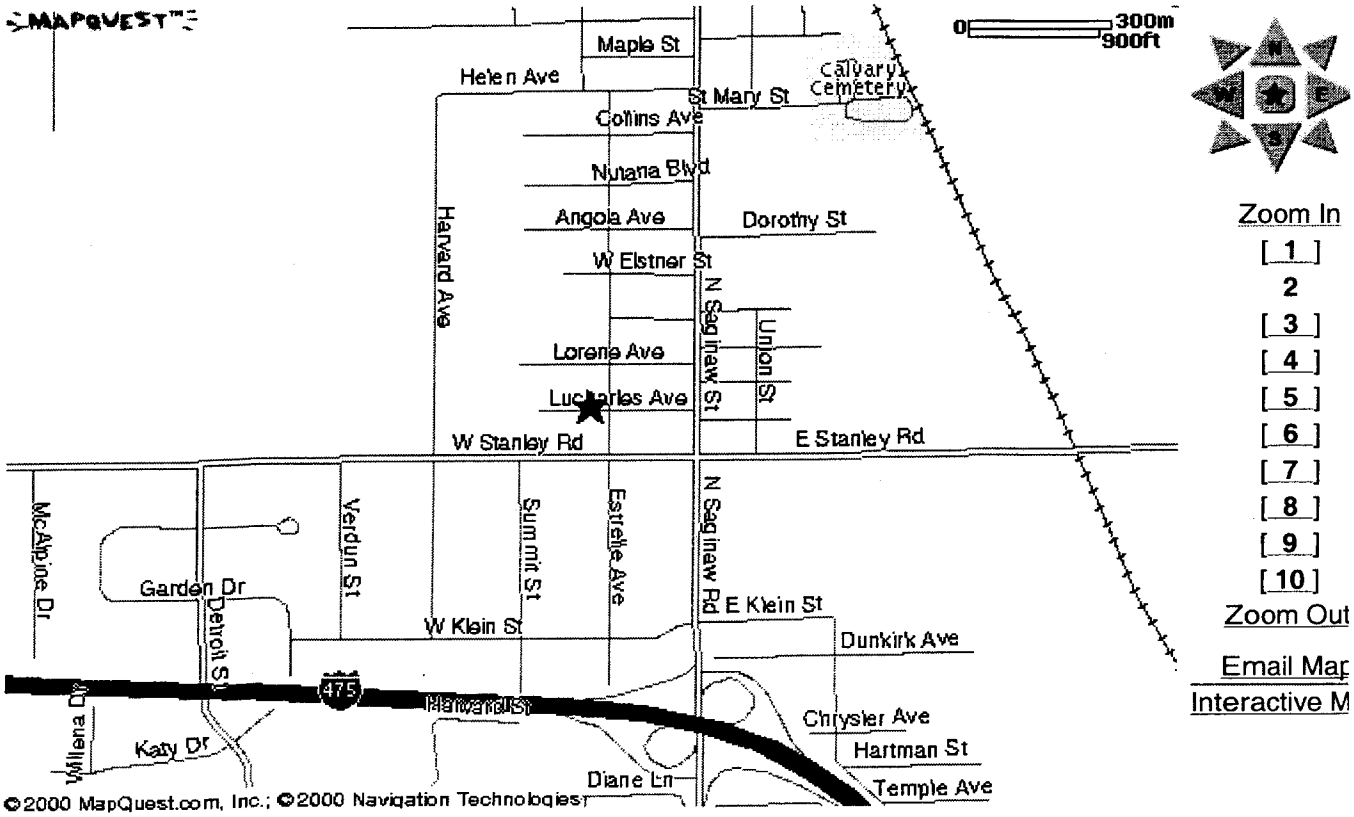
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

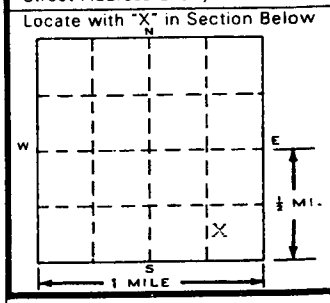
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	~~Genesee~~ Mt. Morris	SW ¼ SW ¼ NE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location: 1111 LuChalres

Locate with "X" in Section Below

Sketch Map:



3 OWNER OF WELL: 15

Address: Dale Little
1111 LuCharles St
Mt. Morris, Mi

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed) 202 ft. | **Date of Completion** 8-10-87

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter 5 in. to 131 ft. depth; _____ in. to _____ ft. depth
[ ] Steel [X] Threaded [ ] Plastic [ ] Welded
Grouted Drill Hole Diameter _____ in. to _____ ft. depth; _____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe [X] Yes [ ] No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	0	9
Blue Clay	10	27
Sand & Blue Clay	28	62
Soft Blue Clay	63	68
Blue Clay W/Stones	69	121
Black Shale	127	128
White Sand Stone	129	167
Black Shale	168	170
Green Sand Stone	171	191
Limestone	192	202

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8 SCREEN: [ ] Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 95 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface
140 ft. after 1 hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [ ] Yes From _____ to _____ ft.
[ ] Neat cement [X] Bentonite [ ] Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type _____ Distance _____ ft. Direction _____
Well disinfected upon completion? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's name FLint Walling
Model number _____ HP ¾ Volts 220
Length of Drop Pipe 160 ft. capacity 10 G.P.M.
TYPE: [X] Submersible [ ] Jet _____
PRESSURE TANK:
Manufacturer's name X-Trol
Model number WX203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 1-13-88
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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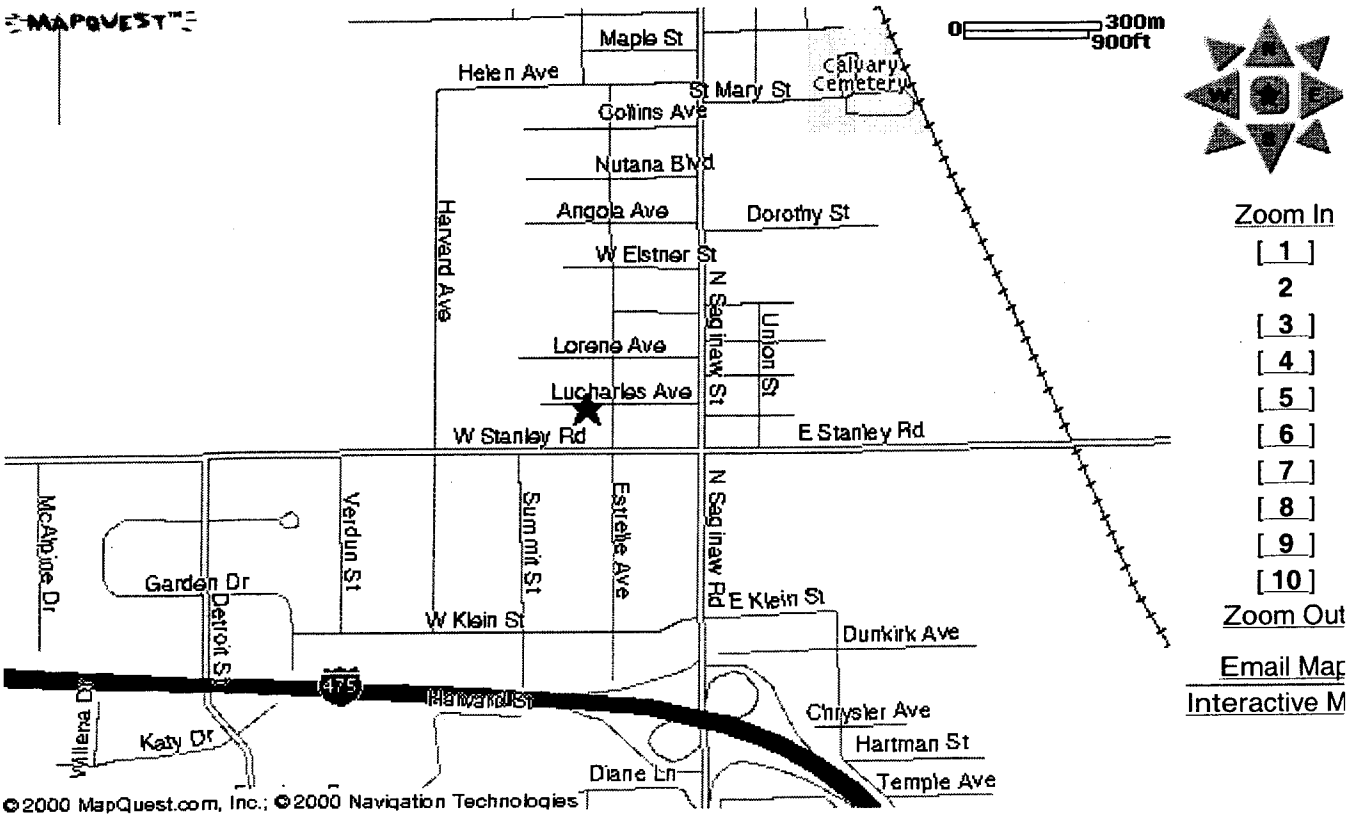
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GEOLOGICAL SURVEY NO. NOV 28 1983

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	SE¼ SE¼ SE¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection: Stanley + Saginaw

Street Address & City of Well Location: 1116 Lu Charles Mt Morris

Locate with "X" in Section Below (N, W, E, S, ½ MI., 1 MILE)

Sketch Map: Flint

3 OWNER OF WELL: Gordon Seran

Address: 1116 Lu Charles

Address Same As Well Location? [X] Yes [ ] No 157

4 WELL DEPTH: (completed) 220 ft. **Date of Completion** 8-3-83

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ]

7 CASING Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5" in. to 150 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

7⅞ in. to 150 ft. depth

____ in. to ____ ft. depth

Height Above/Below Surface 1 ft.

Weight ____ lbs./ft.

Drive Shoe [X] Yes [ ] No

8 SCREEN [ ] Not Installed

Type ____ Diameter ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen ____ ft Other ____

9 STATIC WATER LEVEL 90 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

220 ft. after 1 hrs. pumping at 20 G.P.M

____ ft. after ____ hrs. pumping at ____ G.P.M

11 WELL HEAD COMPLETION [X] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 0 to 150 ft.

[ ] Neat cement [X] Bentonite [ ] Other ____

No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination

Type Sewer Distance ____ ft. Direction ____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP: [ ] Not Installed [ ] Pump Installation Only

Manufacturer's name J+W

Model number ____ HP ½ Volts 115

Length of Drop Pipe 120 ft. capacity 5 G.P.M.

TYPE [X] Submersible [ ] Jet ____

PRESSURE TANK

Manufacturer's name X Trol

Model number 202 Capacity 42 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay	20	20
Blue Clay	20	40
Sandy Clay	110	150
Sand stone } Lime stone } Some shale	70	220

USE A 2ND SHEET IF NEEDED

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Environmental Health
Program Administration

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lee Shaw Well Drilling — REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 4028 Fraser St. 0314

Signed Lee Shaw — AUTHORIZED REPRESENTATIVE — Date 8-9-83

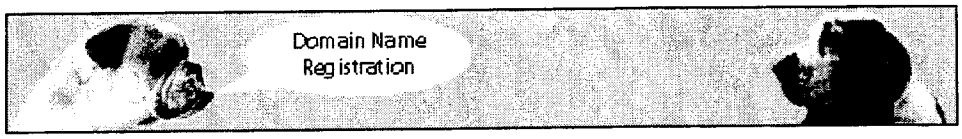
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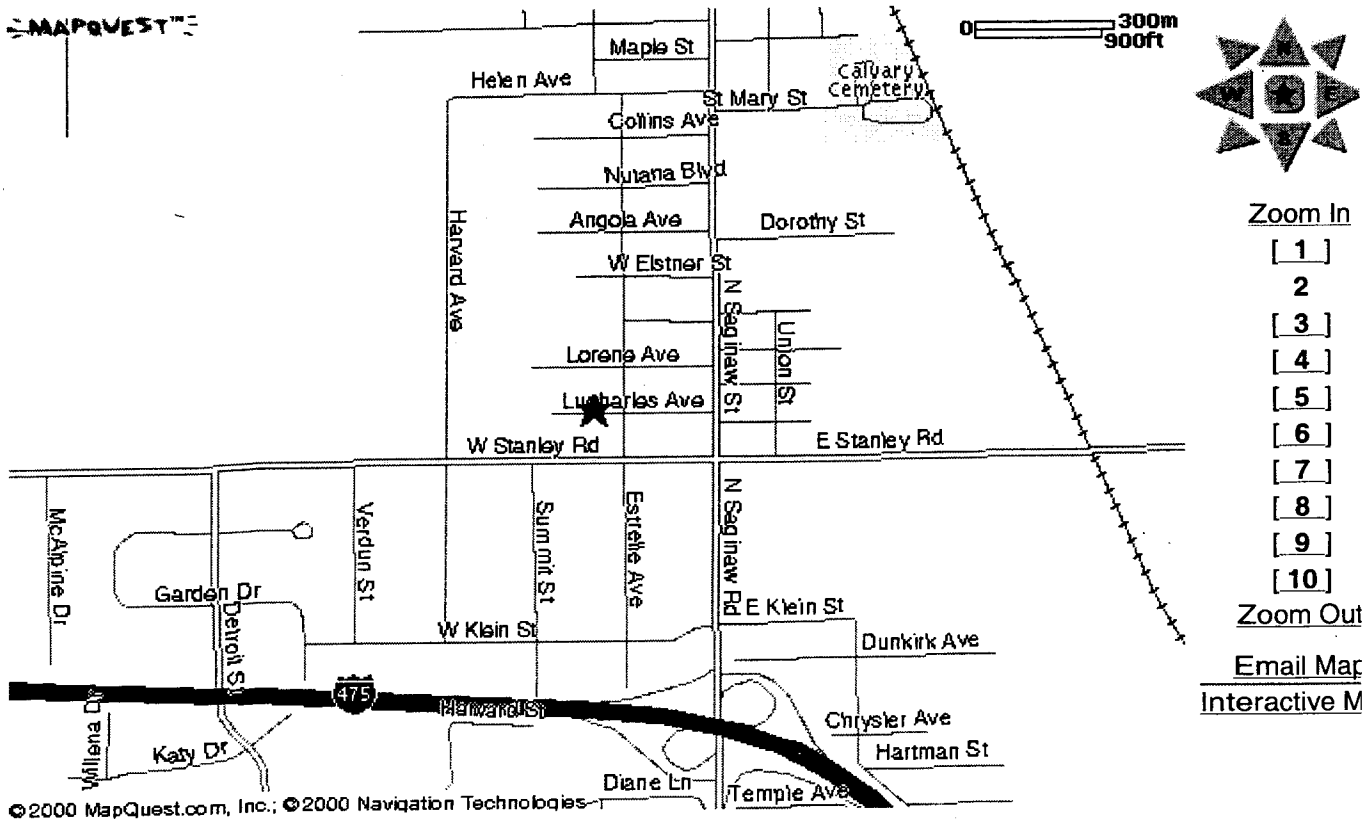
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt. Morris	(SW¼ SE¼ SE¼)	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections: ¼ mile W. Saginaw Rd.

OWNER No. 158

Street address & City of Well Location: 1126 LuCharles Ave. Mt. Morris, Mich.

3 OWNER OF WELL: Leonard Caudell

Address: 5470 W. Mt. Morris Rd. Mt. Morris, Mich.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Blue clay-course gravel	145'	145'
White sand rock	55'	200'

4 WELL DEPTH: (completed) 200 ft. Date of Completion 6/68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 145 ft. Depth; Threaded ☐ Welded ☒

Height: Above/Below surface 1 ft.

Weight 4 lbs/ft.

___ in. to ___ ft. Depth

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL 76 ft. below land surface

10 PUMPING LEVEL below land surface

105 ft. after 4 hrs. pumping 9 g.p.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☒ No

Material: ☐ Neat Cement ☐ ___

Depth: From ___ ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

50 feet N Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name Shetler

Model Number JE-61 HP 1-2stage

Length of Drop Pipe 90 ft. capacity 7½ G.P.M.

Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED PER PHONE CALL

CORRECTED BY

REVISION BY

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling — REGISTERED BUSINESS NAME — 0032 — REGISTRATION NO

Address: 1155 Paul St. Mt. Morris, Mich.

Signed: Earl L. Lyons — AUTHORIZED REPRESENTATIVE — Date: 9/3/68

D67D 100M 6-66

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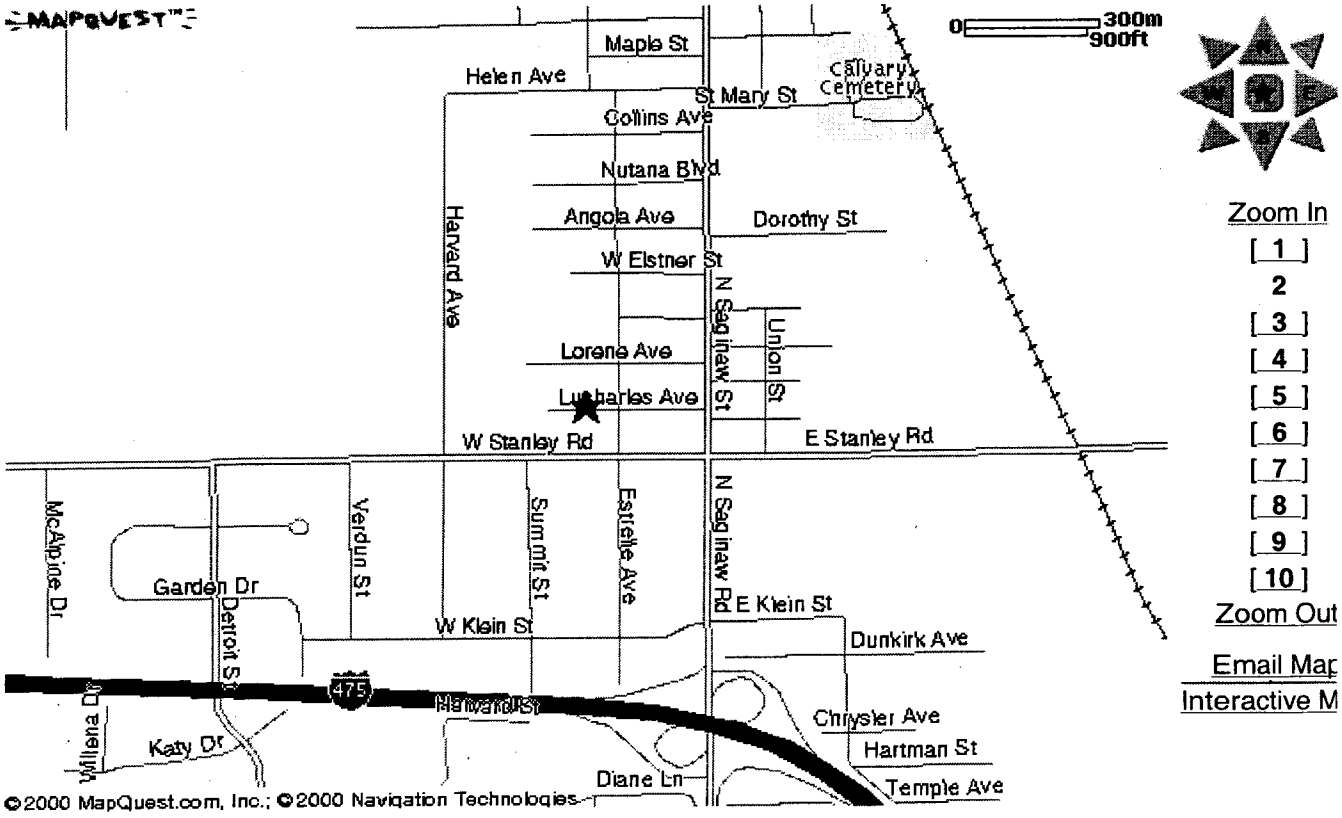
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO.

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

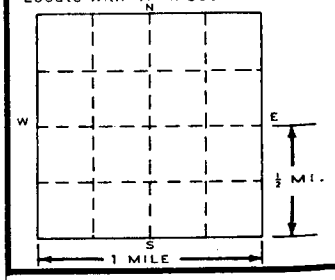
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

¼ mile West of Saginaw St; 100 ft South of Nutana

Street Address & City of Well Location: Nutana Street

Locate with "X" in Section Below



Sketch Map

3 OWNER OF WELL

159

Address: Derek Ingham
Nutana Street
Mt. Morris, MI

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH (completed)

240 ft.

Date of Completion: Dec. 6, 1984

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☒ Plastic ☐ Threaded ☒ Welded

_____ in. to _____ ft. depth
5 in. to 168 ft. depth

Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface 1 ft.
Weight 2½ lbs /ft.

Drive Shoe ☒ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Clay	65	75
Gravel	5	80
Clay	10	90
Sand & gravel	10	100
Clay	40	140
Black shale	25	115
Sandy shale	60	175
Sandstone	25	200
Shale	10	210
Sandstone	30	240

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APR 11 1985
Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

8 SCREEN

☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

45 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

_____ ft. after _____ hrs. pumping at 30 G.P.M
_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 168 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type septic Distance 50 ft. Direction N
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name F & W
Model number _____ HP ½ Volts 230
Length of Drop Pipe 100 ft. capacity 12 G.P.M
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name _____
Model number _____ Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

~~Tri-County Drillers, Inc.~~ 1634
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address ~~5154 East M-21 Corunna, MI~~

Signed _____ Date 12/6/84
AUTHORIZED REPRESENTATIVE

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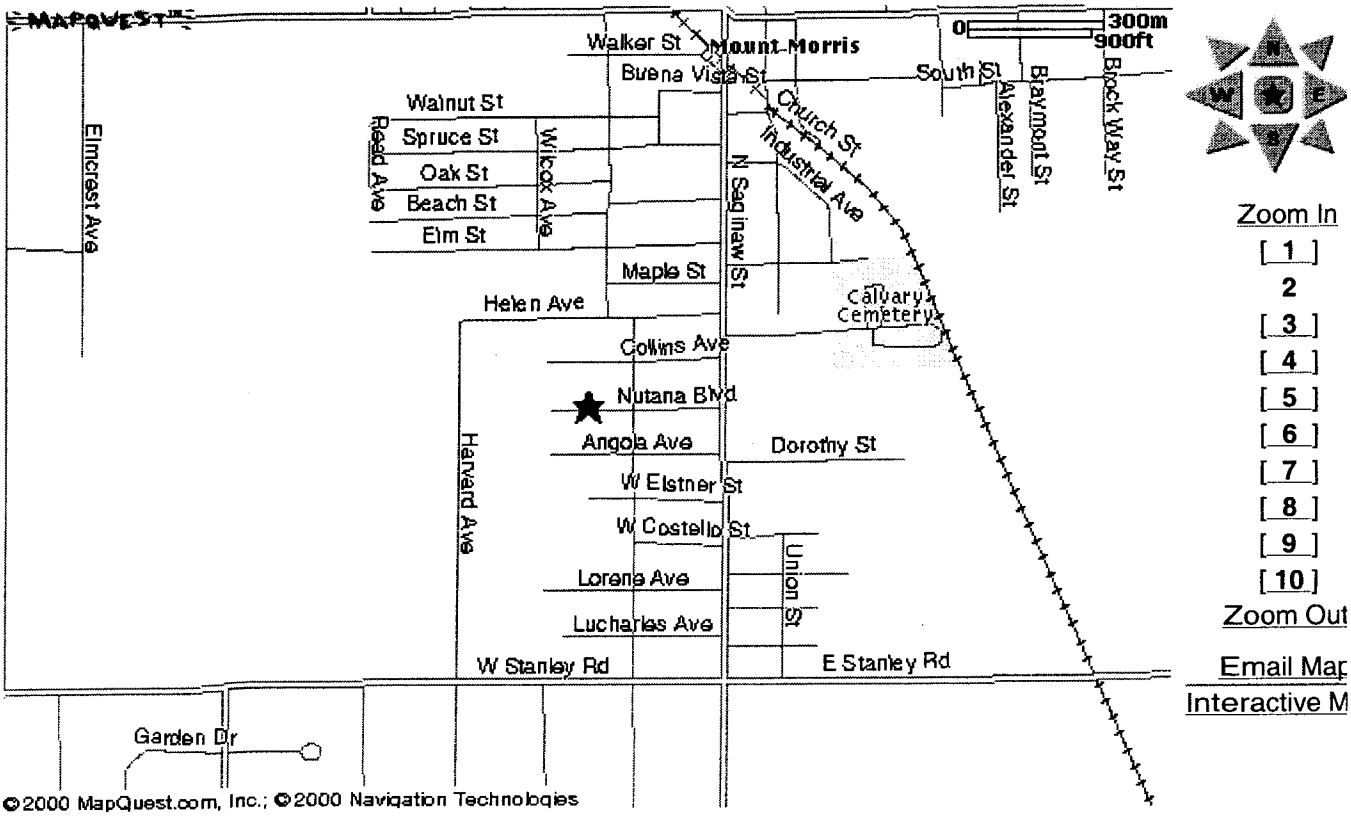
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★ **Nutana Street, Mount Morris, MI 48458** 159

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

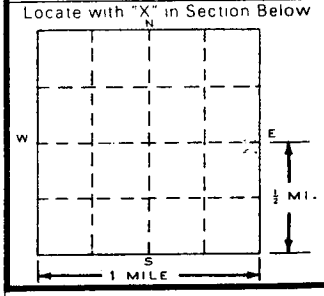
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NE¼ NE¼ SE¼	12	9 N/S	6

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL

Bud Ray 160

Address 1026 Nutanna St
Mt Morris, MI 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH

247 FT.

Date Completed: MO 05 DAY 20 YEAR 91

☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter ☐ Steel ☐ Threaded
☐ Plastic ☐ Welded

5 in. to 100 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Blue Clay	15	27
Sand & Gravel	20	47
Blue Clay	100	147
Shale	20	167
Sandstone	10	177
Limestone	35	212
Sandstone	35	247

USE A 2ND SHEET IF NEEDED

8 SCREEN

☐ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

94 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

100 ft. after 1 hrs. pumping at 25 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☐ Pitless adapter ☒ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 157 to 10 ft.

☐ Neat cement ☒ Bentonite ☒ Other clay

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aermotor

Model number _____ HP ___ Volts 220

Length of Drop Pipe 160 ft. capacity 12 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name Well A-Trol

Model number WX203 Capacity _____ Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul St

Signed _____ Date _____
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation

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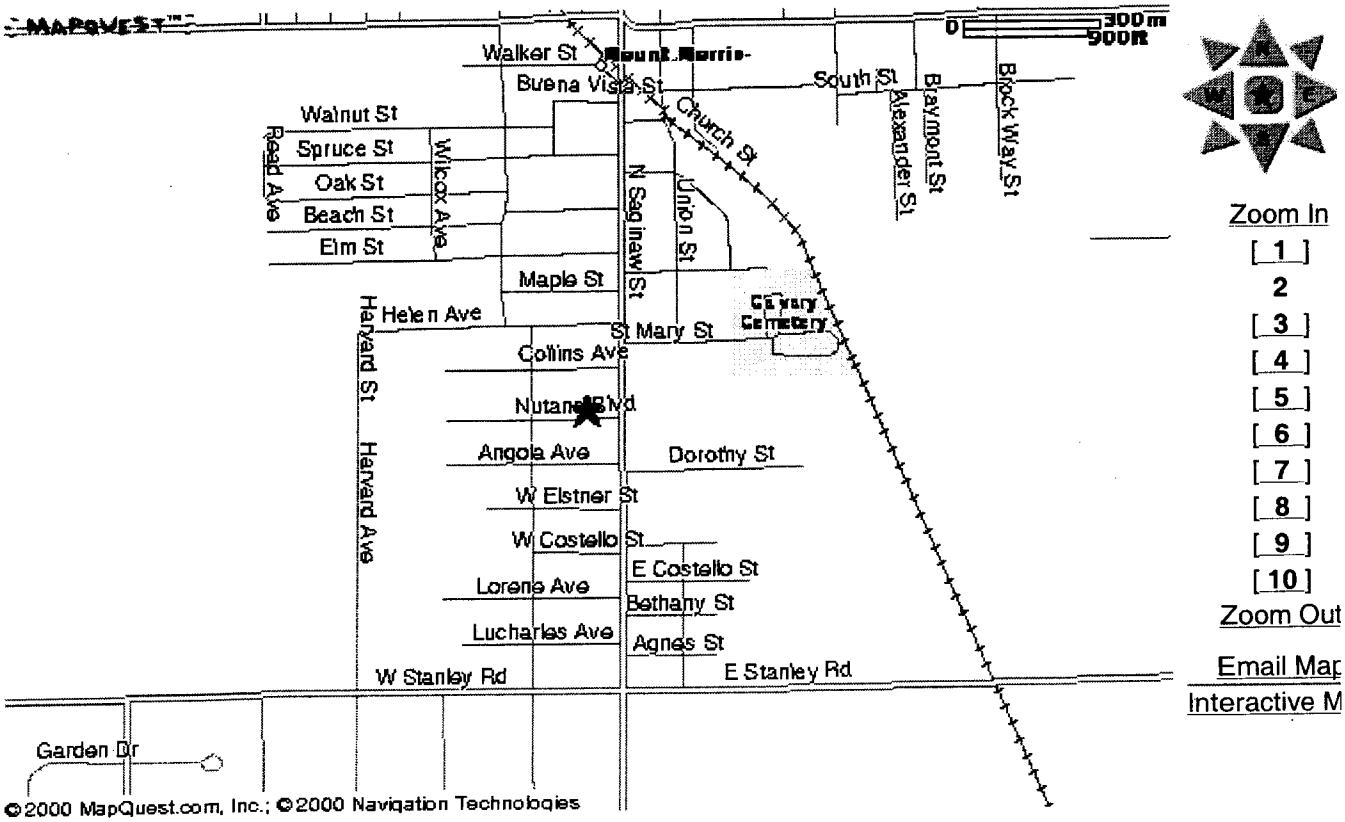
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★ **1026 Nutanna Street, Mount Morris, MI 48458-2121** 160

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GEOLOGICAL SURVEY SAMPLE No.

OCT 15 1979

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE ¼ SE ¼ SE ¼	12	8 N/S.	6 E

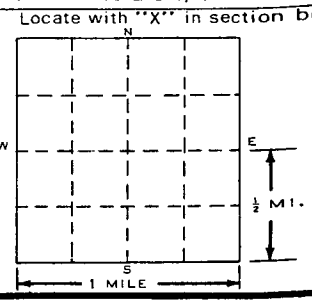
Distance And Direction from Road Intersections

1039 Nutana Blvd. - Saginaw St. north past Stanley Rd. to Nutana Blvd. - west to address.

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Harold Fritz

Address 1039 Nutana Blvd.
Mt. Morris, Michigan 48458

4 WELL DEPTH: (completed) Date of Completion

230 ft. 9-7-79

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐ Diam.

2 in. to 168 ft. Depth
____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft.
Weight 3.75 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	40	40
Gravel	20	60
Clay	90	150
Shale	18	168
Sandstone	62	230

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL

40 ft. below land surface

10 PUMPING LEVEL below land surface

80 ft. after 2 hrs. pumping 800 g.p.h

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13

Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 21 ft. to 168 ft.

14 Nearest Source of possible contamination

20 feet ____ Direction Sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed
Manufacturer's Name Flint & Walling
Model Number C6267 HP 3/4 Volts 220
Length of Drop Pipe 84 ft. capacity 7 G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling (REGISTERED BUSINESS NAME) 0099 (REGISTRATION NO.)

Address 5370 Corunna Rd. Flint, Mich. 485[illegible]

Signed [signature] (AUTHORIZED REPRESENTATIVE) Date 9-10-79

D67d 100M (Rev. 12-68)

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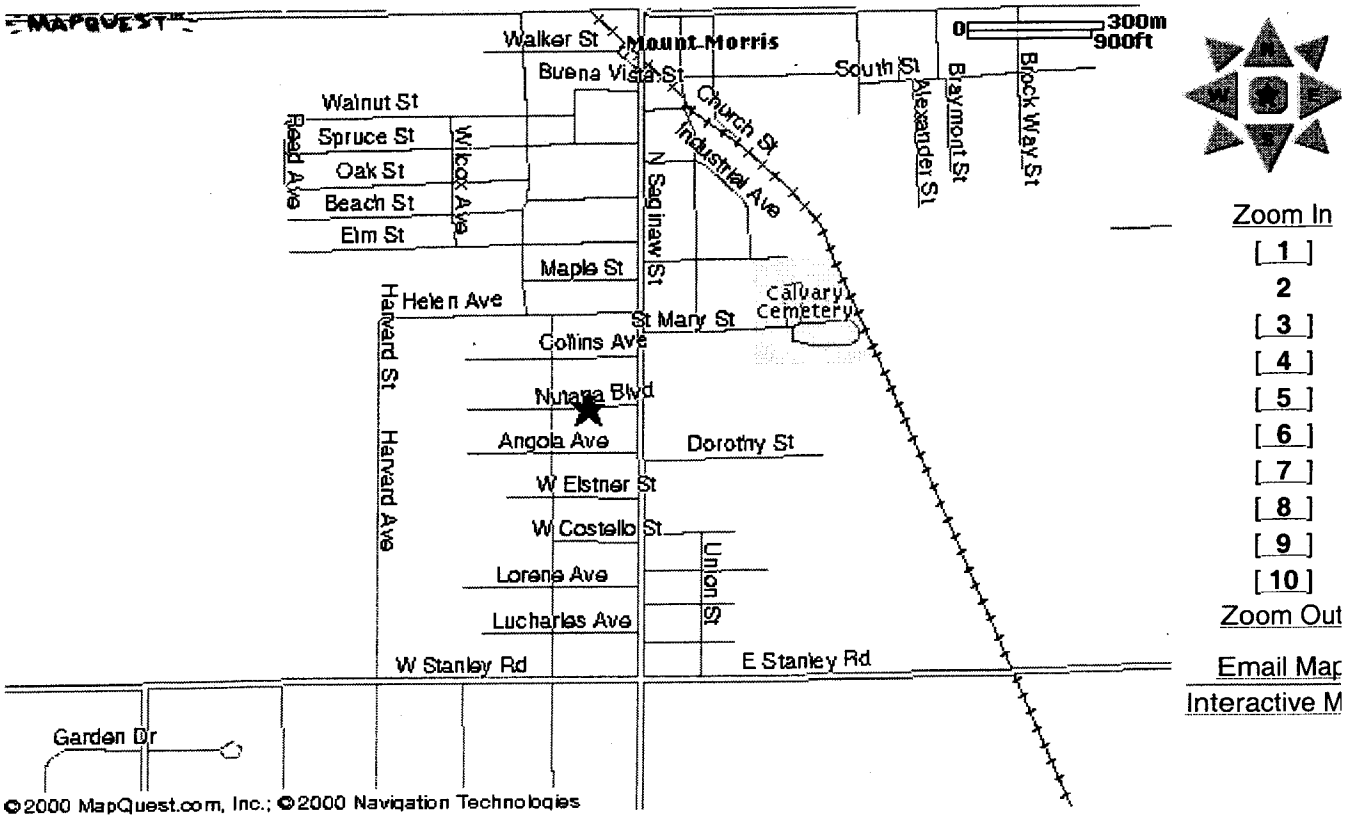
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★ **1039 Nutana Blvd., Mount Morris, MI 48458-2115** (6)

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GEOLOGICAL SURVEY NO. APR 5 1984

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

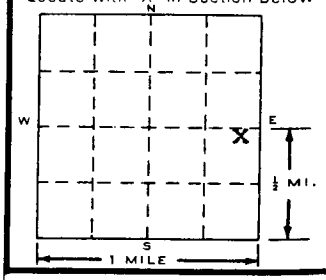
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NE¼ NE¼ SE¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map

3 OWNER OF WELL

Address: Connie Carpenter
1056 Nutana
Mt. Morris, Mich.

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed) 227 ft.

Date of Completion: 5-16-83

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 157 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Top Soil	2	2
Sand Clay	10	12
Blue Clay	30	42
Sand & Gravel	35	77
Blue Clay	25	102
Blue Clay & Stone	10	112
Blue Clay	20	132
Shale	18	150
Sandstone	15	165
Limestone	10	175
Sandstone	8	183
Limestone	27	210
Sandstone	17	227

USE A 2ND SHEET IF NEEDED

8 SCREEN

[ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

80 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

150 ft. after 2 hrs. pumping at 40 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 147 to 30 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name: Flint & Walling

Model number: 4F10B07-301 3/4 Volts: 220

Length of Drop Pipe: 160 ft. capacity: 11 G.P.M.

TYPE: [X] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name: Well X-Trol

Model number: WX203 Capacity: 60 Gallons

15. Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER,
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address: 1151 Paul St. Mt. Morris, Mi.

Signed: Robert J Dekoski — Date: 2-4-84
AUTHORIZED REPRESENTATIVE

D67d (Rev. 10-80)

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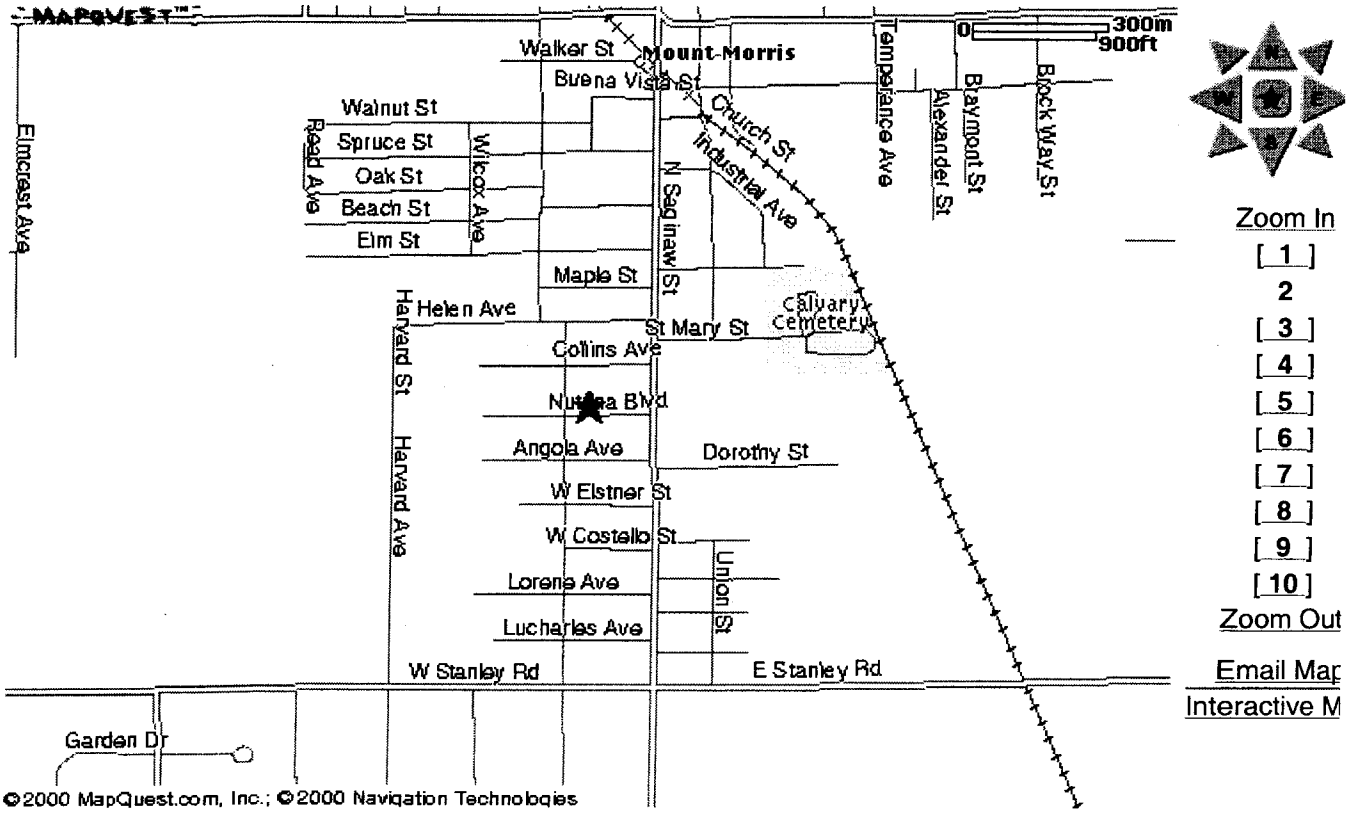
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★ **1056 Nutana, Mount Morris, MI 48458-2121** 162

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

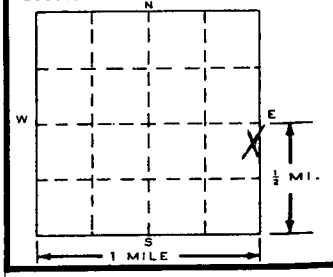
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NE ¼ NE ¼ SE ¼	12	8 N/S	F/W

Distance And Direction From Road Intersection

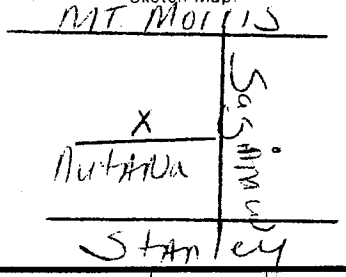
Mt. Morris and Stanley Rd.
Saginaw St. N. Side

Street Address & City of Well Location: 1066 Nutana

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Kenneth Gunnels
Address 1211 E. Lake Rd.
Clio, MI. 48420
Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: 260 FT. Date Completed MO. 04 DAY 19 YEAR 90 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 150 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 150 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
Drive Shoe SDR21 ☐ Yes ☐ No
☒ Not Installed

8 SCREEN: Shale Boot
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
85 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
250 ft. after 3 hrs. pumping at 42 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 150 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type San. Sewer Distance 50+ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Aermotor
Model number A12B50 HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well Rite
Model number WR60-02 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	38	38
Sand	32	70
Clay	45	115
Black Shale	28	143
Gray Sandstone	25	168
Limestone	27	195
Gray Sandstone	35	230
Limestone	13	243
Gray Sandstone	13	256
Black Shale	4	260
	0	0
	0	0
	0	0
	0	0
	0	0
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USE A 2ND SHEET IF NEEDED

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15. Remarks, elevation, source of data: Bets

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Lyons Well Drilling Inc. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address G-8107 N. Dort Hwy Mt. Morris, MI 458
Signed _____ Date 06/19/90
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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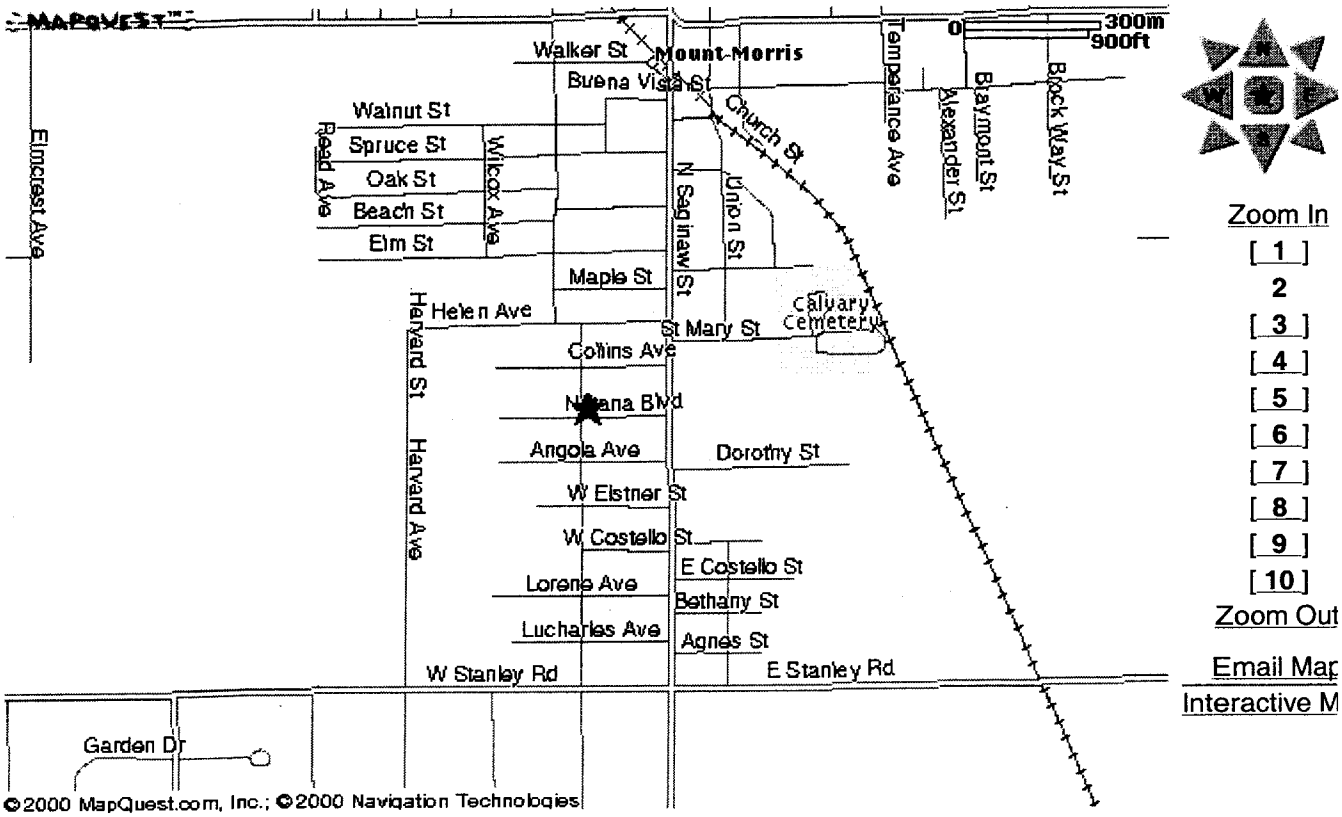
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

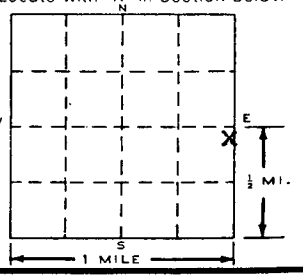
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	NE ¼ NE ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

16

Bob Szecsodi
Address 1075 Nutanna
Mt. Morris, MI

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

247 FT.

Date Completed MO. 08 DAY 30 YEAR 95

[X] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 148 ft. depth
in. to ft. depth

Grouted Drill Hole Diameter
7-7/8 in. to 145 ft. depth
in. to ft. depth

Height: Above/Below
Surface ft.
Weight lbs./ft.
Drive Shoe [ ] Yes [ ] No

8 SCREEN:

[ ] Not Installed

Type Diameter
Slot/Gauze Length
Set between ft. and ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ft. Other

9 STATIC WATER LEVEL:

87 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

150 ft. after 1 hrs. pumping at 30 G.P.M.
ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 145 to 0 ft

[ ] Neat cement [ ] Bentonite [ ] Other

No. of bags of cement 5 Additives Crumbles

13 Nearest source of possible contamination

Type Sewer Distance 15 ft. Direction East

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aermotor

Model number HP 3/4 Volts 220

Length of Drop Pipe 140 ft. capacity 12 G.P.M.

