

Prepared For:
FISHER GUIDE DIVISION, GENERAL MOTORS CORPORATION

INSTALLATION OF MONITORING WELLS
AT THE FISHER GUIDE DIVISION
GENERAL MOTORS CORPORATION PLANT
TRENTON, NEW JERSEY

April 1986

LAWLER, MATUSKY & SKELLY ENGINEERS
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, New York 10965

Project No. 498-001

TABLE OF CONTENTS

	<u>Page No.</u>
INTRODUCTION	1
INSTALLATION OF MONITORING WELLS	2
APPENDICES:	
A - Permit to Drill Wells	
B - Monitoring Well Certification - Form A - As Built Certification	
C - Thomas Tyler Moore Associates Report Including Groundwater Monitoring Well Certification - Form B - Location Certification	
D - Summary of Monitoring Well Information	

LIST OF FIGURES

<u>Figure No.</u>	<u>Title</u>	<u>Page No.</u>
1	Monitoring Well Locations	1-A

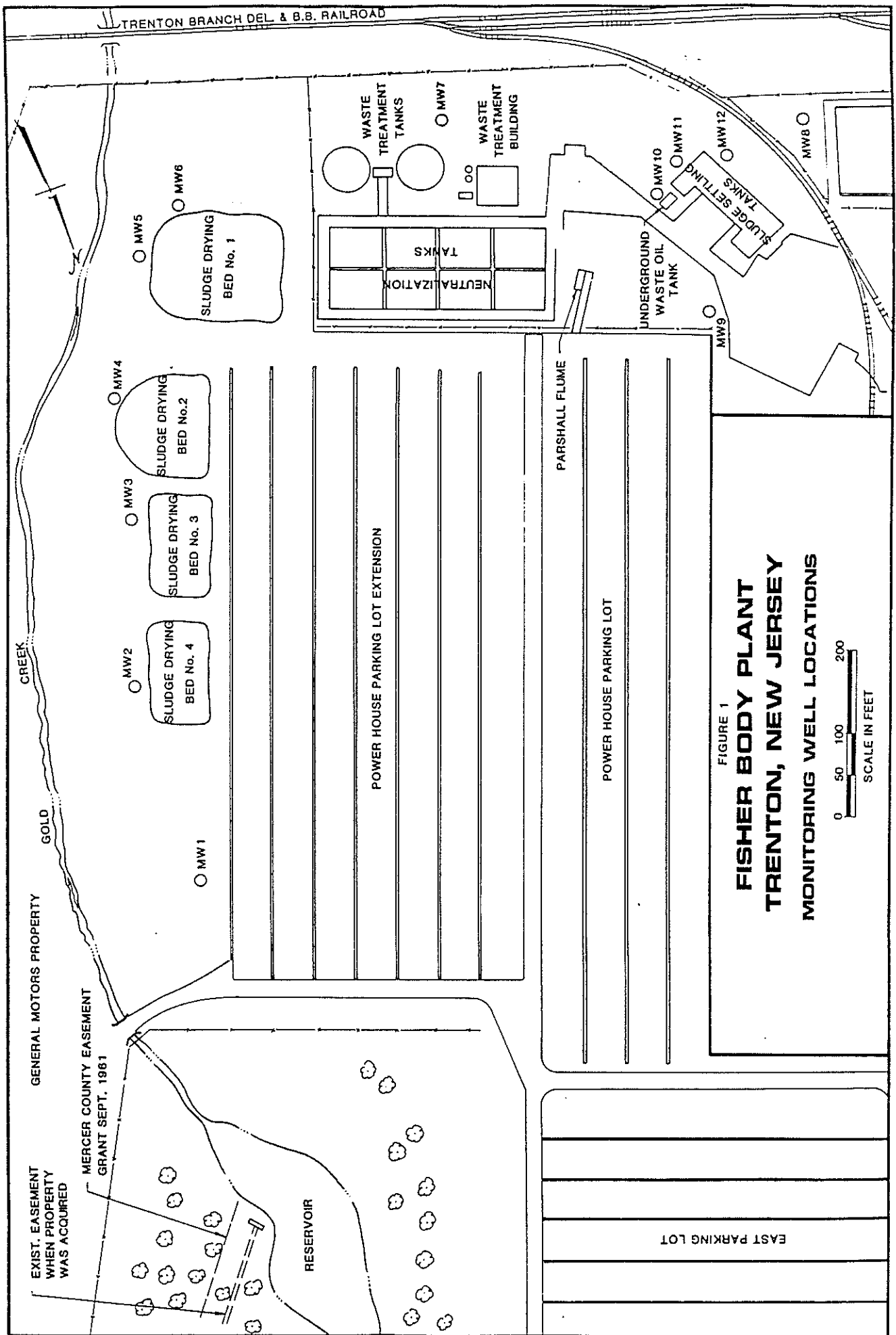
INSTALLATION OF MONITORING WELLS AT THE FISHER GUIDE DIVISION
GENERAL MOTORS CORPORATION PLANT, TRENTON, NEW JERSEY

INTRODUCTION

In February 1986, Lawler, Matusky & Skelly Engineers (LMS) was retained by Fisher Guide Division of General Motors Corporation to install 12 monitoring wells tapping the saturated unconsolidated deposits at the Trenton, New Jersey, plant. The wells are required under the corporation's New Jersey Pollution Discharge Elimination System (NJPDES) Permit No. NJ0053295, which was issued on 15 December 1985 and became effective on 1 February 1986.

The locations of the wells were specified in the permit and are shown on the map in Figure 1. The drilling and well construction work were done by Environmental Drilling, Inc. (Mount Arlington, New Jersey) under the field supervision of LMS. Upon completion of the wells, the firm of Thomas Tyler Moore Associates (West Trenton, New Jersey) surveyed their latitude, longitude, and measuring point elevations. Both firms are licensed by the State of New Jersey.

This report contains a description of the drilling and well construction work, which was continuously inspected by an LMS hydrogeologist. An approved copy of the New Jersey Department of Environmental Protection (NJDEP) permit to drill the wells is given in Appendix A. Appendix B contains copies of MONITORING WELL - CERTIFICATION - FORM A - AS-BUILT CERTIFICATION for each monitoring well, authenticated by Patrick J. Lawler, P.E. Appendix C contains copies of GROUNDWATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION, prepared and authenticated by Donald H. Kamp, P.L.S. Appendix D contains geologist's logs, schematic diagrams of each monitoring well's construction, and other pertinent data on the wells.



INSTALLATION OF MONITORING WELLS

On 5 March 1986, Environmental Drilling, Inc., mobilized drilling and decontamination equipment at the Fisher Guide Division plant. The drilling machine was a Brat 22 manufactured by Gus Pech Manufacturing Company. This is a rotary drilling machine with power auger capability. The decontamination equipment consisted of a high-pressure hot water generator.

A decontamination area was set up near the Waste Treatment Building (Figure 1) and the drilling machine and sampling equipment were thoroughly cleaned before the work began. During the drilling, the sampling equipment was cleaned before each use, and the drilling equipment before a new hole was started.

Each borehole was drilled to the competent bedrock (Brunswick Formation) surface using 12-in. OD auger flights with a 6-5/8 in. ID hollow stem. Split-spoon core samples were collected through the hollow stem. The 12 monitoring wells were drilled without water or any other drilling fluid being introduced.

Split-spoon samples were collected continuously while wells MW-1, MW-6, and MW-12 were drilled; samples were collected at 5-ft intervals at the other well locations. All split-spoon samples were logged by the hydrogeologist and placed in labeled glass jars. The samples will be stored at LMS' warehouse in Nyack for six months (until 1 October 1986), when they will be discarded.

Upon completion of each borehole, the depth to groundwater was measured to establish the screen length and depth for each well. The depth to water was measured several times until no change could be detected. In some boreholes, measurements were made over as long as an hour before selecting the screen length and depth. As specified

pr - submitted
by LMS in Fisher Corp

by NJDEP, the screened interval in each well was designed to extend from 5 ft above the measured water level down to the bottom of the borehole (competent bedrock surface). The screen lengths in the 12 monitoring wells ranged from 5 to 13.5 ft, depending on the depth to bedrock and the depth to groundwater at each location. It should be noted that the saturated thickness at some well sites was quite small. In well MW-1, for example, there was less than 1 ft of water in the borehole. It should be noted that on 10 April 1986, about a month after well construction the water levels in wells MW-2 and MW-3 had risen to depths at, or a few inches above the well screens. The reason for this rise in water level is not known. It may be a result of precipitation that occurred between well construction and 10 April. Measurements over a period of several months will define the elevation of the water table and its response to precipitation.

Flush-joint 4-in.-diameter PVC casing and 20-slot well screen were used to construct the wells. A clean sand pack (Morie No. 1) was emplaced in the annulus surrounding each well, extending 1 ft above the top of the screen. A 1-ft-thick seal of bentonite pellets was placed on top of the sand pack and, where needed, bentonite slurry was used to backfill each borehole to a depth of 3 ft below grade.

A 5-ft long, 6-in.-diameter steel protective casing with a locking cap was placed from 3 ft below grade to 2 ft above grade, with the 3 ft below grade grouted in place with cement grout. The cement at grade was sloped away from the casing to prevent surface water from seeping down along the well casing. The well number and NJDEP well permit number were stamped on each protective casing.

The saturated unconsolidated materials penetrated by the well screens consist almost entirely of clay and silty clay. The flow of groundwater through these low permeability materials into the

boreholes, and later during developing into the wells was extremely slow. In well MW-1, for example, the recovery rate was only 0.25 in. per hour and other wells were equally slow. During developing, each well was blown dry in a matter of seconds and recovery was slow. Considering the low permeability of the screened formation and the small amount of water that could be moved through the well screens, the inspecting hydrogeologist concluded that development would not significantly improve the yields of the wells or the turbidity on the water. Therefore, each well was developed for at least one hour in accordance with Item 6 of the NJDEP Specification for constructing unconsolidated monitoring wells.

APPENDIX A
PERMIT TO DRILL WELLS

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Mail to

Water Allocation
 CN 029
 Trenton, N.J. 08625

Permit No. 87-002-4**PERMIT TO DRILL WELL****VALID ONLY AFTER APPROVAL BY THE D.E.P.**Owner Environmental Protection, Inc.Driller Environmental Protection, Inc.Address 1000 N. 1st St.Address 1000 N. 1st St.Name of Facility Environmental Protection, Inc.Address 1000 N. 1st St.

Diameter of Well	4	Inches	Proposed Depth of Well	10	Feet
Proposed Capacity of Pump	1000	GPM	Method of Drilling (cable-tool, rotary, etc.)		
Use of Well (See Reverse)	Monitoring				

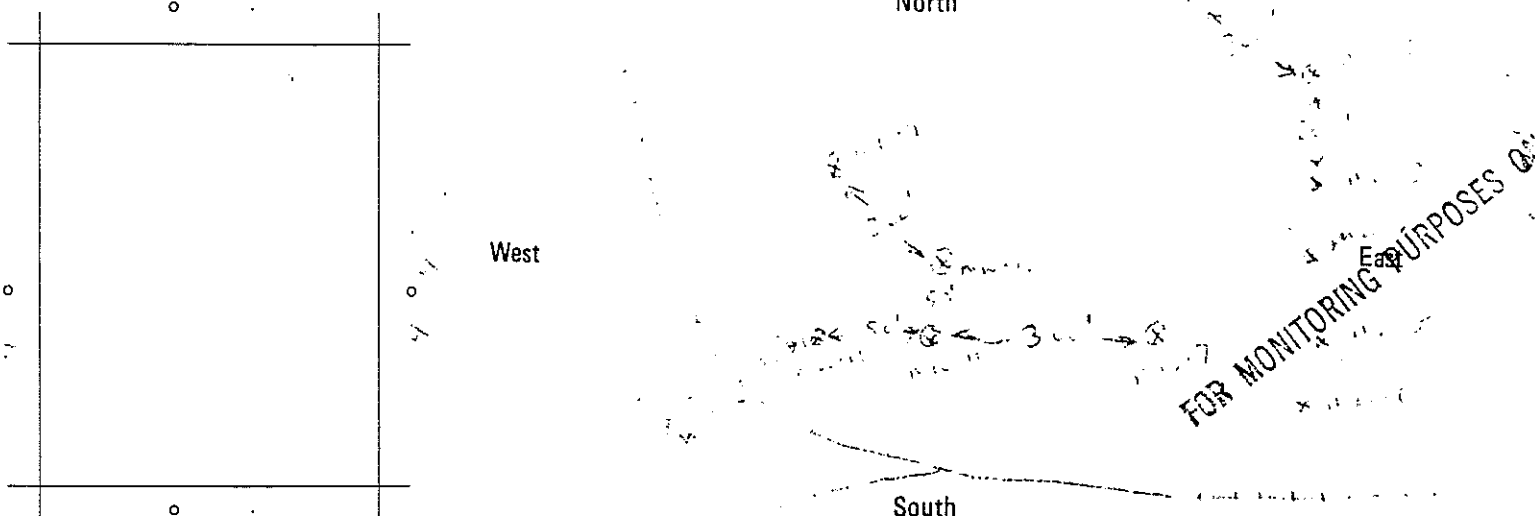
LOCATION OF WELL

12 monitoring wells

Lot #	Block #	Municipality	County

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.

