

Drilling Log

Project Name CESSNA						Boring No. B-2	
Project No. 85-141-4						Page 1 of 7	
Ground Elevation Approx. 1308.7'			Location Approx. 125' N. of E of MacArthur Rd and 37' East of E of Hoover Rd			Total Footage 108.0'	
Drilling Type	Hole Size	Overburden Footage	Bedrock Footage	No. of Samples	No. Core Boxes	Depth To Water	Date Measured
Rotary Wash	10" / 6" See Remarks	107.0'	1.0'	15	0	See Remarks	—
Drilling Co. Layne - Western Company, Inc.				Driller (s) Rodney Cleverley + Mark Denham			
Drilling Rig. Gardner Denver 1000				Type of Penetration Test Standard			
Date 8-15-85		To 8-19-85		Field Observer (s) J. David Langford			

Depth	Description	Class.	Blow Count	Recov.	Sample or Box No.	Remarks
1	Topsoil, Dark Brown Silty Clay, Moist, Med. Plastic, w/ some Fine sand.					Start @ 2:10 pm T.O.P. Elev. = 1311.94'
2						Began drilling w/ 10" φ bit
3	Brown Silty Clay, Moist,					
4	Medium Plastic, w/ some Fine sand.					
5		CL	4 7/13	12" / 18"	SS-1	
6						
7						
8						
9						
10	Brown and Rusty Brown Sandy Clay. Moist, Med. Plastic, Fine to	CL	3 6/10	12" / 18"	SS-2	
11	Medium Sand,					
12						
13						
14						

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Date						Box or Sample No.	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss		Box or Sample No.	Remarks
15	Brown Sand, wet, Fine to Coarse, w/ trace of silt.	SP	15 19 20	18" 18"		SS-3	
16							
17							
18							
19	Brown Sand, wet, Fine to Coarse, w/ some clay and gravel.	SP	24 50 16"	6" 12"		SS-4	
20							
21							
22							
23	Brown Clayey Sandy Silt, Saturated, Trace to Medium Plastic, Fine sand, w/ trace of gravel.	ML		12" 18"		SS-5	Noted Loss of drilling water @ 23.0'.
24							
25							
26							
27	Brown Sand, Fine to Coarse, w/ some grayish brown clay + gravel.	SP					Mixed Bentonite Slurry @ 25.0'.
28							
29							
30							
31							Stopped for the day @ 7pm. Resumed @ 8AM on 8-16-85. Blow Count for SS-5 not recorded.

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						Date <u>8-16-85</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
32	Brown Sand, Fine to Coarse, w/ a trace of grayish brown clay.	SP			SS-6	Jar Sample Collected From Cuttings	
33							
34							
35							
36							
37	-----						
38	Brown Sand, Fine to Coarse.	SP			SS-7	Jar Sample Collected From Cuttings	
39							
40							
41							
42							
43							
44							
45		SP			SS-8	Jar Sample Collected from Cuttings.	
46							
47							
48							

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						Date <u>8-16-85</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss		Box or Sample No.	Remarks
49	Brown Sand, Saturated, Fine to Coarse, w/ thin lenses of silty clay.	SP	30/ 24/ 16	18" 18"		SS-9	
50							
51	Brown Silty Clay, Moist to wet, Medium to Highly Plastic.	CL					Stopped @ 51.5' to set 8"φ PVC casing to 51' mixed more Bentonite.
52							
53	Brown Sand, Medium to Coarse, w/ some gravel.						Continued Drilling Below 51.0' w/ 6"φ Bit.
54							
55							
56							
57							
58							
59							
60							
61							
62							
63	Grayish Brown Clayey, Sand Moist to wet, Medium to Highly Plastic Clay Fine to Medium Sand.	SC					
64							
65							
						SS-10	Sample From Cuttings?

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						Date <u>8-16-85</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
66	Grayish Brown Clayey Sand, Moist to Wet medium to Highly Plastic Clay, Fine to Medium Sand.	SC	16 22/28	18" 18"	SS-11		
67							
68							
69	Brown Sand, Medium to Coarse, w/ trace of clay.						
70							
71							
72							
73							
74							
75		SP			SS-12	Sample From Cuttings.	
76							
77	Same as above, w/ a trace of gravel.						
78							
79							
80	Brownish Gray Clay, Moist, medium to Highly Plastic, w/ lenses of Fine sand.	CH	24 50/4"	10" 10"	SS-13		
81							
82							

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						Date 8-16-85	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
83	Brownish Gray Clay, Moist, Medium to Highly Plastic, w/ lenses of Fine Sand.	SP					
84	Brown Sand, Fine to Coarse, w/ trace of clay.						
85							
86							
87							
88							
89							
90							
91							
92	Brown Sand, Medium to Coarse, w/ trace of gravel.	SP	40 / 50 2/3"	9" / 9"	SS-15	Harder Drilling Resistance Begon @ 91.0'	
93							
94							
95							
96							
97							
98							
99							

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						Date <u>8-16-85</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss		Box or Sample No.	Remarks
100	Brown Sand, Medium to Coarse, w/ trace of gravel.		SP				
101							
102							
103							
104							
105							
106							
107	Greenish Gray Shale Dry to Moist, Highly to Extremely weathered, Very weak.						Drilling Refusal @ 108.0' Stopped for day @ 7pm. Resumed on 8-19-85 @ 9AM. Set 110' of 2" PVC casing w/ lower 10' screen, 17' gravel pack, 2' bentonite pellet seal, and cement grout to the surface. 39" of casing above grade. Set 4" x 4" protect casing in grout. Developed for 1/2 hr. H ₂ O @ 39.3'. Upon completion Below TOP.
108							
109	TD = 108.0'						
110							
111							
112							
113							
114							
115							
116							