TYPE: [X] Submersible [ ] Jet

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX250 Capacity 80 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Blue Clay	25	35
Sand	10	45
Blue Clay	20	65
Sand & Gravel	30	95
Blue Clay	35	130
Shale	20	150
Sandstone	15	165
Shale	30	195
Limestone	20	215
Sandstone	35	247

RECEIVED DEC 5 1995 GEOLOGICAL SURVEY

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 E. Paul

Signed Robert J Dekoski Date 11-28-95
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

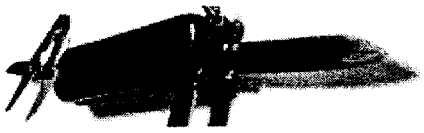
Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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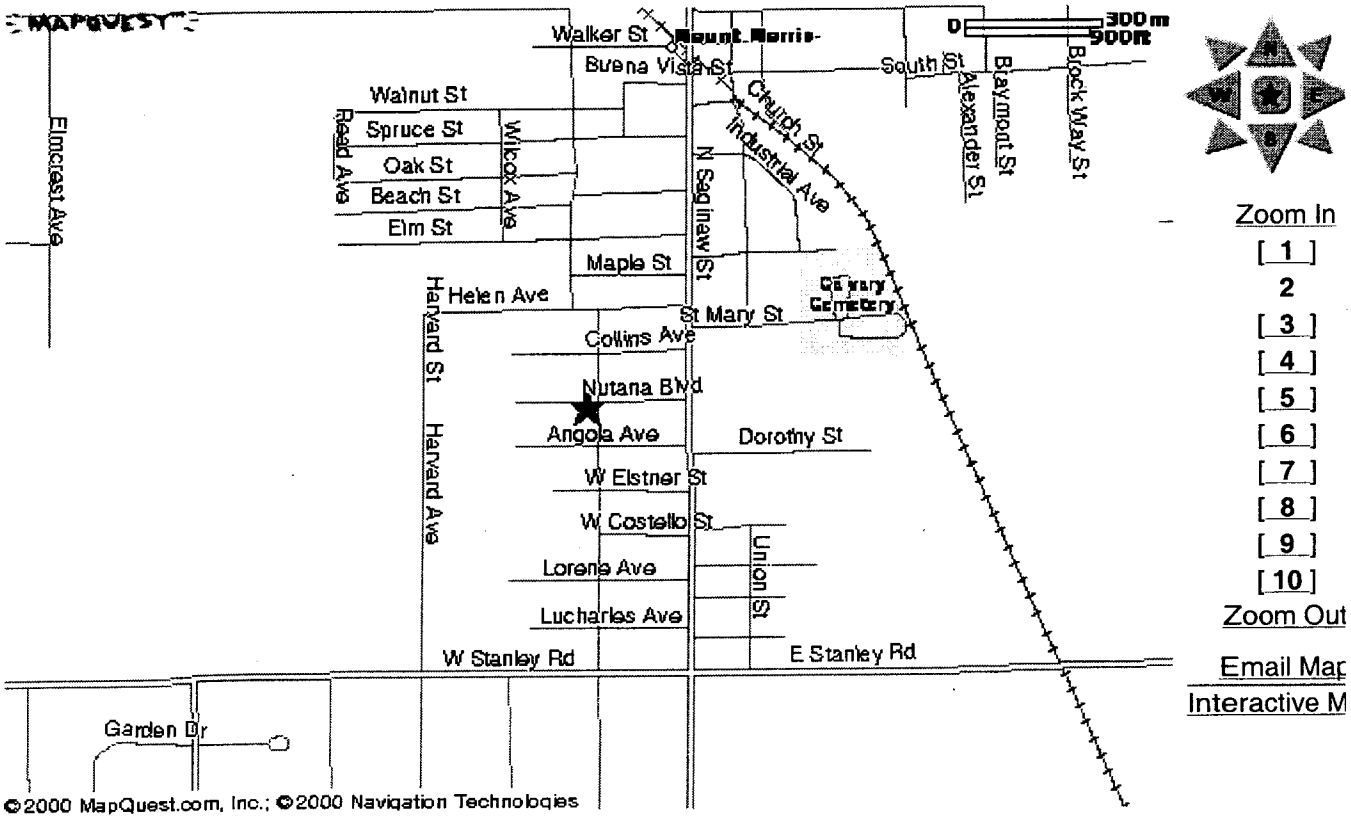
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★ **1075 Nutana, Mount Morris, MI 48458-2116** 164

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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

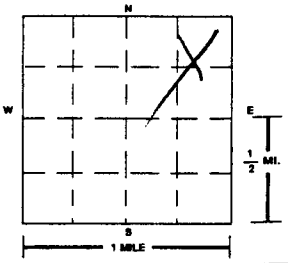
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 NE 1/4 NE 1/4	12	8 N	6 E

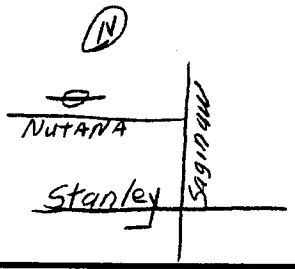
Distance and Direction from Road Intersection: North of Stanley Rd & West of Saginaw

Street Address & City of Well Location: 1076 Nutana

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Columbus Evans, 1076 Nutana, Mt Morris 165

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 235 ft. Date Completed 1 / 20 / 95 ☐ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 156 ft. depth; _____ in. to _____ ft. depth
BORE HOLE: Diameter: 9 in. to 156 ft. depth; _____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 81 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
235 ft. After _____ hrs. Pumping at 30+ G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 156 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8-3/4 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 20+ ft. Direction E
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 3/4 Volts _____
Length of Drop Pipe 120 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	141	141
shale & slate	13	154
slate, sandstone	32	186
sandstone, limestone	49	235

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 1 25 95

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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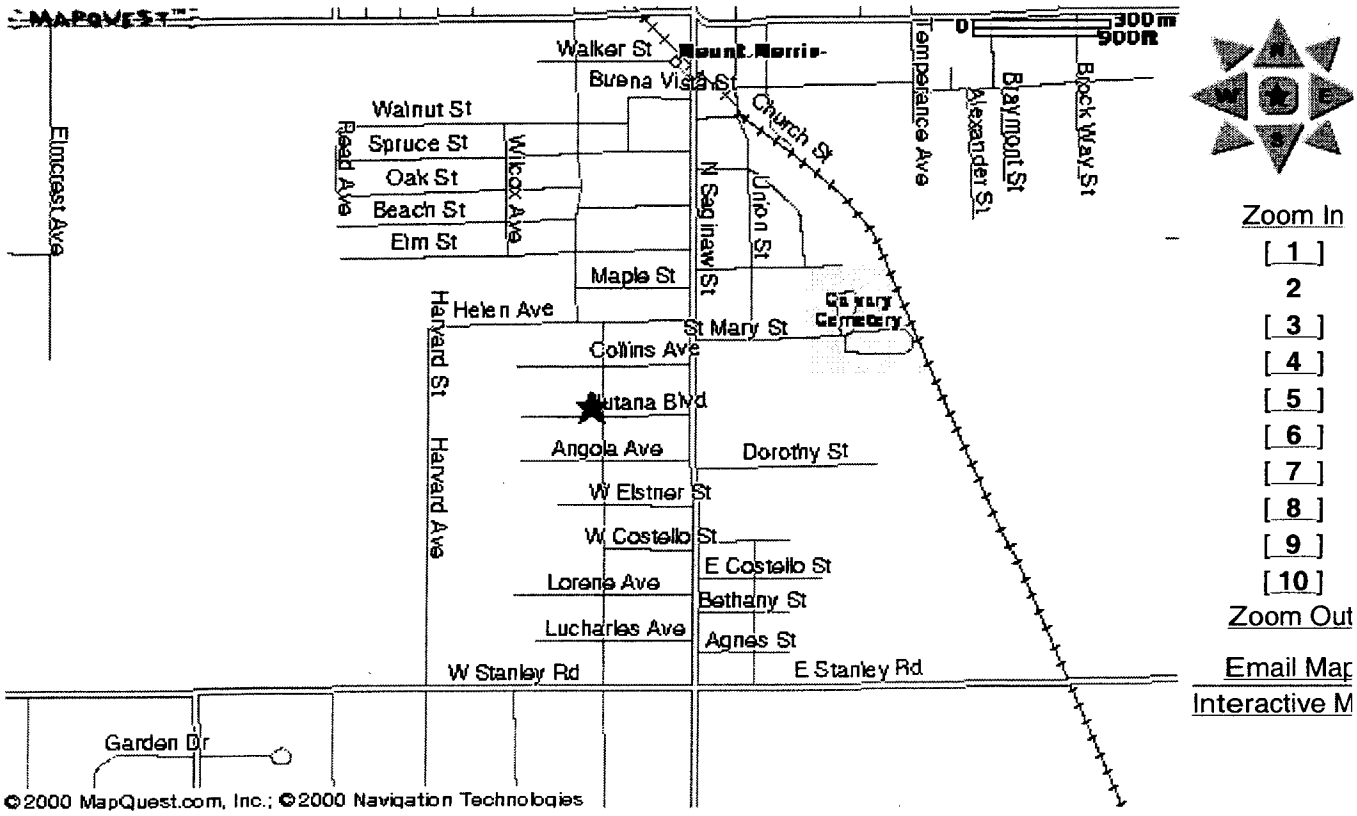
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

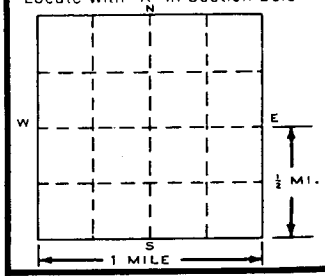
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	1/4 1/4 1/4	12	T 8 N/S	R 6 E/W

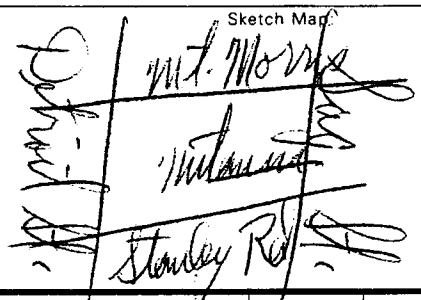
Distance And Direction From Road Intersection: 4 Blks N. of Stanley Rd. W off Saginaw St. 1/2 Blks.

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

Joe Henry Lot

Address 898 Nutanna Mt. Morris, Mi.

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH

300 FT.

Date Completed: MO. 6 DAY 17 YEAR 92

[X] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug

[ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public

[ ] Irrigation [ ] Type IIa Public [ ] Heat pump

[ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING

Diameter: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 180 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface

_____ ft.

Weight _____ lbs./ft.

Drive Shoe [ ] Yes [X] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	70'	70'
Blue Clay	30'	100'
Sand & Clay	25'	125'
Blue Clay	45'	170'
Shale	70'	240'
Sand Stone	30'	270'
Shale	30'	300'

8 SCREEN

[X] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

88 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

300 ft. after 1 hrs. pumping at 30 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adapter [X] 12" above grade

[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From _____ to _____ ft.

[ ] Neat cement [X] Bentonite [ ] Other Cuttings

No. of bags of cement _____ Additives _____

13 Nearest Source of possible contamination

Type Storm Sewer Distance 15 ft. Direction S

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

TYPE: [ ] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

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USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

Thomason Well Drilling did Install pump System

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thomason Well Drilling 1271

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4186 N. Center Rd. Flint

Signed John Thomason Date 6-19-92

AUTHORIZED REPRESENTATIVE

17 Rig Operator's Name:

John Thomason

D67b 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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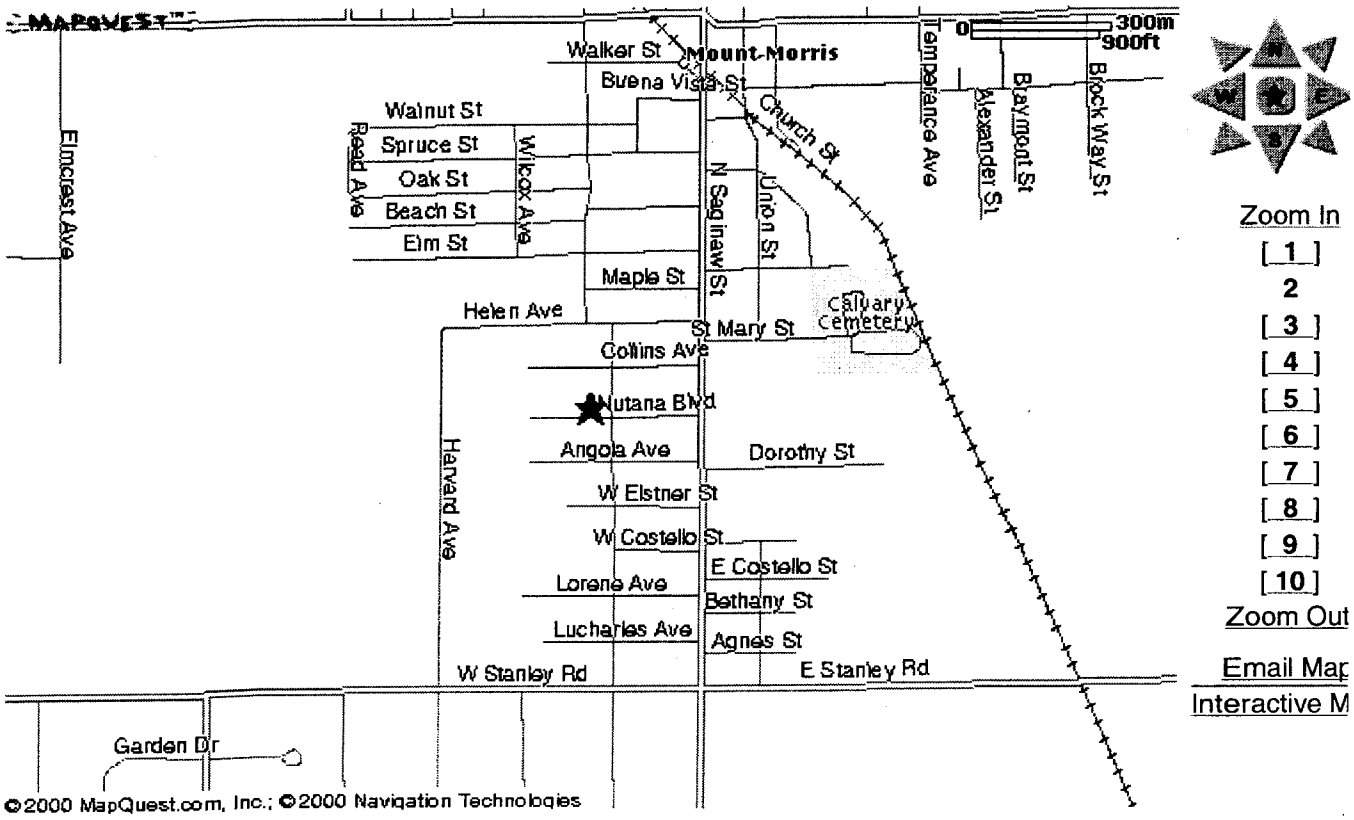
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WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

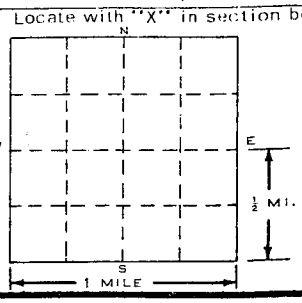
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Nu
		¼ ¼ ¼		N/S.	E/W.

Distance And Direction from Road Intersections 167

Street address & City of Well Location

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:

Address

4 WELL DEPTH: (completed) Date of Completion

ft.

5 ☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☐ Welded ☐

Diam. ____ in. to ____ ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft.

Weight ____ lbs./ft.

Drive Shoe? Yes ☐ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
USE A 2ND SHEET IF NEEDED		

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

____ ft. below land surface

10 PUMPING LEVEL below land surface

____ ft. after ____ hrs. pumping ____ g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☐ Yes ☐ No

☐ Neat Cement ☐ Bentonite ☐ ____

Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

____ feet ____ Direction ____ Type

Well disinfected upon completion ☐ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name ____

Model Number ____ HP ____ Volts ____

Length of Drop Pipe ____ ft. capacity ____ G.P.M.

Type: ☐ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

REGISTERED BUSINESS NAME REGISTRATION NO.

Address ____

Signed ____ Date ____

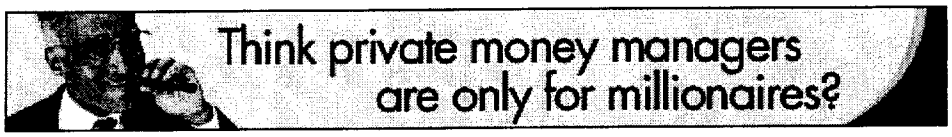
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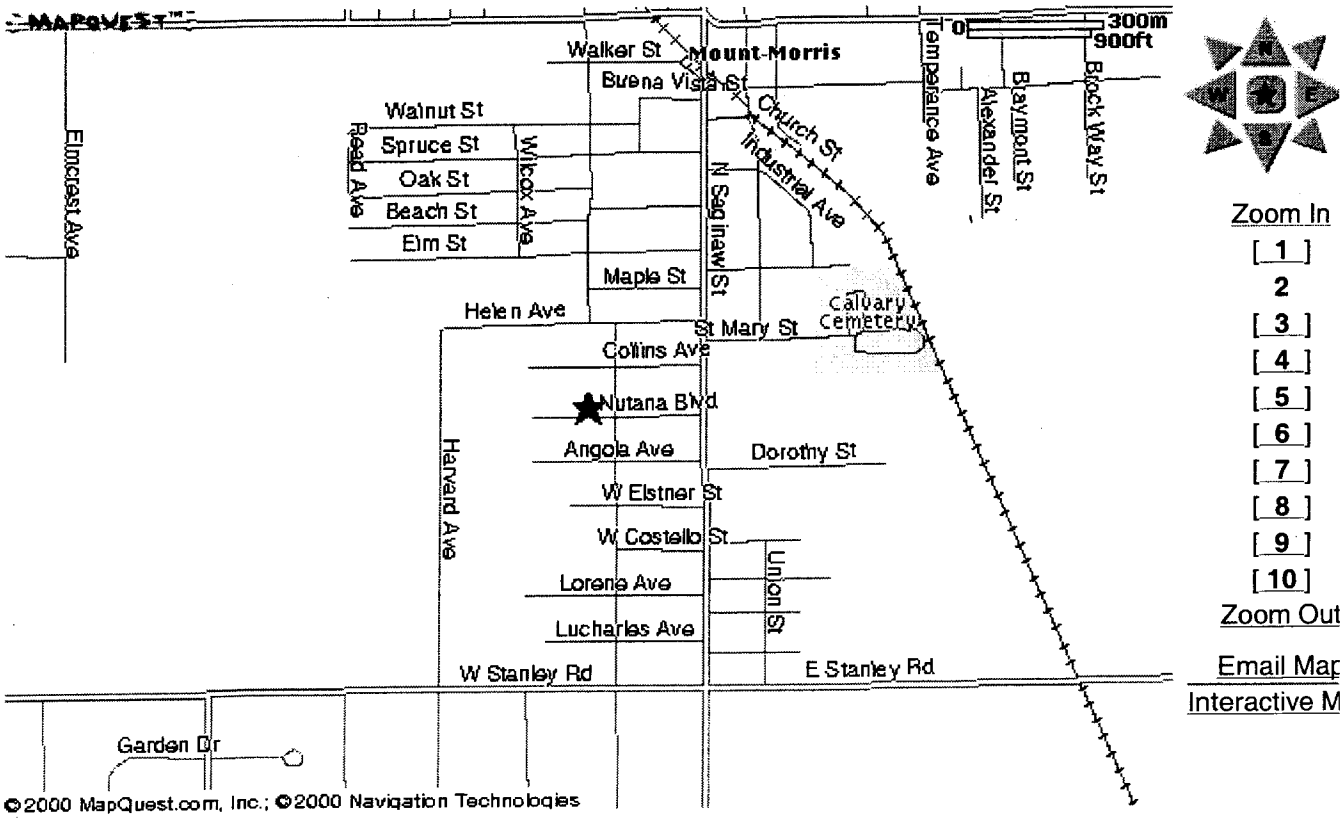
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

1 LOCATION OF WELL

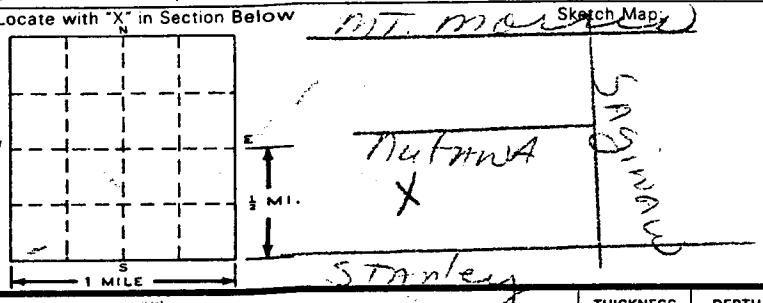
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	1/4 1/4 1/4	12	8 (N)S	6 (E)W

Distance And Direction From Road Intersection

Between Stanley and Mt. Morris S. Side

Street Address & City of Well Location 1117 Nutana

Locate with "X" in Section Below — Sketch Map



3 OWNER OF WELL: Mike Dustin 68

Address 1117 Nutana, Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: 240 FT. Date Completed MO. 7 DAY 9 YEAR 88 [ ] New Well [X] Replacement Well

5 [ ] Cable tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Auger [ ] Jetted [ ] _____

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat pump [ ] Test Well [ ] Type IIb Public [ ] _____

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 145 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8 in. to 145 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe SDR 21 [ ] Yes [ ] No Shale Boot

8 SCREEN: [ ] Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check [ ] Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 145 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

238 ft. after 2 hrs. pumping at 58 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: [ ] Pitless adapter [ ] 12" above grade [ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 1 to 145 ft.

[ ] Neat cement [X] Bentonite [ ] Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. SEWER Distance _____ ft. Direction _____

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP: [X] Not Installed [ ] Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

TYPE: [ ] Submersible [ ] Jet _____

PRESSURE TANK:

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	35'	35'
Sand	23'	58'
Clay	60'	118'
Black Shale	77'	195'
Limestoga	18'	213'
Gray Sandstone	13'	226'
Limestone	5'	231'
Green Sandstone	9'	240'

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort. hwy. Mt. morris MI.

Signed _____ Date 7-15-88
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

RECEIVED Mich. Dept. of Public Health JUL 29 1988 Bureau of Environmental Health

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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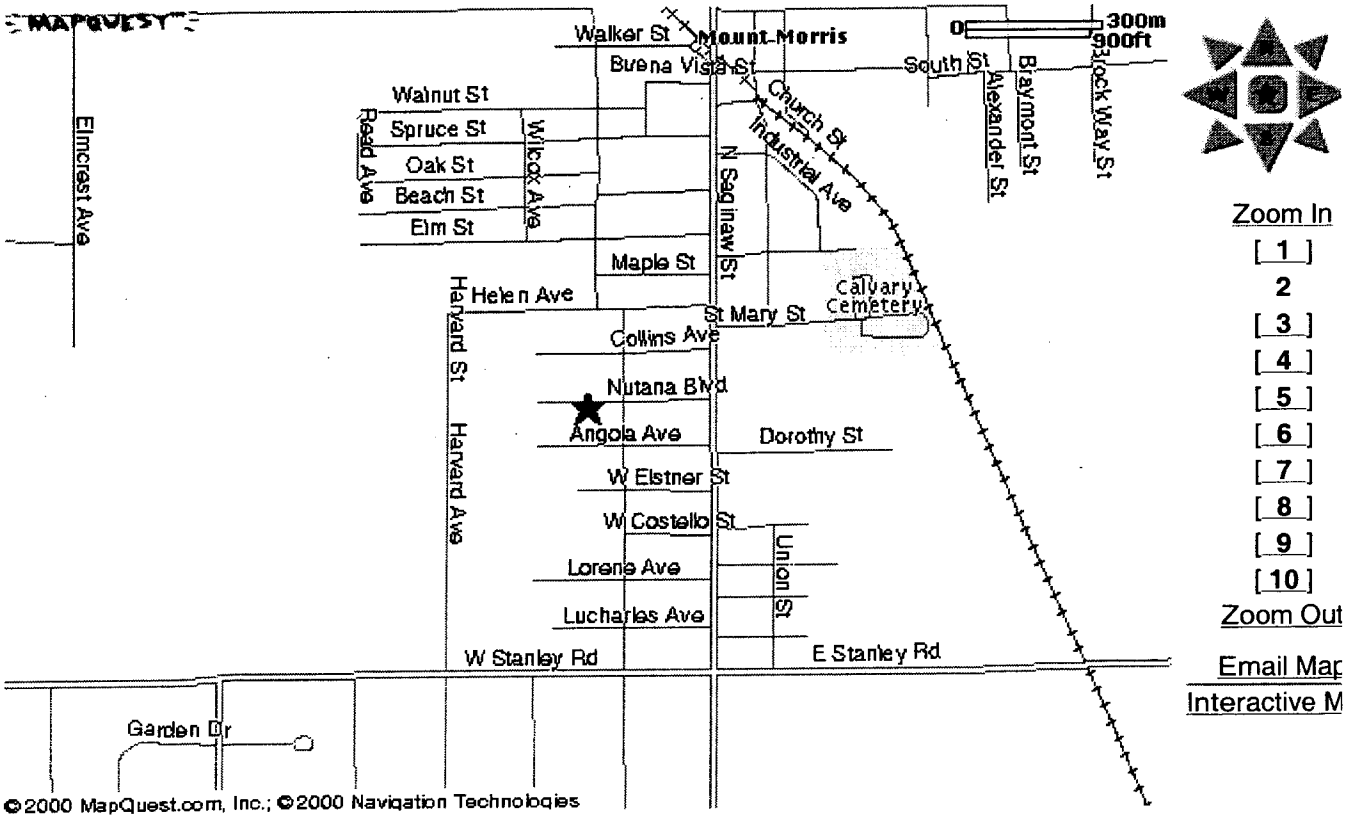
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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mount Morris	¼ ¼ SE¼	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections: 1118 Tutanna St

OWNER No. 118 169

Street address & City of Well Location

3 OWNER OF WELL: Maple Leaf Homes

Address: 1495 N Belsay Rd

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	33	33
Sand	5	38
Fairly soft Clay	105	143
Soft black shale	22	165
Med hard sandrock	23	188
Med hard shale	32	220
Grayish sandrock	15	235

4 WELL DEPTH: (completed) 235 ft. Date of Completion 8-15-68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 4 in. to 165 ft. Depth; Threaded ☒ Welded ☐; Height: Above/Below surface 1 ft.; Weight 375 lbs/ft.; Drive Shoe? Yes ☒ No ☐

___ in. to ___ ft. Depth

8 SCREEN: Type: Rock Dia.: ___ Slot/Gauze ___ Length ___ Set between ___ ft. and ___ ft. Fittings: Well

9 STATIC WATER LEVEL 70 ft. below land surface

10 PUMPING LEVEL below land surface: 80 ft. after 1 hrs. pumping 600 g.p.m.; ___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ___ Chlorides (Cl) ___ Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☐ 12" Above Grade

13 GROUTING: Jetted Mud. Well Grouted? ☒ Yes ☐ No. Material: ☒ Neat Cement ☐ ___ Depth: From 1 ft. to 165 ft.

14 SANITARY: SEPTIC NOT IN. Nearest Source of possible contamination ___ feet ___ Direction ___ Type. Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: Manufacturer's Name Plumber Set. Model Number ___ HP ___ Length of Drop Pipe ___ ft. capacity ___ G.P.M. Type: ☐ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM #4.

*CORRECTED BY: ✓

*ADDITION BY: ___

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

HEME'S WELL DRILLING 0345
REGISTERED BUSINESS NAME REGISTRATION NO

Address: 227 Lincoln Manor Dr.

Signed: George Heme Date: 9-24-68
AUTHORIZED REPRESENTATIVE

D67D 100M 6-66

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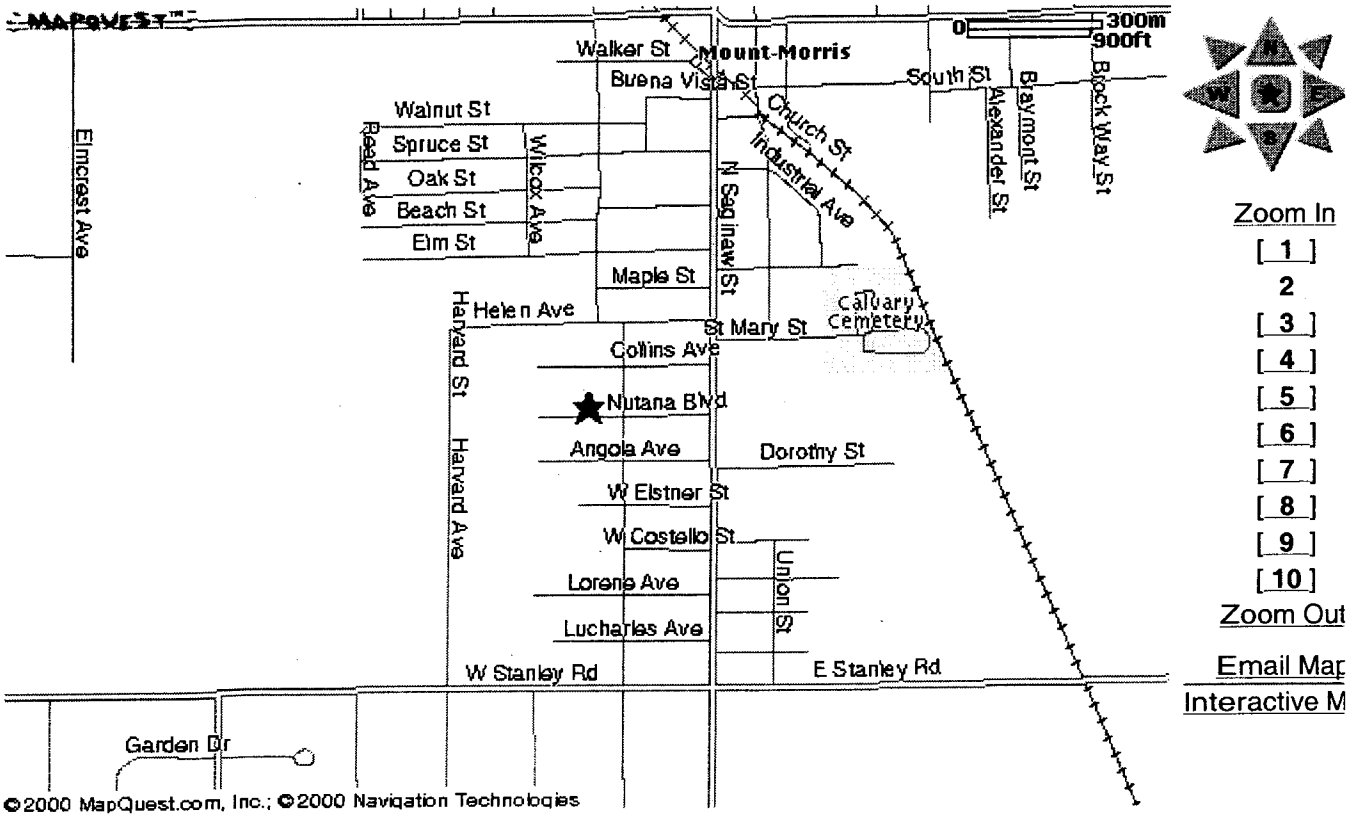
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★ **1118 Nutana Street, Mount Morris, MI 48458-2134** 169

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

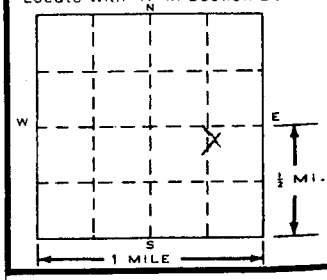
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NW 1/4 NE 1/4 SE 1/4	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

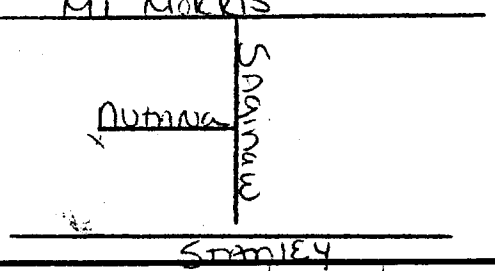
Mt. Morris and Stanley Rd.
Saginaw St. S. Side

Street Address & City of Well Location: 1127 Nutana St. MT Morris 170

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL:

John McCullough
Address: RR Box #31
Naubinway, MI. 49762

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: 230 FT. | Date Completed MO. 09 DAY 21 YEAR 92 | ☐ New Well ☒ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 135 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 135 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.
Weight _____ lbs./ft.
SDR21
Drive Shoe ☐ Yes ☐ No Shale Boot

8 SCREEN: ☒ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:
81 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
200 ft. after 2 hrs. pumping at 59 G.P.M
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 135 ft
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type San. Sewer Distance 50+ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Aeromotor
Model number A12B50 HP 1/2 Volts 230
Length of Drop Pipe 120 ft. capacity 12 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Challenger
Model number 202 Capacity 20 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	60	60
Sand	13	73
Clay	39	112
Black Shale	48	160
Gray Sandstone	30	190
Limestone	20	210
Gray Sandstone	6	216
Limestone	7	223
Green Sandstone	7	230
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
USE A 2ND SHEET IF NEEDED	0	0

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lyons Well Drilling Inc. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy Mt. Morris, MI 8458

Signed Gary M Price Date 10/17/92
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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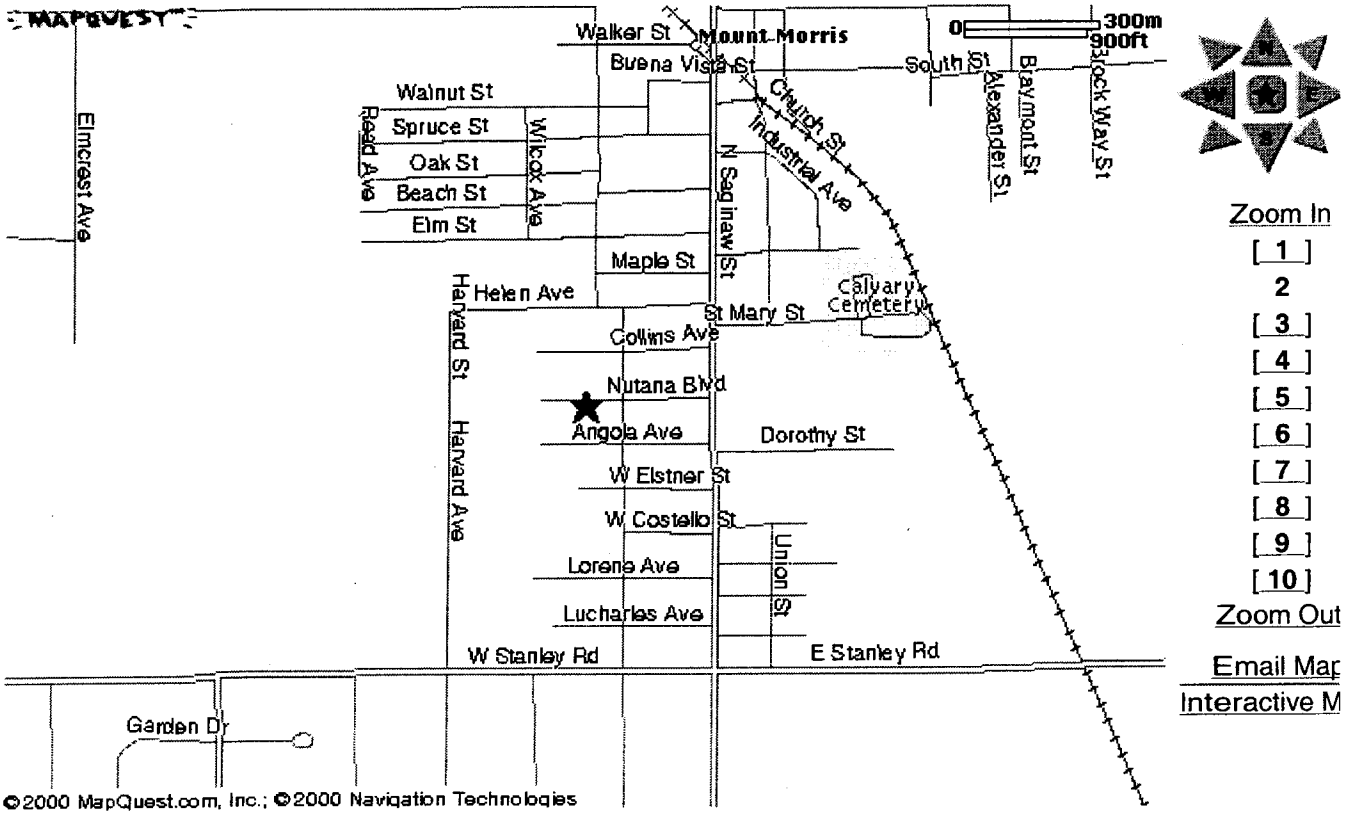
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

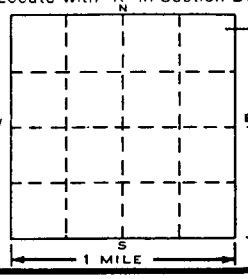
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ ¼	12	8 N/S	6 E/W

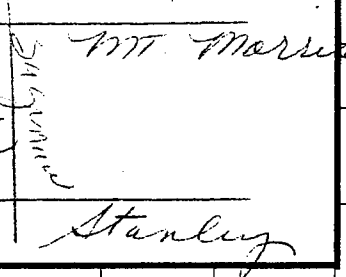
Distance And Direction From Road Intersection: Between Mt. Morris and Stanley of Saginaw — N. Side

Street Address & City of Well Location: 1128 Nutana

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Mark Moss

Address: 1128 Nutana, Mt. Morris, MI. 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH: (completed) 260 ft. — **Date of Completion** 6-21-87

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE: [X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING: Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 150 ft. depth
___ in. to ___ ft. depth
Grouted Drill Hole Diameter
___ in. to ___ ft. depth
___ in. to ___ ft. depth

Height: Above/Below
Surface ___ ft.
Weight Sdr 21 lbs./ft.
Drive Shoe [ ] Yes [ ] No Shale Boot

8 SCREEN: [ ] Not Installed

Type ___ Diameter ___
Slot/Gauze ___ Length ___
Set between ___ ft. and ___ ft.
FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ___ ft. Other ___

9 STATIC WATER LEVEL:
81 ft. below land surface [ ] Flo

10 PUMPING LEVEL: below land surface
200 ft. after 2 hrs. pumping at 58 G.P.M.
___ ft. after ___ hrs. pumping at ___ G.P.M.