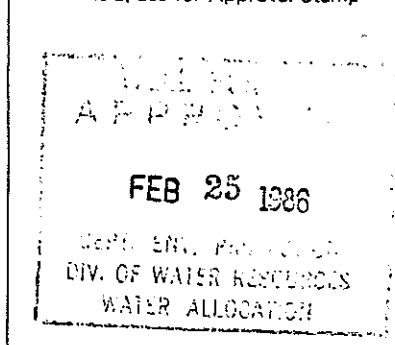
State Atlas Map No. _____



SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS:

- ☐ Permit issued in accordance with provisions of letter of transmittal dated _____.
- ☐ Authorization by rule under N.J.A.C. 7:14A-1 et seq.
- ☐ Samples of cuttings required every _____ feet.
- ☐ The results of a volatile organic scan must be obtained prior to using the water and submitted to _____.
- ☐ Domestic Potable Water Supply - The service line for water from the public community water supply system shall be turned off at the curb cock, and the meter shall be removed by the water purveyor.
- ☐ Domestic Irrigation Supply - No piping from the well for which the permit applies shall enter any building.
- ☐ Industrial/Commercial Supply - A physical connection permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et seq., and a vigorous cross connections control program shall be instituted and maintained within the premises.
- ☐ Heat Pump Wells - Wells must be 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ _____

This Space for Approval Stamp



In compliance with R.S. 58:4A-14, application is made for a permit to drill a well as described above.

Date _____

Signature of Owner LMS mg / EDC

COPIES:

Water Allocation - White

Health Dept. - Yellow

Owner - Blue

Driller - White

USE OF WELL:

Please Specify

Domestic
Deepening
Replacement
Irrigation
Observation
Monitoring
Exploration
Dewatering
Recovery

Heat Pump
Recharge
Test
Industrial
Commercial
Public Supply
Non-Community
Fire Protection
Decontamination

Application must be accompanied by a legal fee of ten dollars (\$10.00) for wells under 70 gallons per minute and twenty five dollars (\$25.00) for over 70 gallons per minute.

Make Checks Payable to: STATE OF NEW JERSEY – WELL PERMITS

In accepting this permit the Owner and Driller agree to abide by the following terms and conditions:

1. This permit conveys no rights, either expressed or implied, to divert water.
2. **If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Division of Water Resources.**
3. In the event this well is abandoned, the Owner will assume full responsibility for filling and sealing it in a manner satisfactory to the Division, in accordance with provisions of R.S. 58:4A-4.1.
4. This permit will be valid for one year from date of approval.
5. If this well is to be used for public non-community or non-public supply, it must be constructed in accordance with provisions of "Standards for the Construction of Public Non-Community and Non-Public Water Systems" and be approved by the local Board of Health.
6. A well record must be filed with the Water Allocation Office within 60 days after the well is completed.
7. Authorization by rule may be revoked at any time.

APPENDIX B

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
 (One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
 Name of Facility: Same as permittee
 Location: Trenton, Ewing Twp., Mercer County
 NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

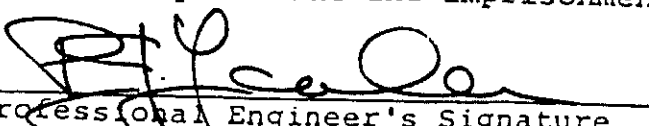
Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):
 This number must be permanently affixed to the well casing.

2 7 8 3 2 8 4

Owner's Well Number (As shown on the application or plans): MW-1
 Well Completion Date: 3/14/86
 Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.32'
 Total Depth of Well (one-tenth of a foot): 9.0'
 Depth to Top of Screen From Top of Casing (one-tenth of a foot): 6.3'
 Screen Length (feet): 5.0'
 Screen or Slot Size: 20 slot
 Screen Material: Sch. 40 PVC
 Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC
 Casing Diameter(Inches): 4"
 Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): 10.45' (4/10/86)
 Yield (Gallons per Minute): 0.01
 Length of time Well Pumped or Bailed: 1 Hours 0 Minutes
 Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


 Professional Engineer's Signature
 Patrick J. Lawler

Professional Engineer's Name
 (Please type or print)

SEAL

GE 29760
 Professional Engineer's License #

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
 (One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
 Name of Facility: Same as permittee
 Location: Trenton, Ewing Twp., Mercer County
 NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-964-6831):
 This number must be permanently affixed to the well casing. 2 7 - 8 3 2 9 - 0

Owner's Well Number (As shown on the application or plans): MW-2

Well Completion Date: 3/17/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 1.73'

Total Depth of Well (one-tenth of a foot): 12.0'

Depth to Top of Screen From Top of Casing (one-tenth of a foot): 7.7'

Screen Length (feet): 6.0'

Screen or Slot Size: 20 slot

Screen Material: Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC

Casing Diameter(Inches): 4"

Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot): 7.45' (4/10/86)

Yield (Gallons per Minute): 0.25

Length of time Well Pumped or Bailed: 1 Hours 0 Minutes

Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


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SEAL

FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
 (One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
 Name of Facility: Same as permittee
 Location: Trenton, Ewing Twp., Mercer County
 NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):
 This number must be permanently affixed to the well casing.

2 7 8 3 3 0 70

Owner's Well Number (As shown on the application or plans): MW-3
 Well Completion Date: 3/14/86
 Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.30'
 Total Depth of Well (one-tenth of a foot): 11.0'
 Depth to Top of Screen From Top of Casing (one-tenth of a foot): 6.3'
 Screen Length (feet): 7.0'
 Screen or Slot Size: 20 slot
 Screen Material: Sch. 40 PVC
 Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC
 Casing Diameter(Inches): 4'
 Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): 6.31' (4/10/86)
 Yield (Gallons per Minute): 0.25
 Length of time Well Pumped or Bailed: 1 Hours 0 Minutes
 Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


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FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6631):

This number must be permanently affixed to the well casing.

2 7 8 3 3 1 0

Owner's Well Number (As shown on the application or plans): MW-4

Well Completion Date: 3/12/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 1.90'

Total Depth of Well (one-tenth of a foot): 12.0'

Depth to Top of Screen From Top of Casing (one-tenth of a foot): 6.9'

Screen Length (feet): 7.0'

Screen or Slot Size: 20 slot

Screen Material: Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC

Casing Diameter(Inches): 4"

Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): 9.00' (4/10/86)

Yield (Gallons per Minute): 0.25

Length of time Well Pumped or Bailed: 1 Hours - Minutes

Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

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FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
 (One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
 Name of Facility: Same as permittee
 Location: Trenton, Ewing Twp., Mercer County
 NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-964-6831):
 This number must be permanently affixed to the well casing.

2 7 - 8 3 3 2 - 0

Owner's Well Number (As shown on the application or plans): MW-5
 Well Completion Date: 3/12/86
 Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 1.90'
 Total Depth of Well (one-tenth of a foot): 12.0'
 Depth to Top of Screen From Top of Casing (one-tenth of a foot): 6.9'
 Screen Length (feet): 7.0'
 Screen or Slot Size: 20 slot
 Screen Material: Sch. 40 PVC
 Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC
 Casing Diameter(Inches): 4"
 Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): 9.52' (4/10/86)
 Yield (Gallons per Minute): 0.50
 Length of time Well Pumped or Bailed: 1 Hours 0 Minutes
 Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

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FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-964-6831):

This number must be permanently affixed to the well casing.

2 7 -8 3 3 3 -0

Owner's Well Number (As shown on the application or plans):

MW-6

Well Completion Date:

3/10/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):

2.38'

Total Depth of Well (one-tenth of a foot):

12.0'

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

7.4'

Screen Length (feet):

7.0'

Screen or Slot Size:

20 slot

Screen Material:

Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify):

Sch. 40 PVC

Casing Diameter(Inches):

4"

Static Water Level From Top of Casing at The

Time of Certification(one-hundredth of a foot):

9.26 (4/10/86)

Yield (Gallons per Minute):

1.00

Length of time Well Pumped or Bailed:

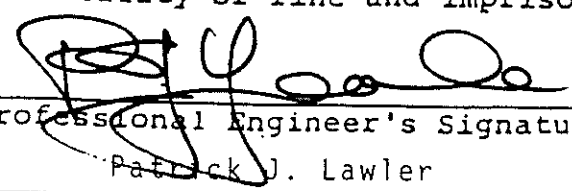
1 Hours 0 Minutes

Lithologic Log:

ATTACH ON BACK

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Professional Engineer's Signature

Patrick J. Lawler

Professional Engineer's Name
(Please type or print)

SEAL

GE 29760

Professional Engineer's License #

FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-964-6831):

This number must be permanently affixed to the well casing.

2 7 8 3 3 4 0

Owner's Well Number (As shown on the application or plans): MW-7

Well Completion Date:

3/7/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):

2.39'

Total Depth of Well (one-tenth of a foot):

15.5'

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

7.9'

Screen Length (feet):

10.0'

Screen or Slot Size:

20 slot

Screen Material:

Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify):

Sch. 40 PVC

Casing Diameter(Inches):

Static Water Level From Top of Casing at The

Time of Certification(one-hundredth of a foot):

11.28 (4/9/86)

Yield (Gallons per Minute):

0.50

Length of time Well Pumped or Bailed:

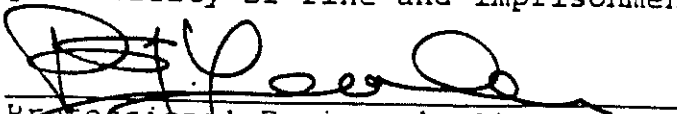
1 Hours 0 Minutes

Lithologic Log:

ATTACH ON BACK

AUTHENTICATION:

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Patrick J. Lawler

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FIGURE 4a

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GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

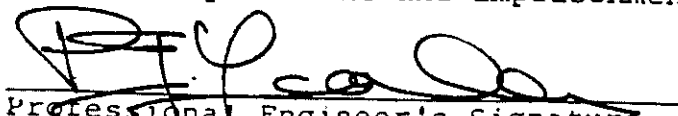
Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-954-6831):
This number must be permanently affixed to the well casing.

2 7 8 3 3 5 7 0

Owner's Well Number (As shown on the application or plans):	<u>MW-8</u>
Well Completion Date:	<u>3/10/86</u>
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	<u>1.80'</u>
Total Depth of Well (one-tenth of a foot):	<u>15.5'</u>
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	<u>7.3'</u>
Screen Length (feet):	<u>10.0'</u>
Screen or Slot Size:	<u>20 slot</u>
Screen Material:	<u>Sch. 40 PVC</u>
Casing Material: (PVC, Steel or Other-Specify):	<u>Sch. 40 PVC</u>
Casing Diameter(Inches):	<u>4"</u>
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot):	<u>12.56' (4/10/86)</u>
Yield (Gallons per Minute):	<u>0.25</u>
Length of time Well Pumped or Bailed:	<u>1 Hours 0 Minutes</u>
Lithologic Log:	<u>ATTACH ON BACK</u>

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


Professional Engineer's Signature
Patrick J. Lawler

Professional Engineer's Name
(Please type or print)

SEAL

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Professional Engineer's License #

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-964-6631):

This number must be permanently affixed to the well casing.

2 7 8 3 3 6 0

Owner's Well Number (As shown on the application or plans): MW-9

Well Completion Date: 3/10/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.32'

Total Depth of Well (one-tenth of a foot): 15.0'

Depth to Top of Screen From Top of Casing (one-tenth of a foot): 10.3

Screen Length (feet): 7.0'

Screen or Slot Size: 20 slot

Screen Material: Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC

Casing Diameter (Inches): 4"

Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot): 15.55 (4/9/86)

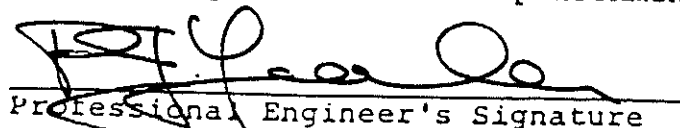
Yield (Gallons per Minute): 0.05

Length of time Well Pumped or Bailed: 1 Hours 0 Minutes

Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


Professional Engineer's Signature

Patrick J. Lawler

Professional Engineer's Name
(Please type or print)

SEAL

GE 29760
Professional Engineer's License #

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):
This number must be permanently affixed to the well casing.

