

Drilling Log

Project Name <u>Cessna</u>						Boring No. <u>B7</u>	
Project No. <u>85-141-4-001</u>						Page <u>1</u> of <u>8</u>	
Ground Elevation <u>1302.8'</u>			Location <u>See Figure II-1</u>			Total Footage <u>129'</u>	
Drilling Type	Hole Size	Overburden Footage	Bedrock Footage	No. of Samples	No. Core Boxes	Depth To Water	Date Measured
Rotary Wash	6" / 10"	126.0'	3.2'	16	-	See Remarks	
Drilling Co. <u>Wayne Western Company Inc.</u>				Driller (s) <u>Von Holt Crowel</u>			
Drilling Rig. <u>Gardner Denver 500</u>				Type of Penetration Test <u>Standard</u>			
Date <u>3-10-86</u>		To <u>3-11-86</u>		Field Observer (s) <u>M Eversman</u>			

Depth	Description	Class.	Blow Count	Recov.	Sample or Box No.	Remarks
1	Dark brown silty clay					shut @ 3:30pm
2	moist medium plastic					
3	Dark brown silty clay					
4	moist medium to highly plastic. Trace of fine sand					
5						
6						Water levels were not immediately measured due to drilling method.
7						
8						
9						
10	Brown, sandy clay					
11	moist medium plastic					
12	Fine sand					
13						

Drilling Log (continued)

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						Date	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss		Box or Sample No.	Remarks
15	<i>Grayish brown silty clay most to med. to high plasticity. Trace of fine sand</i>						
16							
17							
18							
19	<i>Brown sand, fine to coarse with some gravel</i>						
20							
21							
22							
23							
24							
25							
26							
27	<i>as above</i>						
28							
29							
30							

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						Date <u>3-10-86</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss		Box or Sample No.	Remarks
32							
33							
34							
35	Brown Sand, coarse						
36	with some gravel						
37							
38							
39							
40							
41	as above						
42							
43							
44							
45							
46							
47	Grayish-Brown clay, highly plastic some sand present						

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Date							
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
48	Grayish Brown silty clay highly plastic some sand fine to medium					Drilled 6" to 48 feet. Reamed with 10" auger	
49						Set casing to 48.8'	
50						Grouted and left for the night @ 9:00pm	
51						Started @ 8:30 am	
52						Background variable due to wind	
53						OVA = 0	
54	Brown Sand, Fine to Medium, Dense, Saturated 5" clay layer at top of spoon. Silty clay with sand Suspected slough from hole.	17	33/42/40	14"/18"	SS1		
55							
56							
57							
58							
59	as above. Some grayish brown silty clay and coarse gravel present. Suspected slough		31/31/30	15"/18"	SS2	OVA = 0	
60							
61							
62							
63							
64	Rust Brown Silty Clay moist med to high plasticity						

Drilling Log (continued)

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Project No.						85-141-4-001	Date	3/11/86
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks		
65	Rusty Brown clayey sand fine to medium, dense, wet.		4/8	18/18	SS3	OVA = 0 ppm		
66								
67								
68	Brown sand, fine to coarse dense, wet. With gravel pieces (layer) approx 7" layer at bp (slough)		30/53	30/18	SS4	OVA = 0 ppm		
69								
70								
71								
72	as above		30/50	18/18	SS5	OVA = 0 ppm		
73								
74								
75								
76	as above		31/43		SS6	OVA = 0 ppm		
77								
78								
79								
80								

Drilling Log (continued)

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						Date <u>3/11/86</u>
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks
82						
83						
84	as above. Brown sand, fine to coarse, mostly fine		28/36	10"/18"	SS 7	OVA = 0.5 ppm
85	with coarse pieces, wet, dense, well sorted		36			
86						
87						
88						
89	as above		29/45	12"/18"	SS 8	OVA = 0.5 ppm
90			50			
91						
92						
93						
94						
95	as above.		8/31	10"/18"	SS 9	OVA = 0 ppm
96			51			
97						

Drilling Log (continued)

						Boring No.	87
Project Name						Cessna	Page 7 of 8
Project No.						85-141-4-001	Date 3/11/86
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
99	as above Brown sand,		28/47	12"		OVA = 0 ppm	
100	fine to medium, mostly fine		72	18"	SS10		
101	v. wet, v. dense well sorted						
102							
103							
104	as above		30/53		SS11	OVA = 0	
105			64				
106							
107							
108							
109	as above		29/49	10"	SS12	OVA = 0	
110			67	18"			
111							
112							
113							
114			30/53	9"	SS13		
			65	18"			