11 WELL HEAD COMPLETION: [X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED? [ ] No [X] Yes From 1 to 150
[ ] Neat cement [X] Bentonite [ ] Other ___
No. of bags of cement ___ Additives ___

13 Nearest source of possible contamination
Type SEWER Distance ___ ft. Direction ___
Well disinfected upon completion? [X] Yes [ ] No

14 PUMP: [X] Not Installed [ ] Pump Installation Only
Manufacturer's name ___
Model number ___ HP ___ Volts ___
Length of Drop Pipe ___ ft. capacity ___ G.P.M.
TYPE: [ ] Submersible [ ] Jet ___
PRESSURE TANK:
Manufacturer's name ___
Model number ___ Capacity ___ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	50'	50'
Sand & Gravel	30'	80'
Clay	40'	120'
Black Shale	90'	210'
Limestone	12'	222'
Sandstone	38'	260'

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
AUG 07 1987
Bureau of Environmental and Occupational Health

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. — REGISTERED BUSINESS NAME — 1886 — REGISTRATION NO.

Address: G-8107 N. Dort. Hwy. Mt. Morris, MI.

Signed ___ AUTHORIZED REPRESENTATIVE Date 6-23-87

D67d 2/84

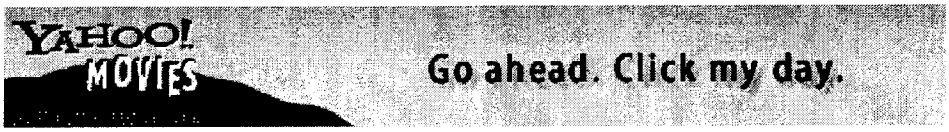
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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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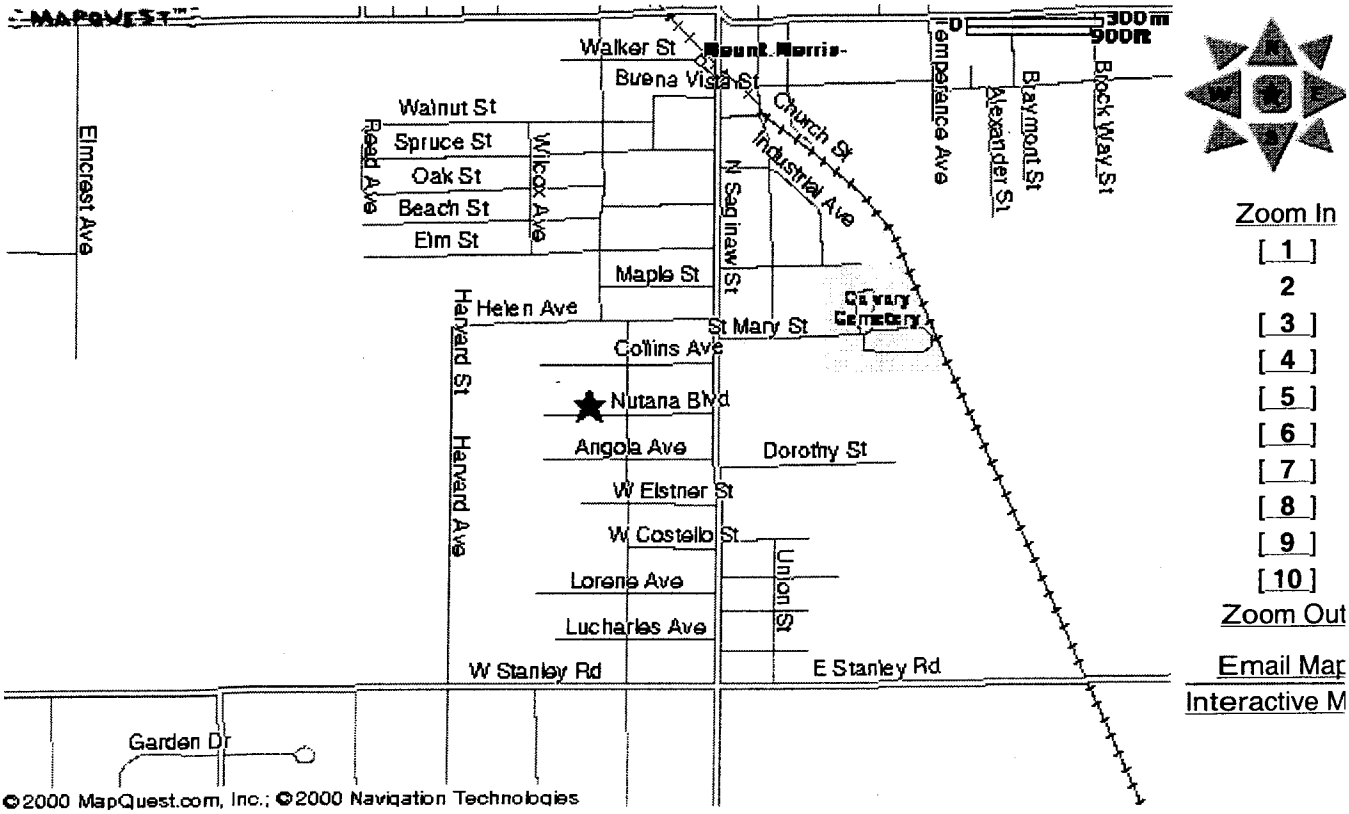
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AUG 03 1971

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

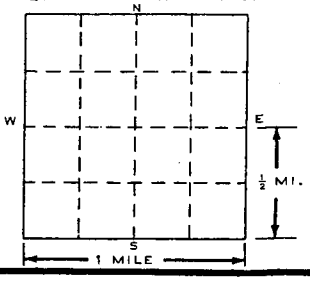
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ SW¼ SW¼	7	8 N/~~S~~	7 ~~E~~ W

Distance And Direction from Road Intersections: Corner of Stanley & N Saginaw

Street address & City of Well Location: 7040 N Saginaw St

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:
Greg's Restaurant
Address 7040 N Saginaw
Mt Morris 172

4 WELL DEPTH: (completed) Date of Completion
240 ft. 6-30-71

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☐ Domestic ☒ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐ Diam. 4 in. to 151 ft. Depth
____ in. to ____ ft. Depth
Height: Above/~~Below~~ Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
yellow clay	16	16
Blue clay	77	83
Brown Sand	7	90
Blue clay	46	136
Gravely clay	12	148
Blue Shale	3	151
Sand Rock	18	169
Gray Shale	14	183
Brown Stone	15	198
Blue Shale	13	211
Sand Stone	22	233
Black Shale	7	240
DRILLER, ITEM NO.		
~~CORRECTED~~ BY:		
**ADDITION BY:		

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
85 ft. below land surface

10 PUMPING LEVEL below land surface
125 ft. after ~~__~~ hrs. pumping 12 g.p.m
____ ft. after ~~__~~ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted? ☐ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 0 ft. to 151 ft.

14 Nearest Source of possible contamination
80 feet So Direction Septic Tank
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Myers
Model Number SF10 21-R1 Volts 220
Length of Drop Pipe 149 ft. capacity 14 G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Badu Well Drilling 0201
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 2296 E Frances Rd
Signed L. Badu Date 7-2-71
AUTHORIZED REPRESENTATIVE

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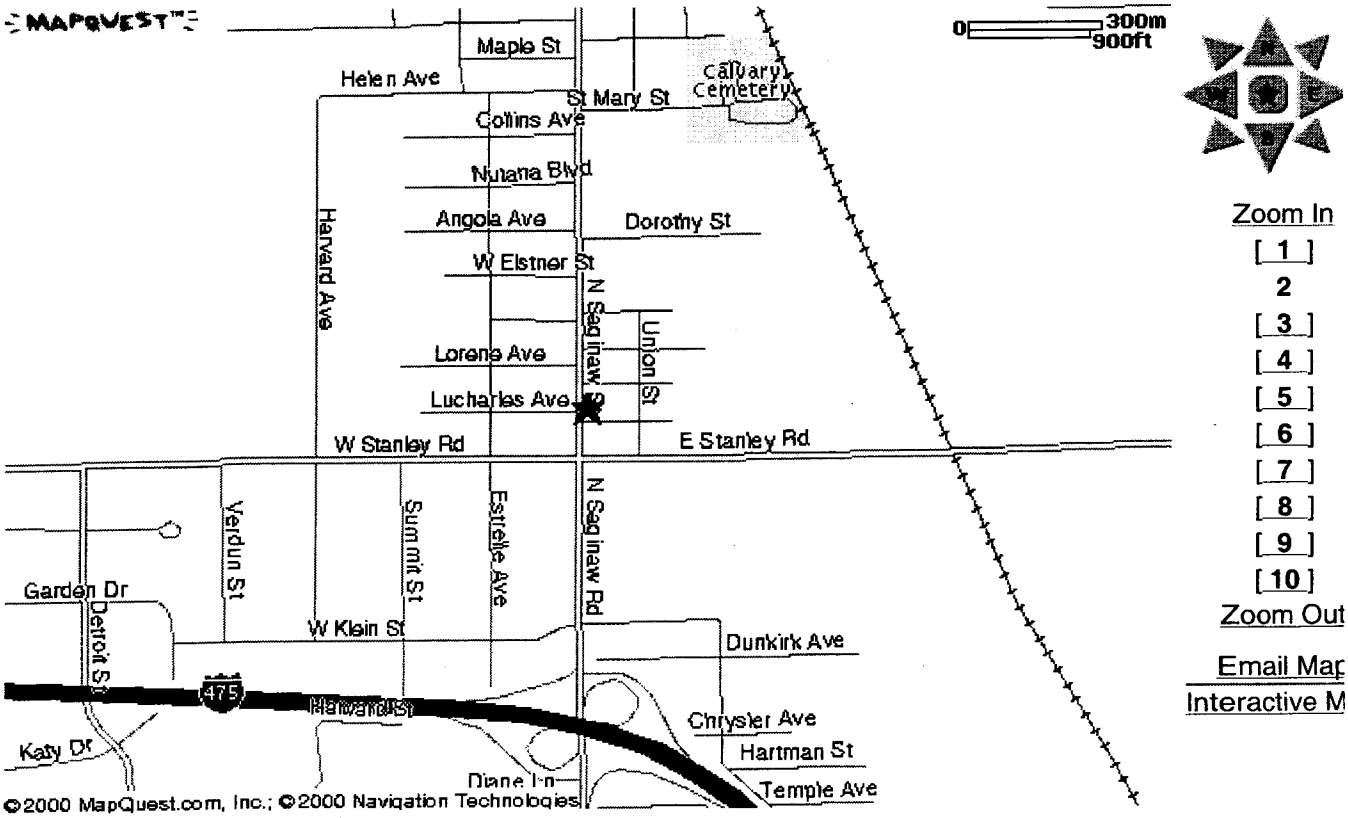
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

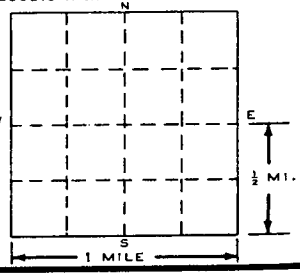
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE ¼ SE ¼ SE ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection: North of Stanley Rd. on west side between Lucharles Ave. & Lorene Ave.

Street Address & City of Well Location: 7047 N. Saginaw St. 173 Mt. Morris

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL:

Taco Bell Corporation
Address 17901 Von Karman
Irvine, California 92714-6212

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: 265 FT. — Date Completed MO. 8 DAY 18 YEAR 94 — ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☐ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☒ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 151 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface 1 ft.
Weight SDR17 & SDR21 lbs./ft.
Drive Shoe ☐ Yes ☐ No Shale Boot

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 80 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface
140 ft. after 2 hrs. pumping at 1200 G.P.M. H.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 151 ft.
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives EZ Mud

13 Nearest source of possible contamination
Type Sewer Distance 75 ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Gould
Model number 13EM10422 HP 1 Volts 230
Length of Drop Pipe 185 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well-Rite
Model number WR260-03 Capacity 220 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	40	40
Sand	20	60
Gray clay	86	146
Sandstone	14	160
Limestone	20	180
Green shale	10	190
Sandstone & limestone mixed	50	240
Sandstone	15	255
Limestone & sandstone mixed	8	263
Black shale	2	265

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co. Inc. — REGISTERED BUSINESS NAME
25-1947 — REGISTRATION NO.
Address 5370 Corunna Rd. Flint, MI. 48532
Signed William D Burns — AUTHORIZED REPRESENTATIVE
Date 8-23-94

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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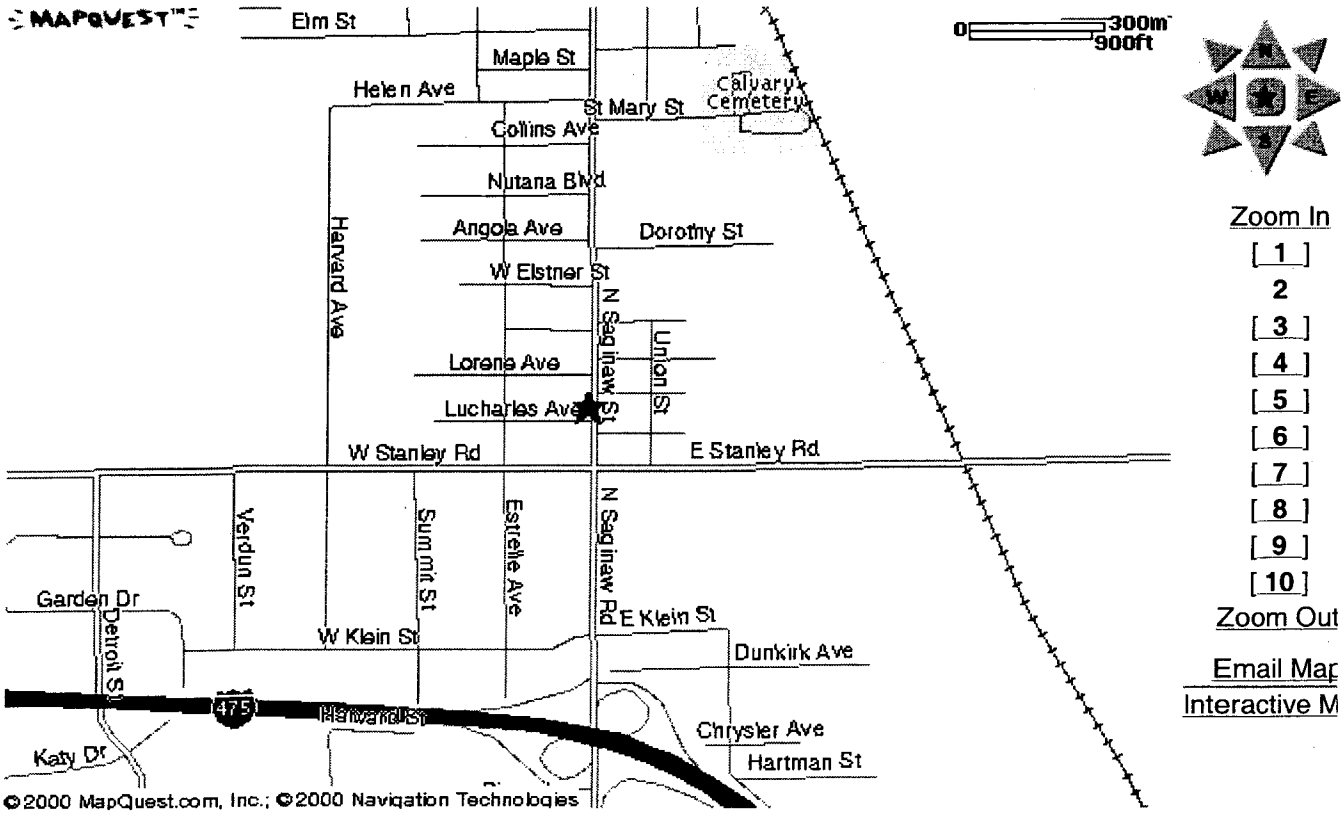
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

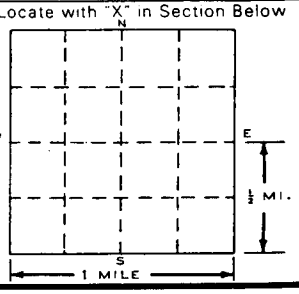
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE¼ SE¼ SE¼	12	8N/S	6 E/W

Distance And Direction From Road Intersection: Saginaw St. north past Stanley Rd. to Family Dollar Store on the southwest corner of Saginaw St. & Lorene Ave.

Street Address & City of Well Location: 7067 N. Saginaw St. Mt. Morris 174

Locate with "X" in Section Below — Sketch Map:



3 OWNER OF WELL

Address: Morgan Construction Co. 3499 S. Linden Rd. Suite 1 Flint, MI. 48507

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH

240 FT. | Date Completed MO. 6 DAY 29 YEAR 93 | ☒ New Well ☐ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE

☐ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☒ Type IIb Public ☐ ____

7 CASING

Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 150 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

____ in. to ____ ft. depth

Height: Above/Below Surface 1 ft.

Weight SDR17 & SDR21 lbs./ft.

Drive Shoe ☐ Yes ☐ No Shale Boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Clay	65	75
Gravel	10	85
Clay	40	125
Shale	24	149
Limestone & sandstone mixed	91	240

USE A 2ND SHEET IF NEEDED

8 SCREEN

☐ Not Installed

Type ____ Diameter ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL

95 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

120 ft. after 1 hrs. pumping at 1000 G.P.M. H.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 150 ft.

☒ Neat cement ☐ Bentonite ☐ Other ____

No. of bags of cement 26 Additives ____

13 Nearest source of possible contamination

Type Sewer Distance 75 ft. Direction NE

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

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ENVIRONMENTAL AND OCCUPATIONAL HEALTH SERVICES

14 PUMP

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Myers

Model number ____ HP 1/2 Volts 230

Length of Drop Pipe 100 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet ____

PRESSURE TANK:

Manufacturer's name Well-Rite

Model number WR120-04 Capacity 80 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling Co. (REGISTERED BUSINESS NAME) 25-1947 (REGISTRATION NO.)

Address 5370 Corunna Rd. Flint, MI. 48532

Signed William D Burns (AUTHORIZED REPRESENTATIVE) Date 6-30-93

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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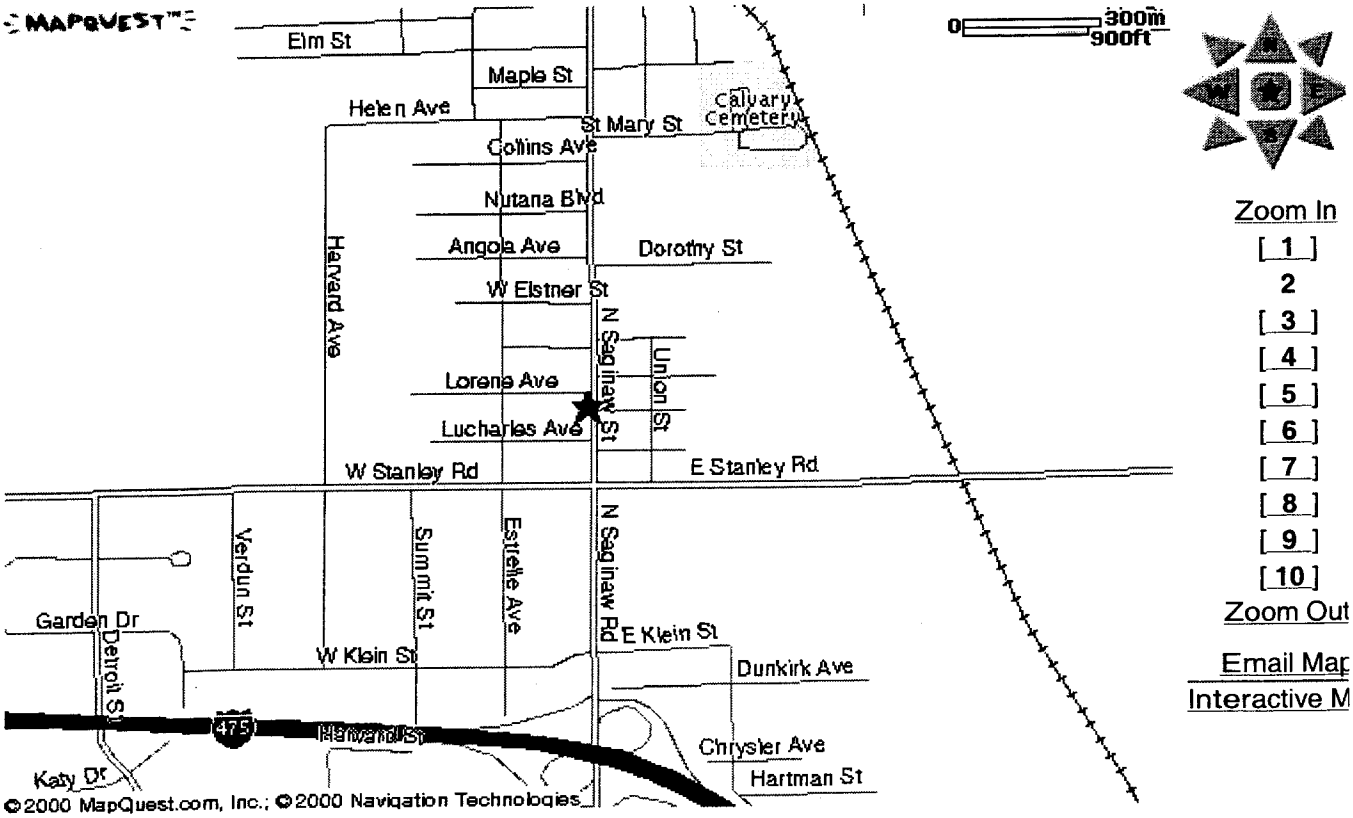
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★ **7067 N. Saginaw Street, Mount Morris, MI 48458-2142** 174

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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

SE, NE, SE *

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Mt Morris	~~NE¼ SE¼ SE¼~~	12	8 N/S.	6 E/W.

Distance And Direction from Road Intersections: 1000 ft N. of Stanley on N. Saginaw 225 west

OWNER No. 175

Street address & City of Well Location

3 OWNER OF WELL: Spina Brust

Address: 7101 N. Saginaw

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Sand	0	5
Yellow clay	5	21
Blue clay	21	57
Sandy clay	57	64
Blue clay	64	82
Sand clay Stones	82	91
Gray clay	91	122
Hard pan	122	131
Sand Gravel	131	142
Blue Shale	142	160
Brown Shale	160	168
Sand Stone	168	200
Gray Shale	200	208
Brown Shale	208	220
Sand Stone	220	245
Black Shale	245	263
Brown Shale	263	270
Sand Stone	270	293
Blue Shale	293	305

4 WELL DEPTH: (completed) 305 ft. Date of Completion 4-21-67

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ___

7 CASING: Threaded ☒ Welded ☐
Diam. 4 in. to 160 ft. Depth
___ in. to ___ ft. Depth
Height: Above/Below surface 1 ft.
Weight ___ lbs/ft.
Drive Shoe? Yes ☒ No ☐

8 SCREEN:
Type: ___ Dia.: ___
Slot/Gauze ___ Length ___
Set between ___ ft. and ___ ft.
Fittings:

9 STATIC WATER LEVEL 60 ft. below land surface

10 PUMPING LEVEL below land surface
100 ft. after 3 hrs. pumping 25 g.p
___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ___ Chlorides (Cl) ___
Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☒ 12" Above Grade

13 GROUTING:
Well Grouted? ☐ Yes ☐ No
Material: ☒ Neat Cement ☐ Aquagel
Depth: From 0 ft. to 160 ft.

14 SANITARY:
Nearest Source of possible contamination
70 feet Direction EAST Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
Manufacturer's Name MYERS
Model Number ___ HP 3
Length of Drop Pipe 150 ft. capacity 20 G.P.M.
Type: ☒ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

*CORRECTED BY

**ADDITION BY

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Baden Well Drilling — REGISTERED BUSINESS NAME
0201 — REGISTRATION NO.

Address 2296 E Pierson Rd

Signed Lawrence Baden — AUTHORIZED REPRESENTATIVE
Date 4-23-67

D67D 100M 6-66 JUL 24 1967

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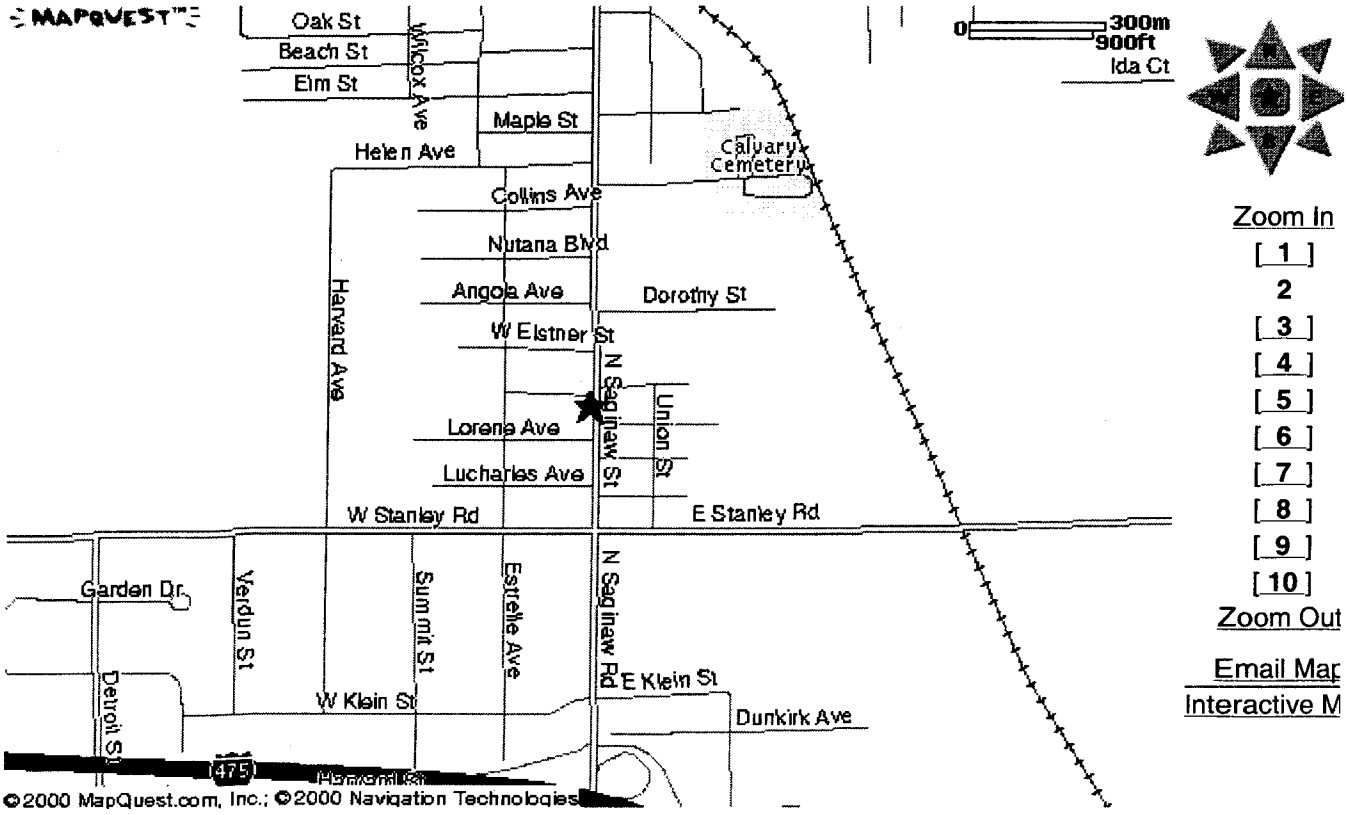
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7101 N. Saginaw, Mount Morris, MI 48458-2129 175

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

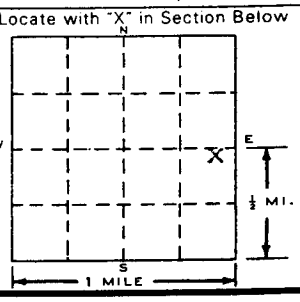
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mount Morris	se ¼ ne¼ ne¼	12	6 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: Rob Blake

Address: 7163 N. Saginaw St. Mt. Morris, Mi. 48458

Address Same As Well Location? ☒ Yes ☐ No 176

4 WELL DEPTH: (completed) 247 ft. | **Date of Completion** 10-15-86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 155 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15	15
Blue Clay	20	35
Sand & Gravel	20	55
Blue Clay	10	65
Sand & Gravel	25	90
Blue Clay	40	130
Blue clay & Stones	20	150
Shale (Black)	12	162
Shale	23	185
Limestone	10	195
Sandstone	6	201
Limestone	15	216
Sandstone	8	224
Limestone	10	234
Sandstone	13	247

USE A 2ND SHEET IF NEEDED

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 90 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

160 ft. after 1 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 160 to 40 ft.

☐ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Blue Angel

Model number _____ HP 1 Volts 220

Length of Drop Pipe 160 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

RECEIVED
Mich. Dept. of Public Health
APR 02 1987
Bureau of Environmental Protection

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — REGISTERED BUSINESS NAME — REGISTRATION NO. 1242

Address 1151 Taylor St 1240

Signed L J Dekoski — AUTHORIZED REPRESENTATIVE — Date 3-27-87

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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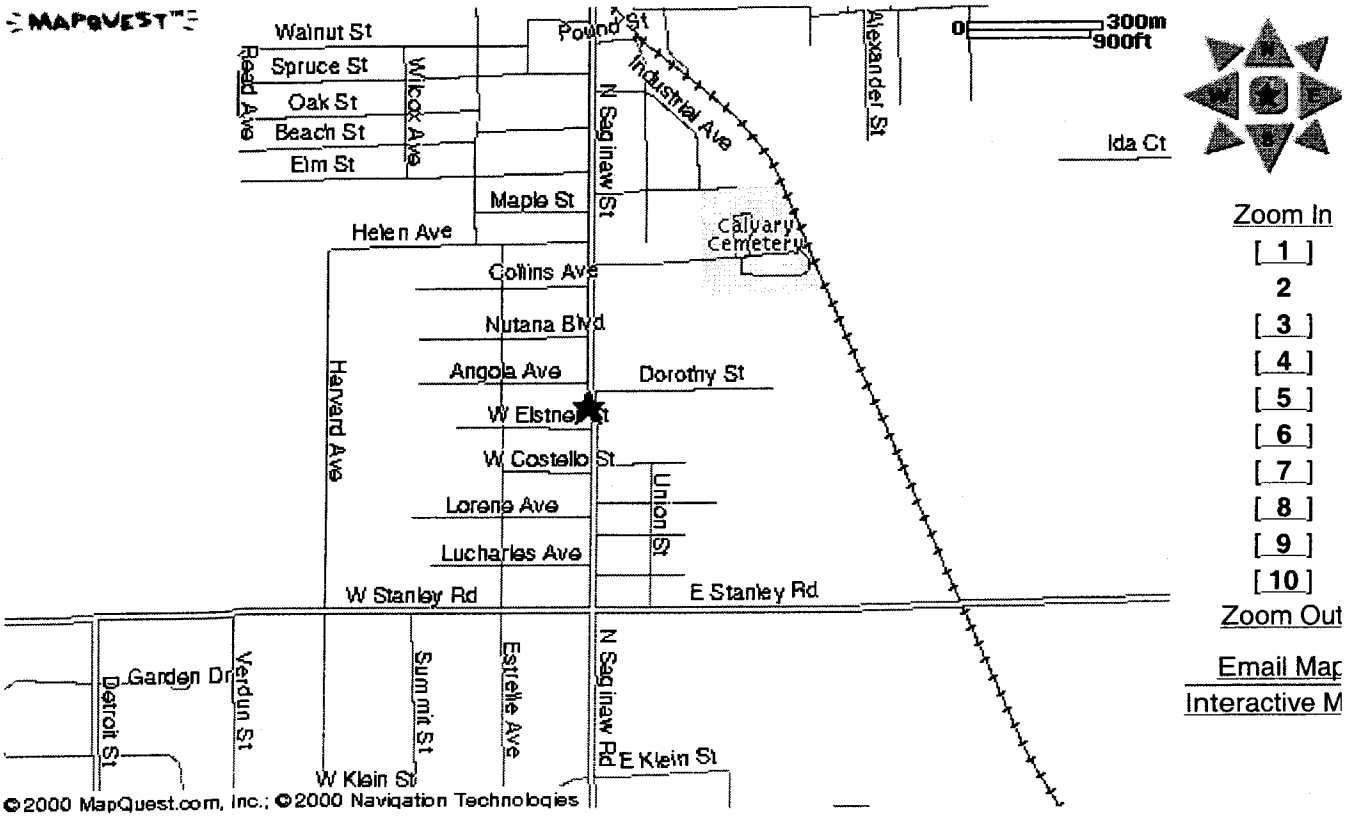
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GEOLOGICAL SURVEY NO. [ ]

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

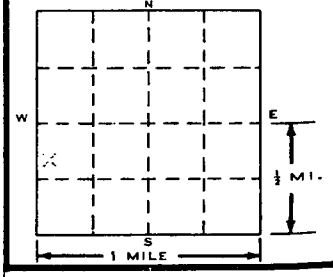
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW 1/4 NW 1/4 SW 1/4	7	N/S	E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location 6-7133 N. Saginaw St

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

17

Name Lee Flynn

Address 6-7133 N. Saginaw St
Mt. Morris, MI 4845

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH: (completed)

247 ft.

Date of Completion 7-13-39

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

6 in. to 132 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

100 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

110 ft. after _____ hrs. pumping at 1 G.P.M. 25

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☒ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 132 to 0 ft.

☐ Neat cement ☒ Bentonite ☐ Other clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name F M B

Model number _____ HP 1 Volts 220

Length of Drop Pipe 130 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name A-trol

Model number M. 203 Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	10	10
Blue Clay	30	40
Sand	25	65
Blue Clay	90	155
Sandstone	15	170
Shale	12	182
Limestone	40	222
Sandstone	25	247

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drillinn, inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J. DeKoski Date 10-28-89
AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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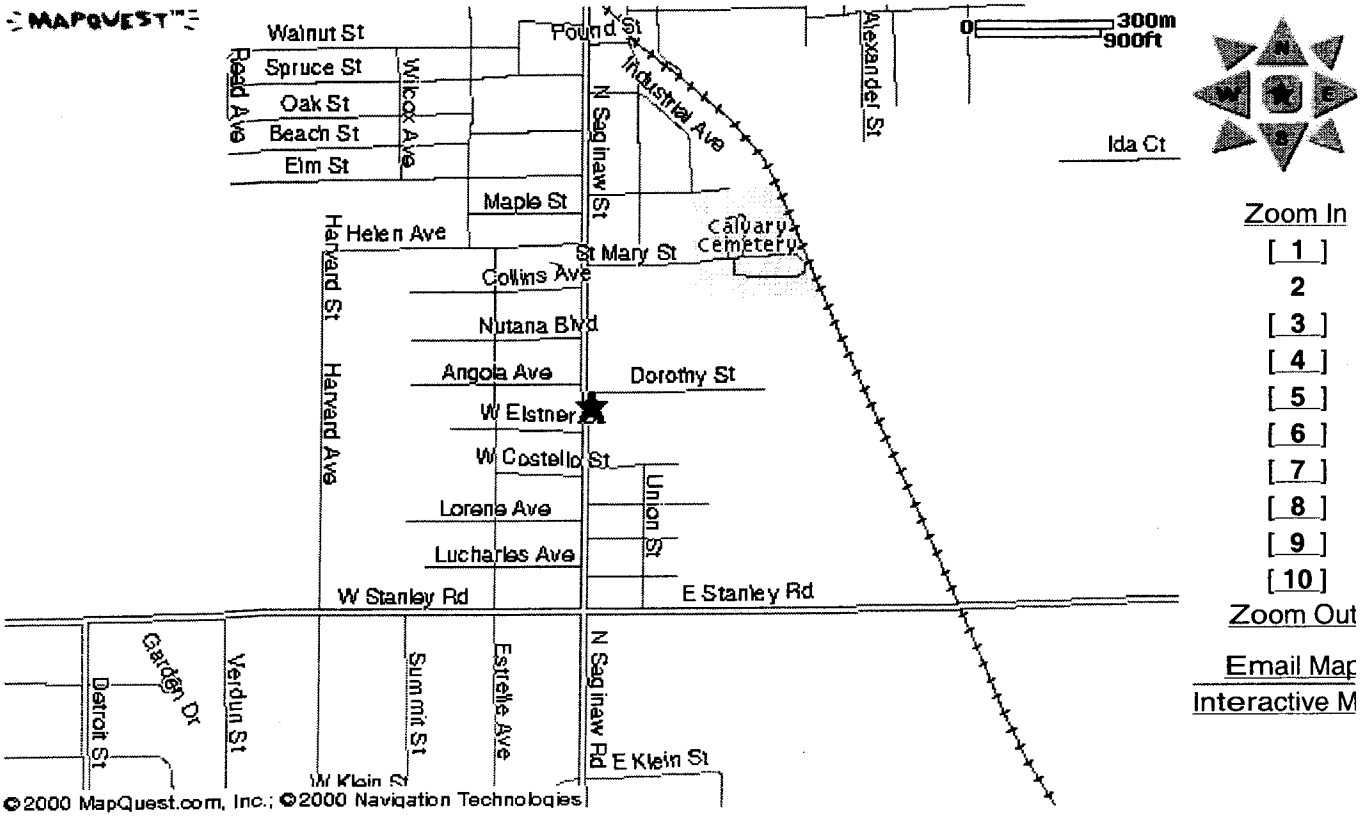
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GEOLOGICAL SURVEY SAMPLE No.

3 SEP 02 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

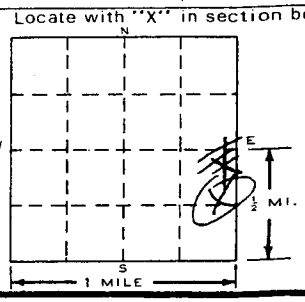
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SE ¼ NE ¼ SE ¼	12	8 (N/S.)	6 E

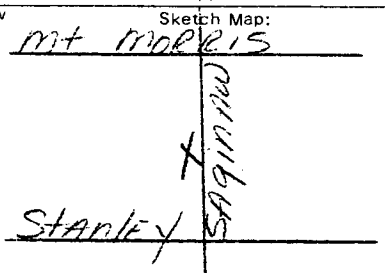
Distance And Direction from Road Intersections: Stanley & Mt. Morris Rd. W side

Street address & City of Well Location: G-7195 N. Saginaw, Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: Dick Nelson & Son Sales & Service

Address: G-7195 N. Saginaw Mt. Morris, MI 178

4 WELL DEPTH: (completed) 302 ft. Date of Completion: June 1, 1977

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐

4 in. to 189 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft.

Weight 11 lbs./ft.

Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	6'	6'
Clay & Gravel	39'	45'
Sand & Gravel	35'	85'
Clay & Gravel	95'	180'
Shale	9'	189'
Sandstone	20'	209'
Limestone	6'	215'
Sandstone	75'	290'
Limestone	12'	302'
USE A 2ND SHEET IF NEEDED		

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

80 ft. below land surface

10 PUMPING LEVEL below land surface

277 ft. after 3 hrs. pumping 50 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From 1 ft. to 189 ft.

14 Nearest Source of possible contamination

____ feet ____ Direction sewer Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name Webtrol

Model Number 102SC711CS-B HP 3/4 Volts 230

Length of Drop Pipe 120 ft. capacity 10 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.

*CORRECTED BY MSB

**ADDITION BY

ELEVATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl L Lyons (AUTHORIZED REPRESENTATIVE) Date June 3, 1977

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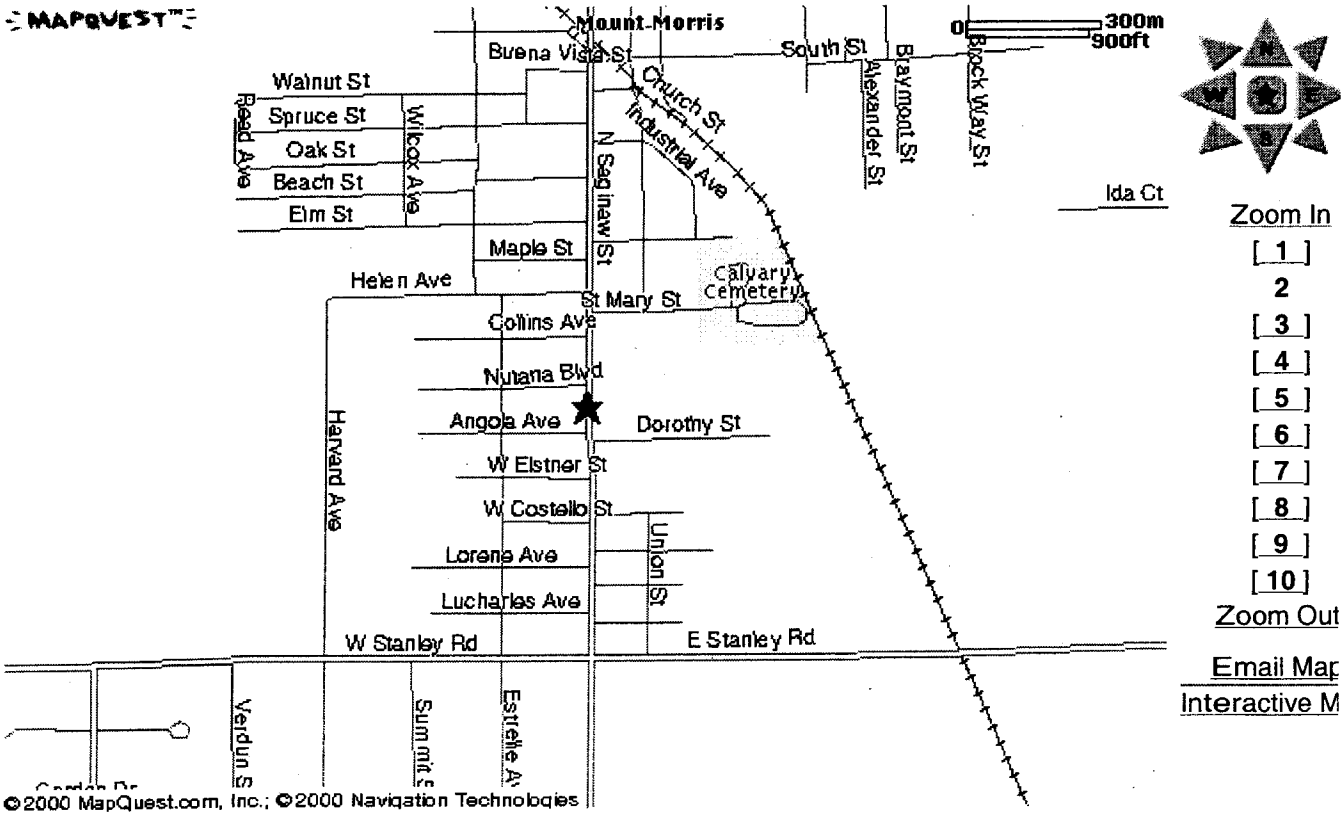
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GEOLOGICAL SURVEY SAMPLE No. [ ]

AUG 1 0 1979

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Nur
Genesee	Genesee	SW¼ SW¼ SW¼	7	8 N/S.	7 E/W.