2 7 8 3 3 8 0

Owner's Well Number (As shown on the application or plans):	<u>MW-11</u>
Well Completion Date:	<u>3/6/86</u>
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	<u>2.05</u>
Total Depth of Well (one-tenth of a foot):	<u>17.5'</u>
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	<u>8.0'</u>
Screen Length (feet):	<u>11.5'</u>
Screen or Slot Size:	<u>20 slot</u>
Screen Material:	<u>Sch. 40 PVC</u>
Casing Material: (PVC, Steel or Other-Specify):	<u>Sch. 40 PVC</u>
Casing Diameter(Inches):	<u></u>
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot):	<u>12.78' (4/9/86)</u>
Yield (Gallons per Minute):	<u>0.50</u>
Length of time Well Pumped or Bailed:	<u>1</u> Hours <u>0</u> Minutes
Lithologic Log:	<u>ATTACH ON BACK</u>

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


Professional Engineer's Signature
Patrick J. Lawler

Professional Engineer's Name
(Please type or print)

SEAL

GE 29760

Professional Engineer's License #

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
 (One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
 Name of Facility: Same as permittee
 Location: Trenton, Ewing Twp., Mercer County
 NJPDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):

This number must be permanently affixed to the well casing.

2 7 8 3 3 9 0

Owner's Well Number (As shown on the application or plans):

MW-12

Well Completion Date:

3/5/86

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):

2.30'

Total Depth of Well (one-tenth of a foot):

17.5'

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

6.3'

Screen Length (feet):

13.5'

Screen or Slot Size:

20 slot

Screen Material:

Sch. 40 PVC

Casing Material: (PVC, Steel or Other-Specify):

Sch. 40 PVC

Casing Diameter(Inches):

4"

Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):

12.56 (4/9/86)

Yield (Gallons per Minute):

0.25

Length of time Well Pumped or Bailed:

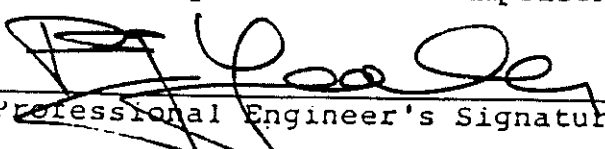
1 Hours 0 Minutes

Lithologic Log:

ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


 Professional Engineer's Signature

Patrick J. Lawler

Professional Engineer's Name
 (Please type or print)

GE 29760

Professional Engineer's License #

SEAL

APPENDIX C
THOMAS TYLER MOORE ASSOCIATES REPORT
INCLUDING
GROUNDWATER MONITORING WELL CERTIFICATION
FORM B - LOCATION CERTIFICATION



Thomas Tyler Moore Associates, Inc.

67 SCOTCH RD., W. TRENTON, N.J. 08628
(609) 883-2313

THOMAS TYLER MOORE, Pres., P.E., P.L.S., P.P.
JOSEPH M. MAHAN, JR., Vice Pres., P.E.
DOROTHEA L. LANTZ, Secy., Treas., N.P.
PATRICIA C. DERR
DONALD H. KAMP, P.L.S.
MALCOLM D. LOWENHAUPT, P.L.S.
DAVID G. McALEESE, P.P.
CARL A. RETTENBERGER, P.E., P.L.S.

SUMMARY OF COORDINATES FOR MONITORING WELLS AT FISHER BODY PLANT TRENTON, NEW JERSEY

Monitoring Well	North Coordinate	East Coordinate	Latitude	Longitude
1	520,797.17	1,961,192.60	40° 15' 47.02"	74° 48' 20.59"
2	520,544.32	1,961,229.28	40° 15' 44.52"	74° 48' 20.11"
3	520,382.88	1,961,151.71	40° 15' 42.92"	74° 48' 21.11"
4	520,192.79	1,961,115.29	40° 15' 41.05"	74° 48' 21.57"
5	520,074.58	1,961,039.78	40° 15' 39.88"	74° 48' 22.54"
6	520,006.63	1,960,971.64	40° 15' 39.20"	74° 48' 23.42"
7	520,052.02	1,960,622.52	40° 15' 39.65"	74° 48' 27.93"
8	520,273.59	1,960,070.33	40° 15' 41.83"	74° 48' 35.05"
9	520,356.46	1,960,420.45	40° 15' 42.65"	74° 48' 30.54"
10	520,203.50	1,960,408.02	40° 15' 41.14"	74° 48' 30.70"
11	520,195.33	1,960,371.72	40° 15' 41.06"	74° 48' 31.16"
12	520,217.63	1,960,325.37	40° 15' 41.28"	74° 48' 31.76"

coordinates shown are in the New Jersey State Plane Coordinate System.



Thomas Tyler Moore Associates, Inc.

67 SCOTCH RD., W. TRENTON, N.J. 08628
(609) 883-2313

THOMAS TYLER MOORE, Pres., P.E., P.L.S., P.P.
JOSEPH M. MAHAN, JR., Vice Pres., P.E.
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MALCOLM D. LOWENHAUPT, P.L.S.
DAVID G. McALEESE, P.P.
CARL A. RETTENBERGER, P.E., P.L.S.

SUMMARY OF ELEVATIONS FOR MONITORING WELLS AT FISHER BODY PLANT TRENTON, NEW JERSEY

Monitoring Well	Ground	Rim of Casing	Rim of Peizometer Tube
1	119.88	122.20	121.97
2	115.60	117.33	117.13
3	113.87	116.17	115.99
4	112.29	114.19	113.89
5	111.45	113.35	112.93
6	110.92	113.30	112.99
7	118.32	120.71	120.55
8	131.27	133.07	132.71
9	127.51	129.83	129.53
10	123.53	125.63	125.31
11	124.38	126.43	126.25
12	124.83	127.13	126.65

Elevations are in National Geodetic Vertical Datum.

All elevations for Casing and Peizometer Tube were taken over the cap lock.

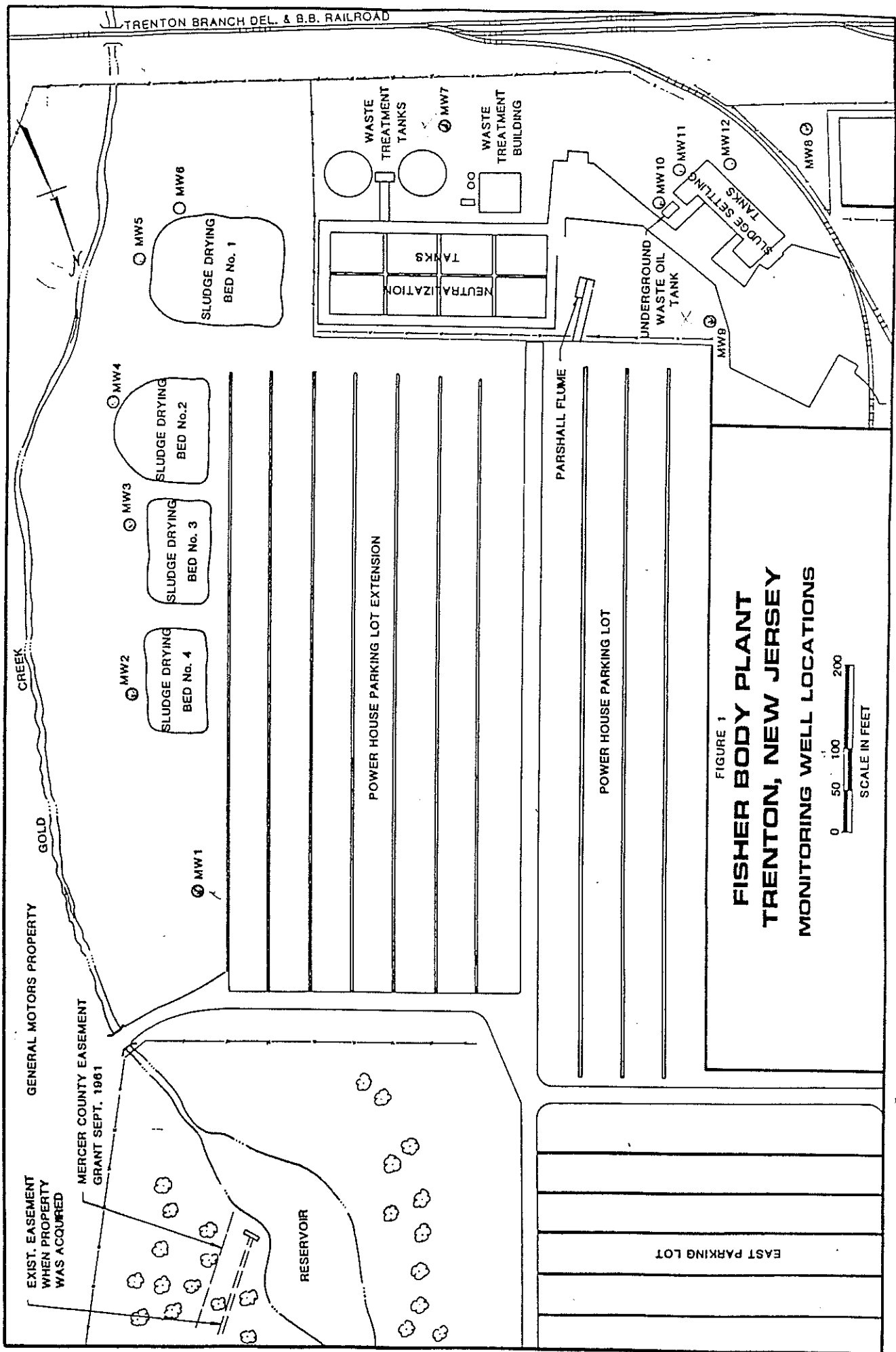
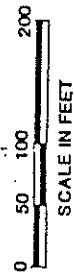


FIGURE 1
**FISHER BODY PLANT
TRENTON, NEW JERSEY
MONITORING WELL LOCATIONS**



GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 - 8 3 2 8 - 4

Longitude (one-hundredth of a second):

West 74° 48' 20.59"

Latitude (one-hundredth of a second):

North 40° 15' 47.02"

Elevation of Top of Casing (cap off)

122.20

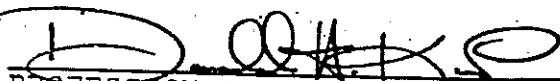
(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

MW-1

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 -8 3 2 9 -0

Longitude (one-hundredth of a second):

West 74° 48' 20.11"

Latitude (one-hundredth of a second):

North 40° 15' 44.52"

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

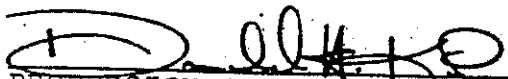
117.33

Owners Well Number (As shown on the application or plans):

MW-2

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

2 7 -8 3 3 0 - 0

This number must be permanently affixed to the well casing.

Longitude (one-hundredth of a second):

West ⁰ 74 48' 21.11"

Latitude (one-hundredth of a second):

North 40° 15' 42.92"

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

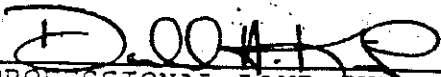
116.17

Owners Well Number (As shown on the application or plans):

MW-3

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7-8 3 3 1 - 0

Longitude (one-hundredth of a second):

West 74° 48' 21.57"

Latitude (one-hundredth of a second):

North 40° 15' 41.05"

Elevation of Top of Casing (cap off)

114.19

(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

MW-4

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

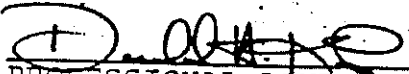
2 7 - 8 3 3 2 - 0

Longitude (one-hundredth of a second):
Latitude (one-hundredth of a second):
Elevation of Top of Casing (cap off) (one-hundredth of a foot):
Owners Well Number (As shown on the application or plans):

West 74°48' 22.54"
North 40°15' 39.88"
113.35
MW-5

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953
PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 - 8 3 3 3 - 0

Longitude (one-hundredth of a second):

Latitude (one-hundredth of a second):

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

West 74° 48' 23.42"
North 40° 15' 39.20"

113.30

MW-6

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Tranton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 - 8 3 3 4 - 0

Longitude (one-hundredth of a second):

West 74° 48' 27.92"

Latitude (one-hundredth of a second):

North 40° 15' 39.65"

Elevation of Top of Casing (cap off)

120.71

(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

MW-7

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

2 7 - 8 3 3 5 - 0

Longitude (one-hundredth of a second):
Latitude (one-hundredth of a second):
Elevation of Top of Casing (cap off) (one-hundredth of a foot):

West 74° 48' 35.05"

North 40° 15' 41.83"

Owners Well Number (As shown on the application or plans):

133.07

MW-8

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.