Drilling Log, continued

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						Date <u>3/11/86</u>	
Depth	Description	Log or Class	Blow Count	Core Recov. & Loss	Box or Sample No.	Remarks	
116	Brown sand, fine to medium wet, v. dense, well sorted				SS13		
117						Encountered bedrock @ 4:50pm	
118						Reamed 4" sampling hole to TD with 6" bit	
119	as above. Thin lenses (<1") of yellow, clayey sand, fine grained		15/36/51		SS14	Set 2" ϕ PVC piezometer to 125.5' . 10' screen Gravel pack 96.0' to 125.5' Bentonite pellet seal 92.0' to 96.0' Cemented to surface. Completed cementing @ 12:00 pm	
120							
121							
122							
123							
124			17/31/27		SS15	OVA = 0ppm	
125							
126	Gray Shale, dry						
127							
128			83		SS16	OVA = 0ppm	
129	TD = 129 feet					Cleaned up and moved offsite @ 1:30pm	
130							
131							

- LEGEND**
- ▲ SHALLOW WELL (APPROX. 30-45ft.)
 - INTERMEDIATE WELL (APPROX. 75ft.)
 - DEEP WELL (APPROX. 100-120ft.)
 - PRODUCTION WELL
 - TEMPORARY BORING

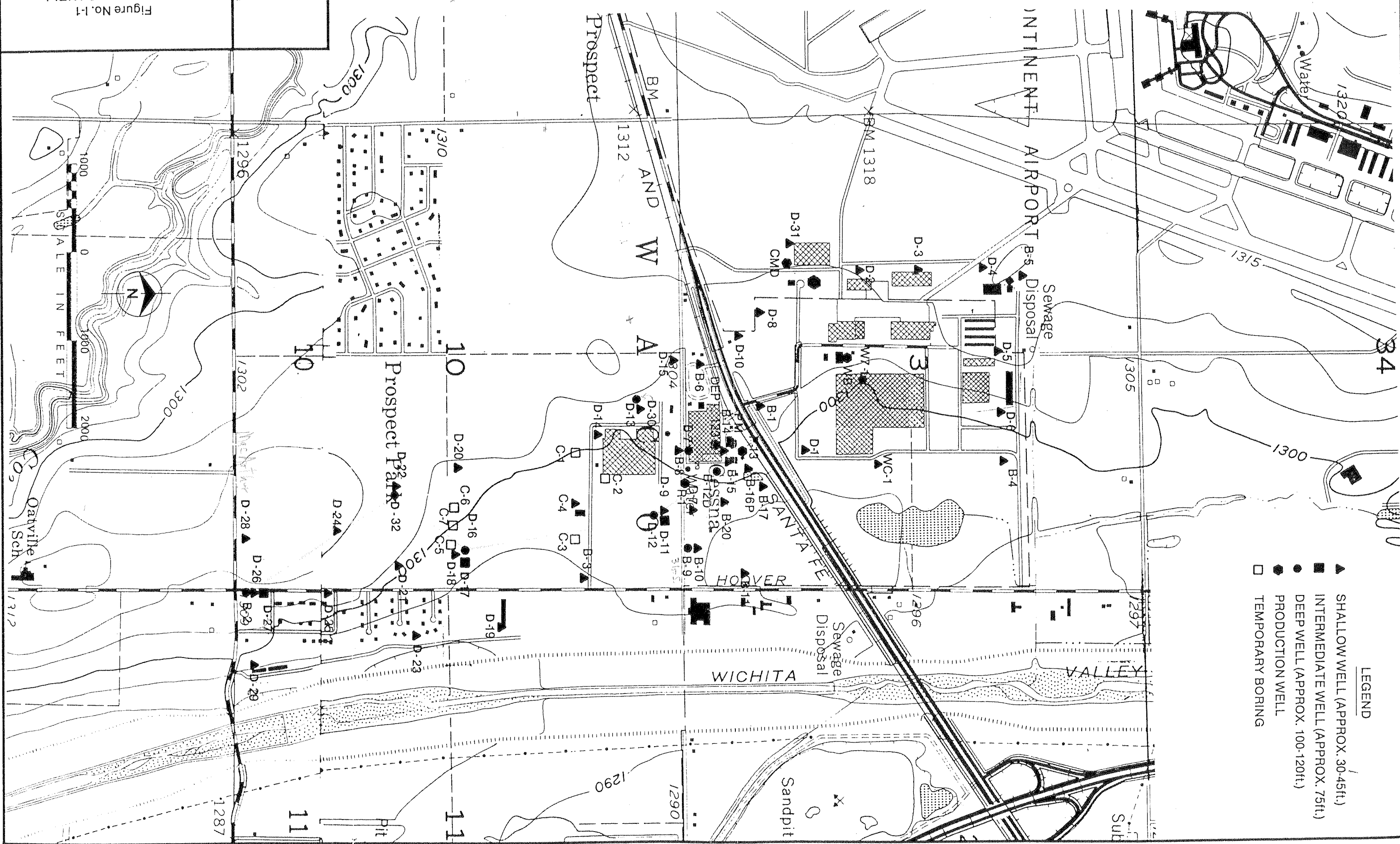


Figure No. I-1
MONITORING WELL
LOCATIONS

BURRIS & McDonnell
ENGINEERS - ARCHITECTS - CONSULTANTS