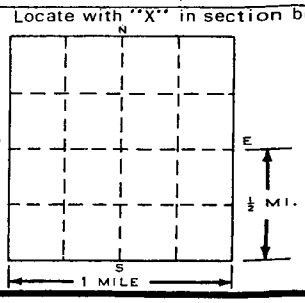
Distance And Direction from Road Intersections

G-7200 N. Saginaw St. - north of Stanley Rd. on east side.

Street address & City of Well Location 179

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Address Morgan Construction Co.
G-5091 Miller Rd.
Flint, Michigan 48507

4 WELL DEPTH: (completed) 240 ft. Date of Completion 6-8-79

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☐ Domestic ☒ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 168 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/~~Below~~ Surface 1 ft.
Weight 11 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	80	80
Gravel	60	140
Clay	10	150
Clay & gravel	18	168
Sandstone	72	240

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL

80 ft. below land surface

10 PUMPING LEVEL below land surface

100 ft. after 2 hrs. pumping 1500 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From 21 ft. to 168 ft.

14 Nearest Source of possible contamination
35 feet ____ Direction Sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Flint & Walling
Model Number ____ HP 1 Volts 208
Length of Drop Pipe 147 ft. capacity 10 G.P.M.
Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER. ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Burns Well Drilling (REGISTERED BUSINESS NAME) 0099 (REGISTRATION NO.)

Address 5370 Corunna Rd. Flint, Mich. 48504

Signed Marianne Burns (AUTHORIZED REPRESENTATIVE) Date 6-12-79

D67d 100M (Rev. 12-68)

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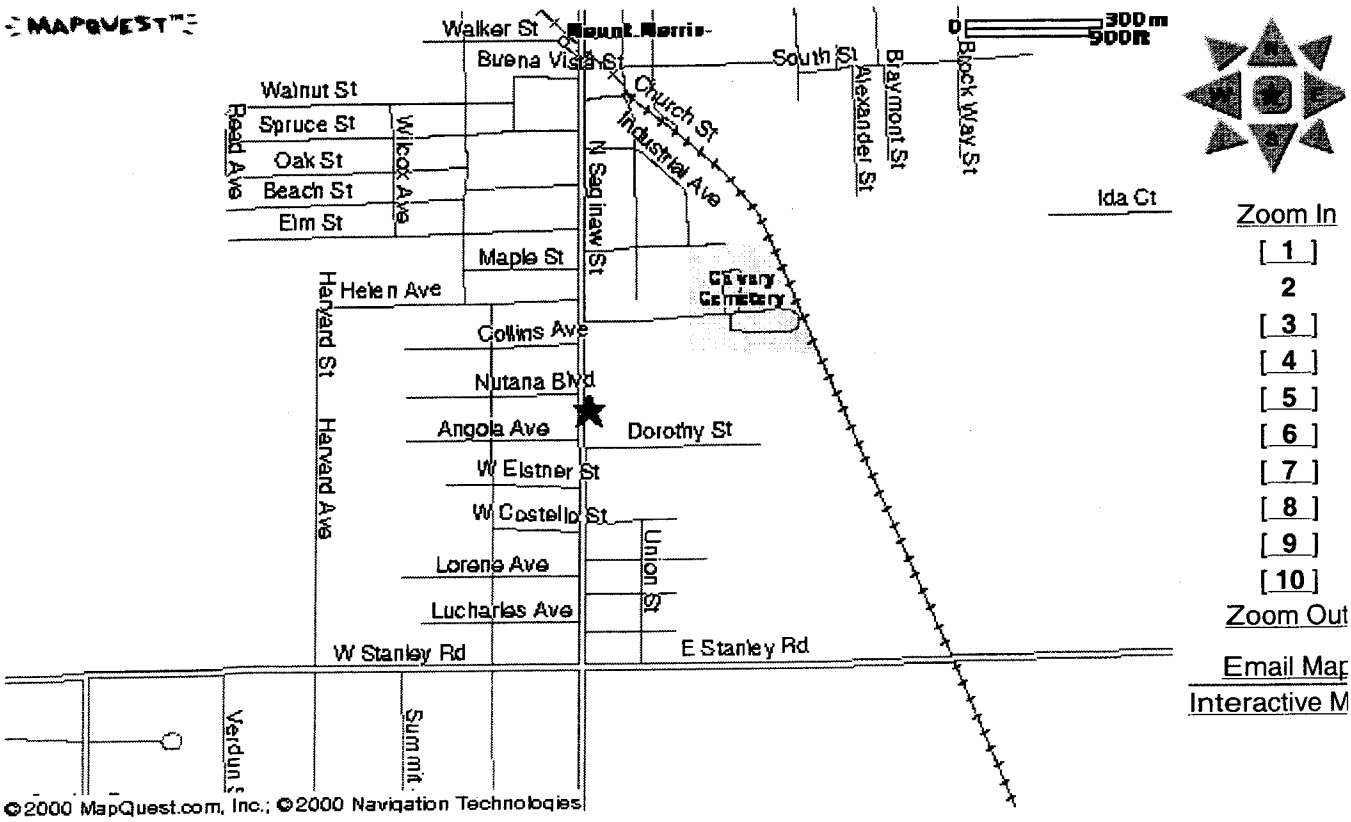
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7200 North Saginaw Street, Mount Morris, MI 48458-2131 179

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No. [ ]

J 1976

3

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

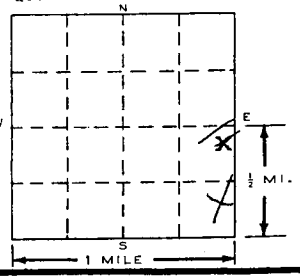
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NE ¼ ~~NE~~ SE ¼ SE ¼	12	8 N/S.	6

Distance And Direction from Road Intersections

Street address & City of Well Location 7211 N. Saginaw 180

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:
Mann Machinery Sales Co
Address G-6060 N. Saginaw St
Mt. Morris, Mi

4 WELL DEPTH: (completed) Date of Completion
245 ft. 9-23-76

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
4 in. to 152 ft. Depth
____ in. to ____ ft. Depth
Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand Clay	8	8
Gravel	24	32
Blue Clay	90	122
Sand & Gravel	12	134
Blue Clay & Stones	18	152
Water Rock	18	170
Limestone	15	185
Water Rock	10	195
Limestone	16	211
Water Rock	34	245

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
60 ft. below land surface

10 PUMPING LEVEL below land surface
126 ft. after 6 hrs. pumping 15 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted?
☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
____ feet ____ Direction ____ Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name MYERS
Model Number S2G52-3B HP ½ Volts 220
Length of Drop Pipe 136 ft. capacity 10 G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
ADDED INFO BY DRILLER, ITEM NO.
CORRECTED BY MSB
ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski Date 10-30-76
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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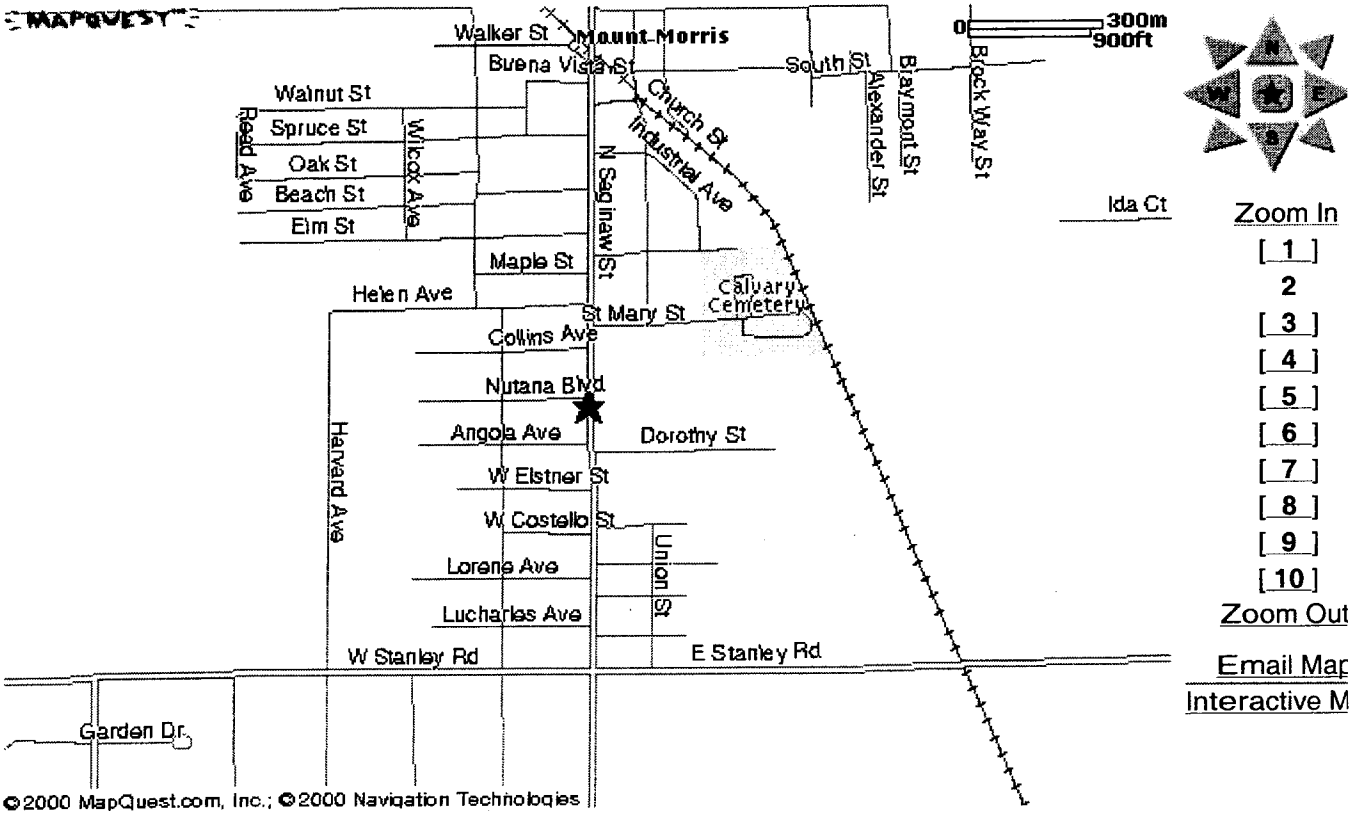
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★ **7211 N. Saginaw, Mount Morris, MI 48458-2110** 180

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	NW ¼SE ¼SE ¼	12	8 N~~S~~	6 E~~W~~

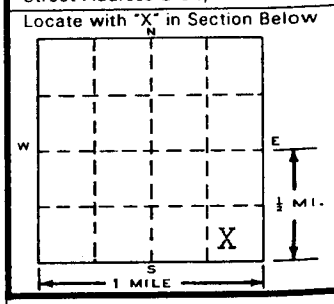
Distance And Direction From Road Intersection

100' N of Stanley

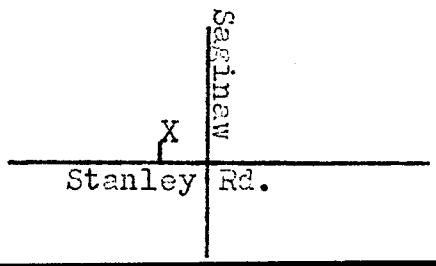
500' W of Saginaw

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL:

Clara Krueger

Address 1034 W. Stanley Rd.
Mt. Morris, MI 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

215 FT.

Date Completed MO. 8 DAY 22 YEAR 88

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded

5 in. to 140 ft. depth
_____ in. to _____ ft. depth

Grouted Drill Hole Diameter
7 7/8 in. to 140 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below
Surface 1½ ft.
Weight 2.926 lbs./ft.

Drive Shoe ☒ Yes ☐ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & Clay	15	15
Clay	40	55
Gravel	5	60
Clay	40	100
Clay & Shale	10	110
Shale	20	130
Shale & Sandstone	40	170
Sandstone	45	215

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
OCT 10 1988
Bureau of Environmental and Occupational Health - GWCS

8 SCREEN:

☒ Not Installed

Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

80 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

110 ft. after 2X hrs. pumping at 20 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 0 to 140 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 30 ft. Direction E

Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☒ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Fairbanks-Morse
Model number 2D300K HP ½ Volts 115
Length of Drop Pipe 120 ft. capacity 8 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Well X Trol
Model number 202 Capacity 20 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

GLENN'S WELL DRILLING
6104 E. Bristol Road
FLUSHING, MICHIGAN 48433

RECEIVED WITH VITAL STATISTICS

25-1876
REGISTRATION NO.

Address _____

Signed _____ Date 8-23-88
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

David Jory

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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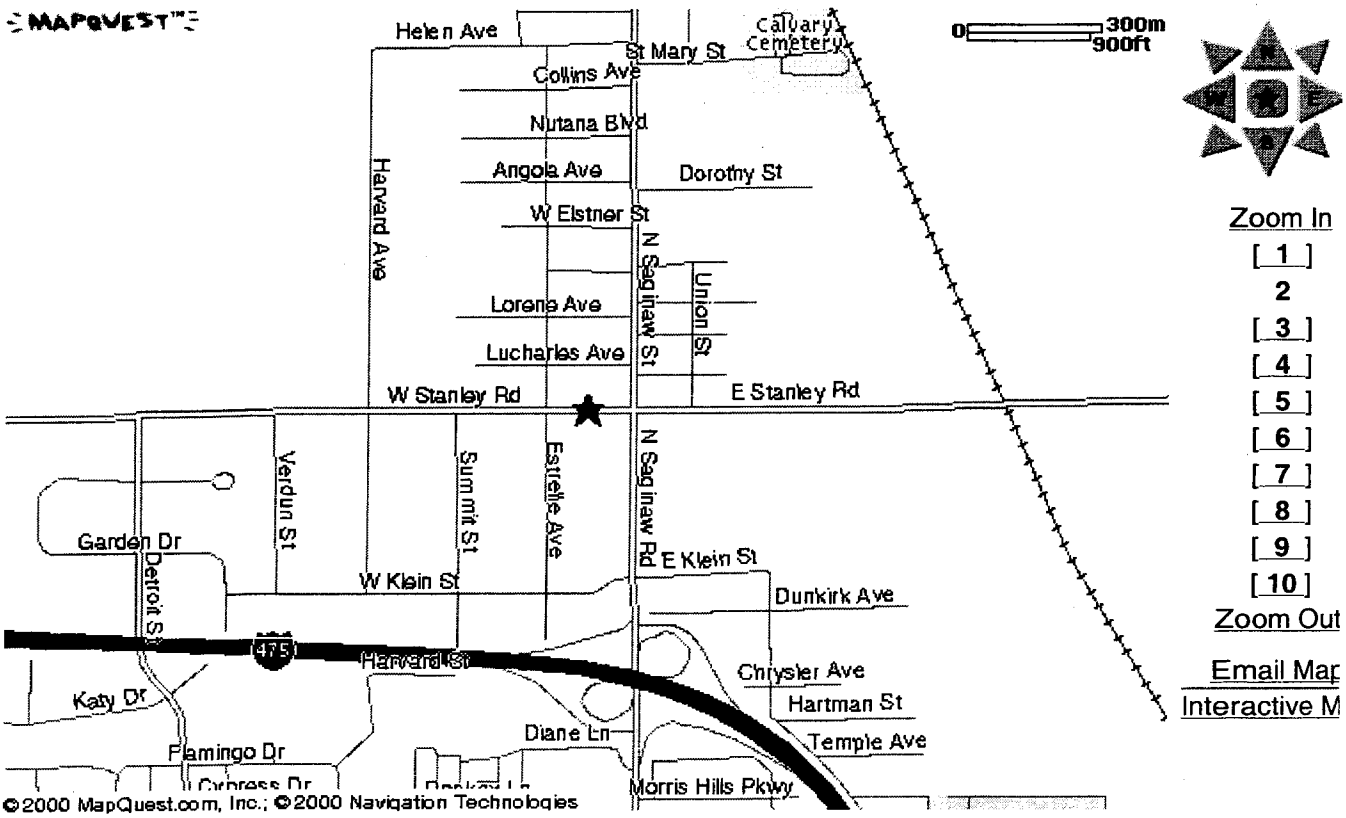
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★ **1034 W. Stanley Road, Mount Morris, MI 48458-2343** 18 1

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BC

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

1. LOCATION OF WELL

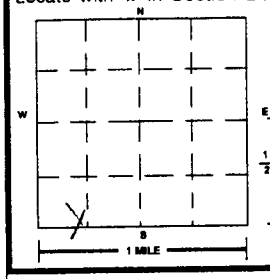
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SE 1/4 SW 1/4 SW 1/4	—	3	7

Distance and Direction from Road Intersection

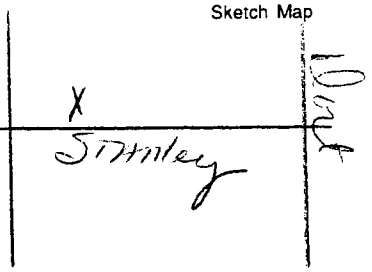
Between: Saginaw and Dort Hwy.
OFF: Stanley Rd.
1097 Stanley Rd.

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL

Address: Thomas Coulter
1097 E. Stanley Rd.
Mt. Morris, MI 48458

182

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 260 ft. | Date Completed: 08/28/95 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded
☒ Plastic ☐ Welded
☐ Other _____
Diameter: 5" in. to 195 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 195 ft. depth
_____ in. to _____ ft. depth

Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer
SHALE BOOT

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	30	30
Gravel	60	90
Clay and Gravel	90	180
Soft Sandstone	10	190
Sandstone	10	200
Limestone	40	240
Sandstone	20	260

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
100 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
240 ft. After 2 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 195 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 9 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type San. Sewer Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☒ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 75SEW1 HP .75 Volts 230
Length of Drop Pipe 160 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 202 Capacity 20 Gallons 5.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Bentonite Slurry
☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 8107 N Dort Hwy Mt Morris MI. 48458

Signed Craig D. Price Date 10/03/1995
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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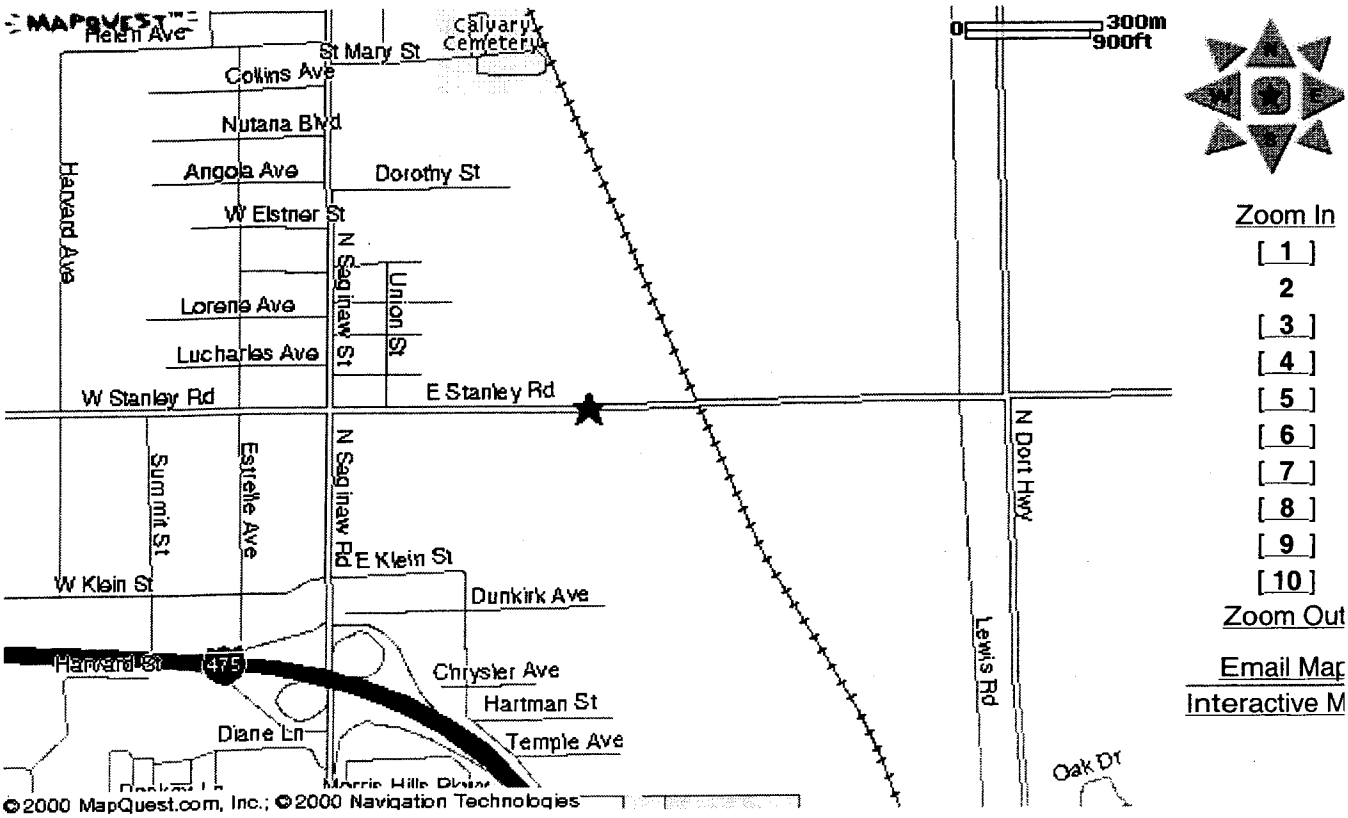
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GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

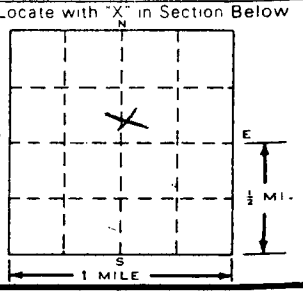
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	¼ ¼ ¼	12	8 N/S	6 E/W

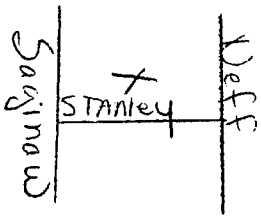
Distance And Direction From Road Intersection: Between Saginaw & Neff Rd. N. Side

Street Address & City of Well Location: 1128 W. Stanley Rd.

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Aaron Allen
Address: 1128 W. Stanley Rd.
Mt. Morris, MI. 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 190 ft. | **Date of Completion** March 19, 1986

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING Diameter: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
5 in. to 124 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8 in. to 124 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lbs./ft.
Sdr 21
Drive Shoe ☐ Yes ☐ No Shale Boot

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15'	15'
Sand & Gravel	35'	50'
Clay	15'	65'
Sand & Gravel	15'	80'
Clay	10'	90'
Black Shale	29'	119'
White Sandstone	71'	190

8 SCREEN: ☐ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft
FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL
71 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface
150 ft. after 1 hrs. pumping at 42 G.P.M
_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 124 ft
☐ Neat cement ☒ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination
Type San Sewer Distance _____ ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Red Jacket
Model number 50CNWI HP ½ Volts 230
Length of Drop Pipe 100 ft. capacity 10 G.P.M.
TYPE ☒ Submersible ☐ Jet _____
PRESSURE TANK
Manufacturer's name Well X-Trol
Model number 202 Capacity 20 Gallons

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)
Address G-8107 N. Dort. Hwy. Mt. Morris,
Signed Gary M. Price (AUTHORIZED REPRESENTATIVE) Date 3-20-86

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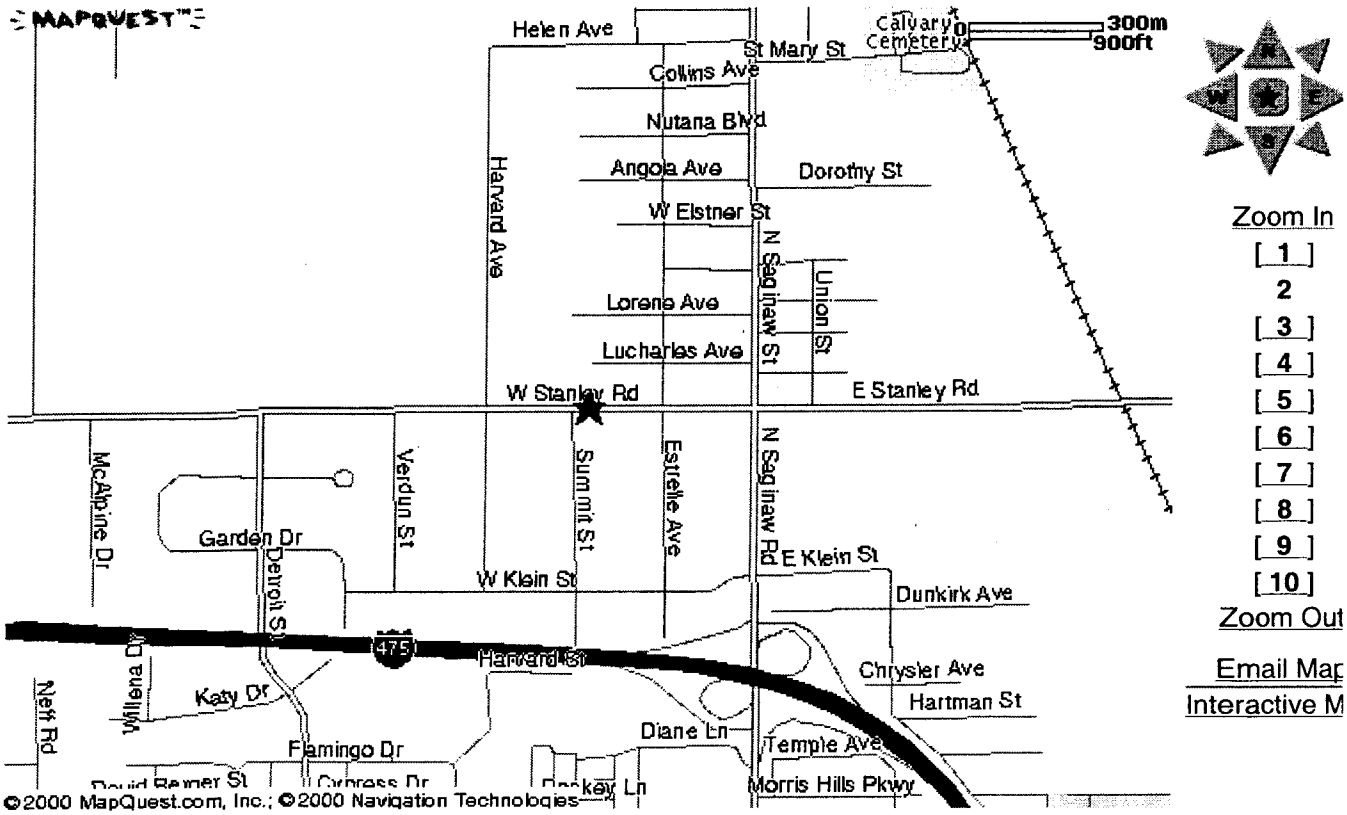
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★ **1128 W. Stanley Road, Mount Morris, MI 48458-2330** 183

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3 APR 19 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

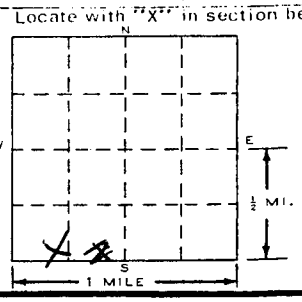
County	Township Name	Fraction	Section Number	Town Number	Range Num
Genesee	Genesee	SE ¼ SW ¼SW ¼	7	8 N/S.	E

Distance And Direction from Road Intersections

Street address & City of Well Location 1131 E. Stanley Rd

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

184

Keith Rau

Address 1131 E. Stanley Road
Mt. Morris, Mi

4 WELL DEPTH: (completed) Date of Completion

290 ft. 12-31-76

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ _____

7 CASING:
Threaded ☒ Welded ☐
Diam.
4 in. to 212 ft. Depth
____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft.
Weight ____ lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Sand	8	20
Blue Clay	10	30
Blue Clay & Sand	70	100
Blue Clay	20	120
Sand & Gravel	15	135
Blue Clay	30	160
Blue Clay & Stones	30	190
Shale (Brown)	12	201
Sand	8	210
Shale (Brown)	2	212
Limestone	8	220
Water Rock	6	226
Limestone	25	251
Water Rock	15	266
Shale	8	274
Water Rock 2ND SHEET IF NEEDED	16	290

8 SCREEN:
Type: _____ Dia.: _____
Slot/Gauze _____ Length _____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
100 ft. below land surface

10 PUMPING LEVEL below land surface
168 ft. after 8 hrs. pumping 12 g.p.m
____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) _____ Chlorides (Cl) _____
Hardness _____ Other _____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ _____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
____ feet ____ Direction _____ Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☐ Not installed
Manufacturer's Name Meyers
Model Number S2G72-7B HP ___ Volts 220
Length of Drop Pipe 189 ft. capacity 10 G.P.M.
Type: ☒ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling — 1242
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 1151 Paul Street

Signed Robert J Dekoski — Date 3-3-77
AUTHORIZED REPRESENTATIVE

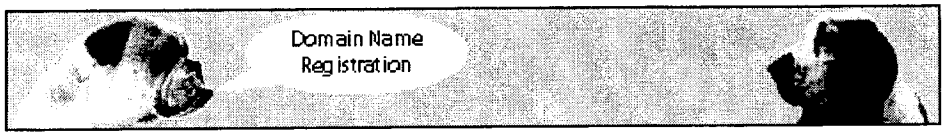
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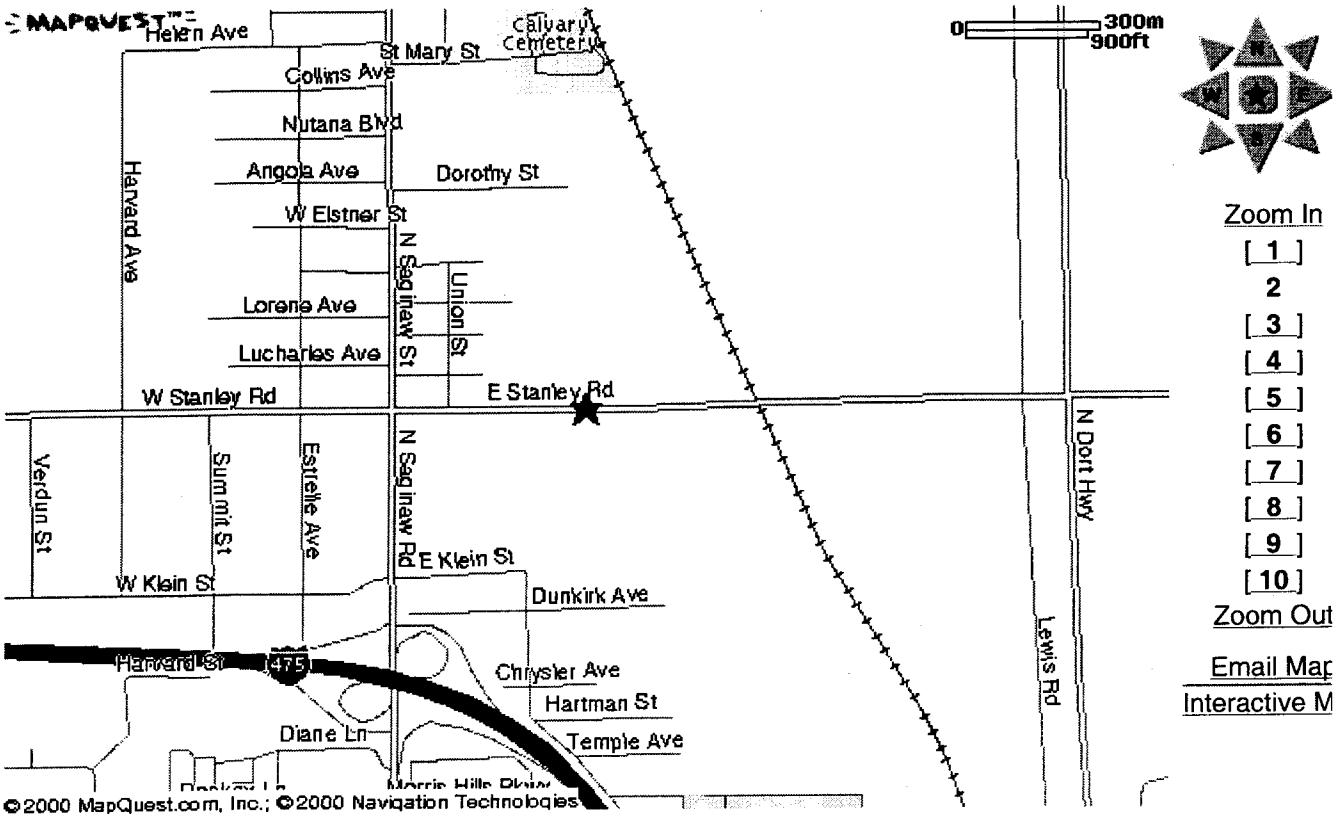
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

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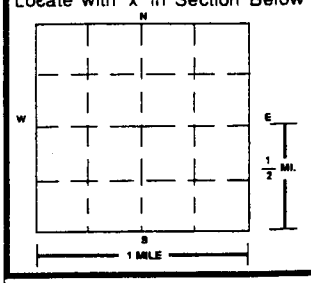
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	1/4 1/4 1/4	7	T8N	R7E

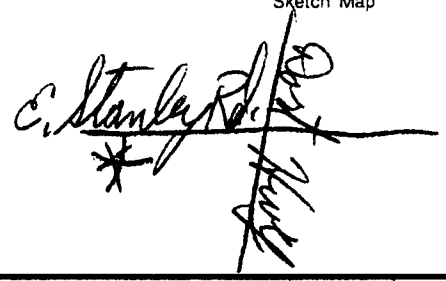
Distance and Direction from Road Intersection
100 ft. W. of Dort Hwy on S. side of Stanley in front yard.

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Gerald Rutter, 1290 E. Stanley Rd., Mt. Morris, MI. 48458 185

Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 300 ft. | Date Completed 10/2/96 | ☐ New Well ☑ Replacement Well

5. ☐ Cable Tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☑ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☑ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 230 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 7⅞ in. to 230 ft. depth
4½ in. to 300 ft. depth
Height: Above/Below Surface: 1 ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☑ Shale Packer

8. SCREEN: ☑ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
140 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
300 ft. After 1 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☑ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☑ Pitless Adapter ☑ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☑ Yes From 0 to 230 ft.
☐ Neat Cement ☑ Bentonite ☐ Other _____
No. of Bags 14 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type 20 Distance 5 ft. Direction _____
Type _____ Distance _____ ft. Direction _____

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	8'	8'
Gray Clay	200'	208'
Shale	20'	228'
Sand Stone	72'	300'

USE A 2ND SHEET IF NEEDED

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Ha Rue
Model Number 7DL210F HP ¾ Volts 230
Length of Drop Pipe 200 ft. Capacity 10 G.P.M.
TYPE: ☑ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number PC100 Capacity 10 Gallons 80

15. ABANDONED WELL PLUGGED? ☐ Yes ☑ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)
No one knew where old well is located

17. DRILLING MACHINE OPERATOR:
☑ Employee ☐ Subcontractor
Name Tom Hutches

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thomason Well Drilling 1271
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1186 N. Center Rd Flint

Signed John Thomason Date 10-3-96
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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- Young and the Restless

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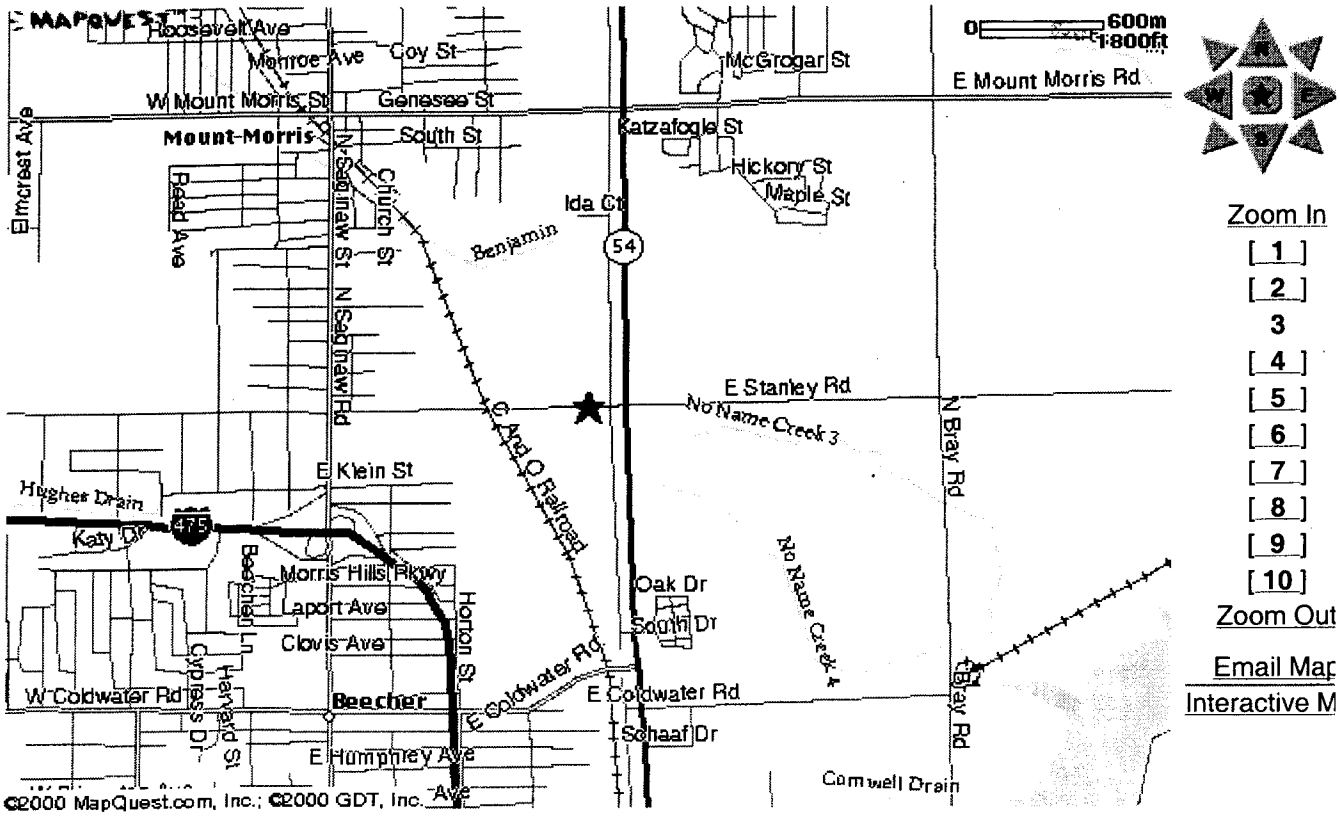
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

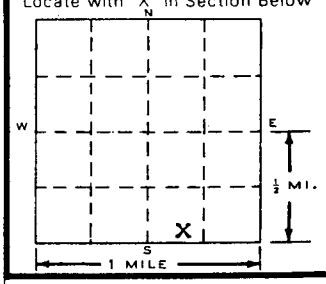
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE ¼ SW ¼ SE ¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL:

186

Mrs. Whipple
Address 1297 Stanley Rd
Mt. Morris, MI 48458

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH:

292 FT.

Date Completed MO. 09 DAY 08 YEAR 94

[X] New Well [ ] Replacement Well

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ] ____

6 USE:

[X] Domestic [ ] Type I Public [ ] Type III Public
[ ] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ] ____

7 CASING:

Diameter [ ] Steel [ ] Threaded [X] Plastic [ ] Welded

5 in. to 200 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

____ in. to ____ ft. depth

Height: Above/Below

Surface ____ ft.

Weight ____ lbs./ft.

Drive Shoe [ ] Yes [ ] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	8	8
Blue Clay	6	14
Sand	25	39
Blue Clay	100	139
Gravel	25	164
Blue Clay	26	190
Sandstone	30	220
Shale	30	250
Limestone	12	262
Sandstone	30	292

USE A 2ND SHEET IF NEEDED

8 SCREEN:

[ ] Not Installed

Type ____ Diameter ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

FITTINGS: [ ] K-Packer [ ] Lead Packer [ ] Bremer Check

[ ] Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:

95 ft. below land surface [ ] Flow

10 PUMPING LEVEL: below land surface

210 ft. after 2 hrs. pumping at 12 G.P.M.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION:

[X] Pitless adapter [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 198 to 0 ft.

[ ] Neat cement [X] Bentonite [ ] Other Big Horn

No. of bags of cement 9 Additives ____

13 Nearest source of possible contamination

Type Sewer Distance 25 ft. Direction E

Well disinfected upon completion? [X] Yes [ ] No

Was old well plugged? [ ] Yes [ ] No

14 PUMP:

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aermotor

Model number ____ HP 3/4 Volts 220

Length of Drop Pipe 200 ft. capacity 12 G.P.M.