Name of Facility: Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 8 3 3 6 - 0

Longitude (one-hundredth of a second):

Latitude (one-hundredth of a second):

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

West 74° 48' 30.54"

North 40° 15' 42.65"

129.83

MW-9

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Fisher Body Division, General Motors Corp.
Name of Facility: Same as Permittee

Name of Facility: Fisher Body Divis
Same as permittee

Location: Trenton, Ewing Twp., Mercer County

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-964-6831):

This number must be permanently affixed to the well casing.

$$\underline{27} - \underline{8337} = 0$$

Longitude (one-hundredth of a second):

West 74° 48' 30.70"

Latitude (one-hundredth of a second):

North $40^{\circ} 15' 41.14''$

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

125.63

Owners Well Number (As shown on the application or plans):

MW-10

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

SEAL

N.J.P.L.S. #26953

PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION:

Name of Permittee: Fisher Body Division, General Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJPDDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

2 7 - 8 3 3 8 -0

Longitude (one-hundredth of a second): West 74° 48' 31.16"
Latitude (one-hundredth of a second): North 40° 15' 41.06"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 126.43
Owners Well Number (As shown on the application or plans): MW-11

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

N.J.P.L.S. #26953
PROFESSIONAL LAND SURVEYOR'S LICENSE #

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION:

Name of Permittee: Fisher Body Division. General Motors Corp.
Name of Facility: Same as Permittee
Location: Trenton, Ewing Twp., Mercer County
NJDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

2 7-8 3 3 9 -0

This number must be permanently affixed to the well casing.

Longitude (one-hundredth of a second):

West 74° 48' 31.76"

Latitude (one-hundredth of a second):

North 40° 15' 41.28"

Elevation of Top of Casing (cap off)

127.13

(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

MW-12

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Donald H. Kamp

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

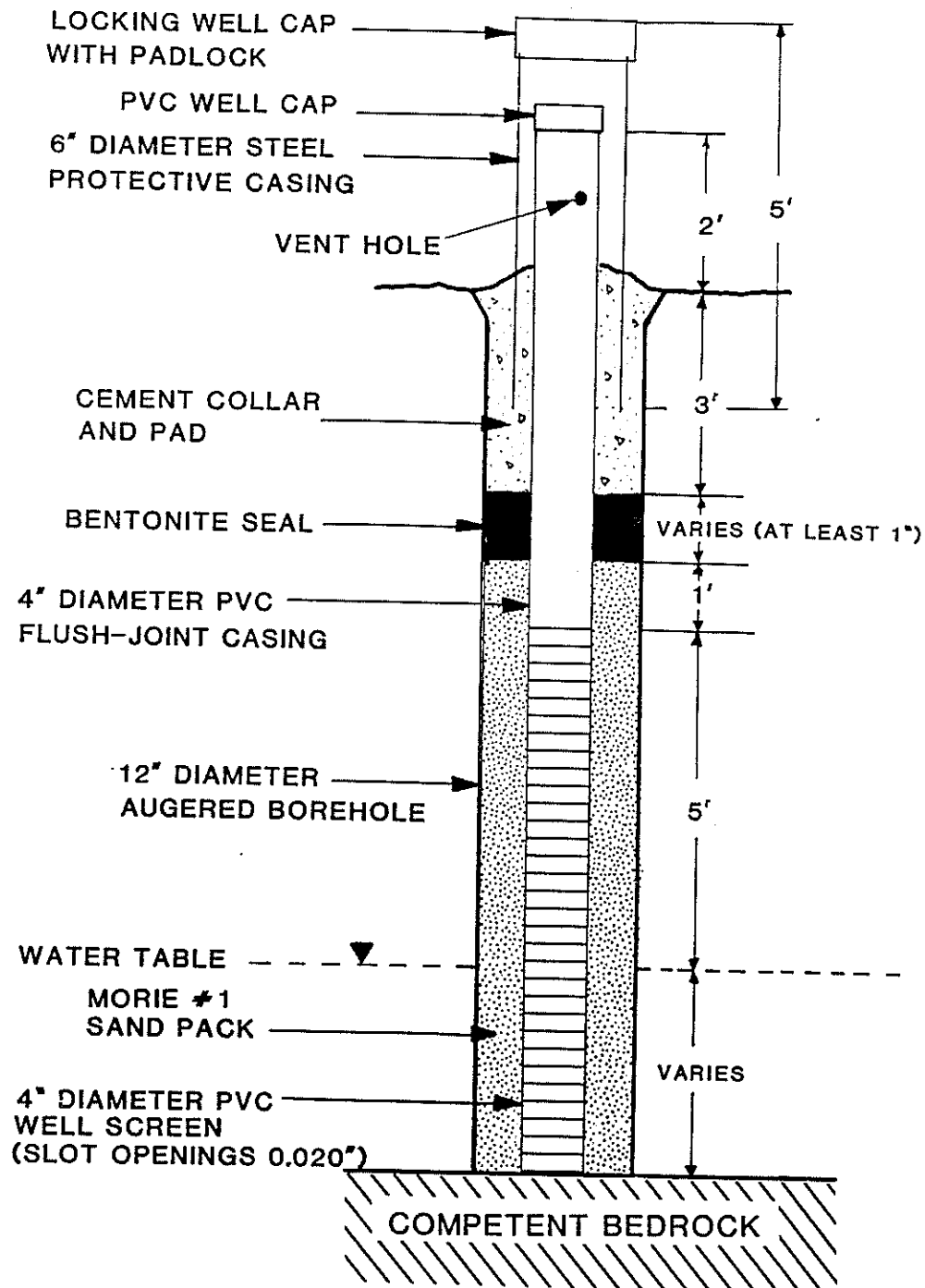
SEAL

N.J.P.L.S. #26953

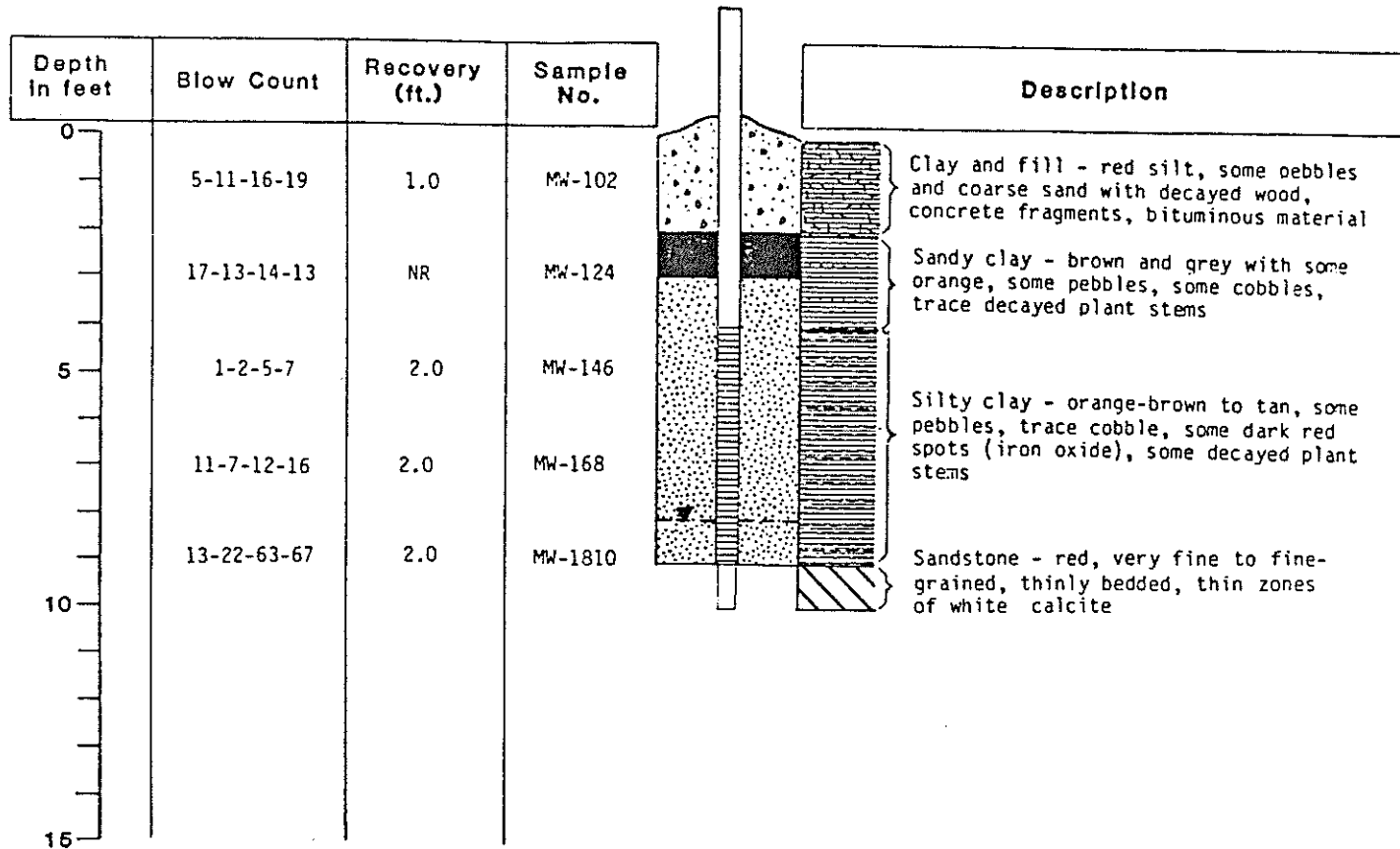
PROFESSIONAL LAND SURVEYOR'S LICENSE #

APPENDIX D
SUMMARY OF MONITORING WELL INFORMATION

TYPICAL MONITORING WELL CONSTRUCTION



BORING No. MW-1

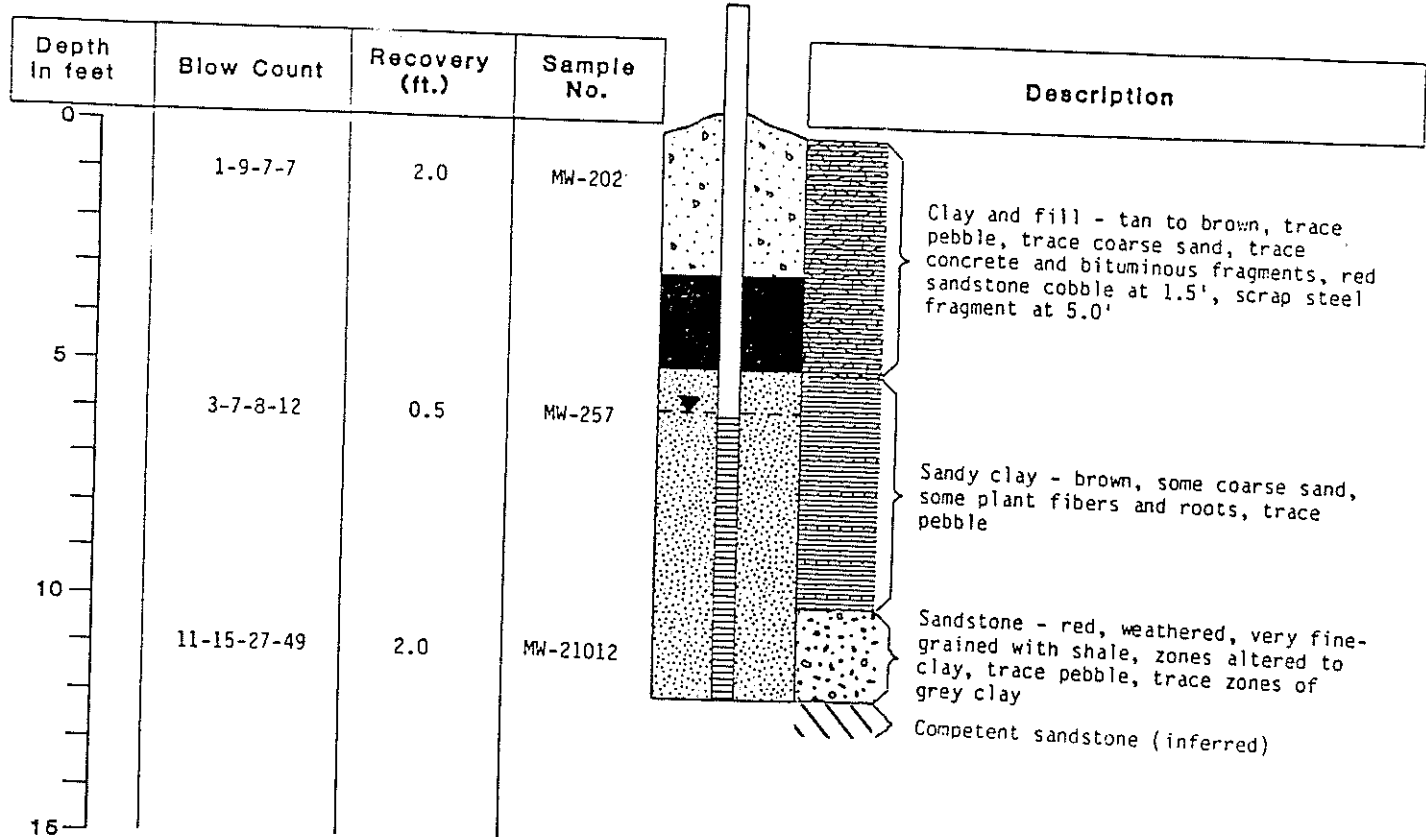


Drilling Began: 3/14/86
 Drilling Completed: 3/14/86
 Well Construction Completed: 3/14/86
 Development Completed: 3/18/86
 Total Depth: 10.0'
 Depth to Refusal: 9.0'
 Screened Interval: 4'-9'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 119.88
 Elevation, Top of Casing: 122.20
 Latitude: 40° 15' 47.02"
 Longitude: 74° 48' 20.59"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

