BORING LOG

Report No. V-1802-2 DATE February 12, 1970
Made for: RADCO
Project: Biscoe Property
Hole No.: 5 Total Depth: 25.0 Elevation—Top of Hole: 72.6 Hole Location: As Shown
Type of Boring: H. S. Auger Started 2/5/70 Completed 2/5/70 Driller: Crawford

Elevation	Depth 0.0	Casing Blows	CLASSIFICATION OF MATERIALS (Description)	** Sample Blows	% Core Recovery	REMARKS
	2.5		Brown Tan Fine-Coarse Sandy Clayey Silt w/Trace of Roots	7	2.0 / 3.0	Water @ Elevation 59.9 @ 24 hrs.
	6.0		Brown Fine-Coarse Sandy Clayey Silt	8	4.0 / 5.0	
			Brown Silty Fine-Coarse Sand w/Fine-Coarse Gravel	80*	9.0 / 10.0	*Amplified by Gravel
				67*	14.0 / 15.0	
				30	19.0 / 20.0	
	25.0			32	24.0 / 25.0	
			Boring Terminated			

*No. of Blows 250-lb. Hammer, 30-in. Fall, Required to Drive Casing One Foot.
**No. of Blows 140-lb. Hammer, 30-in. Fall, Required to Drive 2-in. O.D., 1.375 in I.D. Sample One Foot

BORING LOG

Report No. V-1802-2 DATE February 12, 1970
Made for: RADCO
Project: Biscoe Property
Hole No.: 6 Total Depth: 25.0 Elevation—Top of Hole: 73.0 Hole Location: As Shown
Type of Boring: H. S. Auger Started 2/5/70 Completed 2/5/70 Driller: Crawford

Elevation	Depth 0.0	Casing Blows	CLASSIFICATION OF MATERIALS (Description)	** Sample Blows	% Core Recovery	REMARKS
	3.5		Brown Fine-Coarse Sandy Clay with Trace of Roots	16	2.0 / 3.0	Water @ Elevation 63.0 @ 24 hrs.
	8.0		Brown Fine-Coarse Sandy Clayey Silt w/Fine Gravel	23	4.0 / 5.0	
	12.0		Brown Silty Fine-Medium Sand	8	9.0 / 10.0	
			Brown Silty Fine-Coarse Sand w/Fine-Coarse Gravel	42	14.0 / 15.0	
				30	19.0 / 20.0	
	25.0			30	24.0 / 25.0	
			Boring Terminated			

*No. of Blows 250-lb. Hammer, 30-in. Fall, Required to Drive Casing One Foot.
**No. of Blows 140-lb. Hammer, 30-in. Fall, Required to Drive 2-in. O.D., 1.375 in I.D. Sample One Foot.

BORING LOG

Report No. V-1802-2 DATE February 12, 1970
Made for: RADCO
Project: Biscoe Property
Hole No.: 7 Total Depth: 25.0 Elevation—Top of Hole: 72.2 Hole Location: As shown
Type of Boring: H. S. Auger Started 2/5/70 Completed 2/5/70 Driller: Crawford

Elevation	Depth 0.0	Casing Blows	CLASSIFICATION OF MATERIALS (Description)	** Sample Blows	% Core Recovery	REMARKS
			Tan Gray Clayey Silty Fine to Coarse Sand w/Fine Gravel	9	2.0 / 3.0	Water @ Elevation 63.6 @ 24 hrs.
				15	4.0 / 5.0	
	9.0		Tan Clayey Silty Fine-Coarse Sand w/Fine-Coarse Gravel	26	9.0 / 10.0	
				35	14.0 / 15.0	
	18.0		Tan Silty Fine-Medium Sand w/Fine Gravel	27	19.0 / 20.0	
	25.0			27	24.0 / 25.0	
			Boring Terminated			

*No. of Blows 250-lb. Hammer, 30-in. Fall, Required to Drive Casing One Foot.
**No. of Blows 140-lb. Hammer, 30-in. Fall, Required to Drive 2-in. O.D., 1.375 in I.D. Sample One Foot.