TYPE: [X] Submersible [ ] Jet ____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX203 Capacity 60 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling Inc 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 E. Paul St

Signed Robert J Dekoski Date 11-21-94
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a

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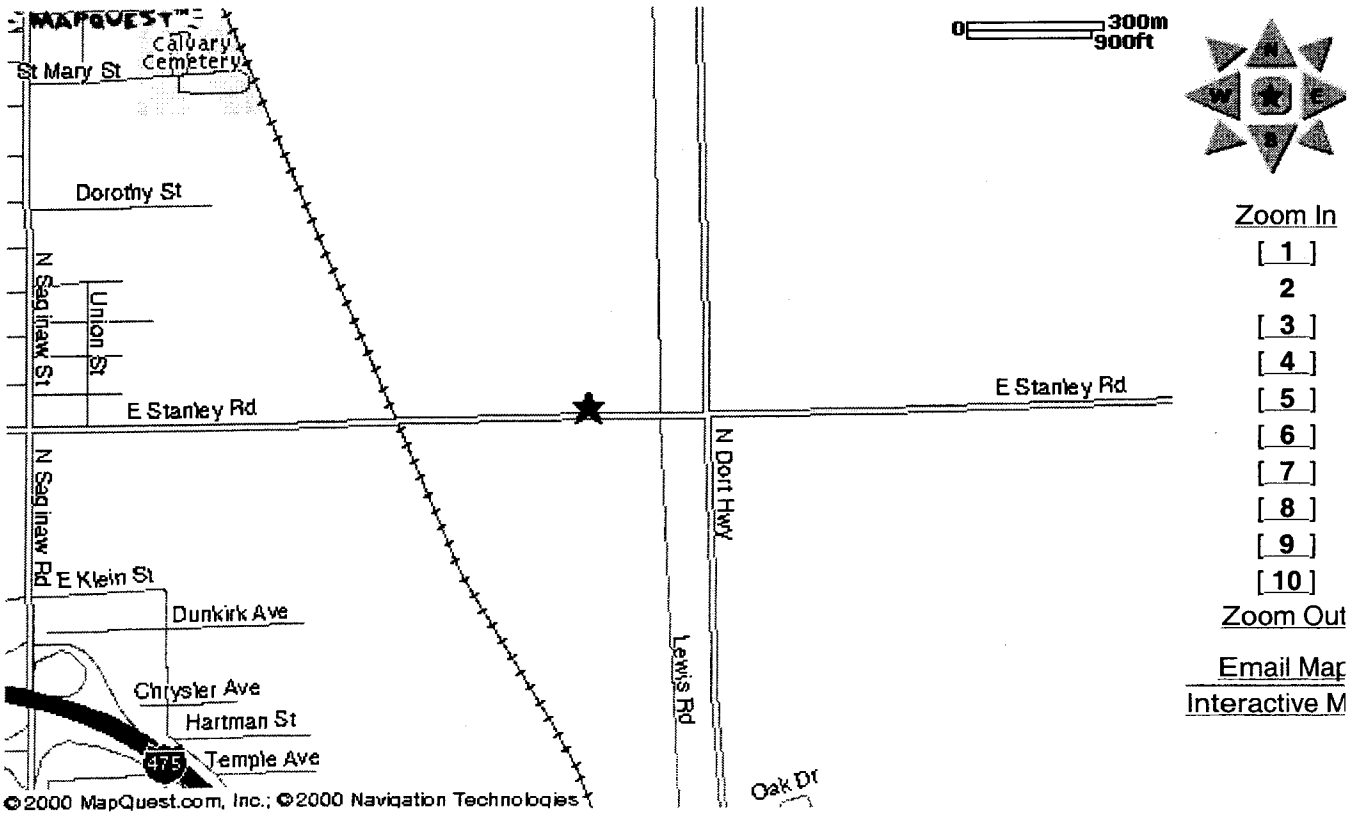
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★ **1297 East Stanley Road, Mount Morris, MI 48458-2548** 186

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

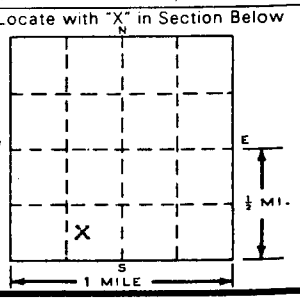
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW ¼ SE ¼ SW ¼	7	8 N/S	7 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 187

Harry Blanford

Address 1139 Stanley Rd

Mt. Morris, Mi 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 292 ft. | **Date of Completion** 7-21-86

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 218 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	18	18
Blue Clay	60	78
Sand & Gravel	30	108
Blue Clay	90	198
Blue Clay & Stones	17	215
Limestone	20	235
Sandstone & Limestone	57	292

8 SCREEN: ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 102 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

185 ft. after 1 hrs. pumping at 13 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From _____ to _____ ft.

☐ Neat cement ☒ Bentonite ☒ Other Clays

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Flint & Walling

Model number _____ HP ¾ Volts 220

Length of Drop Pipe 180 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX 203 Capacity 60 Gallons

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AUG 19 1986
Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 Paul St. Mt. Morris, Mi.

Signed Robert J Dekoski Date 8-15-86

AUTHORIZED REPRESENTATIVE

D67d 2/84

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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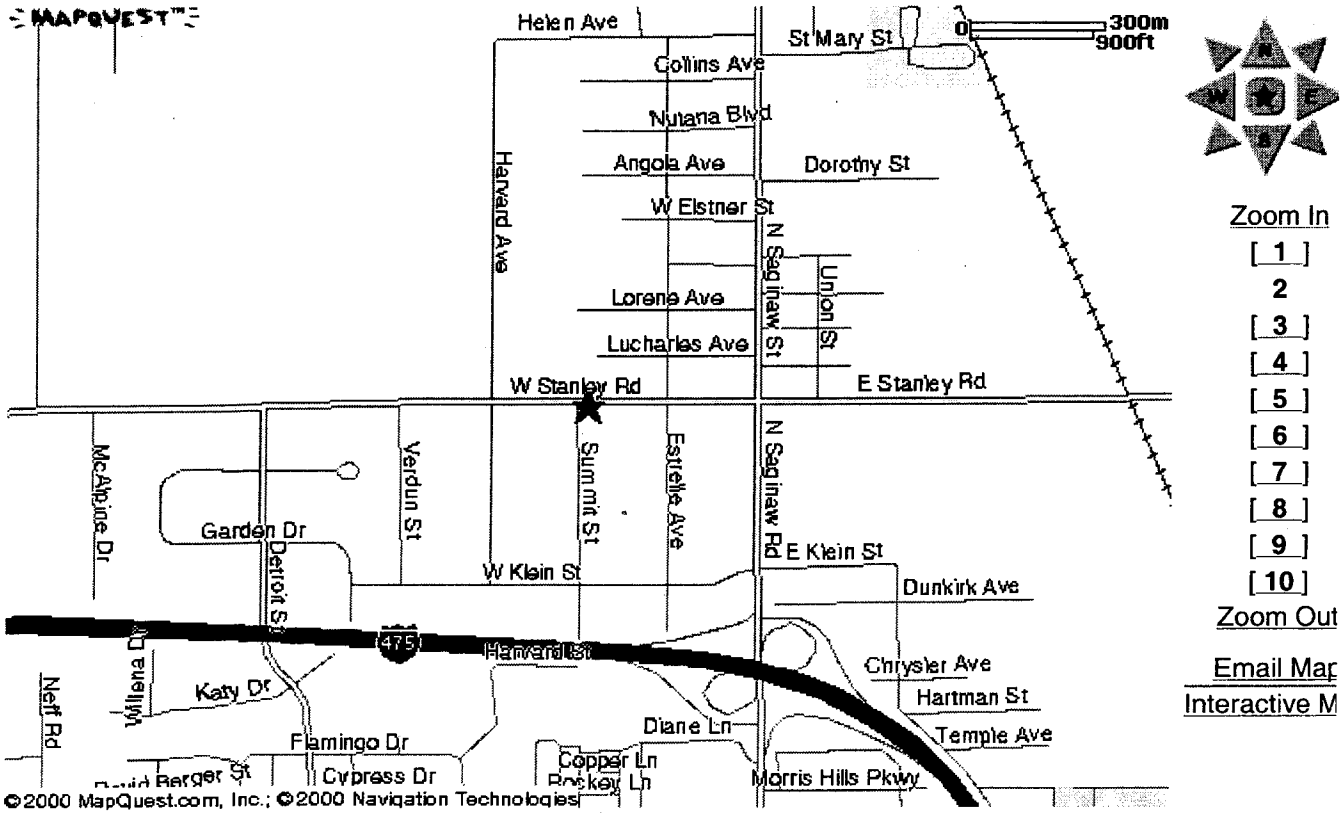
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WATER WELL AND PUMP RECORD

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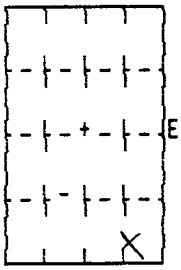
1. LOCATION OF WELL

County	Township Name	Fraction	Section No	Town No	Range Number
GENESEE	MT MORRIS	SW 1/4 SE 1/4 SE 1/4	12	8 N	6 E

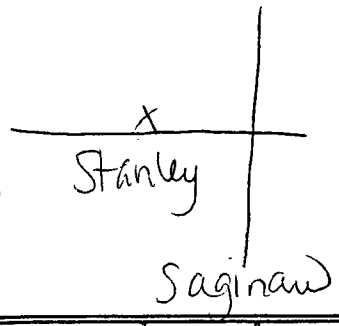
Distance And Direction From Road Intersection
.2 MILE WEST OF SAGINAW ROAD ON THE NORTH SIDE OF STANLEY ROAD

Well Addr: 1148 W STANLEY ROAD 188

Locate with 'X' in Sec. Below



Sketch Map



3. Owner of Well ROGER GILMORE BUILDING CO
Address PO BOX 238
UNIONVILLE MI 48767
Address Same as Well Location? NO

4. WELL DEPTH 220 ft. | Date Compl 08/02/99 | This is a: NEW WELL

5. EQUIPMENT USED: ROTARY

6. WELL USE: HOUSEHOLD

7. CASING Type: PLASTIC | Connection: WELDED
Diam. | Height ABOVE
5 in. to 127 ft. | Surface 1 ft
in. to ft. | Weight lb./ft.
BORE HOLE: | Drive Shoe NO
8 3/4 in. to 127 ft. | Shale Packer NO
in. to ft.

Formation Description	Thickness	Depth
BROWN CLAY	15	15
GRAY CLAY	5	20
FINE SAND	9	29
SILT	10	39
CLAY	75	114
SHALE	7	121
SANDSTONE	31	152
SHALE	18	170
SANDSTONE	20	190
LIMESTONE	10	200
SANDSTONE	20	220

AUG 31 1999

DRILLER NOTES:
5 7/8" TO 132'
4 1/2" TO 220'

8. Screen Type: _____ Diam: _____ [X] Not Inst.
____ _____ Length: ____
Set Between ____ ft. and ____ ft.
Fittings: _____ [_] Blank above scrn: ____ ft

9. Static Level: 60 ft. | Flow: [N]

10. Pumping Level below land surface:
220 ft. after 1 hrs. @ 30 GPM
[_] Plunger [_] Bailer [X] Air [_] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 120 to 0 ft Material: BENSEAL
No. of Bags 13 bags Additives: EZ MUD

13. Nearest source of possible contamination:
Type: SANITARY SEWER Distance: 40 ft. Dir: SOUTH
Type: Distance: ft. Dir:

14. Pump: [_] Not Installed [_] Installation Only
Manufacturer's Name: RED JACKET
Model: 50CNINC9BC HP: 0.5 Voltage: 230
Drop pipe: 100 ft. Capacity: 10 GPM
Pump type: SUBMERSIBLE
Pressure Tank Manufacturer's Name : WELL X-TROL
Model: 203 Capacity: 10 Gal.

15. Abandoned Well Plugged? NO N/A
Casing Diameter in. Depth ft.
Plugging Material:
No. of Bags Casing Removed?

16. Remarks, elevation, source of data, etc.
PUMP - JEFF BABINGER

17. Drilling Machine Operator: [X] Employee [_] Subcontractor
Name PAUL WENDLING

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Registered Bus. Name ED BIRKMEIER WELL DRILLING LTD 1607
Business Address 10655 Easton Road New Lothrop MI 48460

Signed _____ 08/06/99
Authorized Representative Date

W-2-228 9/93
Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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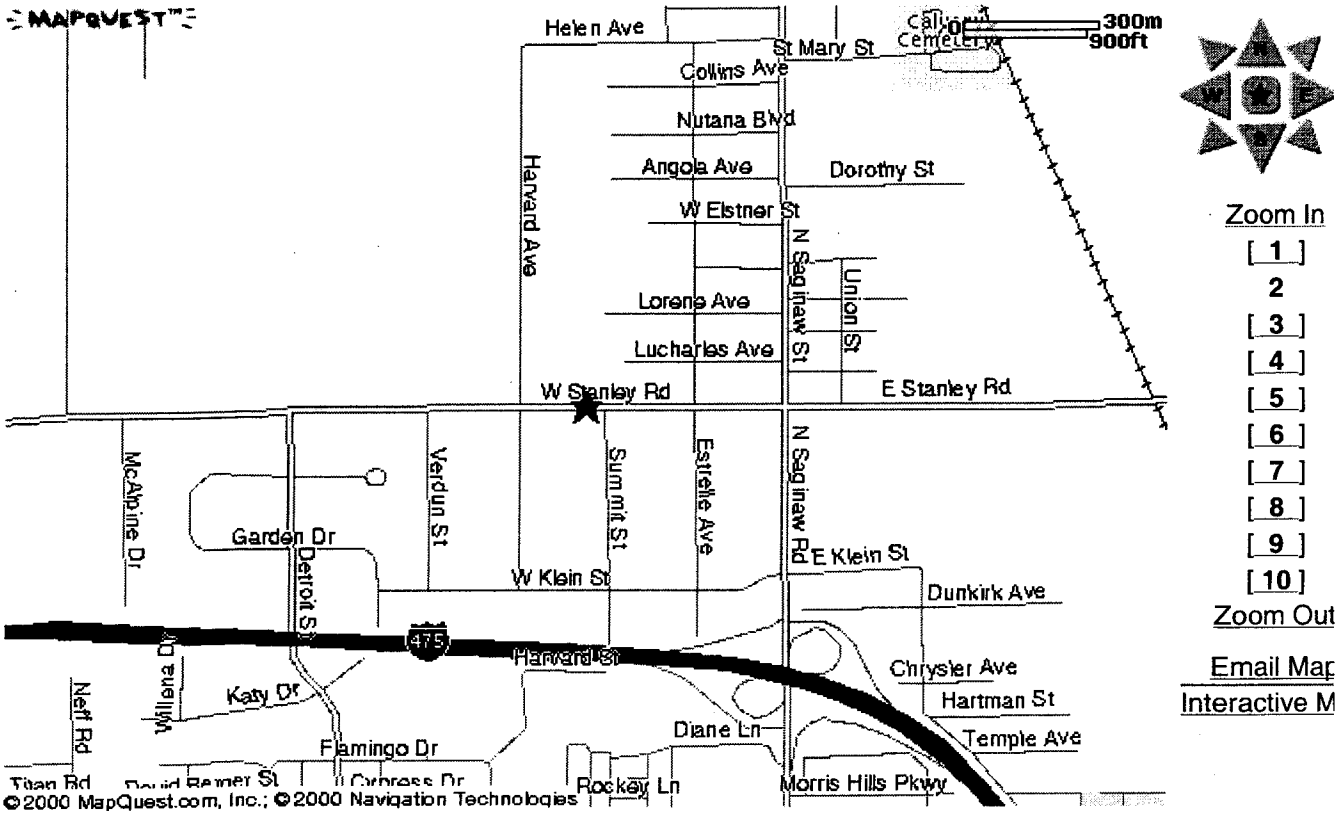
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ]

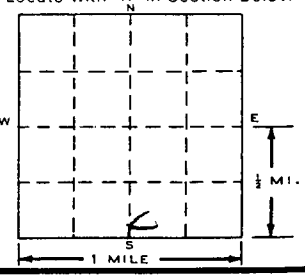
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	SW 1/4 SW 1/4 SE 1/4	12	8 N/S X	6 E/W X

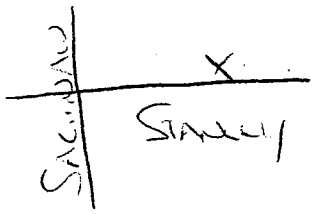
Distance And Direction From Road Intersection: 1/2 mile east of Saginaw and 70' north on Stanley

Street Address & City of Well Location: 1155 Stanley

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Jeanne Rose
Address 1155 Stanley 189

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH

280 FT. | Date Completed MO. 9 DAY 20 YEAR 93 | ☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING

Diameter: ☐ Steel ☒ Plastic ☐ Threaded ☐ Welded
5 in. to 240 ft. depth
_____ in. to _____ ft. depth
Grouted Drill Hole Diameter
8½ in. to 240 ft. depth
_____ in. to _____ ft. depth

Height: Above/~~Below~~
Surface 1 ft.
Weight _____ lbs./ft.
Drive Shoe ☐ Yes ☒ No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	90	90
FineSand	10	100
Clay	50	150
Sand	2	152
Clay	78	230
Sandstone	20	250
Shale	10	260
Sandstone	15	275
Shale	5	280

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USE A 2ND SHEET IF NEEDED

8 SCREEN

☒ Not Installed
Type _____ Diameter _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check
☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

100 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

Air 240 ft. after 1 hrs. pumping at 10 G.P.M.
_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION

☒ Pitless adapter ☐ 12" above grade
☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☐ Yes From _____ to _____ ft.
☐ Neat cement ☐ Bentonite ☐ Other _____
No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sewer Distance 30 ft. Direction _____
Well disinfected upon completion? ☒ Yes ☐ No
Was old well plugged? ☒ Yes ☐ No

14 PUMP

☐ Not Installed ☐ Pump Installation Only
Manufacturer's name Red Jacket
Model number 75CniCN12BC HP XX3/4 Volts 230
Length of Drop Pipe 200 ft. capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet _____
PRESSURE TANK:
Manufacturer's name Aqua Air
Model number V100 Capacity 10 Gallons

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ed birkmeier Well Drilling ltd. 1 7
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 10655 Easton Rd New Lothrop Mi 4846
Signed _____ Date 9-20-93
AUTHORIZED REPRESENTATIVE

17. Rig Operator's Name:

Kevin Struck

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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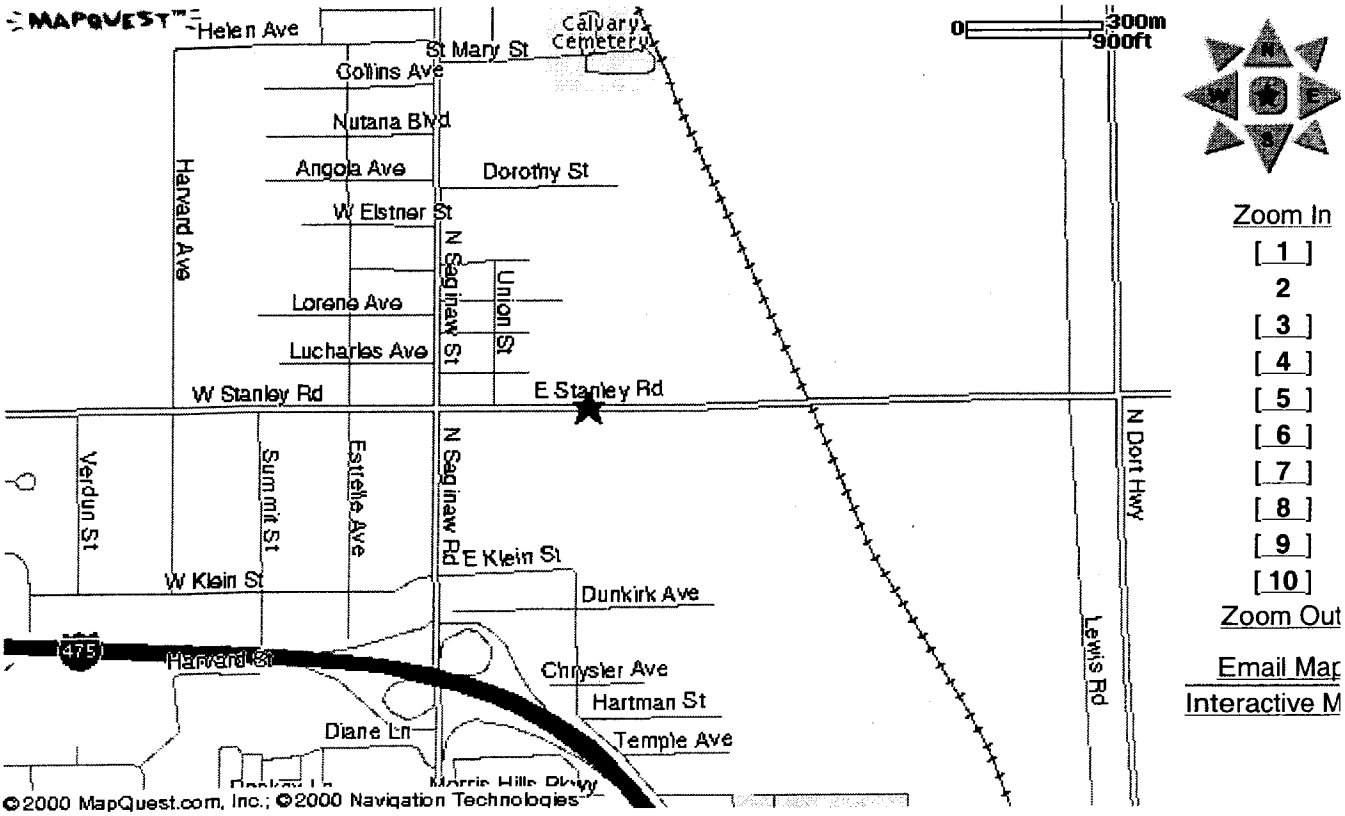
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

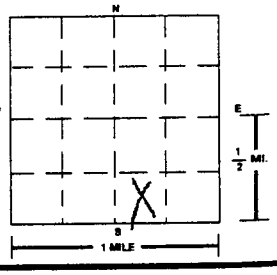
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	MT MORRIS	1/4 SW1/4 SE1/4	12	8 N	6 E

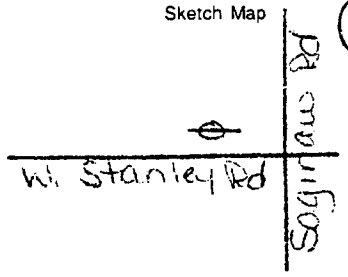
Distance and Direction from Road Intersection: West of Saginaw on North

Street Address & City of Well Location: 1166 W Stanley Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Curt Callahan
Address: 1166 W Stanley Rd
Mt Morris MI 190

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 205 ft. Date Completed 1/23/97 ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 130 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 130 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	109	109
shales	20	129
sandstone, slate	76	205

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. ☐ Other _____

9. STATIC WATER LEVEL: 70 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
205 ft. After _____ hrs. Pumping at 25-30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 130 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 7 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 20+ ft. Direction SE
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 100 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name used customers
Model Number _____ Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No In Pit
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well.

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 2 23 97

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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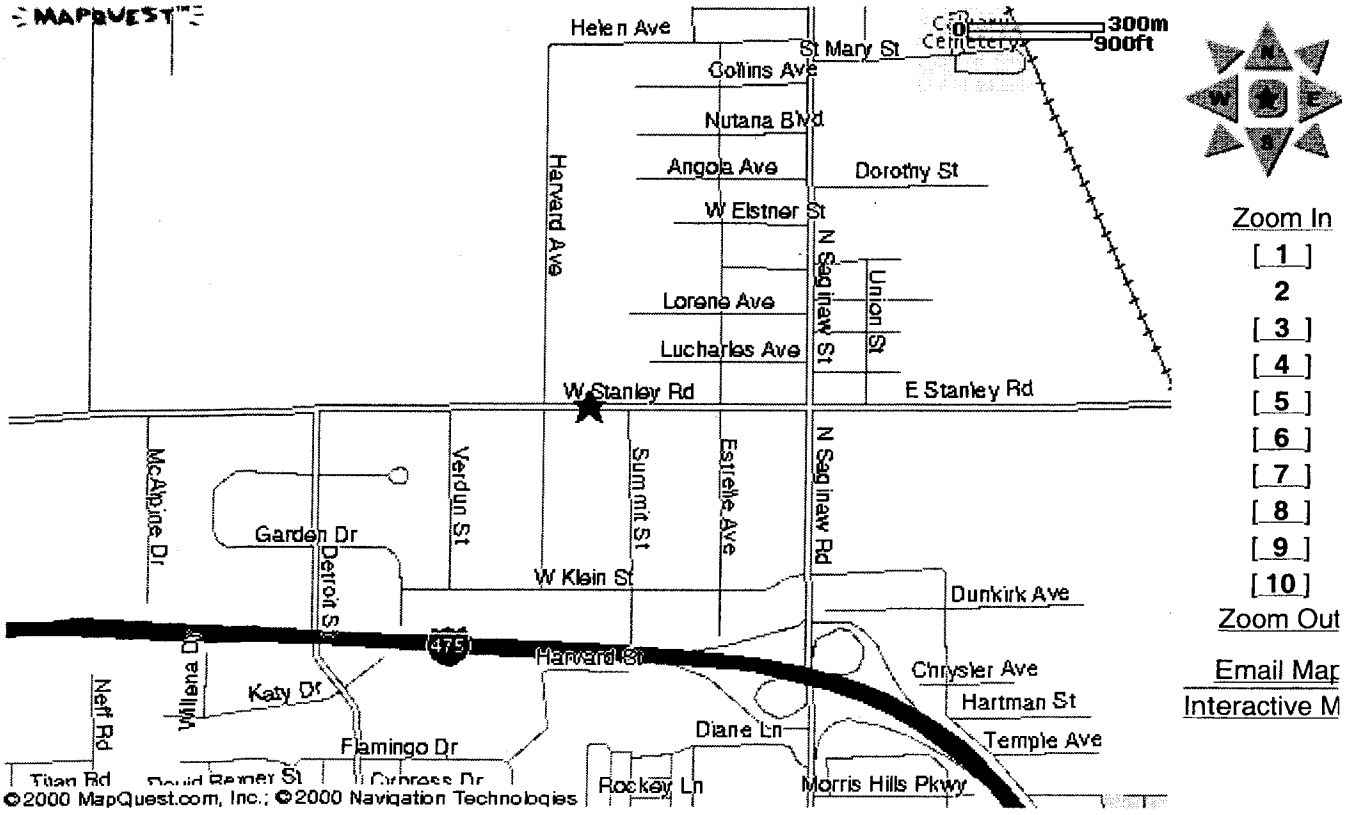
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NOV 24 1980

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

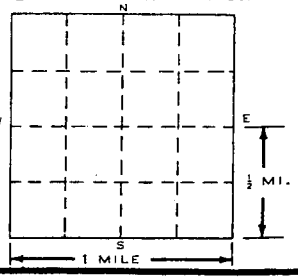
County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	MT. MORRIS	¼ ¼ SE ¼	12	8 N/S	6 E

Distance And Direction from Road Intersections: About 0.25 MILE W. of SAGINAW St. About 100 ft. N. of STANLEY Rd

Street address & City of Well Location: At 1180

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Address: JOSEPH ROMANSKI. 1180 W. STANLEY Rd MT. MORRIS MICH. 191

4 WELL DEPTH: (completed) Date of Completion

205 ft. 3-4-80

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☐ Welded ☒ Diam.

5 in. to 133 ft. Depth

____ in. to ____ ft. Depth

Height: Above/Below Surface Surface

Weight PVC lbs./ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

TAPED PACKER

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

71 ft. below land surface

10 PUMPING LEVEL below land surface

130 ft. after ___ hrs. pumping 12 g.p.m.

____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☒ CLAY SLURRY

Depth: From Top ft. to 130 ft.

14 Nearest Source of possible contamination

____ feet ____ Direction SANITARY SEWER Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name Gould

Model Number 10EJ07412 HP ¾ Volts 230

Length of Drop Pipe 140 ft. capacity 10 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	13	13
BLUE CLAY	14	27
SANDY GRAVEL	21	48
BLUE CLAY	22	70
BLUE CLAY (GRAVELEY)	44	114
SOFT BLACK SHALE	12	126
SOFT WHITE SHALE	3	129
WHITE SANDSTONE	54	183
HARD BROWN SHALE	10	193
WHITE SANDSTONE W/STRIPS of BROWN SHALE	12	205

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED DEPTH BY DRILLER, NOT ME

ELEVATION BY

PLOTTED BY

ELEVATION

DATE PLOTTED

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

B. E. PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4189 GREGOR ST GENESEE

Signed ____ Date 3-5-80
AUTHORIZED REPRESENTATIVE

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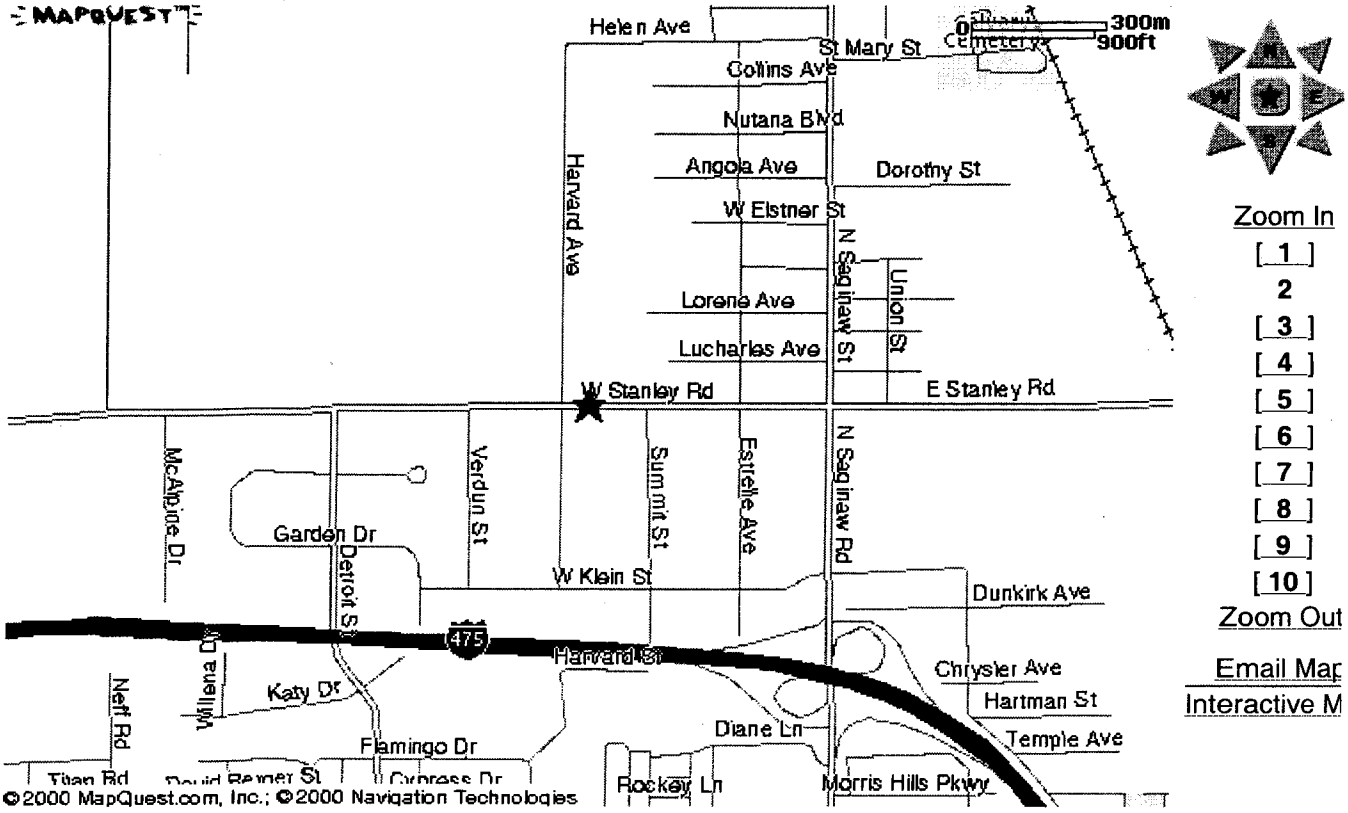
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

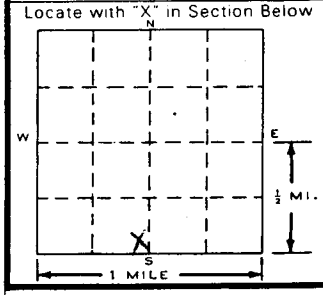
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt. Morris	SW ¼ SW ¼ SW ¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

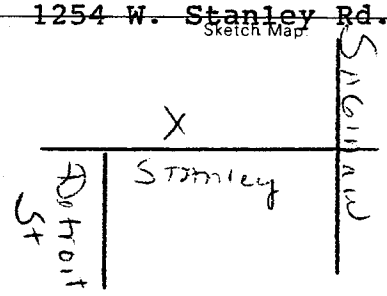
Between Saginaw and Detroit St. N. Side

Street Address & City of Well Location 1254 W. Stanley Rd.

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL:

Ivan gable 192

Address 1254 W. Stanley Rd.

Mt. Morris, MI. 48458

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH:

220 FT. Date Completed MO. 1 DAY 13 YEAR 94 ☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat pump
☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 129 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8 in. to 129 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lbs./ft.

SDR 21

Drive Shoe ☐ Yes ☐ _____

Shale boot

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	50'	50'
Sand	20'	70'
Clay	19'	89'
Sandstone	23'	112'
Black Shale	28'	140'
Limestone	27'	167'
Gray Sandstone	53'	220'

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

50 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

200 ft. after 2 hrs. pumping at 42 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From 1 to 129 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type San. Sewer Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP:

☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Meyers

Model number 2NFL52-12 HP 1/2 Volts 230

Length of Drop Pipe 100 ft. capacity 12 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Challenger

Model number 202 Capacity 20 Gallons

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USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 1886

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 8107 N. DORT HWY. MT. MORRIS, MI

Signed _____ Date 2/11/94

AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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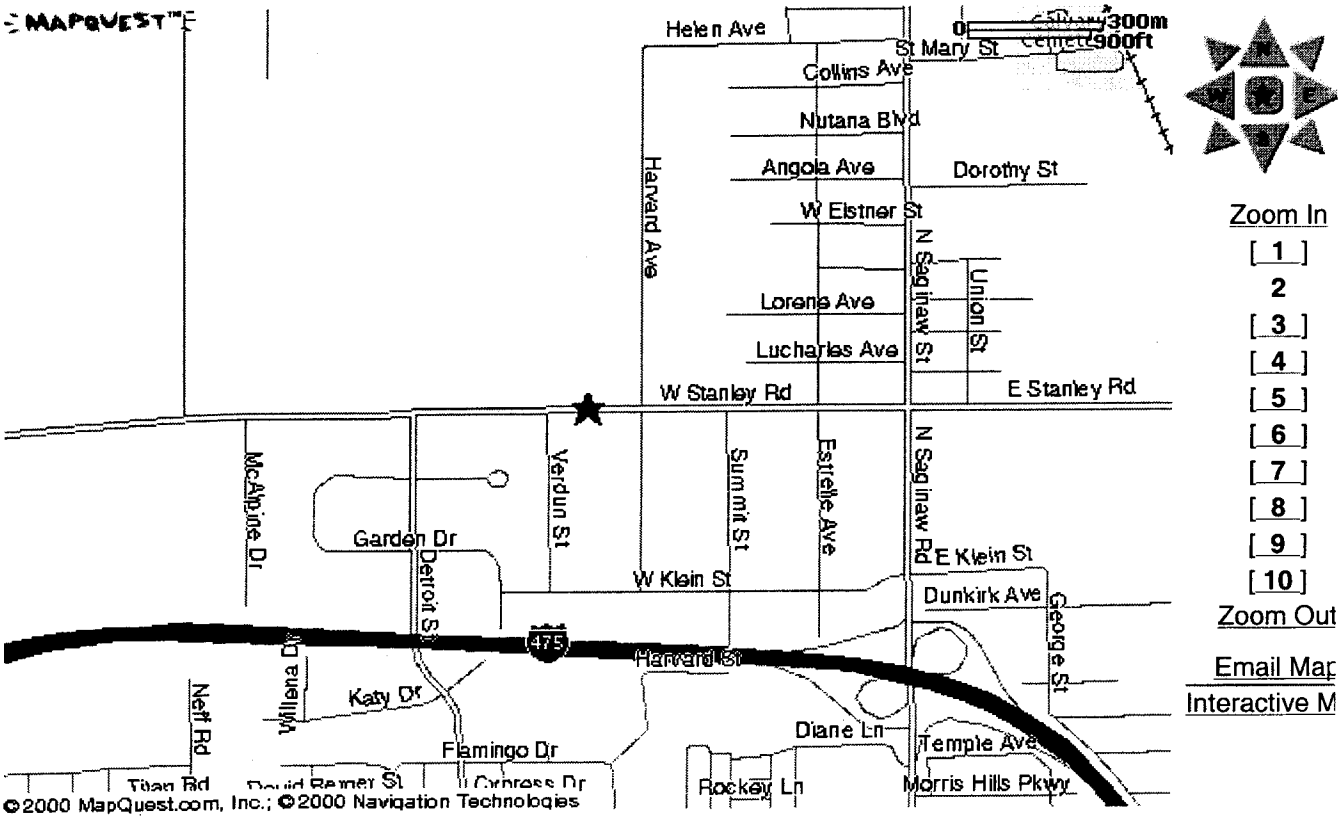
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

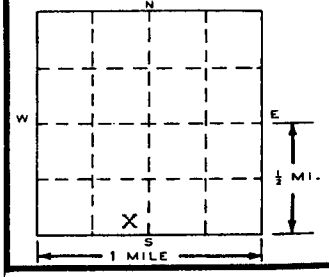
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	SE¼ SE¼ SW¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:

3 OWNER OF WELL: 1c

ED Zovishlack

Address 1260 W. Stanley Rd
Mt. Morris, MI

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: 215 FT. Date Completed MO. 05 DAY 27 YEAR 92 ☒ New Well ☐ Replacement Well

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 100 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

____ in. to ____ ft. depth

Height: Above/Below

Surface ____ ft.

Weight ____ lbs./ft.

Drive Shoe ☐ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	15	15
Blue Clay	30	45
Sand	30	75
Blue Clay	10	85
Shale	40	125
Sandstone	15	140
Shale	50	190
Sandstone	25	215

8 SCREEN: ☐ Not Installed

Type ____ Diameter ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen ____ ft. Other ____

9 STATIC WATER LEVEL:

60 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

100 ft. after 1 hrs. pumping at 25 G.P.M.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☒ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 97 to 0 ft.

☐ Neat cement ☒ Bentonite ☒ Other clay

No. of bags of cement ____ Additives ____

13 Nearest source of possible contamination

Type ____ Distance ____ ft. Direction ____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☐ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aermotor

Model number ____ HP ½ Volts 110

Length of Drop Pipe 120 ft. capacity 12 G.P.M.

TYPE: ☒ Submersible ☐ Jet ____

PRESSURE TANK:

Manufacturer's name Well X-Trol

Model number WX 203 Capacity 60 Gallons

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DEC 29 1992
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USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling 1242
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 1151 E. Paul St

Signed Robert J Dekoski Date 12-07-92
AUTHORIZED REPRESENTATIVE

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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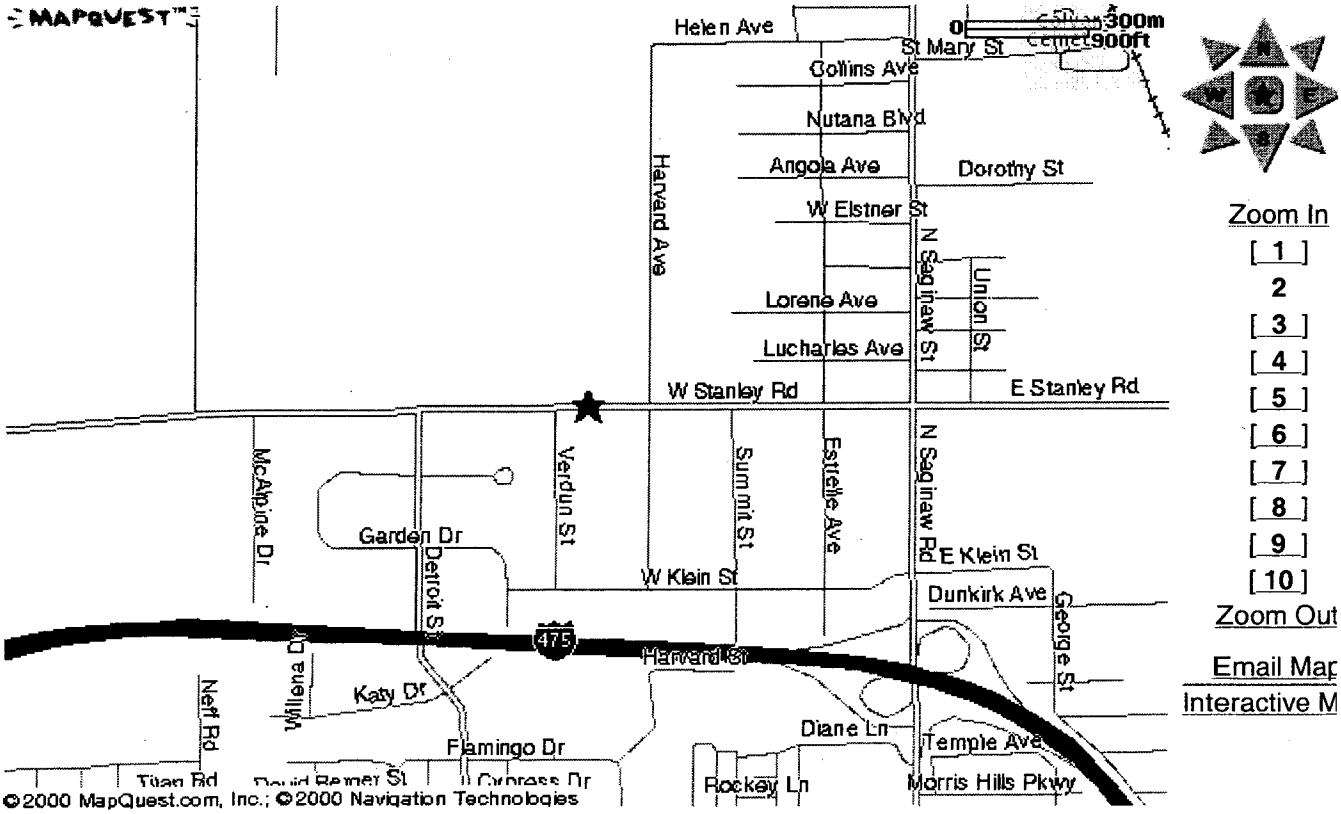
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GEOLOGICAL SURVEY SAMPLE No. [ ]

2

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

JUL 22 1981

1 LOCATION OF WELL

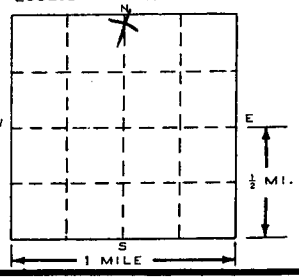
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	7	8 (N) S.	7E

Distance And Direction from Road Intersections

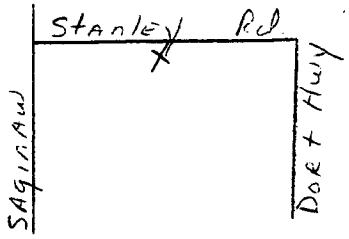
½ mile E of Saginaw St.
½ mile. W of Dort Hwy. S side

Street address & City of Well Location 1278 E. Stanley Rd. Mt. Morris

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: Duane Thrash 194

Address 1278 E. Stanley Rd. Mt. Morris, MI

4 WELL DEPTH: (completed) 295 ft. Date of Completion May 1, 1981

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 5 in. to 231 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface 1 ft. Weight Sch. ~~40~~ /ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	25'	25'
Sand	10'	35'
Clay & Gravel	20'	55'
Sand	45'	100'
Clay & Gravel	80'	180'
Brown Shale	30'	210'
Sandstone	20'	230'
Limestone	10'	240'
Sandstone & Shale	55'	295'

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL

100 ft. below land surface

10 PUMPING LEVEL below land surface

293 ft. after 3 hrs. pumping 13 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐ ____

Depth: From 1 ft. to 231 ft.