O.T.W. = 10.45' (4/10/86)

BORING No. MW-2

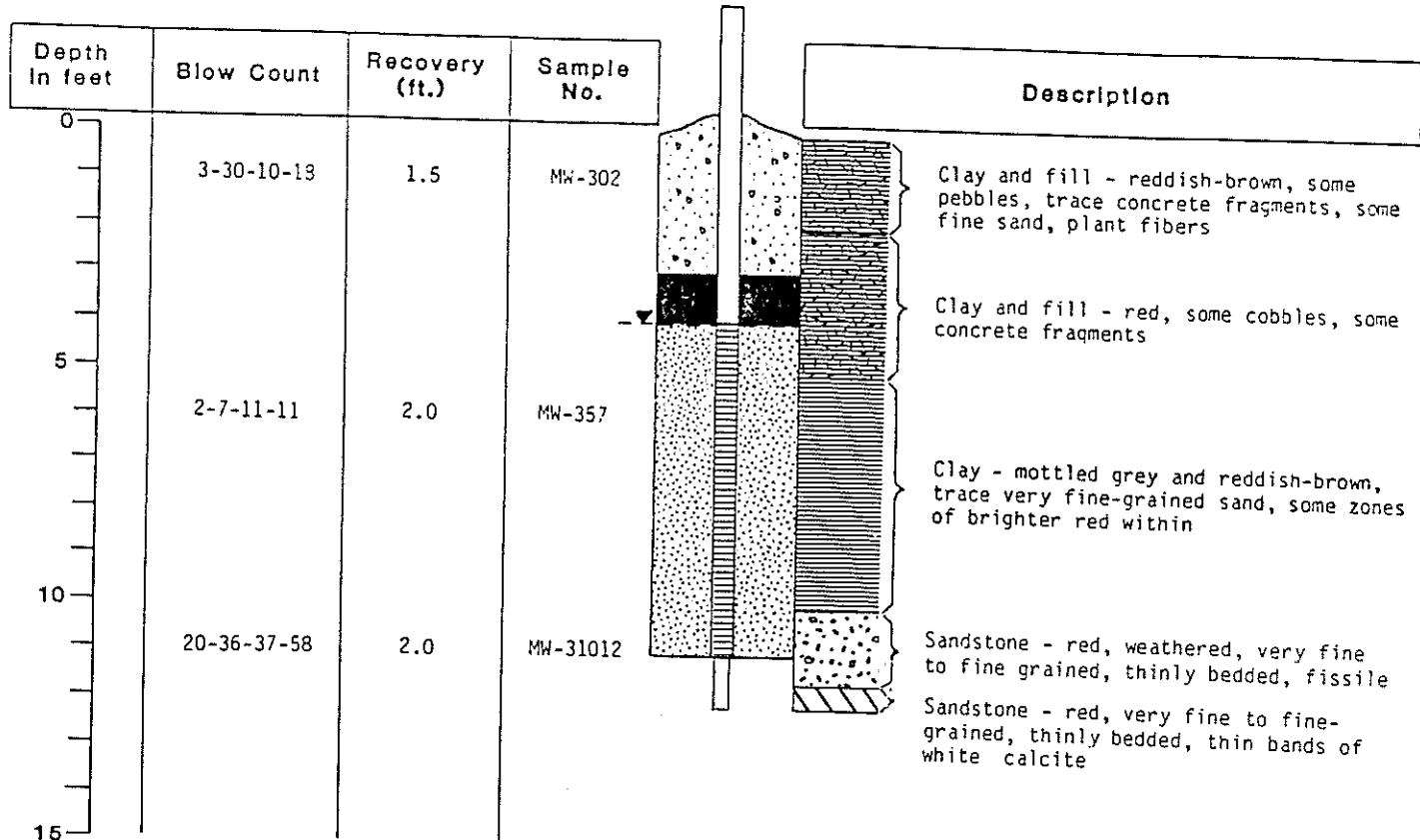


Drilling Began: 3/17/86
 Drilling Completed: 3/17/86
 Well Construction Completed: 3/17/86
 Development Completed: 3/18/86
 Total Depth: 12.0'
 Depth to Refusal: 12.0'
 Screened Interval: 6'-12'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 115.60
 Elevation, Top of Casing: 117.33
 Latitude: 40° 15' 44.52"
 Longitude: 74° 48' 20.11"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

D.T.W. = 7.45' (4/10/86)

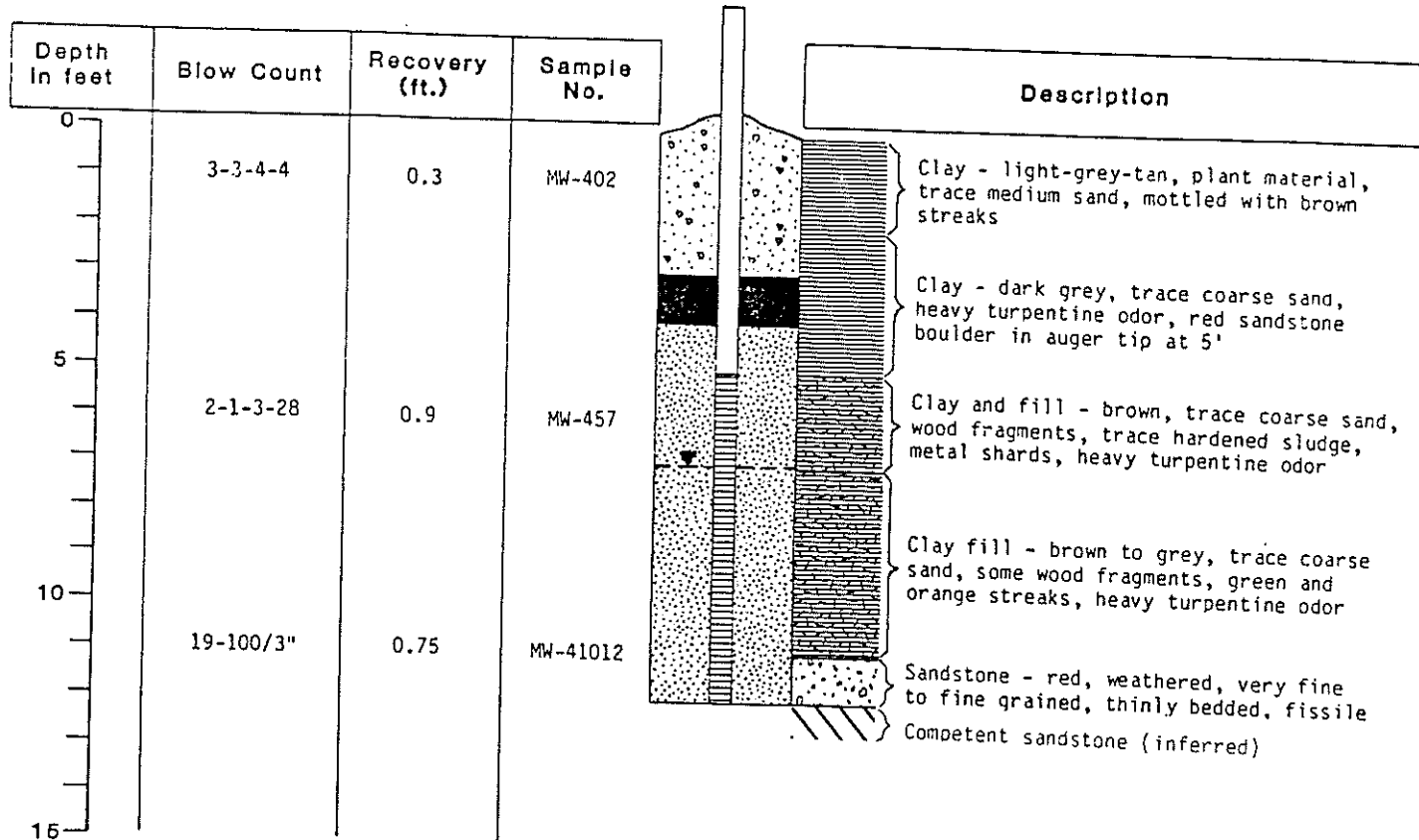
BORING No. MW-3



Drilling Began: 3/14/86
 Drilling Completed: 3/14/86
 Well Construction Completed: 3/14/86
 Development Completed: 3/18/86
 Total Depth: 12.0'
 Depth to Refusal: 11.0'
 Screened Interval: 4'-11'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 113.87
 Elevation, Top of Casing: 116.17
 Latitude: 40° 15' 42.92"
 Longitude: 74° 48' 21.11"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

BORING No. MW-4

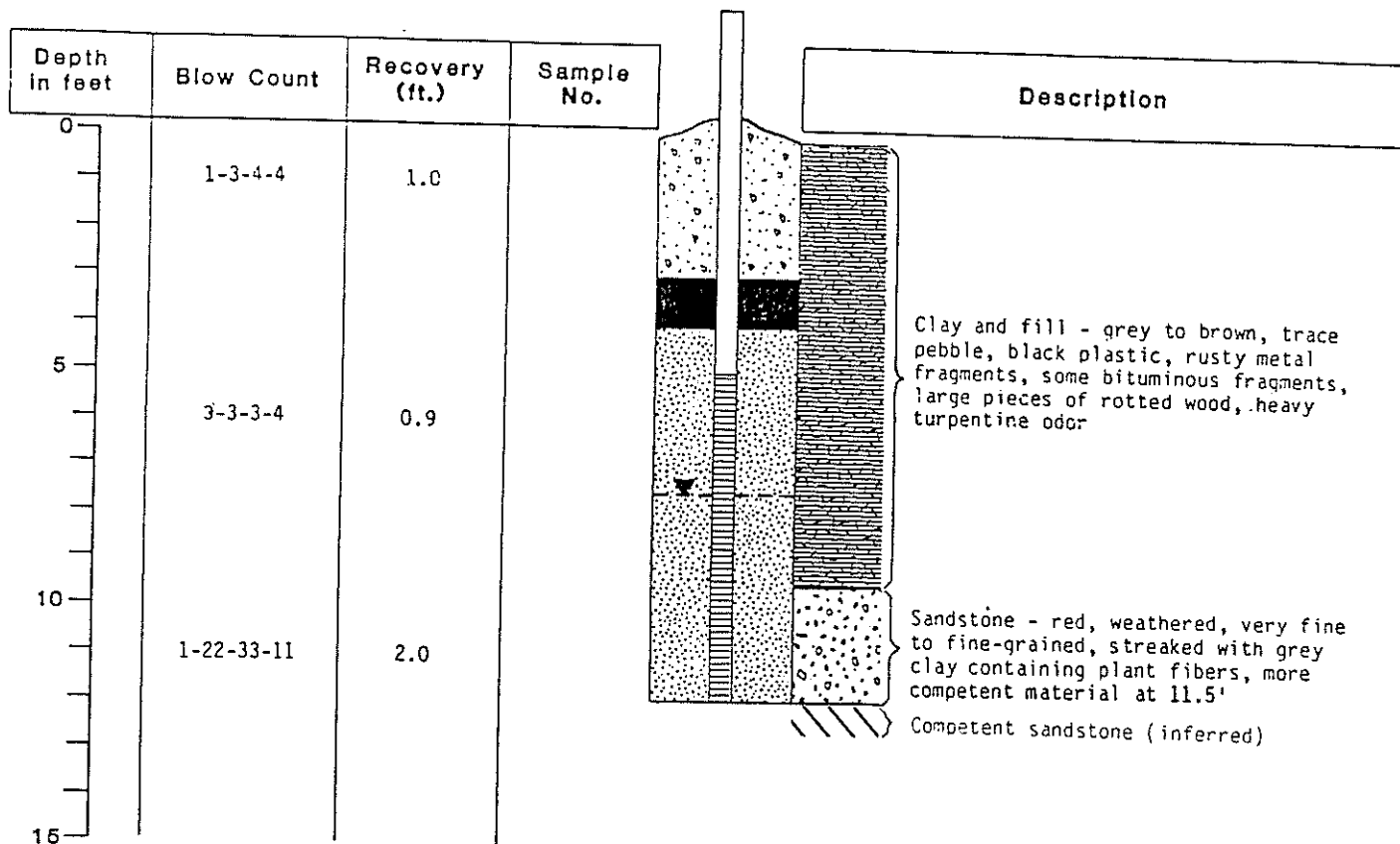


Drilling Began: 3/12/86
 Drilling Completed: 3/12/86
 Well Construction Completed: 3/12/86
 Development Completed: 3/18/86
 Total Depth: 12.0'
 Depth to Refusal: 12.0'
 Screened Interval: 5'-12'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 112.29
 Elevation, Top of Casing: 114.19
 Latitude: 40° 15' 41.05"
 Longitude: 74° 48' 21.57"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

