

WELL LOG NOTES

Recorded by A. C. Munyan

Title Geologist

Source of data Driller's log

29K006
16-5120

DEPTH IN FEET		KIND OF ROCK, COLOR, HARDNESS	SAMPLE NO.	REMARKS
FROM	TO			
put on 10' x 4" swage pumped cement into formation, held pressure for 24 hours.				
(4/17/39) Reamed 6 5/8" hole with 9 7/8" HRB from 970' to 986'. Put on 6 5/8" H.R.B. and drilled slowly in hard, broken formation to 1008' when started losing returns. Drilled to 1015' where all returns lost. Pulled out, pumped mud until circulation gained.				
(4/19/39). Ran open end drill pipe to bottom and placed 75 sacks cement. Pulled drill pipe, put on swage and forced cement into formation. Held pressure 36 hours.				
4/21/39				
1015	1052	Lime		
1052	1145	Hard sand, streaks of lime and gravel		
1145	1195	Hard lime and streaks hard sand		
1195	1265	Hard sand and gravel and lime streaks		
1265	1380	Gray sandy lime		
1380	1465	White lime, hard streaks sand		
1465	1510	Hard sand and flint (hard limestone)		
1510	1515	Hard brown lime streaks, flint		
1515	1578	Flint		
1578	1594	Sandy, lime,		
1594	1655	Sand lime and hard streaks		

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DEPTH IN FEET		KIND OF ROCK, COLOR, HARDNESS	SAMPLE NO.	REMARKS
FROM	TO			
0	40	Sand and clay		
40	108	Sandy shale		
108	170	Sand, green shale and boulders		
170	315	Sand and hard streaks		
315	515	Shale and streaks of sand and lime rock. Used 2 ft. and put on H.R.B. @ 510'		
515	770	Lime and shells, streaks of shale and sand.		
770	910	Lime with hard streaks		
910	965	Hard lime, streaks of shale and sand		
965	1010	Hard broken lime, started losing returns .998', mixed mud, lost returns		
1022		Pipe stuck, mixed cotton seed hulls		
1010	1023	Brown hard limestone (4/11/39).		
Pulled pipe with 9 lines after washing to top drill collar with 6 5/8" casing. Pipe broke above rotary. Then backed off 600 ft. and pulled out. Pipe badly stretched. Plugged hole and top of joints 600' depth with 15 sacks of cement. (4/13/39) Sidetracked 4" pipe at 64'. Drilled to 990', lost returns.				
(4/14/39) Mixed mud and cotton seed hulls also sawdust. Went in with open end drill pipe and maintained circulation.				
(4/16/39) Pumped 75 sacks of cement,				

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FROM	TO			
1655	1664	Hard lime		
1664	1684	Hard lime		
1684	1753	Hard lime		
1753	1860	White lime and shell, hard streaks		
1860	1863	Hard flint?		
1863	1878	Hard lime		
1878	1955	Lime and hard streaks with green sandy shale streaks		
1955	2058	Sandy shale with hard streaks		
2058	2178	Sandy shale and lime		
2178	2227	Shale and lime (Put on drag bit).		
2227	Reamed	down 5 stands with drag bit. Lost old mud came out, started back with rock bit.		
2227	2240	Sandy shale		
2240	2341	Gray sandy lime		
2341	2393	White lime and sand--cored #1 from 2384-2394--recovered 7 1/4 ft. medium soft grayish green sand		
2393	2510	Sandy shale--9 7/8" r.b.		
2510	2720	Sandy shale		
2720	2900	Sandy shale and lime streaks		
2900	2990	Shale		
2990	3020	Brown lime and shell		

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DEPTH IN FEET		KIND OF ROCK, COLOR, HARDNESS	SAMPLE NO.	REMARKS
FROM	TO			
3020	3057	Shale		
3057	3165	Sandy, shale		
3165	3186	Sandy shale--Core #2 3165-3175, no recovery; core #3, 3175-3186, full recovery of core #2 and core #3.		
3186	3273	Sandy, shale--fish-tail bit on		
3273	3314	Sandy, shale		
3328	3410	Hard, sandy, shale--Core #4, 3314'- 3328' recovered 10 ft. Rd. sandy shale		
3410	3452	Shale, sandy shale		
3452	3475	Soft sandy shale		
3475	3495	Hard shale		
3495	3513	Sandy shale, hard streaks. Core #5, 3495-3507; recovered 12 ft, sandy shale.		
3513	3575	?		
3575	3675	Shale and streaks of lime		
3675	3891	Sandy, shale with hard streaks		
3891	3903	Hard sand and lime		
3903	4090	Sandy shale and lime		
4090	4175	Shale with hard streaks, lime		
4175	4206	Hard shale		
4206	4211	Sandy shale		
4211	4241	Sand and shale		

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DEPTH IN FEET		KIND OF ROCK, COLOR, HARDNESS	SAMPLE NO.	REMARKS
FROM	TO			
4241	4311	Hard dark, shale		
4311	4345	Hard dark shale		
4345	4355	Granite arkose at top--hard granite at base		
4355	Total Depth.			

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DEPTH IN FEET		KIND OF ROCK, COLOR, HARDNESS	SAMPLE NO.	REMARKS
FROM	TO			
		CORES		
#1	(4/29/39) Depth 2384'-2393'			
	Hughes sift head core bit 20 ft. barrel/			
	recovered 7'-3" of greenish gray sand.			
	No oil apparent nor color in ether solvent.			
	May have been a little gas, but probably was			
	air in drill stem.			
#2	(5/1/39) Depth 3165'- 3175'			
	Hughes soft head bit and barrell as above.			
	Cutting time--23 minutes.			
	No recovery			
#3	(5/1/39) Depth 3175'- 3186'			
	Bit as above. Recovered all of #2 and also #3			
	together - full recovery			
	greenish gray sandy shale			
#4	(5/2/39) Depth 3314'- 3328'			
	Bit as above-cutting time 55 minutes.			
	Recovered 10 ft. of marly, sandy shale			