14 Nearest Source of possible contamination

____ feet ____ Direction ____ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed

Manufacturer's Name Goulds

Model Number 5ES05422 HP ½ Volts 230

Length of Drop Pipe 180 ft. capacity 10 G.P.M.

Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032
REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Earl L Lyons Date May 12, 1981
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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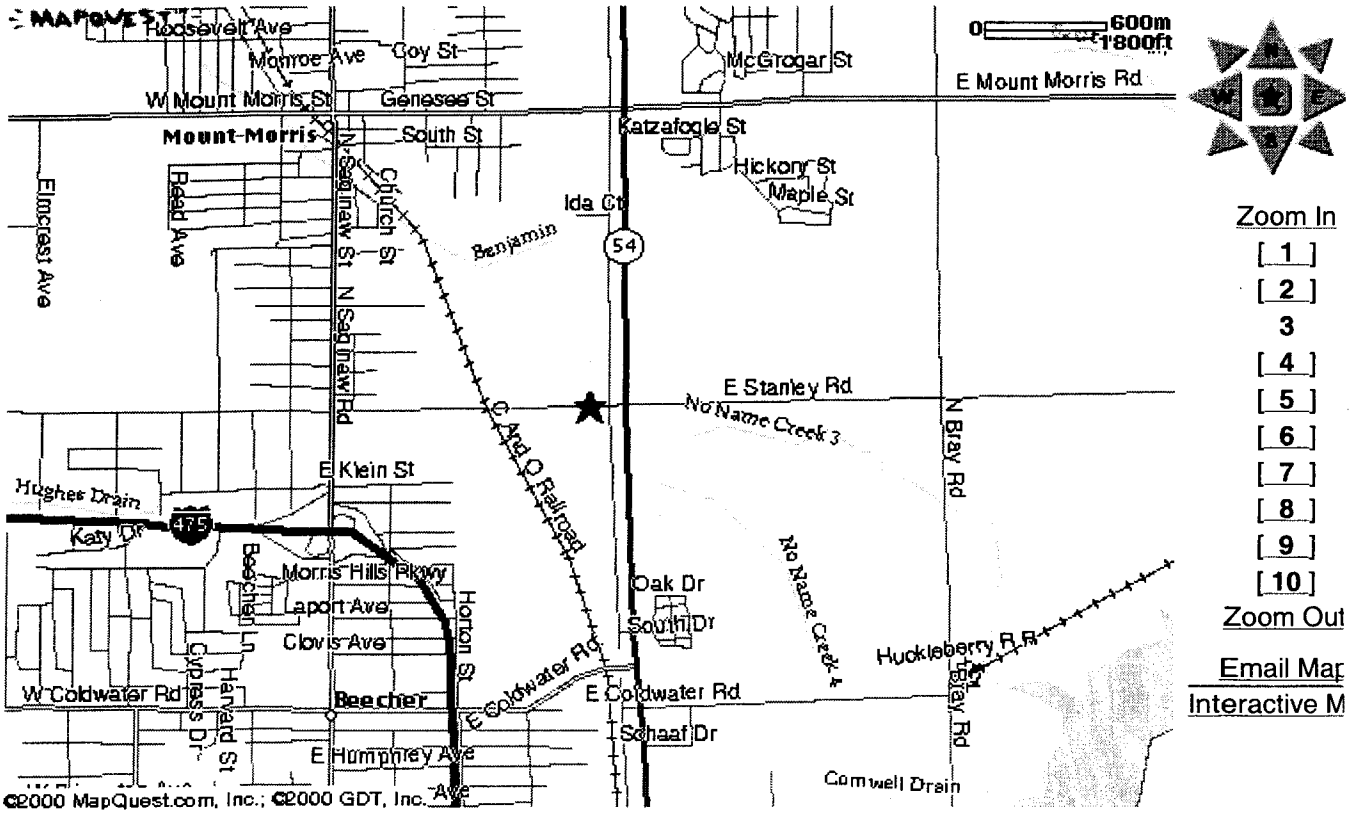
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★ **1278 E. Stanley Road, Mount Morris, MI 48458-2548** 194

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

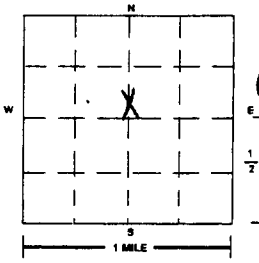
PERMIT NO:

1. LOCATION OF WELL

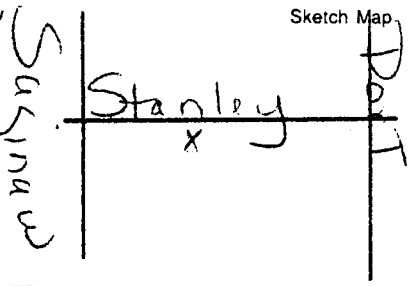
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	SW 1/4 of W 1/4 of NE 1/4	19	8	7

Distance and Direction from Road Intersection
Between: Dort and Saginaw St.
OFF: Stanley Rd.
1302 Stanley Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Michael Lowry 195
1302 E. Stanley Rd.
Mt. Morris, MI 48458
Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH: 295 ft. | Date Completed 01/15/99 | ☐ New Well ☑ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 235 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 235 ft. depth
4.5 in. to 295 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe DR21
☐ Shale Packer
SHALE PACK

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & Gravel	35	35
Clay & Gravel	80	115
Clay	40	155
Clay & Stones	20	175
Sehle	30	205
Sandstone	18	223
Limestone	7	230
Sandstone	15	245
Shale & Sandstone	50	295

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. ☐ Other _____

9. STATIC WATER LEVEL:
120 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
275 ft. After 2 hrs. Pumping at 13 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 235 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 14 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Sewer Distance 300+ ft. Direction W

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Peerless
Model Number [illegible] HP [illegible] Volts [illegible]
Length of Drop Pipe 190 ft. Capacity 13 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number PC-66 Capacity 20 Gallons 5.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)
under addition

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name DAN WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1086
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8187 N Dort Hwy Mt Morris MI 48458
Signed Gary M Price Date 02/03/1999
AUTHORIZED REPRESENTATIVE

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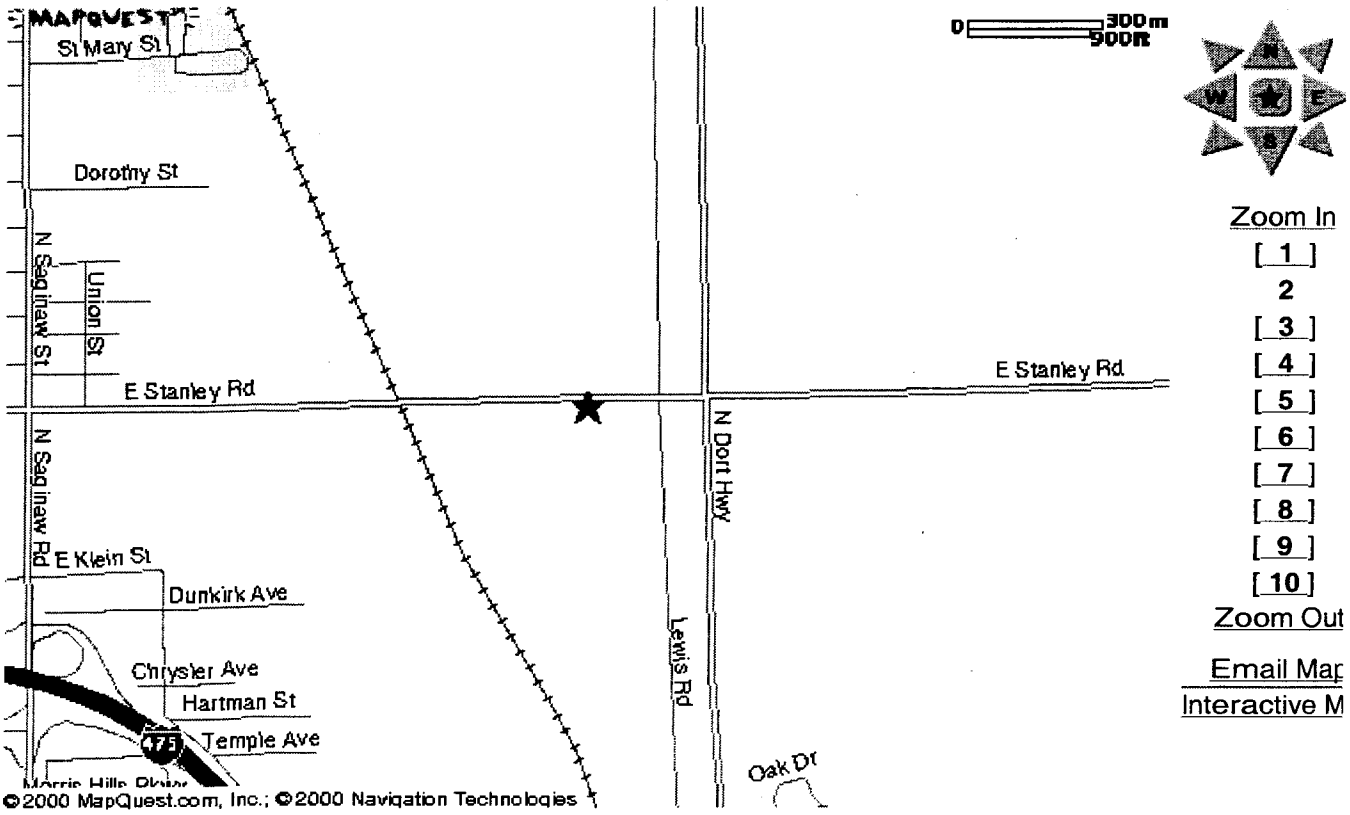
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★ **1302 East Stanley Road, Mount Morris, MI 48458-2548** 195

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

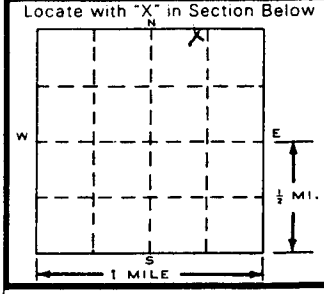
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	NE¼ NW¼ NE¼	18	8 N/S	7 E/W

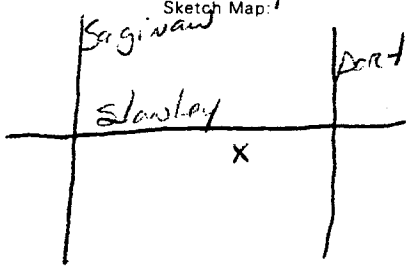
Distance And Direction From Road Intersection: 3/4 mile east of Saginaw on the south side of Stanley

Street Address & City of Well Location: 1320 E Stanley Rd

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: C. B. Shop 19?

Address: 1320 E Stanley Rd, Genesee, MI.

Address Same As Well Location? ☒ Yes ☐ No

4 WELL DEPTH: (completed) 245 ft. | Date of Completion 5-20-87

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 213 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8½ in. to 213 ft. depth

4½ in. to 245 ft. depth

Height: Above/Below Surface 1 ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☒ No

8 SCREEN: ☒ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 90 ft. below land surface ☐ Flo

10 PUMPING LEVEL: below land surface

Air 240 ft. after 1 hrs. pumping at 20 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 0 to 245 ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Sanitary Distance 25 ft. Direction N

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name F x W

Model number 4F10EC5-301 HP ½ Volts 230

Length of Drop Pipe 140 ft. capacity 10 G.P.M

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Amtrol (Owners)

Model number 202 Capacity 4-5 Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	7	7
Clay	163	170
Gravel	10	180
Clay	27	207
Sand Rock	15	222
Sandy Shale	5	227
Sand Rock	10	245

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

RECEIVED
Mich. Dept. of Public Health
JUL 09 1987
Bureau of Environmental and Occupational Health - GWQS

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

(C) Bridgewater Well Drilling (70 1607

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 10707 Easton Rd New Lothrop

Signed Howard Bridgewater Date 5-20-87

AUTHORIZED REPRESENTATIVE

D67d 2/84

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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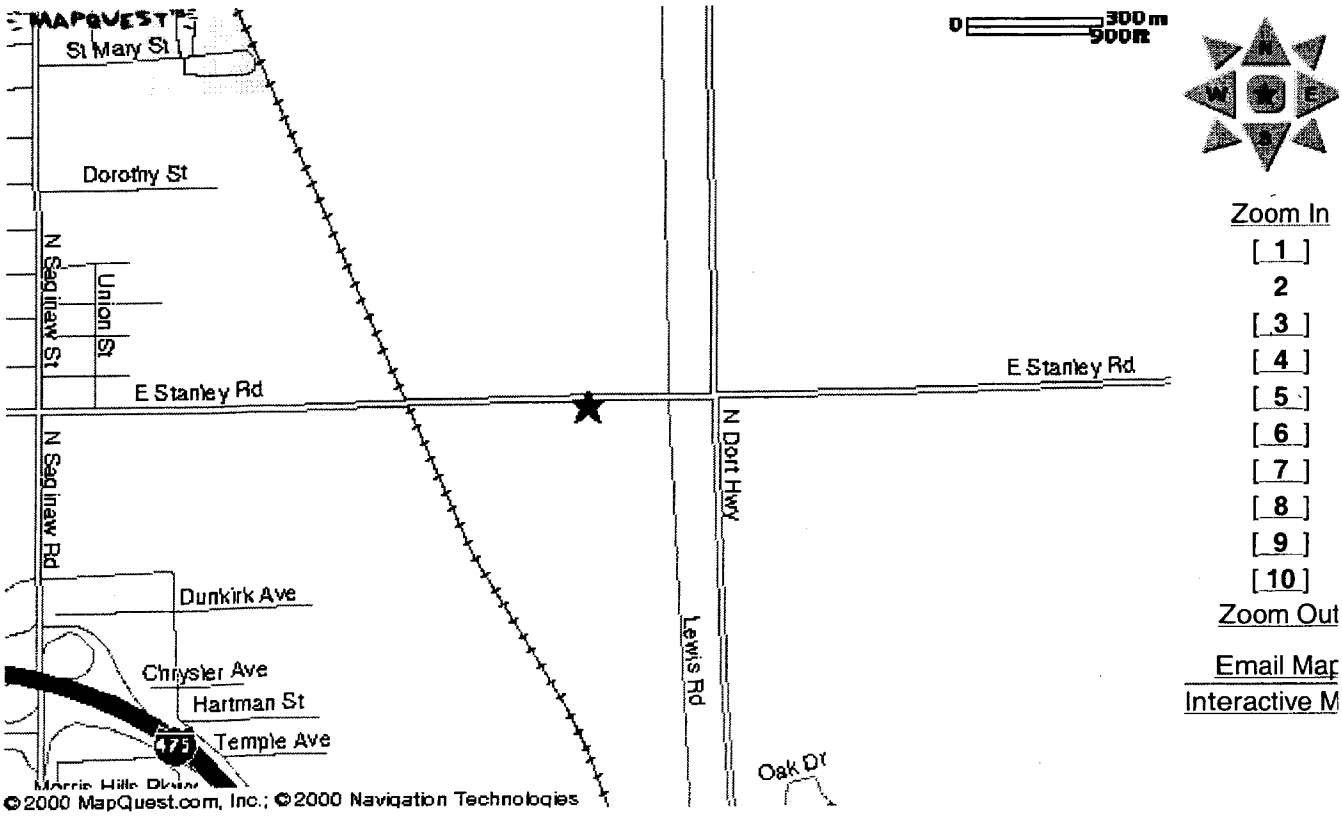
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MICHIGAN DEPARTMENT OF PUBLIC HEALTH

GEOLOGICAL SURVEY NO. NOV 30 1981

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

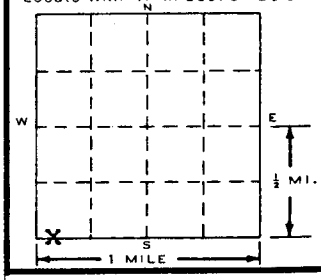
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Mt Morris	SW¼ SW¼ SW¼	12	8 N/S	6 E/W

Distance And Direction From Road Intersection

Street Address & City of Well Location

Locate with "X" in Section Below — Sketch Map



3 OWNER OF WELL: 197

Address: Leo Dolan, 2008 Stanley Rd, Mt. Morris, Mi 48458

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH: (completed) 157 ft. — **Date of Completion** 8-10-81

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING Diameter: ☐ Steel ☒ Threaded ☐ Plastic ☐ Welded

5 in. to 112 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to 110 ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface _____ ft.

Weight _____ lbs./ft.

Drive Shoe ☒ Yes ☐ No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	8	8
Blue Clay	18	16
Sand & Gravel	12	28
Blue Clay	60	88
Blue Clay	10	98
Shale	18	116
Sand & Stones	41	157

USE A 2ND SHEET IF NEEDED

8 SCREEN ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL

50 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

100 ft. after 2 hrs. pumping at 20 G.P.M

_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☒ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From _____ to _____ ft.

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☐ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name: Myers

Model number: S2H52-511 — ½ Volts: 220

Length of Drop Pipe: 100 ft. capacity: 11 G.P.M

TYPE ☒ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name: Well X-Trol

Model number: WX203 Capacity: 60 Gallons

15. Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM

•CORRECTED BY:

••ADDITION BY:

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Dekoski Well Drilling (REGISTERED BUSINESS NAME) 1242 (REGISTRATION NO.)

Address: 1151 Paul St, Mt. Morris, Mi

Signed: Robert J. Dekoski (AUTHORIZED REPRESENTATIVE) Date: 11-5-81

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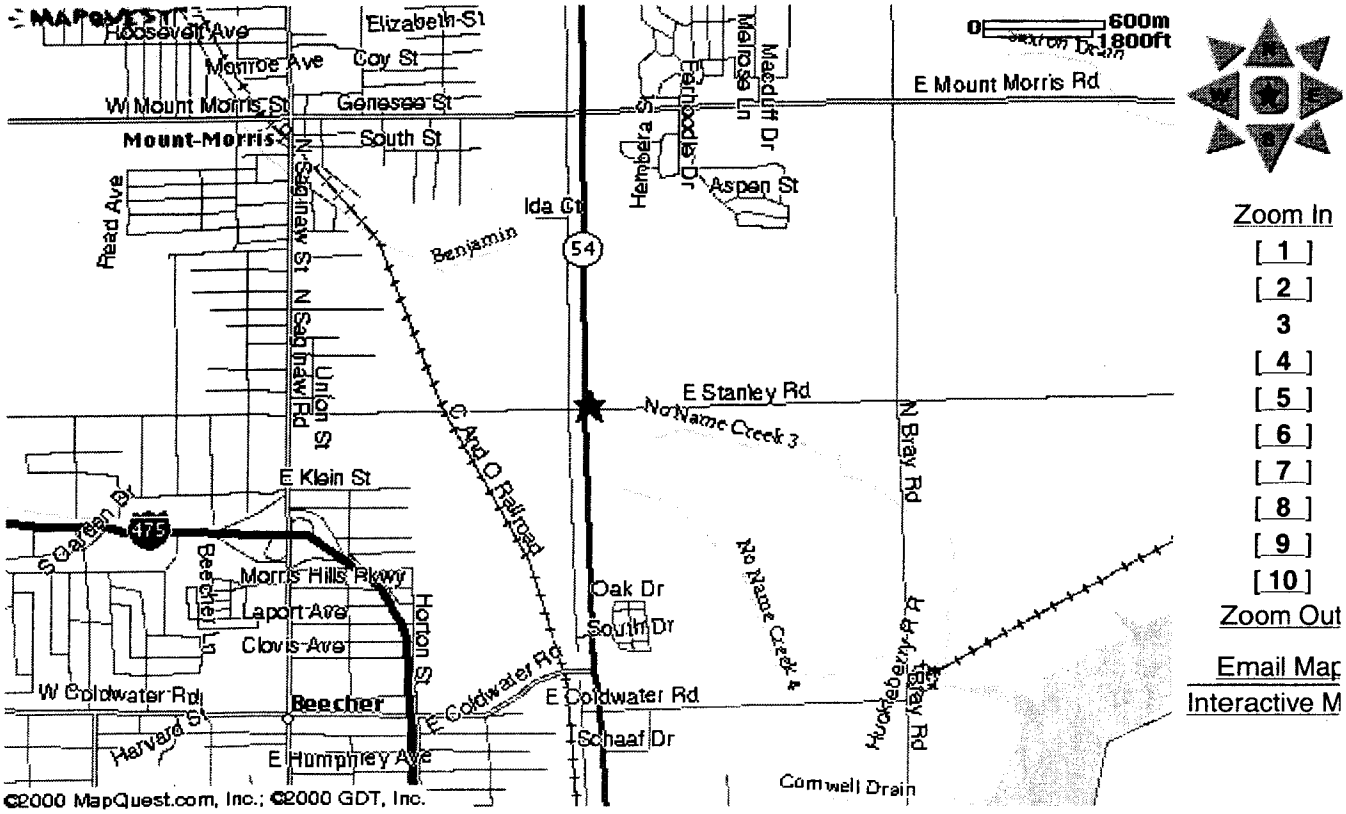
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3 APR 19 1977

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

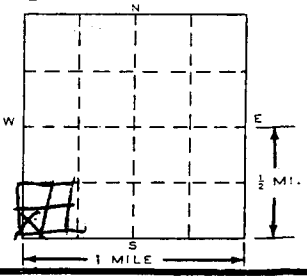
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SW¼ SW¼ SW¼	8	T8 N	R7 E

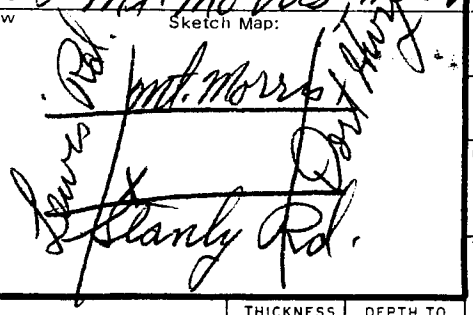
Distance And Direction from Road Intersections: 2013 E. Stanley Rd.

Street address & City of Well Location: Mt. Morris, Mich

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL

Address: Charles Walker 2013 E. Stanley Rd. Mt. Morris, Mich (98)

4 WELL DEPTH: (completed) Date of Completion

48 ft. March 24, 77

5

☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☒ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☒ Welded ☐

2 in. to 44 ft. Depth
____ in. to ____ ft. Depth

Height: Above/~~Below~~ Surface 2 ft.
Weight 3.25 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Clay	38'	38'
Brown Sand	10'	48'

8 SCREEN:

Type: Johnson Dia.: 1¼"
Slot/Gauze 10 Length 42"
Set between 44 ft. and 48 ft.
Fittings: 3" x 1¼" Tail Pipe + Brass Elb.

9 STATIC WATER LEVEL

11 ft. below land surface

10 PUMPING LEVEL below land surface

42 ft. after 2 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☒ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted?

☐ Yes ☒ No
☐ Neat Cement ☐ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

50 feet S. Direction Septic Tank Type
Well disinfected upon completion? ☒ Yes ☐ No

15 PUMP:

☐ Not installed
Manufacturer's Name Home Owners
Model Number ____ HP ____ Volts ____
Length of Drop Pipe 30 ft. capacity 7 G.P.M.
Type: ☐ Submersible
☒ Jet ☐ Reciprocating

Box El. Covered Suction

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY MSB.
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

W. W. Cook Well Drilling — 1507
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 1565 Chev. Ave, Flint

Signed W. Wayne Cook — Date March 24 77
AUTHORIZED REPRESENTATIVE

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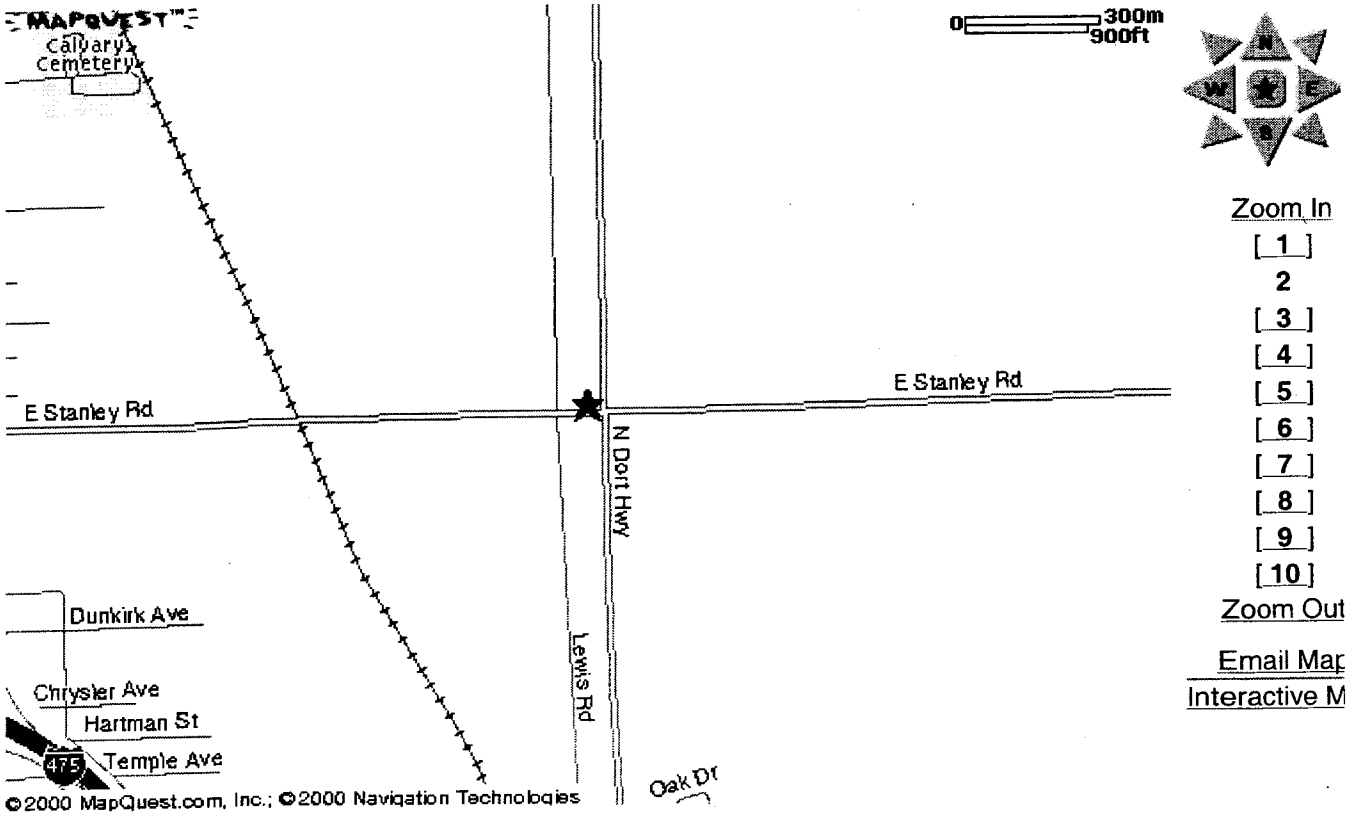
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★ **2013 East Stanley Road, Mount Morris, MI 48458-8705** 198

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GEOLOGICAL SURVEY SAMPLE No.

MAR 10 1981

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

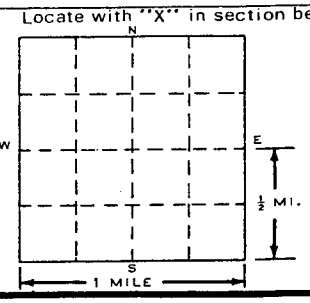
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	8 N/S	7 E/W

Distance And Direction from Road Intersections: Approx. 0.1 mi. E. of Dort Hwy.

Street address & City of Well Location: 2056 Stanley

Locate with "X" in section below — Sketch Map:



3 OWNER OF WELL:

Address: Richard Neeley 199 2056 Stanley St. Morris, Michigan

4 WELL DEPTH: (completed) 280 ft. **Date of Completion:** February 6, 1981

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 204 ft. Depth; ____ in. to ____ ft. Depth. Height: Above/Below Surface ____ ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	190	190
Shaley clay & broken rock	6	196
Limestone	24	220
Gray shale	10	230
Sandrock	10	240
Shaley rock	10	250
Limestone	20	270
Shale	10	280

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: none Dia.: ____ Slot/Gauze ____ Length ____ Set between ____ ft. and ____ ft. Fittings:

9 STATIC WATER LEVEL: 78 ft. below land surface

10 PUMPING LEVEL below land surface: 280 ft. after ____ hrs. pumping 10 g.p.m; ____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) apk 5 Chlorides (Cl) ____ Hardness apk 15 Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ ____ Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination: 50 feet W Direction Septic Type. Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed. Manufacturer's Name Goulds. Model Number 7EH HP 1/2 Volts ____. Length of Drop Pipe 126 ft. capacity ____ G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

E. Taylor Well Drilling 1590
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 11123 Lewis St., Clio

Signed ____ AUTHORIZED REPRESENTATIVE Date 2/6/81

D67d 100M (Rev. 12-68)

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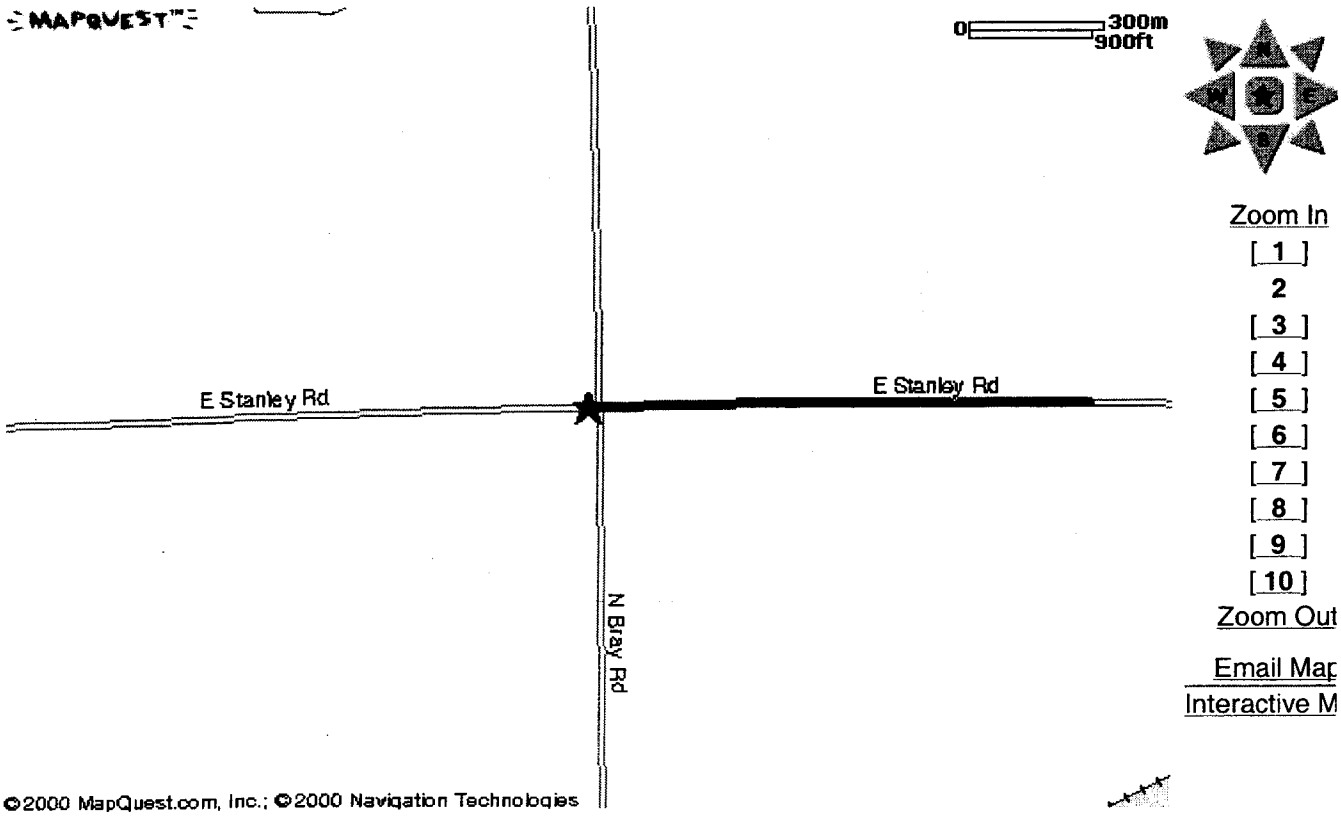
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GEOLOGICAL SURVEY SAMPLE No. [ ]

JUL 10 1980

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

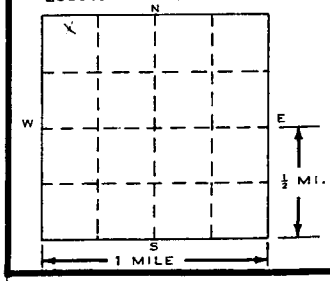
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	8	8 N.S.	7 E. W.

Distance And Direction from Road Intersections

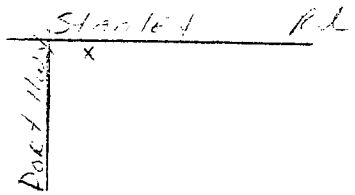
3 lots E of Dort Hwy. S side

Street address & City of Well Location 2068 E. Stanley Rd.

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: Landriea Miner 200

Address 2068 E. Stanley Rd. Mt. Morris, MI

4 WELL DEPTH: (completed) 252 ft. Date of Completion March 11, 1980

5 [ ] Cable tool [xx] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ] ____

6 USE: [x] Domestic [ ] Public Supply [ ] Industry [ ] Irrigation [ ] Air Conditioning [ ] Commercial [ ] Test Well [ ] ____

7 CASING: Threaded [x] Welded [ ] Height: Above/Below Surface 1 ft.

4 in. to 210 ft. Depth Weight 11 lbs./ft.

____ in. to ____ ft. Depth Drive Shoe? Yes [x] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Blue Clay	40'	40'
Sand & Gravel	15'	55'
Blue Clay & Gravel	125'	180'
Gravel	10'	190'
Limestone	30'	220'
Gray Sandstone	20'	240'
Limestone	10'	250'
Gray Sandstone	2'	252'

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____

Slot/Gauze ____ Length ____

Set between ____ ft. and ____ ft.

Fittings:

9 STATIC WATER LEVEL 80 ft. below land surface

10 PUMPING LEVEL below land surface

250 ft. after 3 hrs. pumping 33 g.p.m

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: [ ] In Approved Pit [x] Pitless Adapter [ ] 12" Above Grade

13 Well Grouted? [xx] Yes [ ] No [ ] Neat Cement [x] Bentonite [ ] ____

Depth: From 1 ft. to 210 ft.

14 Nearest Source of possible contamination

50 feet E Direction septic Type

Well disinfected upon completion [x] Yes [ ] No

15 PUMP: [ ] Not installed

Manufacturer's Name Goulds

Model Number 7EH05422 HP ½ Volts 230

Length of Drop Pipe 120 ft. capacity 7 G.P.M.

Type: [x] Submersible [ ] Jet [ ] Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM 8.

CORRECTED BY

ADDITION BY

ELEVATION

DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. 0032

REGISTERED BUSINESS NAME REGISTRATION NO.

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed Kenneth W. Lyons Date Mar 14, 1980

AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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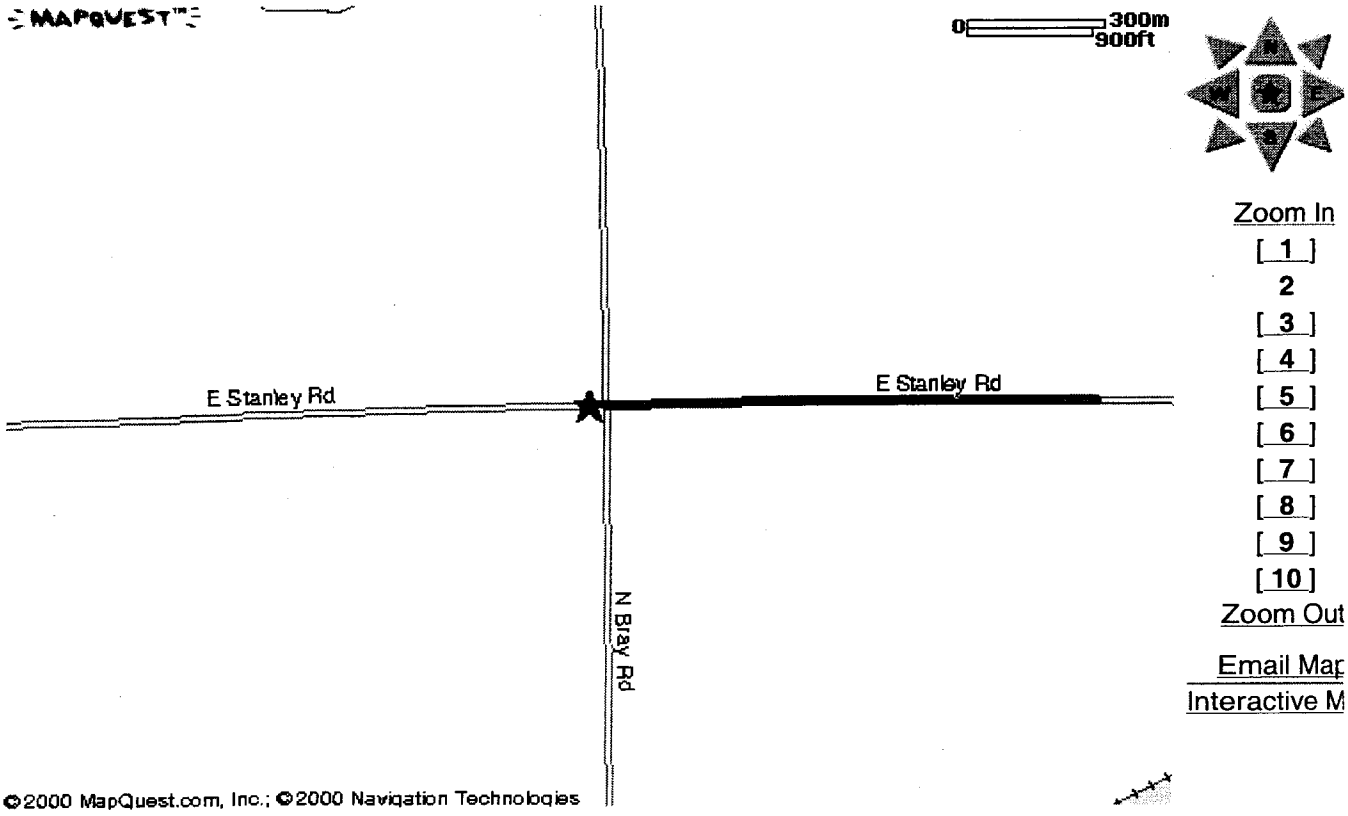
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

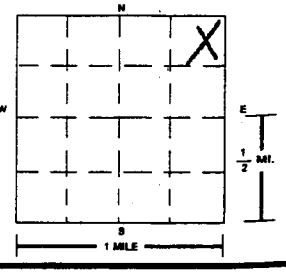
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NE 1/4 NE 1/4	17	8 N	7 E

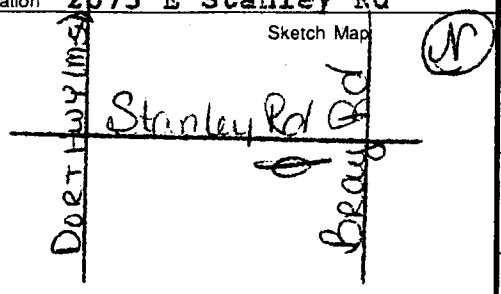
Distance and Direction from Road Intersection
Between Bray & Dort on South. 201

Street Address & City of Well Location 2073 E Stanley Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Tommy / Nellie Cochran
Address 2073 Mill Rd #7 Flint MI

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 205 ft. | Date Completed 9/16/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 157 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 157 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	150	150
limestone & shales	15	165
limestone, sandstone, shlaes	40	205

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USE A 2ND SHEET IF NEEDED

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
50 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
205 ft. After _____ hrs. Pumping at 20-25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 157 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 30+ ft. Direction E
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 80 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well.