D.T.W. = 9.0' (4/10/86)

BORING No. MW-5

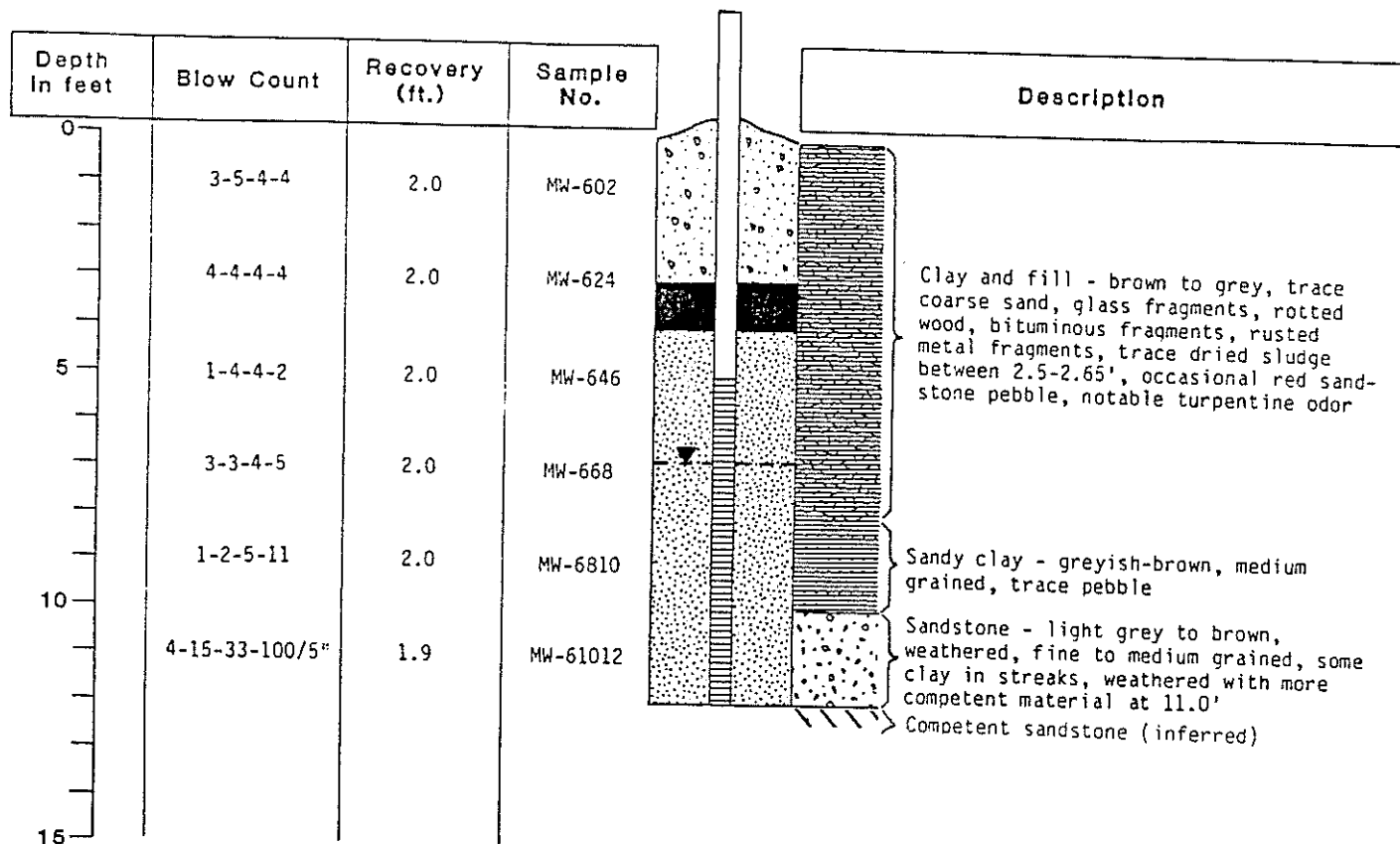


Drilling Began: 3/12/86
 Drilling Completed: 3/12/86
 Well Construction Completed: 3/12/86
 Development Completed: 3/18/86
 Total Depth: 12.0'
 Depth to Refusal: 12.0'
 Screened Interval: 5'-12'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 111.45
 Elevation, Top of Casing: 113.35
 Latitude: 40° 15' 39.88"
 Longitude: 74° 48' 22.54"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

D.T.W. = 9.52' (4/10/86)

BORING No. MW-6

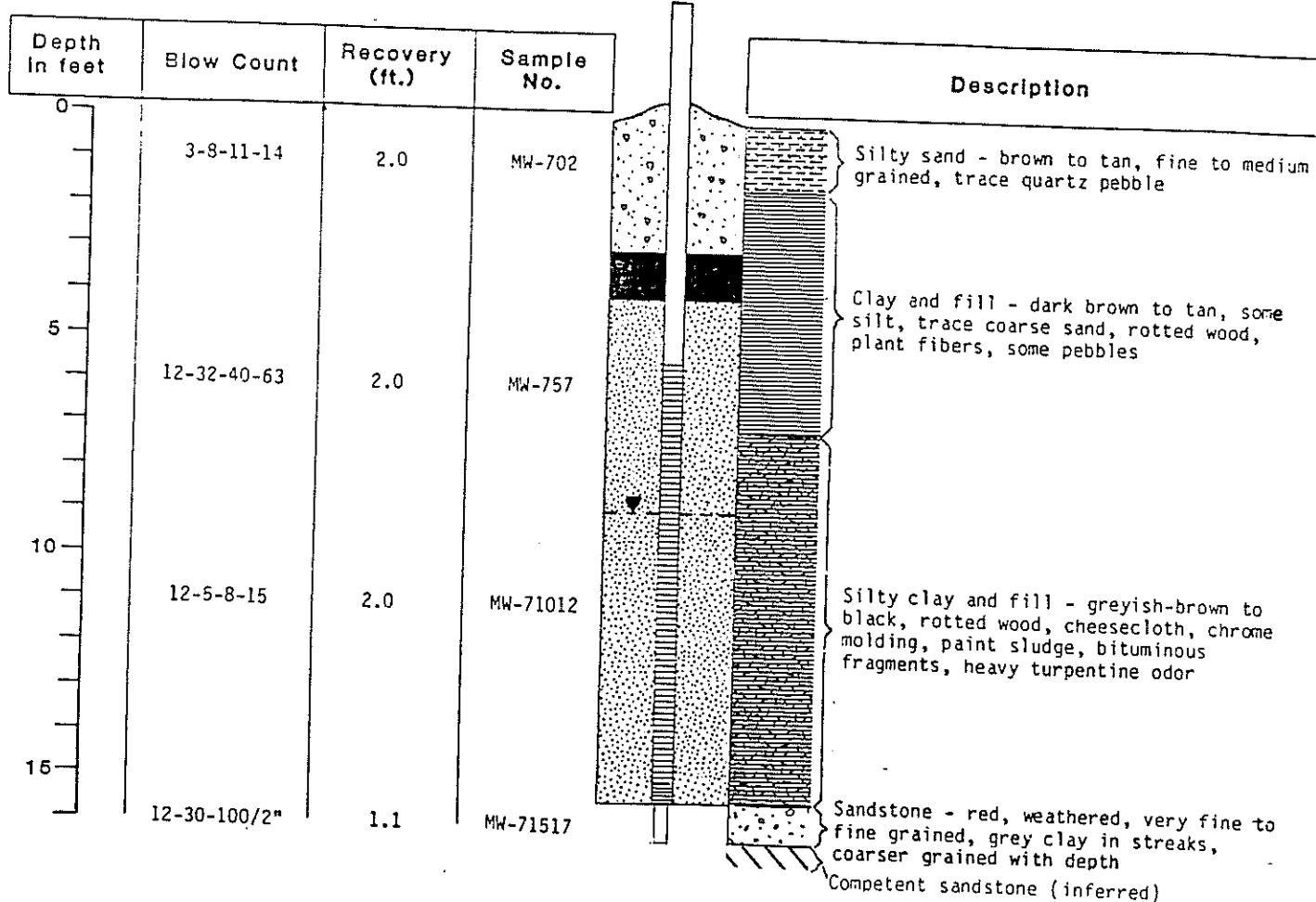


Drilling Began: 3/10/86
 Drilling Completed: 3/10/86
 Well Construction Completed: 3/10/86
 Development Completed: 3/17/86
 Total Depth: 12.0'
 Depth to Refusal: 12.0'
 Screened Interval: 5'-12'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 110.92
 Elevation, Top of Casing: 113.30
 Latitude: 40° 15' 39.20"
 Longitude: 74° 48' 23.42"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

D.T.W. = 9.26' (4/10/86)

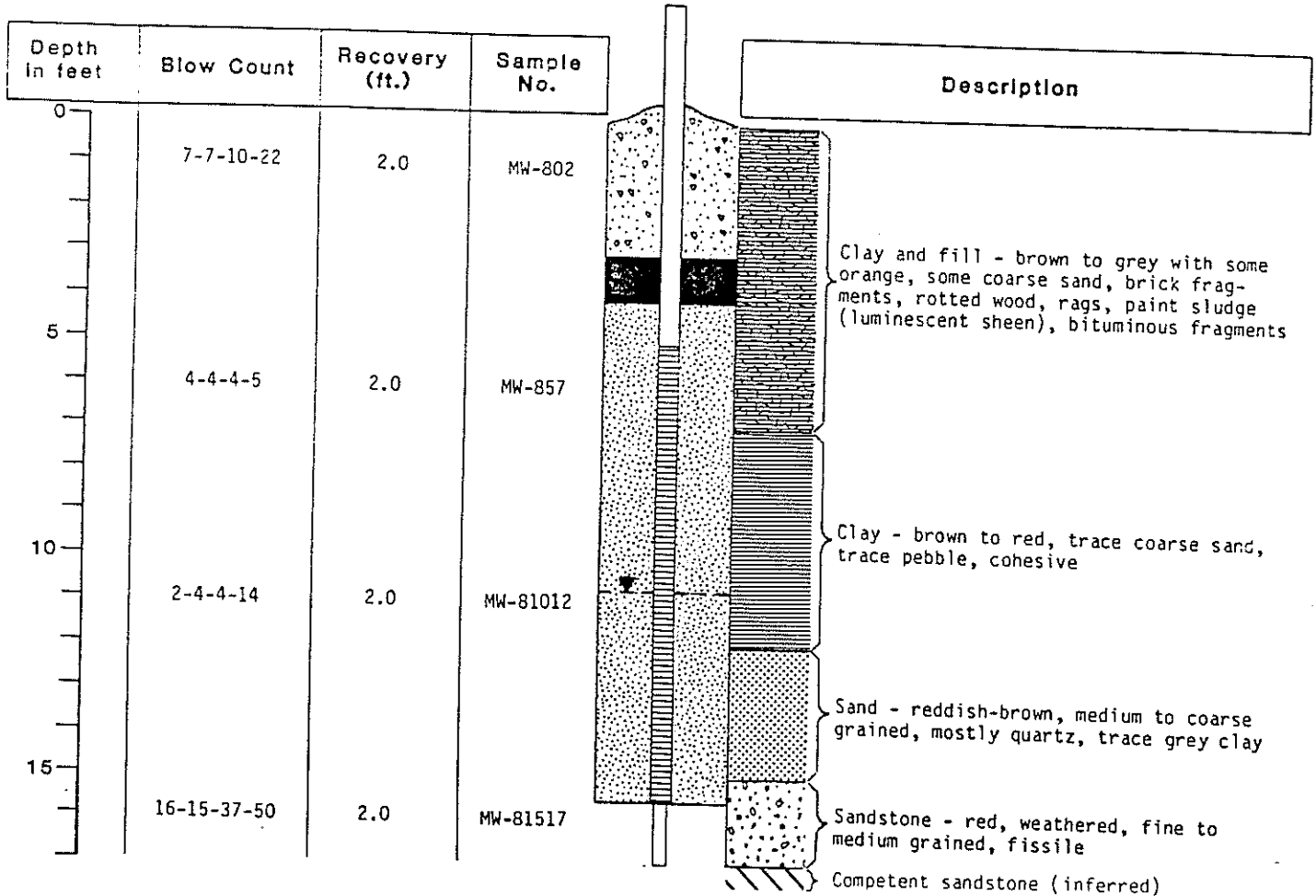
BORING No. MW-7



Drilling Began: 3/7/86
 Drilling Completed: 3/7/86
 Well Construction Completed: 3/7/86
 Development Completed: 3/17/86
 Total Depth: 16.2'
 Depth to Refusal: 15.5'
 Screened Interval: 5.5'-15.5'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: D.T.W. = 11.28' (4/9/86)
 Elevation, Top of Casing: 118.32
 Latitude: 120.71
 Longitude: 40° 15' 39.65"
 Hole Dia.: 74° 48' 27.93"
 Monitoring Tube: 12" O.D., 6-5/8" I.D.
 4" SCH 40 PVC