BORING LOG

Report No. V-1802-2 DATE February 12, 1970
Made for: RADCO
Project: Biscoe Property
Hole No.: 8 Total Depth: 25.0 Elevation—Top of Hole: 75.1 Hole Location: As shown
Type of Boring: H. S. Auger Started 2/5/70 Completed 2/5/70 Driller: Crawford

Elevation	Depth 0.0	Casing Blows	CLASSIFICATION OF MATERIALS (Description)	** Sample Blows	% Core Recovery	REMARKS
	2.0		Brown Silt w/Organics		2.0	
			Brown Fine to Coarse Sandy Silty Clay	12	3.0 / 4.0	Water @ Elevation 64.0 @ 24 hrs.
				11	5.0	
	8.0		Brown Silty Fine Sand	16	9.0 / 10.0	
	12.5		Brown Silty Clayey Fine-Coarse Sand w/Fine-Coarse Gravel	70*	14.0 / 15.0	
	18.0		Tan Gray Silty Clayey Fine-Coarse Sand w/Fine-Coarse Gravel	64*	19.0 / 20.0	*Amplified by Gravel
	25.0			38	24.0 / 25.0	
			Boring Terminated			

*No. of Blows 250-lb. Hammer, 30-in. Fall, Required to Drive Casing One Foot.
**No. of Blows 140-lb. Hammer, 30-in. Fall, Required to Drive 2-in. O.D., 1.375 in I.D. Sample One Foot.

BORING LOG

Report No. V-1802-2 DATE February 12, 1970
Made for: RADCO
Project: Biscoe Property
Hole No.: 9 Total Depth: 50.0 Elevation—Top of Hole: 73.6 Hole Location: As Shown
Type of Boring: H. S. Auger Started 2/5/70 Completed 2/5/70 Driller: Jones

Elevation	Depth 0.0	Casing Blows	CLASSIFICATION OF MATERIALS (Description)	** Sample Blows	% Core Recovery	REMARKS
	2.0		Topsoil		2.0	Water @ Elevation 64.0 @ 24 hrs.
	4.5		Tan Clayey Fine Sand	18	3.0 / 4.0	
	7.5		Tan Clayey Fine Sand w/Fine Gravel	32	5.0	
			Tan Fine-Coarse Sand & Fine Gravel	32	9.0 / 10.0	
				51	14.0 / 15.0	
	21.0		Tan Fine to Coarse Sand w/Some Fine Gravel	23	19.0 / 20.0	
				62	24.0 / 25.0	
				33	29.0 / 30.0	
	31.0		Tan Clayey Sand w/Gravel	71	34.0 / 35.0	
	39.0		Gray Silty Fine to Medium Sand	45	39.0 / 40.0	
				32	44.0 / 45.0	
	46.0		Gray Fine to Coarse Grain Silty Sand	30	49.0 / 50.0	
			Boring Terminated			

*No. of Blows 250-lb. Hammer, 30-in. Fall, Required to Drive Casing One Foot.
**No. of Blows 140-lb. Hammer, 30-in. Fall, Required to Drive 2-in. O.D., 1.375 in I.D. Sample One Foot.

DATE	ISSUED FOR	APPROVAL	APPROVAL
6-22-78	ALL TRADES BID	R. Lyons	[illegible]

NO.	DATE	BY	APPROVAL	APPROVAL

REVISIONS

CONTRACT SIGNATURES
FOR THE OWNER
FOR THE CONTRACTOR

DRAWING CERTIFIED BY
NIKOLA NEDELJKOVIC
Registered Professional Engineer
Commonwealth Of Virginia
DATE No. 10531

Plant Engineering & Construction
General Motors Corporation 485 West Milwaukee Avenue Detroit, Michigan 48202

MANUFACTURING BUILDING MODIFICATIONS
FOR
DELCO MORAINE DIVISION
GENERAL MOTORS CORPORATION
FREDERICKSBURG VIRIGINIA
PROJECT TITLE

SOIL BORING LOGS
SHEET TITLE

OWNER'S IDENTIFICATION
4909
P. E. & C. PROJECT NUMBER
DATE 6-22-78
DRAWN BY K.C. JANVEJA
JOB CAPT. J. ARMISTEAD
P-2
SHEET NUMBER

P.E.&C. 148 REV. 1-77 KME 17 0188 15-70 3079