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 9 29 96

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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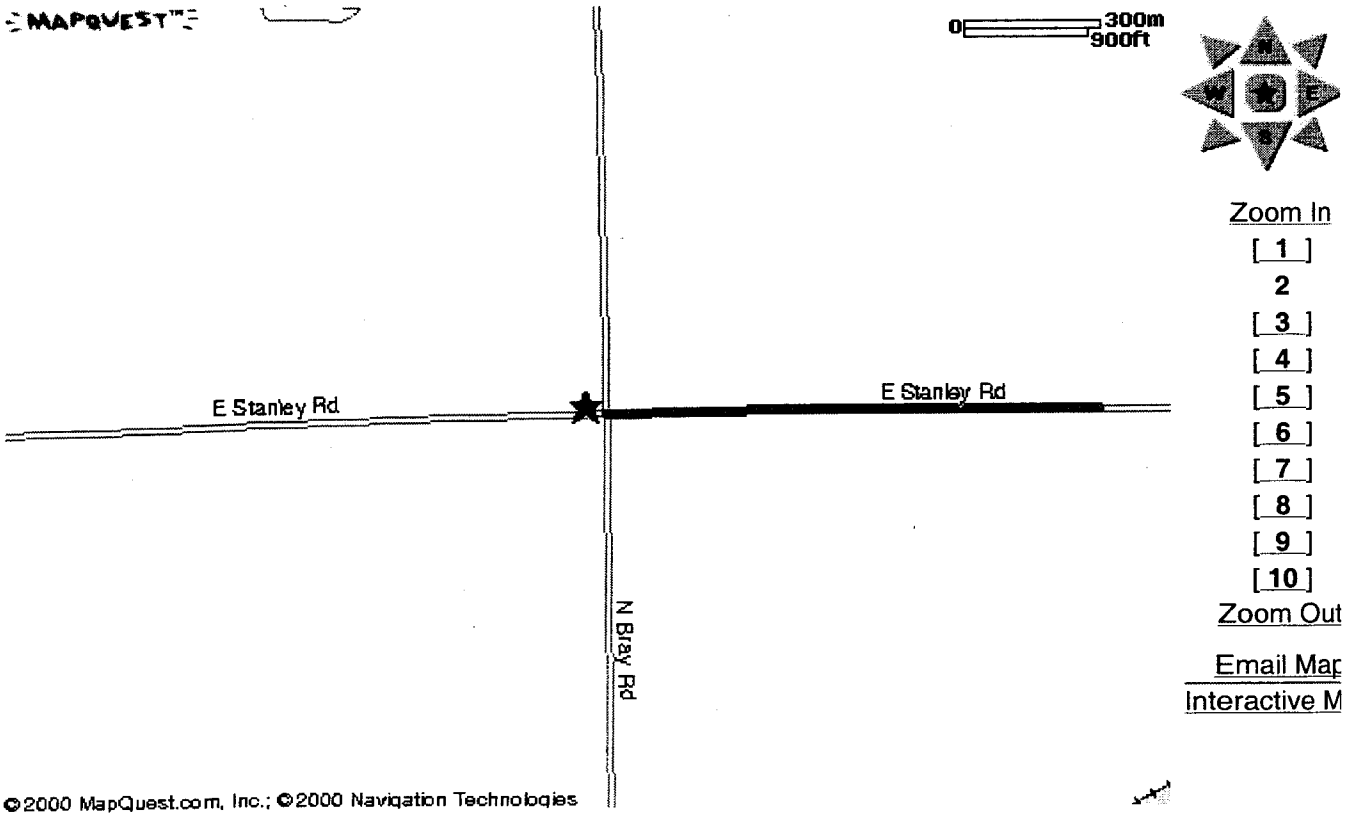
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

1 LOCATION OF WELL

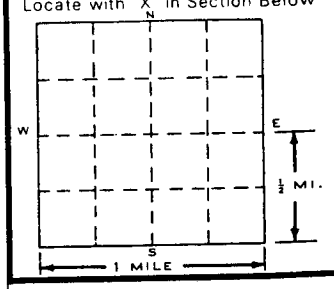
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	¼ ¼ ¼	17	X N/S	7 E/W

Distance And Direction From Road Intersection: E of Dort Hwy. S side

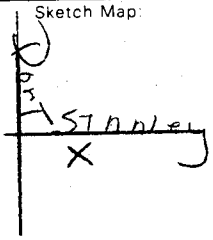
02

Street Address & City of Well Location: 2160 Stanley Rd. Mt. Morris

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL

Address: Rex LaLonde, 9192 N. Vassar, Mt. Morris, MI

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH: (completed) 260 ft. **Date of Completion** Sept. 23, 1985

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 185 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8 in. to 185 ft. depth

_____ in. to _____ ft. depth

Height Above/Below Surface _____ ft

Weight _____ lbs./ft. SDR 21

Drive Shoe ☐ Yes ☐ No Shale Boot

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	18'	18'
Sand & Gravel	25'	43'
Clay	121'	164'
Limestone	4'	168'
Green Sandstone	22'	190'
Limestone	11'	201'
Gray Sandstone	9'	210'
Limestone	16'	226'
Gray Sandstone	34'	260'

8 SCREEN ☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft

FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft Other _____

9 STATIC WATER LEVEL

102 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

190 ft. after 2 hrs. pumping at 30 G.P.M

_____ ft. after _____ hrs. pumping at _____ G.P.M

11 WELL HEAD COMPLETION ☐ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 1 to 185 ft

☐ Neat cement ☒ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Septic Distance 60+ ft. Direction SE

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☒ Not Installed ☐ Pump Installation Only

Manufacturer's name _____

Model number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M

TYPE ☐ Submersible ☐ Jet _____

PRESSURE TANK

Manufacturer's name _____

Model number _____ Capacity _____ Gallons

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Bureau of Environmental and Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

15 Remarks, elevation, source of data, etc.

16 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING INC. (REGISTERED BUSINESS NAME) 0032 (REGISTRATION NO.)

Address G-8107 N. Dort Hwy. Mt. Morris, MI

Signed _____ (AUTHORIZED REPRESENTATIVE) Date Oct. 1, 1985

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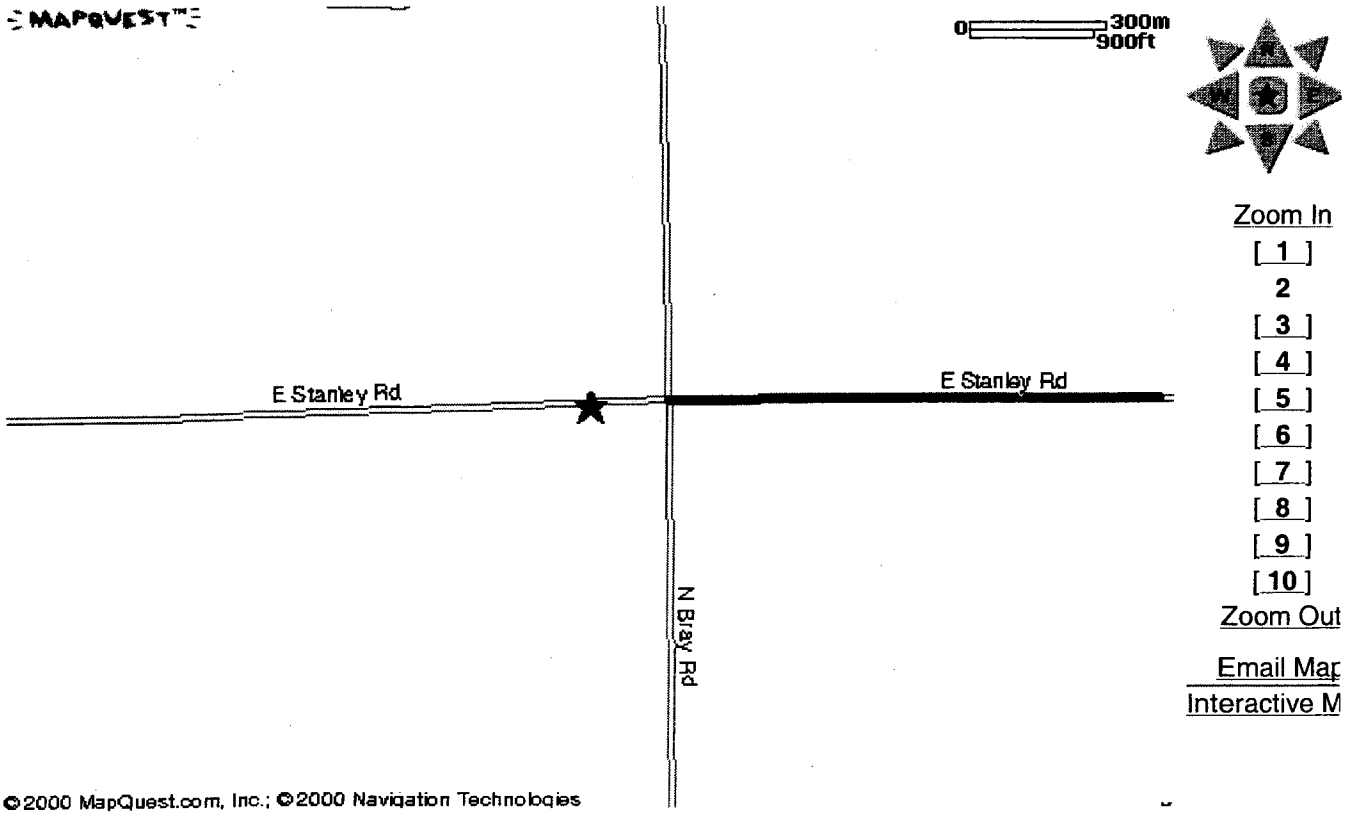
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TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

1. LOCATION OF WELL

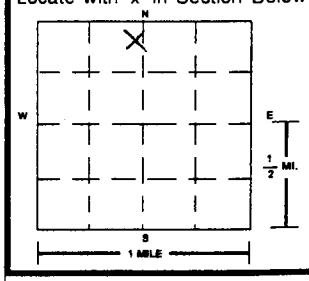
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	NE 1/4 NE 1/4 NW 1/4	17	8	7

Distance and Direction from Road Intersection

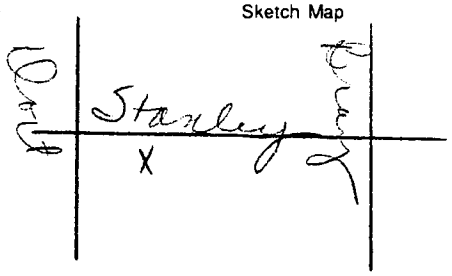
Between: Bray and Dort Hwy.
OFF: Stanley Rd.
2176 Stanley Rd.

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL

Address: Rusty Gould
511 Morgan Dr.
Mt. Morris, MI 48458

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 260 ft. | Date Completed 11/05/95 | ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 175 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 175 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer
SHALE BOOT

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
36 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
200 ft. After 2 hrs. Pumping at 30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 175 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Septic Distance 50+ ft. Direction south

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	20	20
Sandy Clay	80	95
Clay	65	160
Sandstone	12	172
Limestone	17	189
Sandstone	6	195
Limestone	10	205
Sandstone	15	220
Limestone	5	225
Sandstone	15	240
Black Shale	5	245
Sandstone	15	260

USE A 2ND SHEET IF NEEDED

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Red Jacket
Model Number 50SEW1 HP .5 Volts 230
Length of Drop Pipe 100 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 202 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 8107 N Dort Hwy Mt Morris MI. 48458

Signed _____ Date 11/08/1995
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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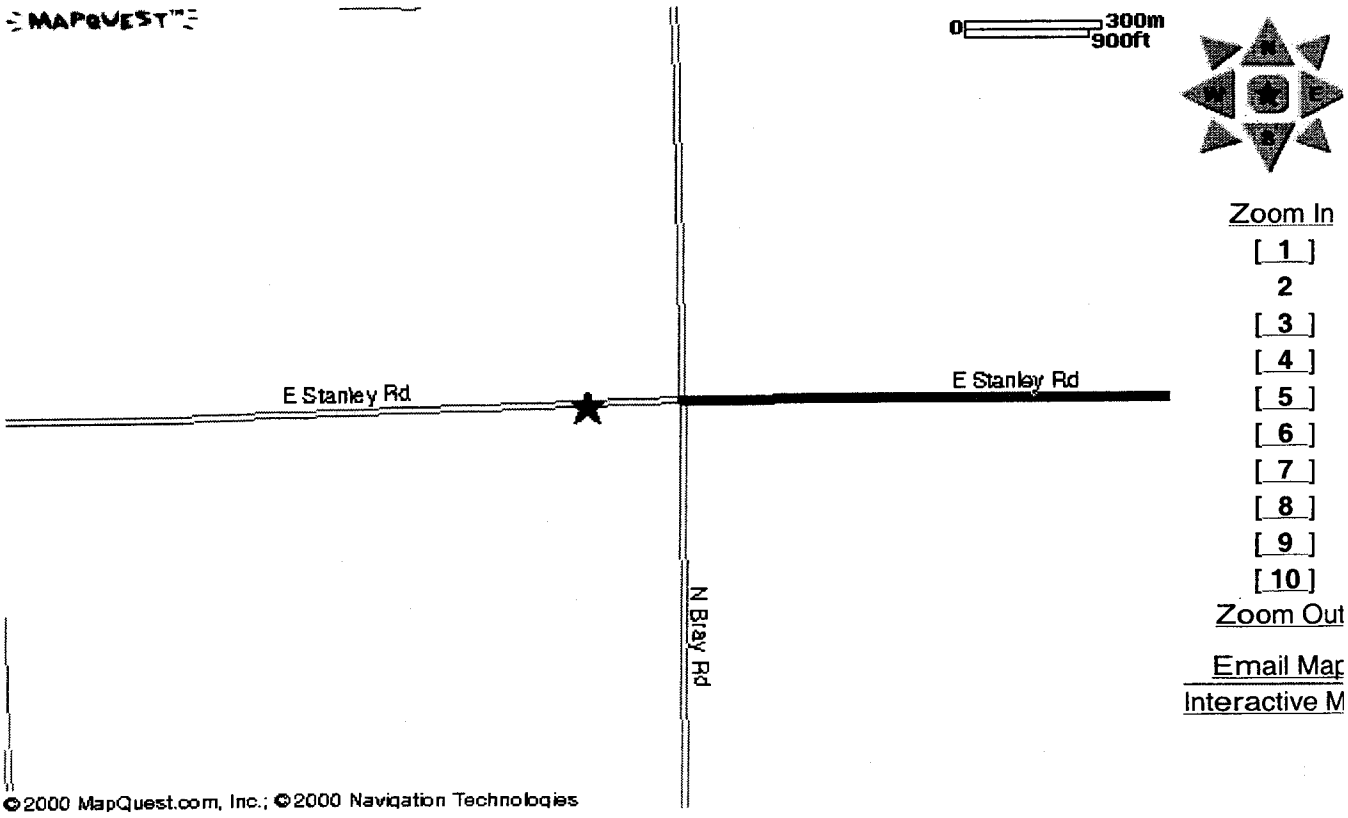
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★ **2176 East Stanley Road, Mount Morris, MI 48458-8804** 203

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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NUMBER

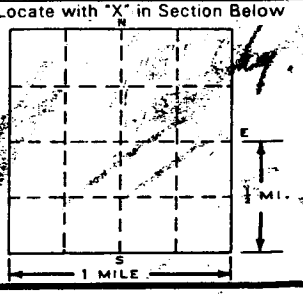
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	1/4 1/4 1/4	8	8 N/S	7 E/W

Distance And Direction From Road Intersection: About 0.6 MILE E. on Port Highway and About 300 ft. N. of STANLEY Rd.

Street Address & City of Well Location: 2177 E. STANLEY Rd.

Locate with "X" in Section Below



Sketch Map: 204

3 OWNER OF WELL:

PAUL KNICKERBACKER

Address 2115 E. STANLEY Rd. MT. MORRIS Mich.

Address Same As Well Location? ☐ Yes ☒ No

4 WELL DEPTH:

280 FT.

Date Completed MO. 12 DAY 10 YEAR 86

☐ New Well ☒ Replacement Well

5

☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE:

☒ Domestic ☐ Type I Public ☐ Type III Public

☐ Irrigation ☐ Type IIa Public ☐ Heat pump

☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING:

Diameter ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded

5 in. to 20 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

8 in. to 203 ft. depth

_____ in. to _____ ft. depth

Height: Above/~~Below~~ Surface _____ ft.

Weight PVC lbs./ft.

~~Drive Shoe~~ ☒ Yes ☐ No

TAPE

8 SCREEN:

☐ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check

☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL:

_____ ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

140 ft. after _____ hrs. pumping at 12 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION:

☒ Pitless adapter ☐ 12" above grade

☐ Basement offset ☐ Approved pit

12 WELL GROUTED?

☐ No ☒ Yes From TOP to 203 ft.

☐ Neat cement ☒ Bentonite ☐ Other CLAY SLURRY

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type _____ Distance _____ ft. Direction _____

Well disinfected upon completion? ☒ Yes ☐ No

Was old well plugged? ☒ Yes ☐ No

14 PUMP:

☐ Not Installed ☒ Pump Installation Only

Manufacturer's name Goulds

Model number 10EJ412 HP 3/4 Volts 230

Length of Drop Pipe 160 ft. capacity 10 G.P.M.

TYPE: ☒ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name A-O Smith

Model number V-100 Capacity 70 Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	14	14
YELLOW CLAY	6	20
BLUE CLAY	27	47
GRAVEL	30	77
BLUE CLAY	124	201
BROWN SHALE	14	215
BLACK SHALE	1	216
BLACK SHALE W/STRIPS GRAY SANDSTONE	64	280

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PERIOR WELL DRILLING 0202

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 4426 GREGOR ST GENESEE

Signed Doug Perior Date 12-11-86

AUTHORIZED REPRESENTATIVE

17. ~~Rig Operator's~~ Name:

DOUG

D67d 12/85

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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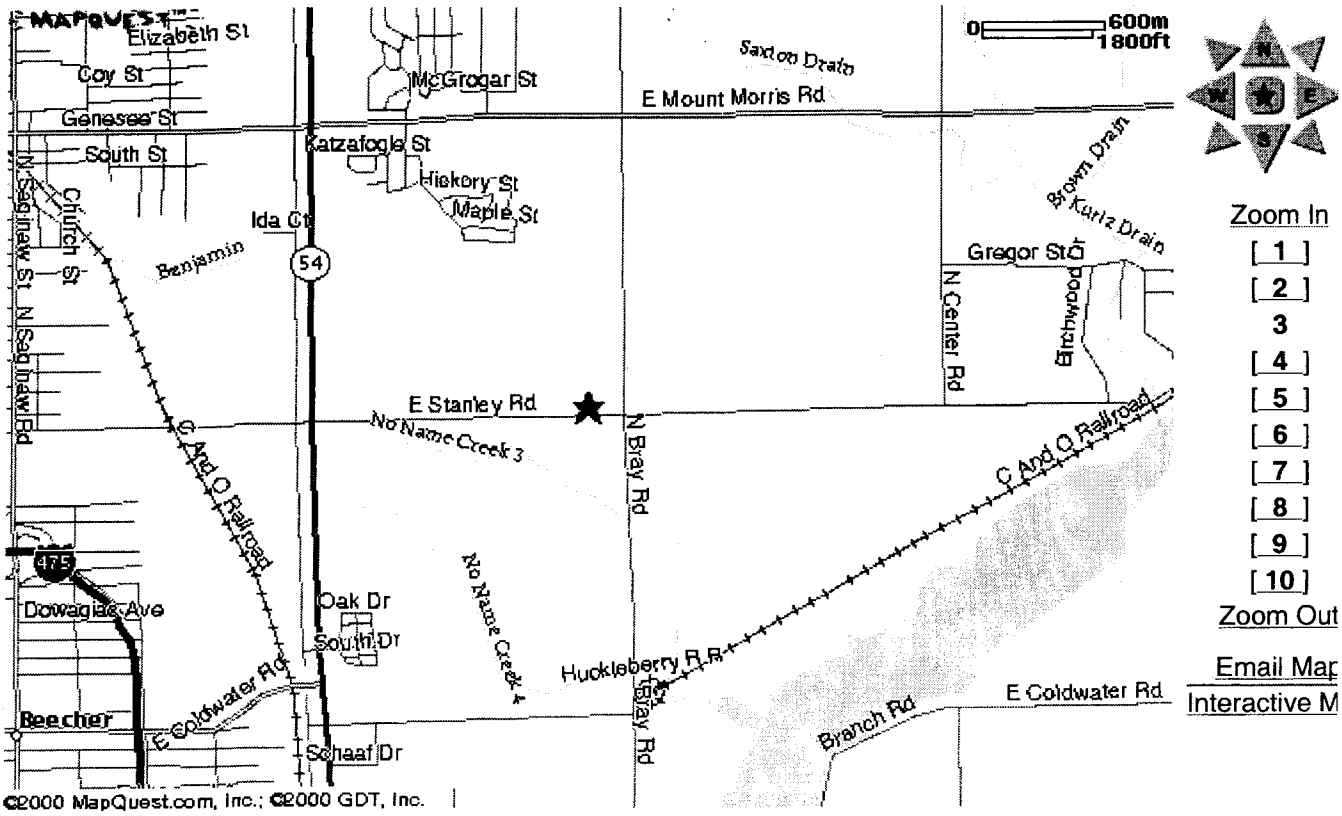
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

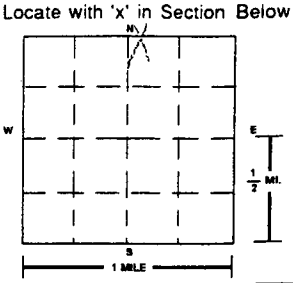
PERMIT NO:

1. LOCATION OF WELL

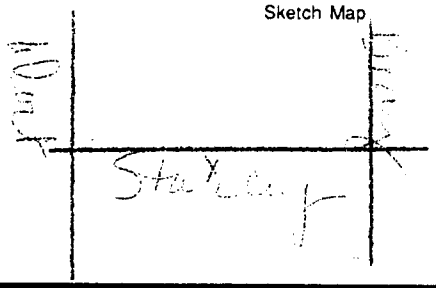
County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	NW 1/4 NW 1/4 NE 1/4	17	8	7

Distance and Direction from Road Intersection
Between: Dort and Bray Rd.
OFF: Stanley Rd. S. Side
2240 Stanley Rd.
Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: George Preece
9059 Dort Hwy.
Mt. Morris, MI. 48458
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 300 ft. | Date Completed 11/26/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☒ Steel ☐ Threaded ☐ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 171 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 171 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe DR21
☒ Shale Packer
SHALE BOOT

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
90 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
220 ft. After 2 hrs. Pumping at 18 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☐ Yes From 1 to 171 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Septic Distance 50+ ft. Direction SE
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name SCEW1 .75 230
Model Number 150 HP 1 Volts
Length of Drop Pipe _____ ft. Capacity _____ G.P.M.
TYPE: ☐ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK: Challenger
Manufacturer's Name _____
Model Number 202 Capacity 20 Gallons 5.2

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	25	25
Clay	30	55
Clay and Gravel	20	75
Clay	20	95
Clay and Gravel	40	135
Clay	20	155
Soft Sandstone	10	165
Limestone	55	220
Black Shale	60	280
Sandstone	10	290
Sandy Black Shale	10	300

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name _____

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1986
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris MI. 48458
Signed _____ Date 12/30/1996
AUTHORIZED REPRESENTATIVE

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemenor.

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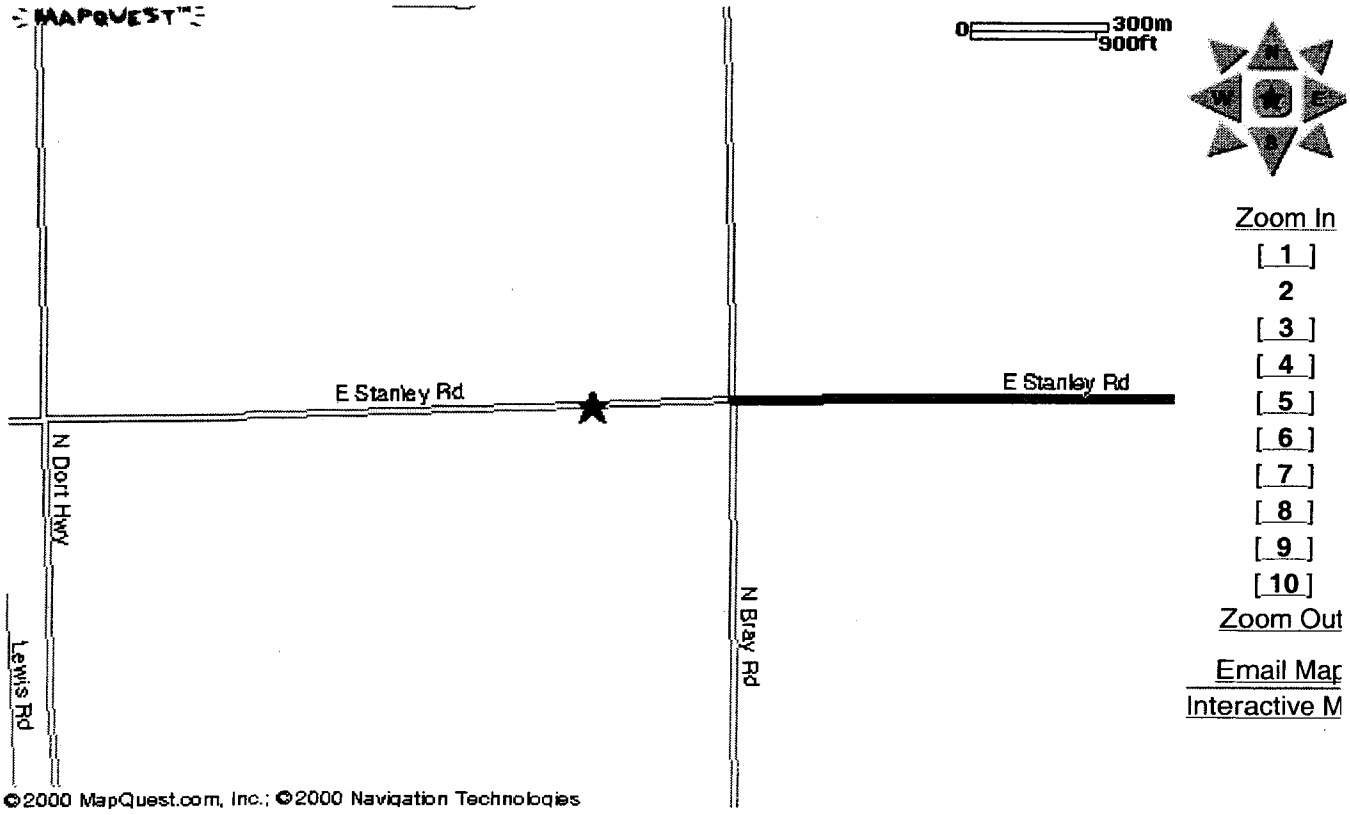
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GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL

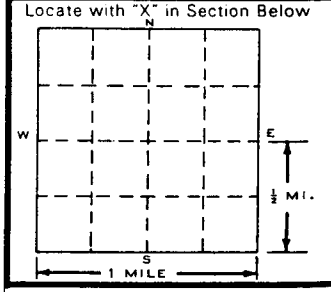
County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	1/4 1/4 1/4	8	T 8 N/S	R 7 E/W

Distance And Direction From Road Intersection

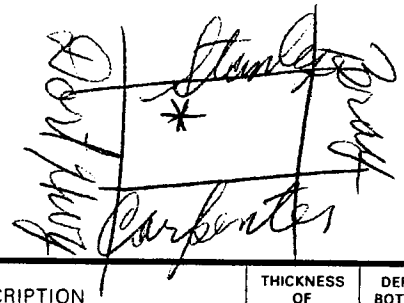
2382 Stanley Rd.

Street Address & City of Well Location

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: Olive Smith

Address 2382 Stanley Rd. Mt. Morris, Mi

Address Same As Well Location? ☑ Yes ☐ No

4 WELL DEPTH: 220 FT. Date Completed MO. 12 DAY 14 YEAR 91 ☐ New Well ☑ Replacement Well

5 ☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ _____

6 USE: ☑ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ _____

7 CASING: Diameter ☐ Steel ☐ Threaded ☑ Plastic ☐ Welded

5 in. to 138 ft. depth

_____ in. to _____ ft. depth

Grouted Drill Hole Diameter

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below Surface 1 ft.

Weight _____ lbs./ft.

Drive Shoe ☐ Yes ☑ No

8 SCREEN: ☑ Not Installed

Type _____ Diameter _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 40 ft. below land surface ☐ Flow

10 PUMPING LEVEL: below land surface

220 ft. after 1 hrs. pumping at 30 G.P.M.

_____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: ☑ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.

☐ Neat cement ☐ Bentonite ☐ Other _____

No. of bags of cement _____ Additives _____

13 Nearest source of possible contamination

Type Septic Distance 80 ft. Direction W

Well disinfected upon completion? ☑ Yes ☐ No

Was old well plugged? ☑ Yes ☐ No

14 PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name Aer

Model number RDL210 HP 1 Volts 230

Length of Drop Pipe 100 ft. capacity 10 G.P.M.

TYPE: ☑ Submersible ☐ Jet _____

PRESSURE TANK:

Manufacturer's name Owners

Model number WX203 Capacity _____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	18	18
Clay	120	138
Sand Stone	82	240

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Thomas W. Watkins Co. 127

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 7869 N. Seymour Rd. Flint, Mi.

Signed John Thomas AUTHORIZED REPRESENTATIVE Date 12-14-91

17. Rig Operator's Name: Van Buecke

D67d 2/89

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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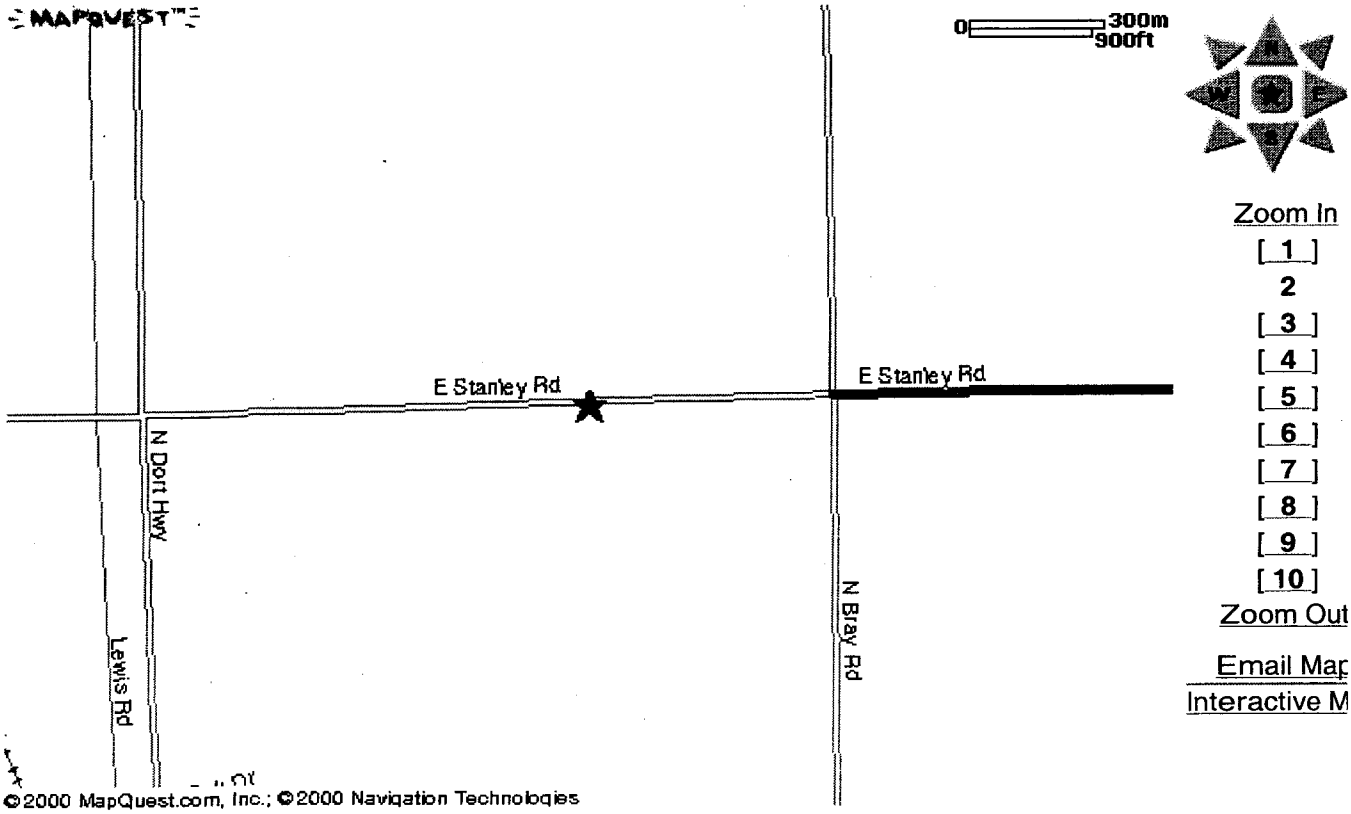
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DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

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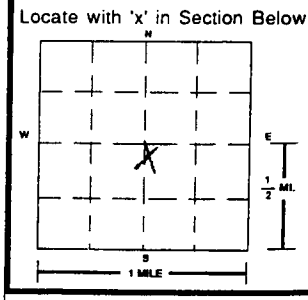
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	NW 1/4 NW 1/4 SE 1/4	9	6	7

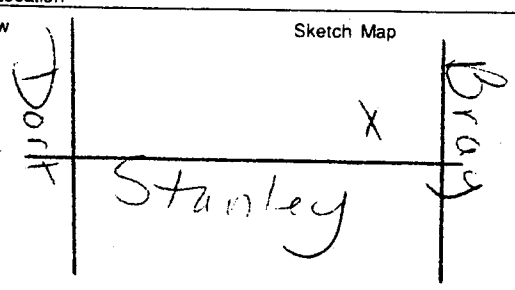
Distance and Direction from Road Intersection
Between: Dort and Bray Rd.
OFF: Stanley Rd.
2389 Stanley Rd.
Street Address & City of Well Location

07

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL
Address: Foundation Specialists
5090 New Castle Rd.
Mt. Morris, MI 48458
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 280 ft. | Date Completed 04/15/99 | ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☐ Hollow Rod ☒ Rotary ☐ Auger/Bored ☐ Driven ☐ Jetted ☐ Dug ☐ _____

6. USE: ☒ Household ☐ Irrigation ☐ Test Well ☐ Type I Public ☐ Type IIa Public ☐ Type IIb Public ☐ Type III Public ☐ Heat Pump ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5" in. to 174 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8" in. to 174 ft. depth
4.5 in. to 280 ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe SDR21
☒ Shale Packer SHALE BOOT

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	5	5
Clay and Gravel	50	55
Clay	70	125
Gravel	30	155
Sandstone	5	160
Limestone	20	180
Gray Sandstone & Shale	100	280

RECEIVED
MICH DEPT OF ENVIRONMENTAL QUALITY
JUN 24 1999
Drinking Water & Radiological Protection Div.
WELL CONSTRUCTION UNIT

USE A 2ND SHEET IF NEEDED

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
70 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
260 ft. After 2 hrs. Pumping at 20 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ Basement Offset ☐ 12" Above Grade ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 1 to 174 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 9 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type _____ Distance _____ ft. Direction _____
Type Septic Distance 50+ ft. Direction S

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name Hermotor
Model Number T12-75 HP .75 Volts 220
Length of Drop Pipe 140 ft. Capacity 12 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Challenger
Model Number 66 Capacity 20 Gallons 6.2

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL:
☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Concrete Grout ☐ Bentonite Slurry ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name DAN MUNSELL

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
LYONS WELL DRILLING, INC. 1886
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 8107 N Dort Hwy Mt Morris Mi. 48458
Signed _____ Date 05/05/1999
AUTHORIZED REPRESENTATIVE

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GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

SE SE SW

County	Twp.	Fraction	Section No.	Town	Range
GENESEE	GENESEE	~~SW¼ SE¼ SE~~ ¼	8	8 N/S.	7 E/W.

Distance And Direction from Road Intersections: 1/4 M. WEST OF ~~CENTER~~ BRAY RD.

OWNER No.: 208

Street address & City of Well Location: 2401 STANLEY RD. FLINT MICH.

3 OWNER OF WELL: SAM. A. WILL

Address: 6389 MCGREGOR R. OTISVILLE MICH.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
CLAY	24	24
SAND CLAYED	44	68
CLAY	21	89
GRAVEL SOME CLAY	35	124
SAND	12	136
GRAVEL CLAYED	8	144
GRAVEL WATER BEA.	9	153
ROCK SHALE	7	160
SAND ROCK	4	164
LIME ROCK	34	198

4 WELL DEPTH: (completed) 198 ft. Date of Completion 8-16-68

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Threaded ☒ Welded ☐

Diam. 3 in. to 153 ft. Depth

___ in. to ___ ft. Depth

Height: Above/Below surface 12 ft.

Weight 7 lbs/ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: ___ Dia.: ___

Slot/Gauze ___ Length ___

Set between ___ ft. and ___ ft.

Fittings:

9 STATIC WATER LEVEL ___ ft. below land surface 27

10 PUMPING LEVEL below land surface

63 ft. after 3 hrs. pumping 8 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☒ 12" Above Grade

13 GROUTING:

Well Grouted? ☐ Yes ☐ No

Material: ☒ Neat Cement ☐ ___

Depth: From 35 ft. to ___ ft.

14 SANITARY:

Nearest Source of possible contamination

50 feet N. Direction SEPTIC Type

Well disinfected upon completion ☐ Yes ☐ No

15 PUMP: NOT SET

Manufacturer's Name RECRMEND

Model Number 3/4 HP HP ___

Length of Drop Pipe 63 ft. capacity 7 G.P.M.

Type: ☐ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER. ITEM NO.

*CORRECTED BY:

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

ROY ARENDT — REGISTERED BUSINESS NAME

0152 — REGISTRATION No.

Address 3042 EGLESTON AVE.

Signed Roy Arendt — AUTHORIZED REPRESENTATIVE

Date 8-16-68

D67D 100M 6-66

SEP 06 1968

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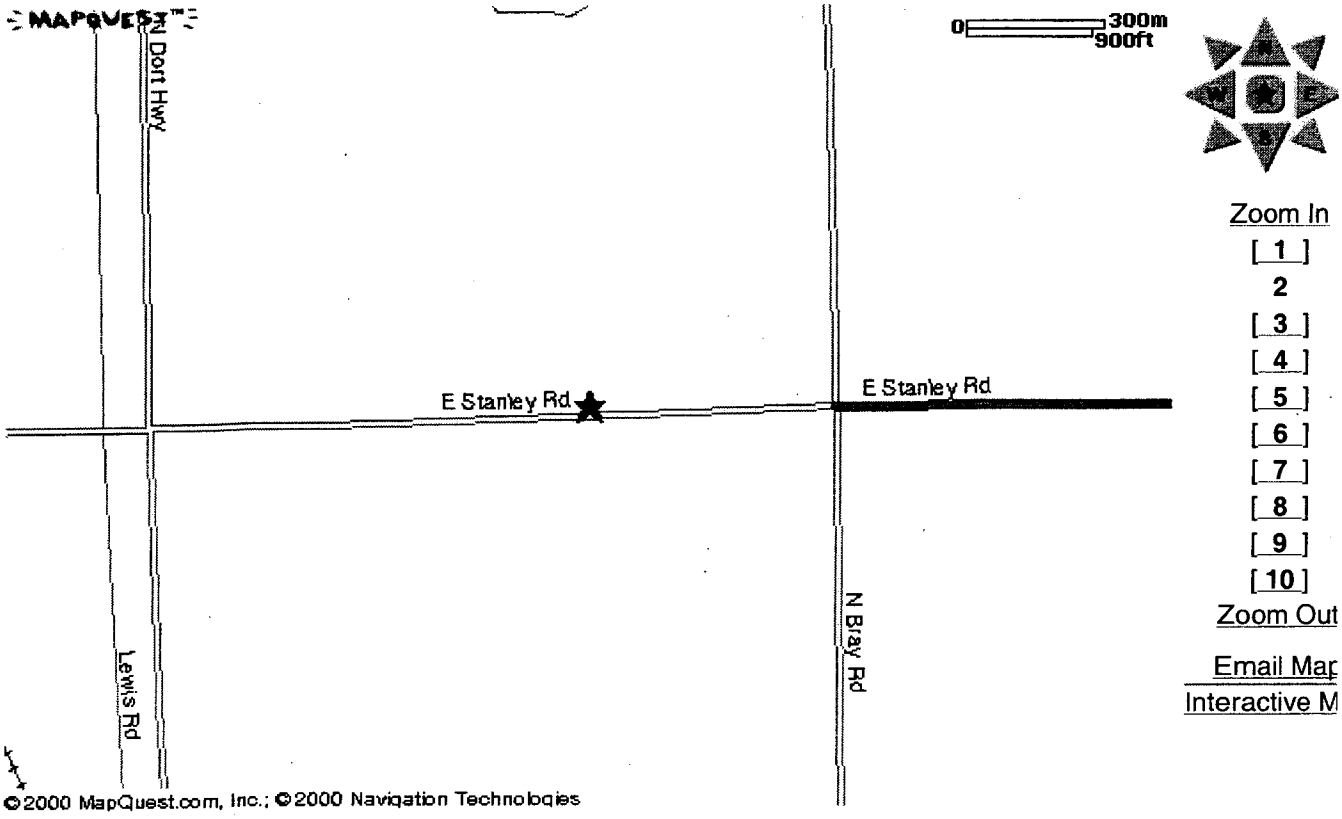
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★ **2401 East Stanley Road, Mount Morris, MI 48458-8979** 208

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

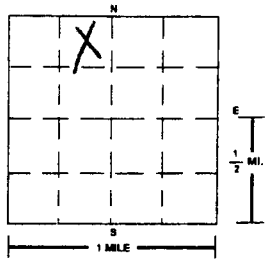
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NE 1/4 NW 1/4	17	8 N	7 E

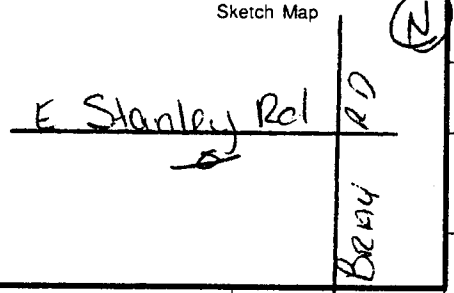
Distance and Direction from Road Intersection: West of Bray Rd on South

Street Address & City of Well Location: 2434 E Stanley Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL: Roger Misener
Address: 2434 E Stanley Rd, Mt Morris MI 209
Address Same as Well Location: [X] Yes [ ] No

4. WELL DEPTH: 225 ft. | Date Completed: 1/15/99 | [ ] New Well [X] Replacement Well

5. [ ] Cable Tool [X] Rotary [ ] Driven [ ] Dug [ ] Hollow Rod [ ] Auger/Bored [ ] Jetted [ ] _____

6. USE: [X] Household [ ] Type I Public [ ] Type III Public [ ] Irrigation [ ] Type IIa Public [ ] Heat Pump [ ] Test Well [ ] Type IIb Public [ ] _____

7. CASING: [ ] Steel [ ] Threaded [X] Plastic [ ] Welded [ ] Other _____
Diameter: 5 in. to 160 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 8 in. to 160 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
[ ] Drive Shoe [X] Shale Packer

8. SCREEN: [X] Not Installed [ ] Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: [ ] K-Packer [ ] Bremer Check
[ ] Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 42 ft. Below Land Surface [ ] Flowing

10. PUMPING LEVEL: Below Land Surface
225 ft. After _____ hrs. Pumping at 20-25 G.P.M.
[ ] Plunger [ ] Bailer [X] Air [ ] Test Pump

11. WELL HEAD COMPLETION:
[X] Pitless Adapter [ ] 12" Above Grade
[ ] Basement Offset [ ] Well House

12. WELL GROUTED? [ ] No [X] Yes From 160 to 0 ft.
[ ] Neat Cement [X] Bentonite [ ] Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10+ ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: [ ] Not Installed [ ] Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 80 ft. Capacity _____ G.P.M.
TYPE: [X] Submersible [ ] Jet [ ] Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	152	152
limestone, sandstone	73	225

USE A 2ND SHEET IF NEEDED

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MICH DEPT OF ENVIRONMENTAL QUALITY
FEB 28 1999
Drinking Water & Radiological Protection Division
Ground Water Supply Section
WELL CONSTRUCTION UNIT

15. ABANDONED WELL PLUGGED? [X] Yes [ ] No
Casing Diameter 2 in. Depth _____ ft.
PLUGGING MATERIAL: [ ] Neat Cement [ ] Bentonite Slurry [ ] Cement/Bentonite Slurry [ ] Concrete Grout [X] Bentonite Chips
No. of Bags 3 1/2 Casing Removed? [ ] Yes [ ] No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
[ ] Employee [ ] Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING 2082
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 11103 Lewis Rd Clio, MI 48420
Signed Brad Taylor AUTHORIZED REPRESENTATIVE Date 1/31/99

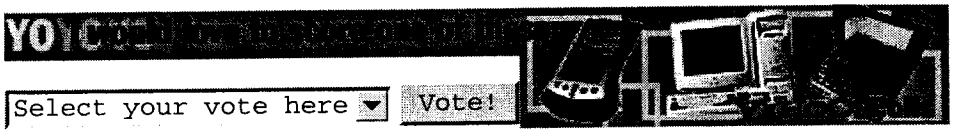
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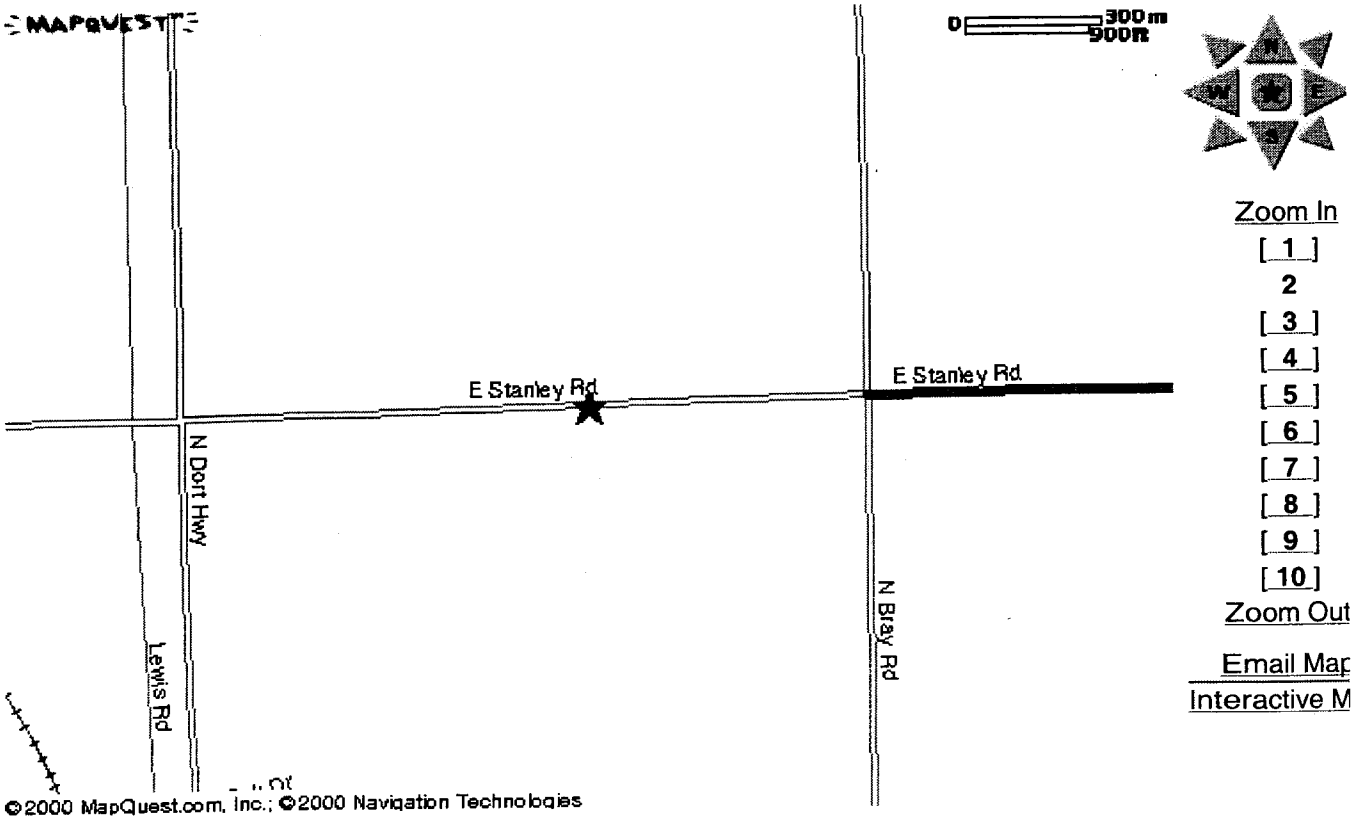
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GEOLOGICAL SURVEY SAMPLE No.