BORING No. MW-8

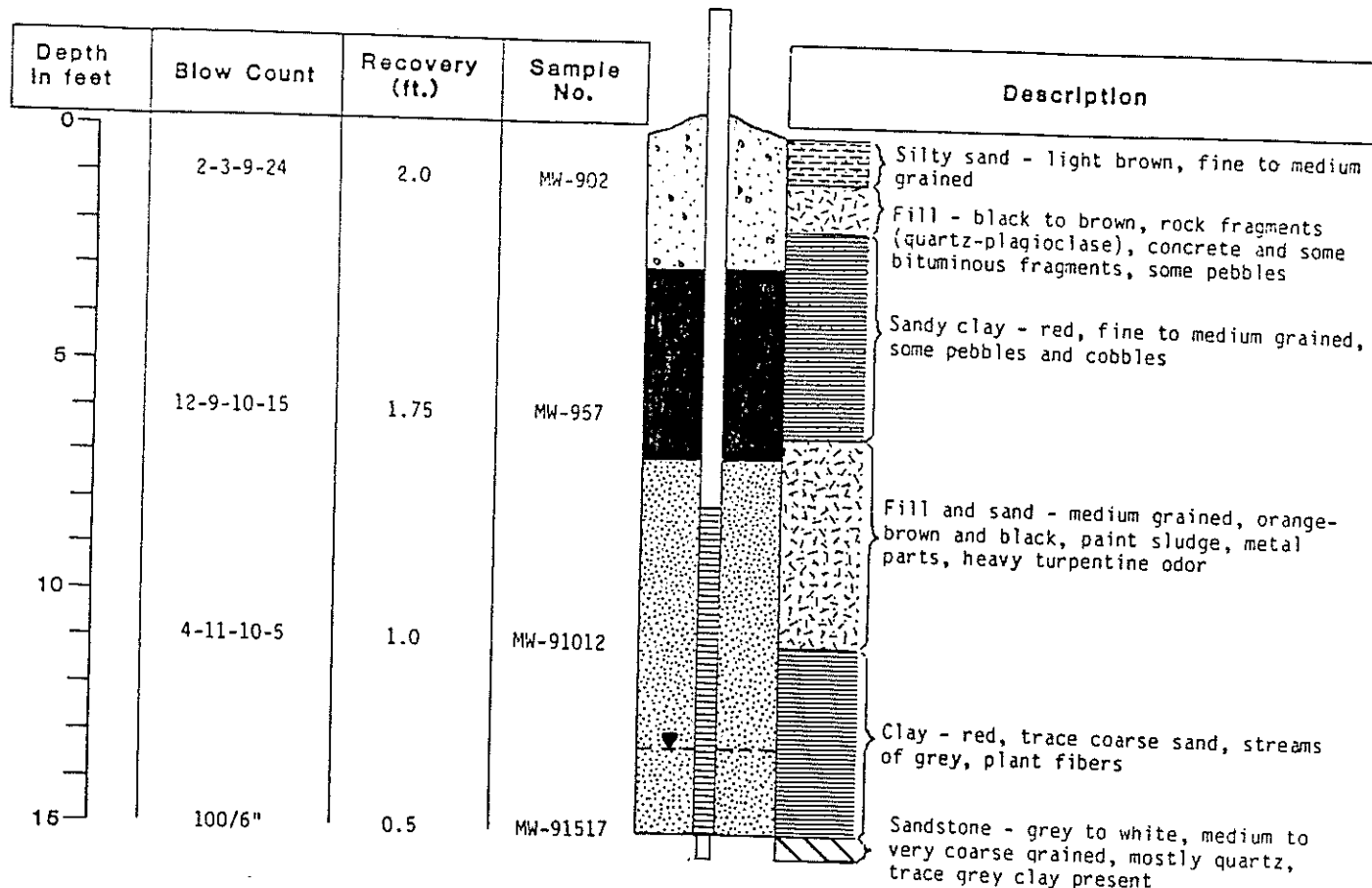


Drilling Began: 3/10/86
 Drilling Completed: 3/10/86
 Well Construction Completed: 3/10/86
 Development Completed: 3/17/86
 Total Depth: 17.0'
 Depth to Refusal: 15.5'
 Screened Interval: 5.5'-15.5'
 Aquifer: Overburden

SWL (date):
 Elevation, Ground Surface: 131.27
 Elevation, Top of Casing: 133.07
 Latitude: 40° 15' 41.83"
 Longitude: 74° 48' 35.05"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

D.T.W. = 12.56' (4/10/86)

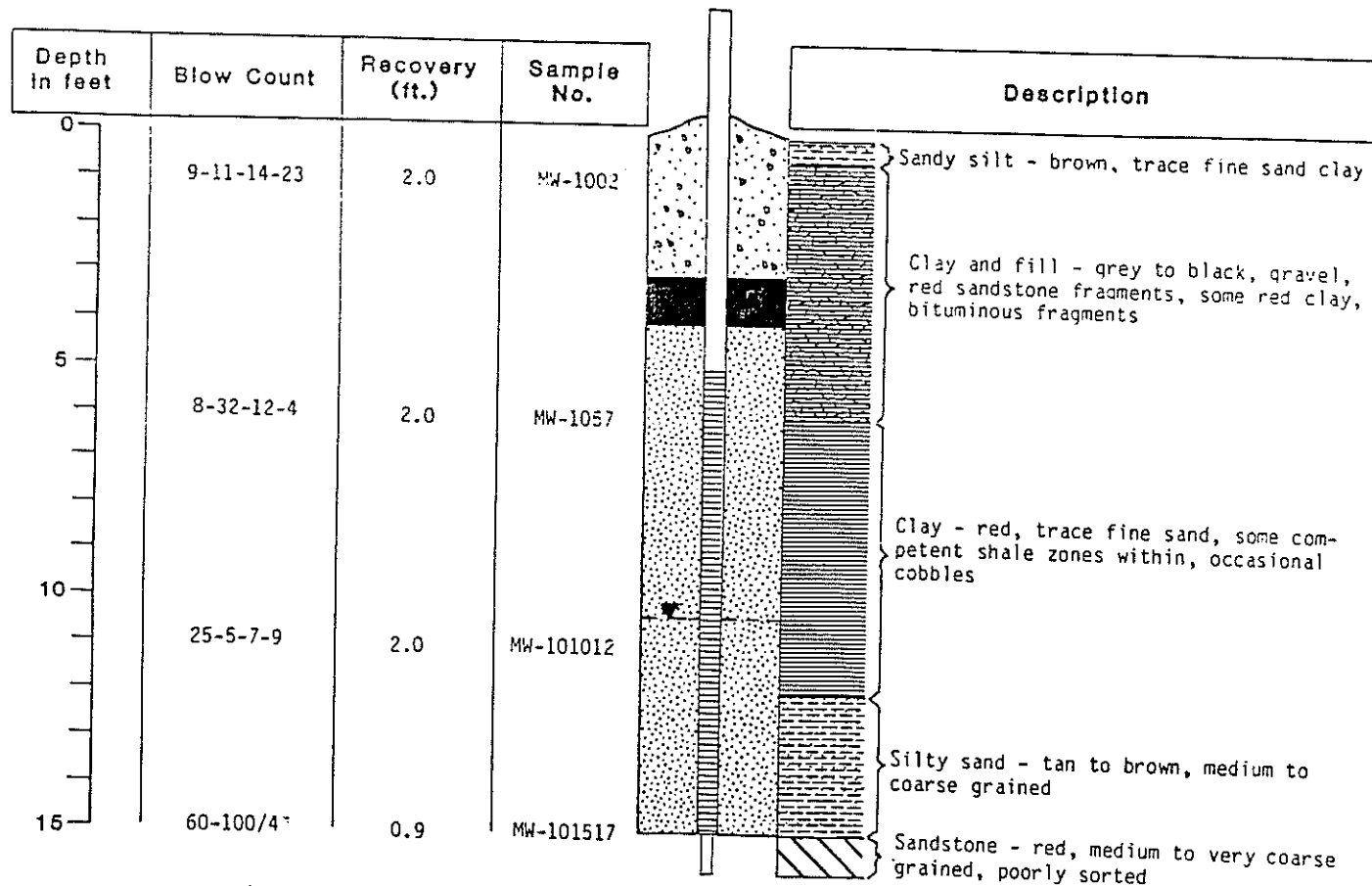
BORING No. MW-9



Drilling Began: 3/7/86
 Drilling Completed: 3/7/86
 Well Construction Completed: 3/7/86
 Development Completed: 3/17/86
 Total Depth: 15.5'
 Depth to Refusal: 15.0'
 Screened Interval: 8'-15'
 Aquifer: Overburden

SWL (date): D.T.W. = 15.55' (4/10/86)
 Elevation, Ground Surface: 127.51
 Elevation, Top of Casing: 129.83
 Latitude: 40° 15' 42.65"
 Longitude: 74° 48' 30.54"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

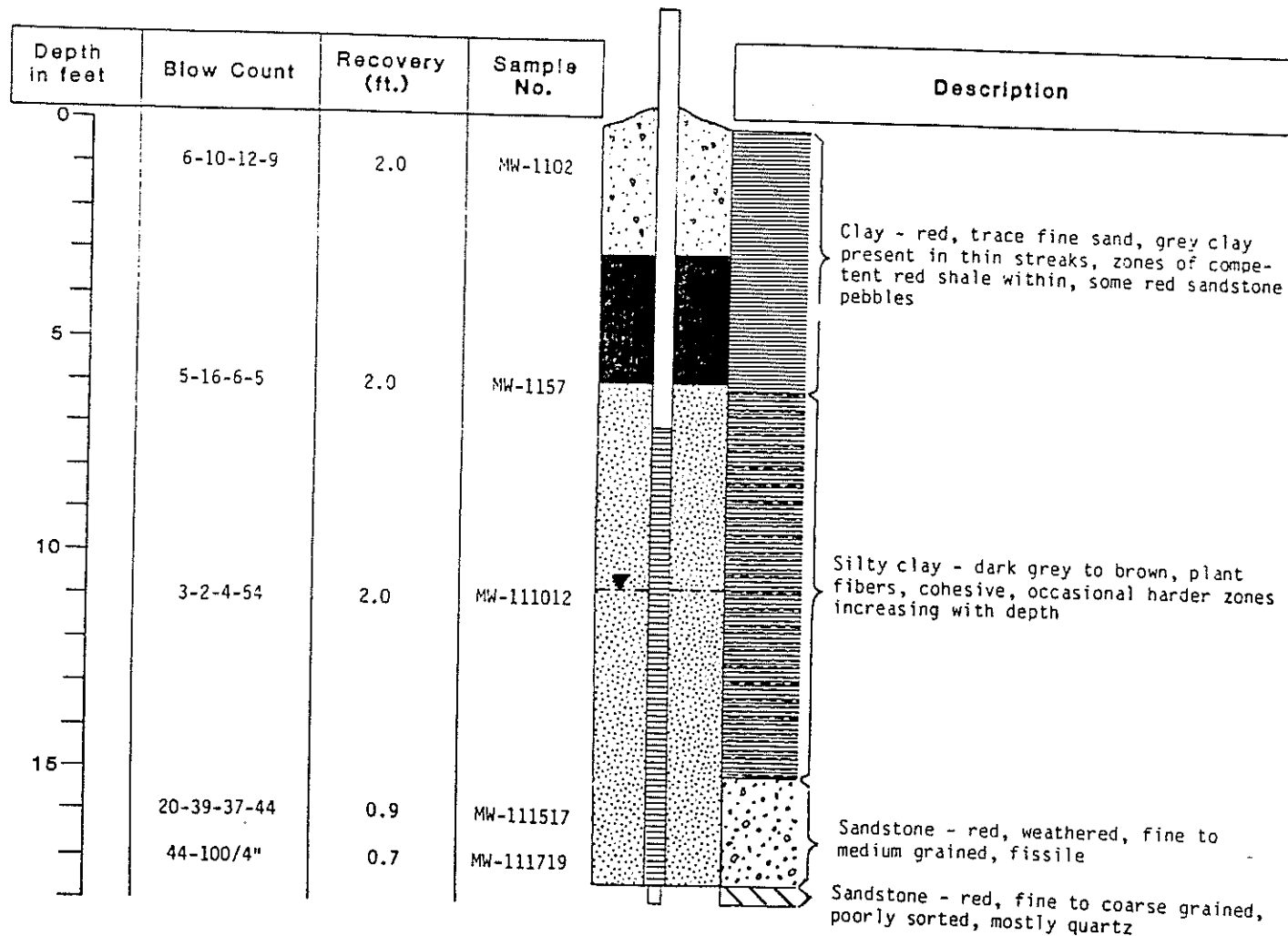
BORING No. MW-10



Drilling Began: 3/6/86
 Drilling Completed: 3/6/86
 Well Construction Completed: 3/6/86
 Development Completed: 3/17/86
 Total Depth: 15.9'
 Depth to Refusal: 15.0'
 Screened Interval: 5'-15'
 Aquifer: Overburden

SWL (date): D.T.W. = 12.39' (4/9/86)
 Elevation, Ground Surface: 123.53
 Elevation, Top of Casing: 125.63
 Latitude: 40° 15' 41.14"
 Longitude: 74° 48' 30.70"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

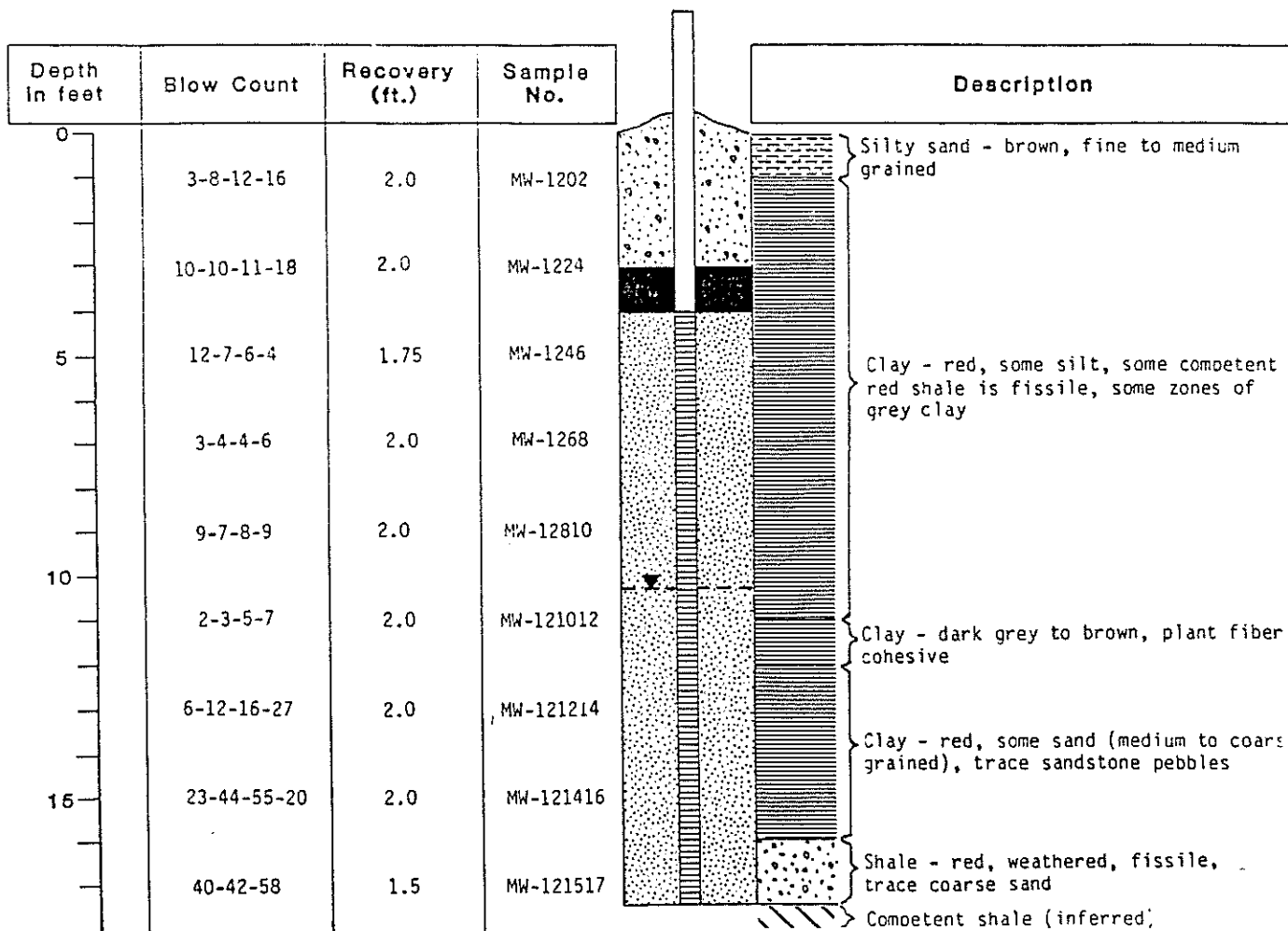
BORING No. MW-11



Drilling Began: 3/5/86
 Drilling Completed: 3/5/86
 Well Construction Completed: 3/6/86
 Development Completed: 3/17/86
 Total Depth: 17.9'
 Depth to Refusal: 17.5'
 Screened Interval: 6.5'-17.5'
 Aquifer: Overburden

SWL (date): D.T.W. = 12.78' (4/9/86)
 Elevation, Ground Surface: 124.38
 Elevation, Top of Casing: 126.43
 Latitude: 40° 15' 41.06"
 Longitude: 74° 48' 31.16"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

BORING No. MW-12



Drilling Began: 3/5/86
 Drilling Completed: 3/5/86
 Well Construction Completed: 3/5/86
 Development Completed: 3/17/86
 Total Depth: 17.5'
 Depth to Refusal: 17.5'
 Screened Interval: 4'-17.5'
 Aquifer: Overburden

SWL (date): D.T.W. = 12.56' (4/9/86)
 Elevation, Ground Surface: 124.83
 Elevation, Top of Casing: 127.13
 Latitude: 40° 15' 41.28"
 Longitude: 74° 48' 31.76"
 Hole Dia.: 12" O.D., 6-5/8" I.D.
 Monitoring Tube: 4" SCH 40 PVC

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee:

Name of Facility:

GMC

Location:

WEST TRENTON N.J.

NJPDDES Number:

NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

2 7 1 0 9 8 0 1

This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second):

West 74° 48' 40.02"

Latitude (one-tenth of a second):

North 40° 15' 54.40"

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

134.50 Inner Casing

Owners Well Number (As shown on the application or plans):

MW-17A

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS 07071

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDDES permit.

04/02 15:42

LME Engineering

#05

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: _____
Name of Facility: GMC
Location: WEST TRENTON N.J.
NJDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

27 - 10979 - 8

Longitude (one-tenth of a second):

Latitude (one-tenth of a second):

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

West 74° 48' 17.75"

North 40° 15' 44.34"

109.93 Inner Casing

Owners Well Number (As shown on the application or plans):

MW-15

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS07071

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall

816 THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

LEA REF. 5197.D4
REV. 01/22/91

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee:

Name of Facility:

Location:

GMC

WEST TRENTON N.J.

NJPDES Number:

NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 1 0 9 7 8 0

Longitude (one-tenth of a second):

Latitude (one-tenth of a second):

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

Owners Well Number (As shown on the application or plans):

West 74° 48' 17.69"

North 40° 15' 44.25"

112.15 Outer Casing

MW-15A

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS 07071

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells

04/02 15:41 LMS Engineers

#03

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: _____

Name of Facility: _____

Location: _____

GMC

WEST TRENTON N.J.

NJPDES Number: _____

NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 7 - 1 0 9 7 7 - 1

Longitude (one-tenth of a second):

Latitude (one-tenth of a second):

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):West 74° 48' 21.05"North 40° 15' 54.00"127.79 Outer Casing

Owners Well Number (As shown on the application or plans):

MW- 16AAUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

GS 07071

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

FIGURE 4a

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Fisher Body Division, Genral Motors Corp.
Name of Facility: Same as permittee
Location: Trenton, Ewing Twp., Mercer County
NJDES Permit No: NJ0053295

ENGINEER'S CERTIFICATION

Well Permit Number (As Assigned by NJDEP's Water Allocation Section (609-984-6831):
This number must be permanently affixed to the well casing.

2 7 8 3 3 7 0

Owner's Well Number (As shown on the application or plans): MW-10
Well Completion Date: 3/6/86
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.10'
Total Depth of Well (one-tenth of a foot): 15.0'
Depth to Top of Screen From Top of Casing (one-tenth of a foot): 7.1'
Screen Length (feet): 10.0'
Screen or Slot Size: 20 slot
Screen Material: Sch. 40 PVC
Casing Material: (PVC, Steel or Other-Specify): Sch. 40 PVC
Casing Diameter(Inches): 4"
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): 12.39" (4/9/86)
Yield (Gallons per Minute): 0.50
Length of time Well Pumped or Bailed: 1 Hours 0 Minutes
Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.


Professional Engineer's Signature

Patrick J. Lawler

Professional Engineer's Name
(Please type or print)

GE 29760

Professional Engineer's License #

SEAL

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee: GMC Fisher Guide Division

Name of Facility: Fisher Body Ternstedt Division (General Motors)

Location: Ewing Township, New Jersey

NJPDES Number: NJ 0053296

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's
Water Allocation Section, 609-984-6831):
This number must be permanently affixed to
the well casing.

2 7 -0 9 6 1 9 -0

Longitude (one-tenth of a second):

West 74° 48' 20.646"

Latitude (one-tenth of a second):

North 40° 15' 46.953"

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

121.59'

Owners Well Number (As shown on application
or plans):

1 - A

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE

PROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

SEAL

NJ# GS0 -7071

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee: GMC Fisher Guide Division

Name of Facility: Fisher Body Ternstedt Division (General Motors)

Location: Ewing Township, New Jersey

NJPDES Number: NJ 0053296

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's
Water Allocation Section, 609-984-6831):
This number must be permanently affixed to
the well casing.

2 7 -0 9 6 2 0 -3

Longitude (one-tenth of a second):

West 74° 48' 27.839"

Latitude (one-tenth of a second):

North 40° 15' 39.703"

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

120.25

Owners Well Number (As shown on application
or plans):

7 - A

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ# GSO -7071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee: GMC Fisher Guide Division

Name of Facility: Fisher Body Ternstedt Division (General Motors)

Location: Ewing Township, New Jersey

NJPDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's
Water Allocation Section, 609-984-6831):
This number must be permanently affixed to
the well casing.

2 7 0 9 6 1 7 3

Longitude (one-tenth of a second):

West 74° 48' 30.621"

Latitude (one-tenth of a second):

North 40° 15' 42.615"

Elevation of Top of Casing (cap off)
(one-hundredth of a foot):

129.22

Owners Well Number (As shown on application
or plans):

9 - A

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Vincent Schulte
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

VINCENT SCHULTE
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ# GSO -7071
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: GMC Fisher Guide Division
Name of Facility: Fisher Body Ternstedt Division (General Motors)
Location: Ewing Township, New Jersey
NJDES Number: NJ 0053295

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

2 7 - 0 9 6 1 8 - 1

Longitude (one-hundredth of a second):

West 74° 48' 21.827"

Latitude (one-hundredth of a second):

North 40° 15' 39.231"

Elevation of Top of Casing (cap off)

(one-hundredth of a foot):

108.74

Owners Well Number (As shown on the application or plans):

13

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

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