APR 05 1974

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

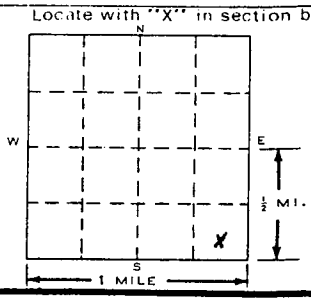
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	S½ SE¼ SE¼	#8	T8N N/S.	R7E

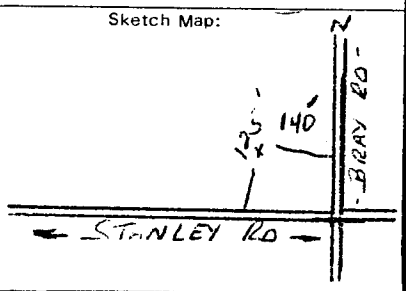
Distance And Direction from Road Intersections

Street address & City of Well Location: 2439 Stanley Rd 210

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL:

Address: Clovenleaf Inc 7480 N. State Rd Davison Mich.

4 WELL DEPTH: (completed) Date of Completion

185 ft. July 18, 1973

5

☐ Cable tool ☑ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:

☑ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:

Threaded ☑ Welded ☐ Diam.

2 in. to 143 ft. Depth
____ in. to ____ ft. Depth

Height: Above/Below Surface 12" ft.
Weight 2.75 lbs./ft.
Drive Shoe? Yes ☑ No ☐

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SANDY CLAY	30'	30'
GRAVEL	10'	40'
CLAY	90'	130'
SAND STONE	55'	185'

USE A 2ND SHEET IF NEEDED

8 SCREEN:

Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL

36 ft. below land surface

10 PUMPING LEVEL below land surface

70 ft. after 4 hrs. pumping 10 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☐ Pitless Adapter ☑ 12" Above Grade

13 Well Grouted? ☑ Yes ☐ No

☐ Neat Cement ☑ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

100 feet Northwest Direction ? Type
Well disinfected upon completion ☐ Yes ☐ No

15 PUMP:

☑ Not installed
Manufacturer's Name ____
Model Number ____ HP ____ Volts ____
Length of Drop Pipe ____ ft. capacity ____ G.P.M.
Type: ☐ Submersible
☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ralph Keller Well Drilling — 319
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 6200 Kelly Rd

Signed J. Keller — Date 3-10-74
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

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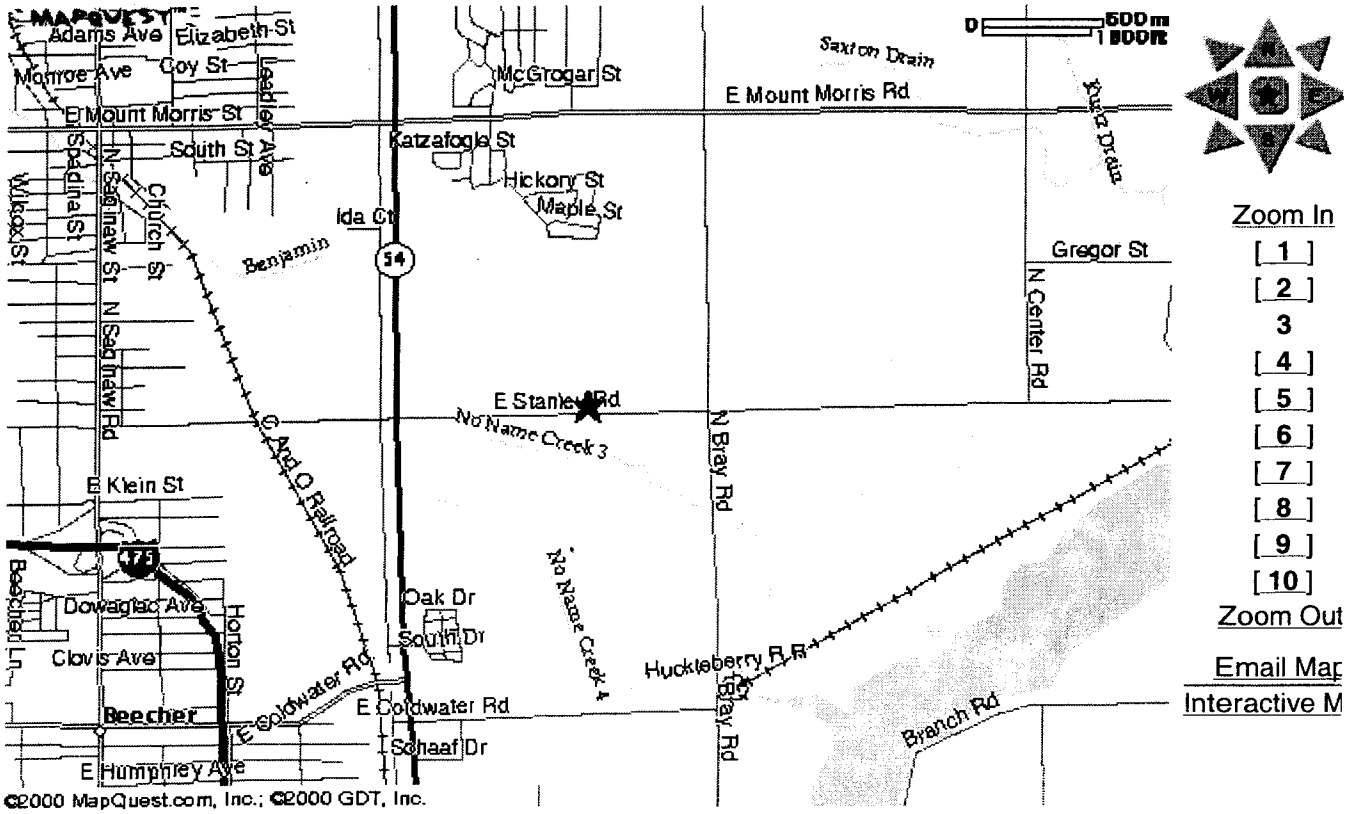
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

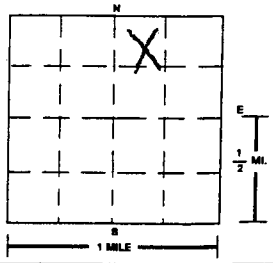
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NW 1/4 NE 1/4	17	8 N	7 E

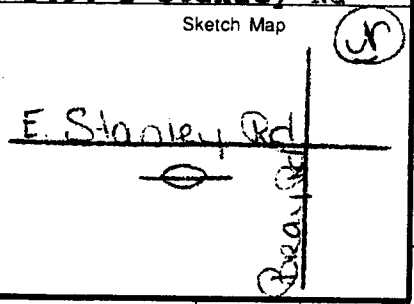
Distance and Direction from Road Intersection
West of Bray Rd on South.

Street Address & City of Well Location 2454 E Stanley Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL William Shriner
Address 2454 E Stanley Rd
Mt Morris MI

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 205 ft. | Date Completed 10/30/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 158 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 158 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs./ft.
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
47 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
205 ft. After _____ hrs. Pumping at 30+ G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 158 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10+ ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 80 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	144	144
sandstone, limestone	61	205

USE A 2ND SHEET IF NEEDED

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Mich. Dept. of Public Health
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15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☒ Bentonite Chips
No. of Bags 2 Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed _____ (AUTHORIZED REPRESENTATIVE) Date 11/4/96

GW-2-228 9/93

GEOLOGICAL SURVEY COPY

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
Genesee	Genesee	NW¼ NE¼ NE¼	17	8 N/S.	7 E/W.

D. ce And Direction from Road Intersections: 2454 Stanley Rd. 2½ M. WEST OF BRIGHTON RD.

OWNER No. 180

Street address & City of Well Location

3 OWNER OF WELL: Harry Schmitter Builder

Address: 5303 Nassau St. Flint Mich

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	27	27
Sand	4	31
Stoney Clay	37	68
Clay	70	138
soft Sandrock	4	142
Real Coarse med soft sandrock	20	162

4 WELL DEPTH: (completed) 162 ft. Date of Completion 9-10-69

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 162 ft. Depth; Threaded ☐ Welded ☒

Height: Above/Below surface 1 ft.

Weight 3.75 lbs/ft.

___ in. to ___ ft. Depth

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: Rock Well Dia.: ___

Slot/Gauze: ___ Length: ___

Set between ___ ft. and ___ ft.

Fittings: ___

9 STATIC WATER LEVEL 98 ft. below land surface

10 PUMPING LEVEL below land surface

40 ft. after 1 hrs. pumping 200 g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ___ Chlorides (Cl) ___

Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☐ 12" Above Grade

13 GROUTING: JELLED MUD

Well Grouted? ☒ Yes ☐ No

Material: ☒ Neat Cement ☐ ___

Depth: From 1 ft. to 14 ft.

14 SANITARY: SEPTIC NOT IN.

Nearest Source of possible contamination

___ feet ___ Direction ___ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

Manufacturer's Name PUMPE SETS.

Model Number ___ HP ___

Length of Drop Pipe ___ ft. capacity ___ G.P.M.

Type: ☐ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDITION ITEM NO.

CORRECTED

ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

HEMES WELL DRILLING 0345

REGISTERED BUSINESS NAME REGISTRATION NO.

Address 9278 Lincoln Manor Dr.

Signed George Heme Date Oct 3, 69

AUTHORIZED REPRESENTATIVE

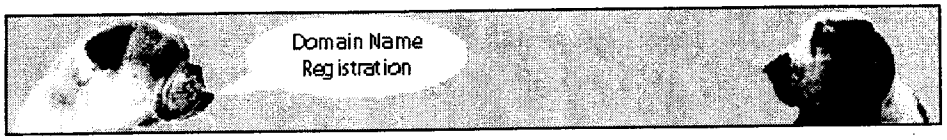
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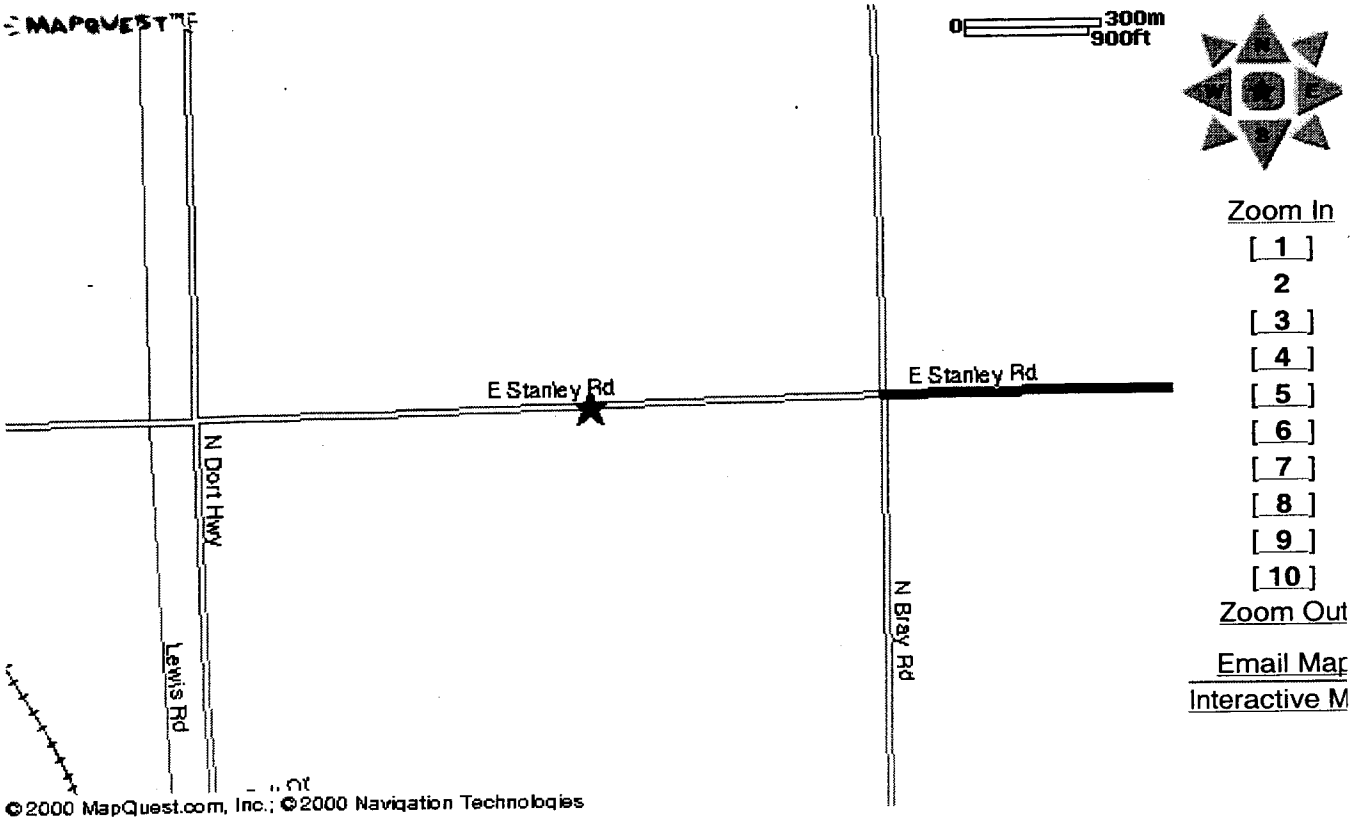
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO: 01828

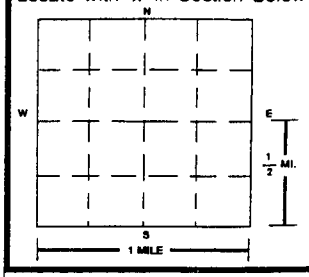
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
Genesee	Genesee	1/4 1/4 1/4	8	8N	7E

Distance and Direction from Road Intersection: East of Dort Hwy. & West of Bray Rd.

Street Address & City of Well Location: 2459 E. Stanley Rd.

Locate with 'x' in Section Below — Sketch Map



3. OWNER OF WELL
Address: Lumm Masonry
G-9118 N. Dort Hwy. # 2
Mt. Morris MI 48458
Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH: 220 ft. Date Completed 09/21/99
☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ ____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ ____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other ____
Diameter: 5 in. to 150 ft. depth; ____ in. to ____ ft. depth
Height: Above/~~Below~~ Surface: 1 ft
Weight: SDR21 lbs./ft.
BORE HOLE: Diameter: 7 7/8 in. to 150 ft. depth; 4½ in. to 220 ft. depth
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type ____ Diameter ____
Slot/Gauze ____ Length: ____
Set Between ____ ft. and ____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen ____ ft. Other ____

9. STATIC WATER LEVEL: 60 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
100 ft. After 1 hrs. Pumping at 30 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 150 ft.
☐ Neat Cement ☒ Bentonite ☐ Other ____
No. of Bags 4½ Additives ____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 65 ft. Direction W
Type ____ Distance ____ ft. Direction ____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name: Gould
Model Number 12SB04522 HP 1/2 Volts 230
Length of Drop Pipe 100 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other ____
PRESSURE TANK:
Manufacturer's Name: Well Rite
Model Number WR-60 Capacity ____ Gallons 40

2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown clay	15	15
Sand	17	32
Gray clay	108	140
Sandstone	15	155
Limestone	10	165
Sandstone	55	220

OCT 14 1999

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No
Casing Diameter ____ in. Depth ____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags ____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name Ed EAton

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Burns Well DRilling Co. (REGISTERED BUSINESS NAME) 25-1947 (REGISTRATION NO.)
Address 5370 Corunna Rd. Flint MI 48532
Signed ____ (AUTHORIZED REPRESENTATIVE) Date 09-21-99

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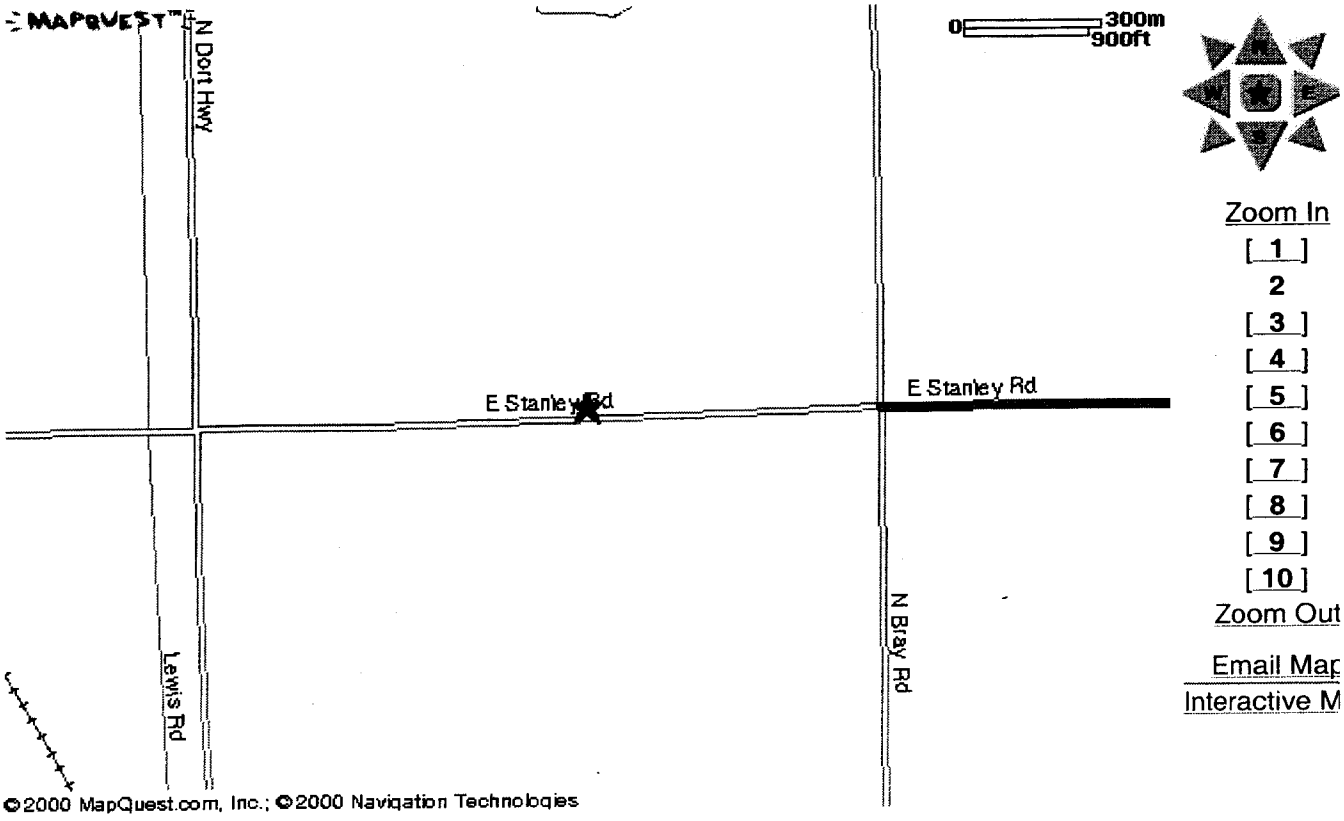
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TAX NO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER WELL AND PUMP RECORD

PERMIT NO:

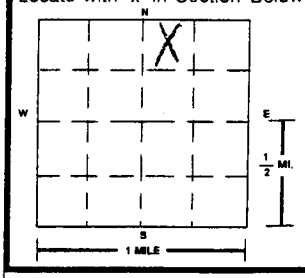
1. LOCATION OF WELL

County	Township Name	Fraction	Section No.	Town No.	Range No.
GENESEE	GENESEE	1/4 NW 1/4 NE 1/4	17	8 N	7 E

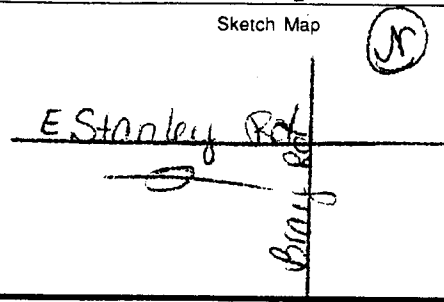
Distance and Direction from Road Intersection
West of Bray Rd on South.

Street Address & City of Well Location 2474 E Stanley Rd

Locate with 'x' in Section Below



Sketch Map



3. OWNER OF WELL Mary Wilson
Address 2474 E Stanley Rd
Mt Morris MI 213
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 205 ft. | Date Completed 11/7/96 | ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐ _____

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public ☐ _____

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other _____
Diameter: 5 in. to 149 ft. depth
_____ in. to _____ ft. depth
BORE HOLE:
Diameter: 9 in. to 149 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface: _____ ft
Weight: _____ lbs/ft.
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed
Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:
45 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface
205 ft. After _____ hrs. Pumping at 25 G.P.M.
☐ Plunger ☐ Bailer ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:
☒ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 149 to 0 ft.
☐ Neat Cement ☒ Bentonite ☐ Other _____
No. of Bags 8 Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type sewer Distance 10+ ft. Direction W
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only
Manufacturer's Name McDonald
Model Number K2 HP 1/2 Volts _____
Length of Drop Pipe 80 ft. Capacity _____ G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____
PRESSURE TANK:
Manufacturer's Name Well X-trol
Model Number 203 Capacity _____ Gallons _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay & stones	140	140
sandstone & limestone	65	205

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
NOV 27 1996
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.) Owner is taking responsibility for plugging old well.

DRILLING MACHINE OPERATOR:
☐ Employee ☐ Subcontractor
Name Brad Taylor

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
BRIAN TAYLOR WELL DRILLING (REGISTERED BUSINESS NAME) 2082 (REGISTRATION NO.)
Address 11103 Lewis Rd Clio
Signed Brad Taylor (AUTHORIZED REPRESENTATIVE) Date 11/14/96

GW-2-228 9/93

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Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

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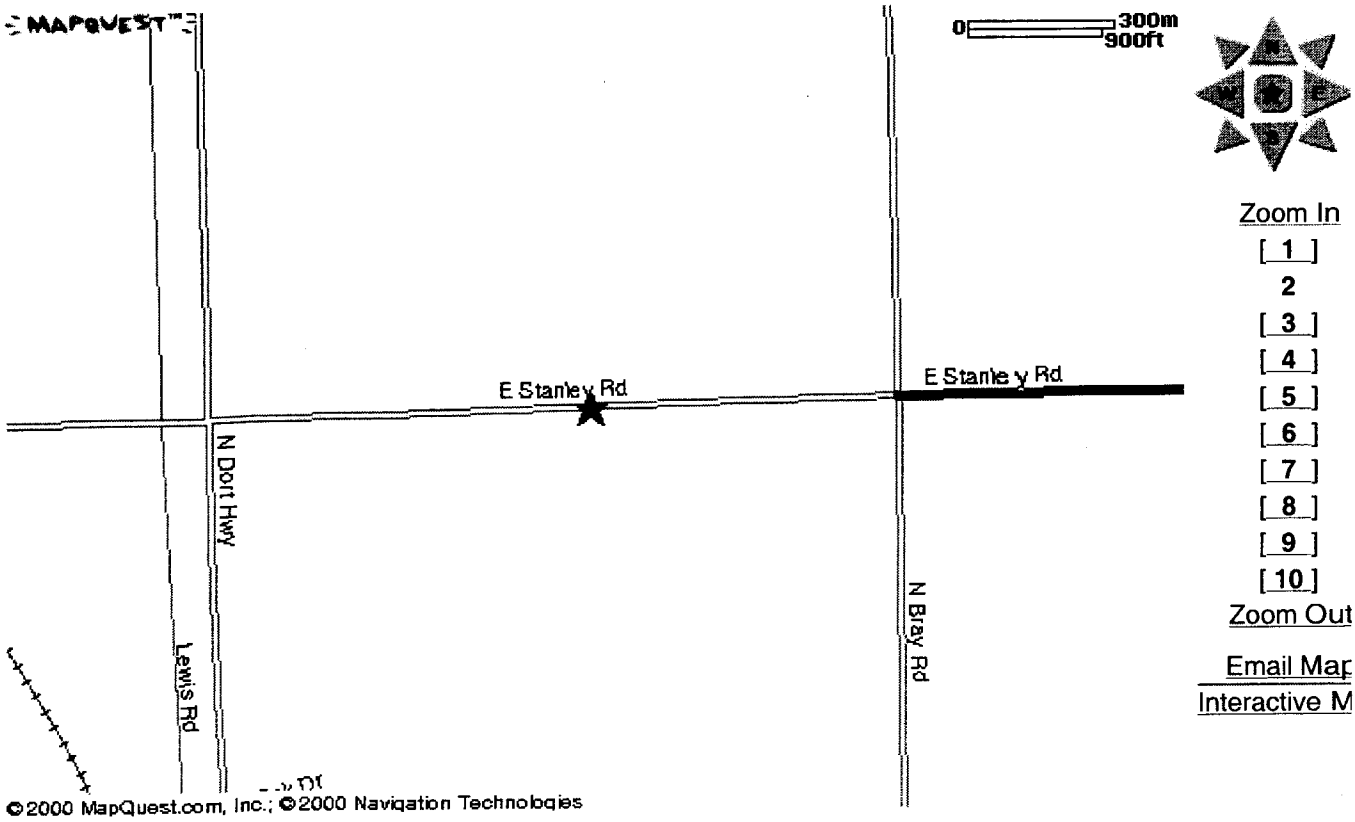
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GEOLOGICAL SURVEY SAMPLE No. [ ]

1972

WATER WELL RECORD
ACT 294 PA 1965

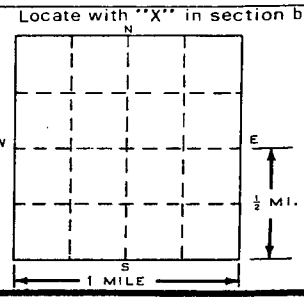
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
GENESEE	GENESEE	NE¼ SE¼ SE¼	8	8 N/S	7 E/W

Distance And Direction from Road Intersections
About 400 ft. W. of Bray Rd.
70 ft. N. of Stanley Rd. at 2477
Street address & City of Well Location

Locate with "X" in section below



Sketch Map:

3 OWNER OF WELL: EDWARD OSBORNE 21A
Address 2477 STANLEY RD MT. MORRIS

4 WELL DEPTH: (completed) 200 ft. Date of Completion 6-10-72

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ____

7 CASING: Threaded ☒ Welded ☐ Diam. 2 in. to 146 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below Surface Surface; Weight 3.75 lbs./ft.; Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
YELLOW CLAY	4	4
YELLOW SAND	18	22
BLUE CLAY (GRAVELEY)	10	32
BLUE CLAY	59	91
BLUE CLAY (GRAVELEY)	52	143
GRAY SANDSTONE W/STRIPS OF GREEN SHALE	19	162
HARD BROWN SHALE	13	175
BROWN SANDSTONE	15	190
HARD BROWN SHALE	3	193
GRAY SANDSTONE	7	200

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: ____ Dia.: ____ Slot/Gauze ____ Length ____ Set between ____ ft. and ____ ft. Fittings:

9 STATIC WATER LEVEL 29 ft. below land surface

10 PUMPING LEVEL below land surface 60 ft. after ___ hrs. pumping 10 g.p.m.
____ ft. after ___ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ____ Chlorides (Cl) ____ Hardness ____ Other ____

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ CLAY SLURRY
Depth: From TOP ft. to 146 ft.

14 Nearest Source of possible contamination 50 feet NNW Direction Septic Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: ☐ Not installed
Manufacturer's Name Gould
Model Number VT10 HP 1 Volts 220
Length of Drop Pipe 63 ft. capacity 10 G.P.M.
Type: ☐ Submersible ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
B.E. PERIOR WELL DRILLING 0202
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 4189 GREGOR ST. GENESEE
Signed Bud Perior AUTHORIZED REPRESENTATIVE Date 7-22-72

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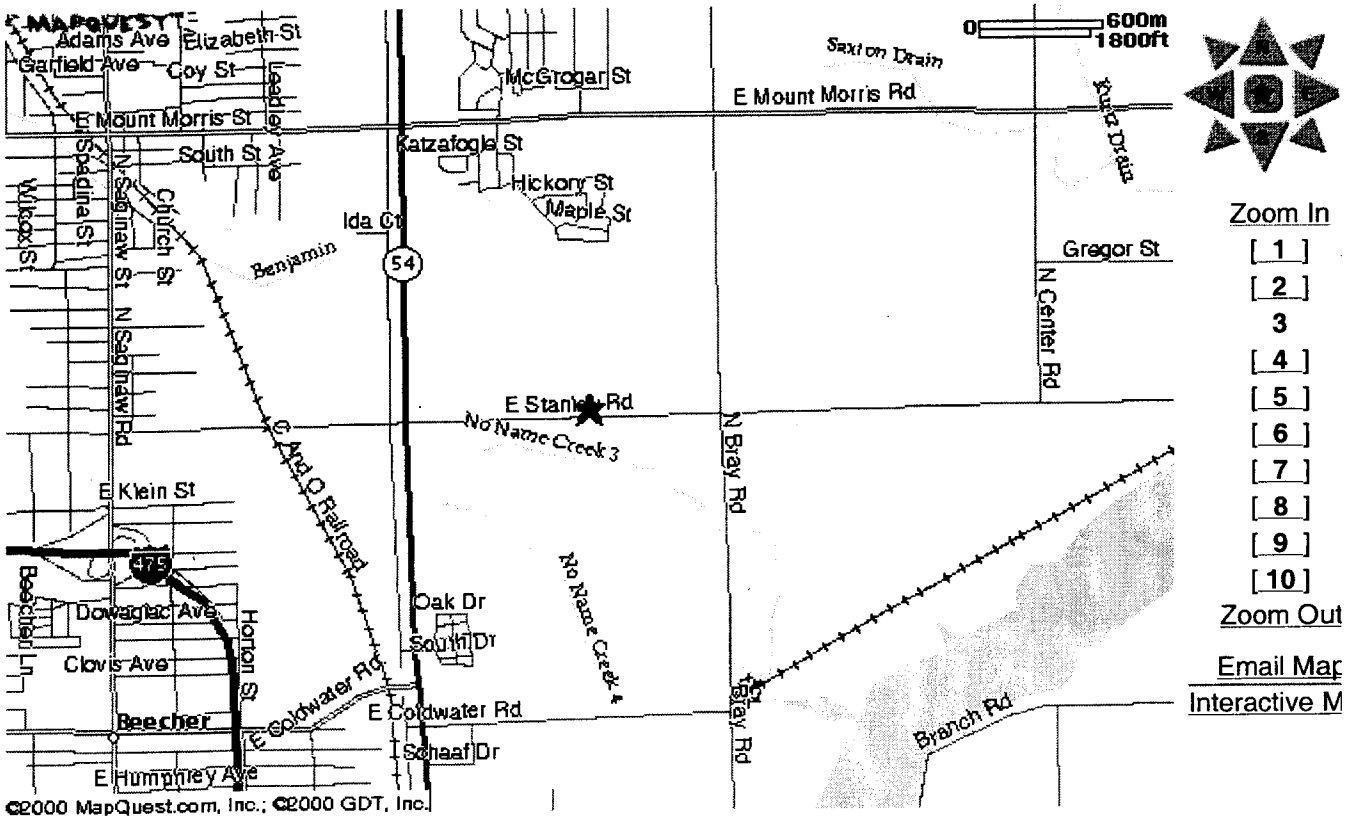
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AUG 1974

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

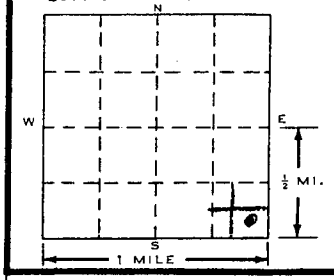
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Genesee	Genesee	SE ¼ SE ¼ SE ¼	8	8 N/S.	7 E/W.

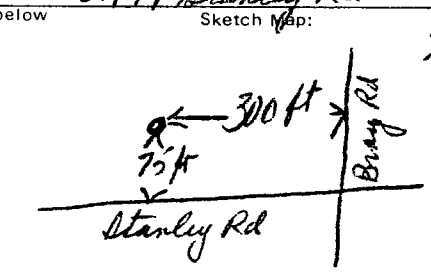
Distance And Direction from Road Intersections: 300 ft. W. of Bray, 75 ft (S.) of Stanley Rd

Street address & City of Well Location: 2499 Stanley Rd

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL
Owner: Clum Bldg & Realty Co
Address: 4021 Clio Rd, Flint, Mich

4 WELL DEPTH: (completed) Date of Completion
202 ft. 8-13-74

5
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐ ____

6 USE:
☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐ ____

7 CASING:
Threaded ☒ Welded ☐
Diam. 4 in. to 147 ft. Depth
____ in. to ____ ft. Depth
Height: Above/~~Below~~ Surface 1 ft.
Weight 11.00 lbs./ft.
Drive Shoe? Yes ☒ No ☐

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow	38	38
Grey sand	22	60
Clay with some gravel	80	140
Soft sand rock	18	158
Limestone	18	176
Soft mushy sandrock	10	186
Limestone & hard sand rock in layers (4 to 5 ft layers)	16	202

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
CORRECTION BY
ELEVATION
DEPTH TO ROCK

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: ____ Dia.: ____
Slot/Gauze ____ Length ____
Set between ____ ft. and ____ ft.
Fittings:

9 STATIC WATER LEVEL
40 ft. below land surface

10 PUMPING LEVEL below land surface
____ ft. after ____ hrs. pumping 25 g.p.m.
____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION:
☐ In Approved Pit
☐ Pitless Adapter ☐ 12" Above Grade

13
Well Grouted? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ ____
Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination
50 feet ____ Direction Sanitary Sewer Type
Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:
☒ Not installed
Manufacturer's Name ____
Model Number ____ HP ____ Volts ____
Length of Drop Pipe ____ ft. capacity ____ G.P.M.
Type: ☐ Submersible ☐ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.
Sanitary Sewer not yet hooked-up

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Tri-County Well Drillers — 1190
REGISTERED BUSINESS NAME — REGISTRATION NO.

Address 11095 W Dodge Rd, Montrose, Mich

Signed Walter Smith — Date 8-13-74
AUTHORIZED REPRESENTATIVE

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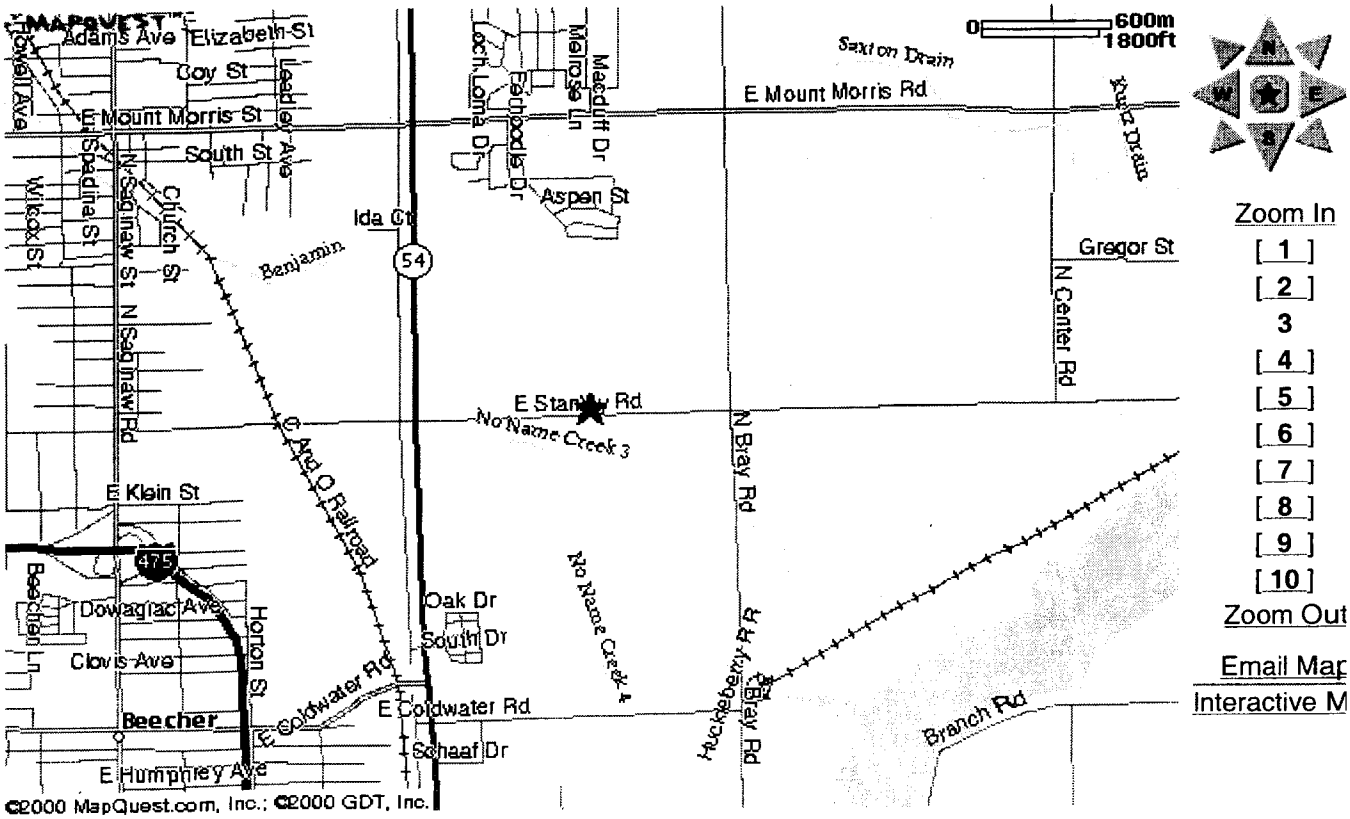
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(R) 8-8N-7E Exploratory
Genesee Twp. (Genesee Co.) TD 2751+ in Detroit River
Dry
Universal Oil Company 216

Bruner No. 1 Approx on Standard 3 corners of Farm

Location: Near SW Corner of SW¼ SE¼ Section 8, T.8N., R.7E.
250' from south and 130' from west line of SE quarter section.
One and one-half miles SE of Mt. Morris, on Bruner farm, 250' from north of road and 250' from south line, 130' from west line.

Elevation: 763 feet Hand level.

Record by: R. A. Smith from samples, C. P. Brant, contractor.

	Thickness (feet)	Depth (feet)
PLEISTOCENE:		
Drift:		
Clay, yellow, sandy	8	8
Sand, gray, fine	72	80
Clay, blue	32	112
Gravel, water bearing	8	120
Sand	22	142
	(142)	
PENNSYLVANIAN:		
Saginaw:		
Sandstone, gray, fine	65	207
Sandstone, white, coarse (Parma?)	13	220
	(78)	
MISSISSIPPIAN:		
Michigan:		
Shale, greenish gra y	20	240
Shale, dark gray	50	290
Sandstone, gray	4	294
Shale, dark gray	26	320
	(100)	
Marshall:		
Sandstone, gray	85	405
Sandstone, fine to medium grained, shaly	93	498
	(178)	
Coldwater:		
Shale, blue	27	525
Sandstone, gray, very fine grained	20	545
Shale, blue	85	630
Sandstone, gray, very fine grained, shaly	32	662
Shale, gray	18	680
Shale, red, sandy	10	690
Shale, light gray	105	795
Shale, dark red, sandy	30	825
Shale, gray, reddish in places	625	1450
Shale, gray	20	1470
Shale, reddish	10	1480
Shale, gray	23	1503
	(1005)	

COMPLETED

CASING None

RECORD