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Petroleum Geologist

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Geologist's Report
Drilling Time and Sample Log

OPERATOR Murfin Drilling Co., Inc
LEASE Soil
FIELD Wilcat
LOCATION 1700' FSL & 1215' FEL
SEC. 17
COUNTY Thomas
STATE Kansas

WELL NO #1-17
ELEVATION KB 3237

RTD 4875
SAMPLES SAVED FROM 3800
DRILLING TIME KEP FROM 3800
SAMPLES EXAMINED FROM 3800
GEOLOGICAL SUPERVISION FROM 3815
MUD UP 3600
TYPE MUD Chemical

COMPRESSOR Mufin Drig Co Rig #2
COMM 8/8/2011
LOG TD 4874
TO TD TO TD
TO TD TO TD
TO TD TO TD
TO TD TO TD

STRUCTURE
8 5/8" x 268' KB w/ 195x
PRODUCTION
None

CASING RECORD
8 5/8" x 268' KB w/ 195x

ELECTRICAL SURVEYS
Log-Tech
DIL
MEL
CNL/CDL BHCS

REMARKS AND RECOMMENDATIONS:
Based upon log analysis, DST recovery, and sample examination, it was recommended that the #1-17 Soil be plugged and abandoned.

Lithology

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LEGEND

Anhydrite

Salt

Sandstone

Shale

Carb Shale

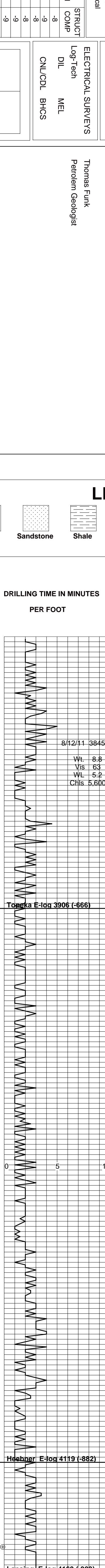
Limestone

Ool Limestone

Chert

Dolomite

Depth



Lithology	Depth	Sample Descriptions		Remarks
		Per Foot	Total	
Anhydrite	3800	LS, crm-It tn, f-xln, v chalky in prt, sm foss frags		
Anhydrite	3810	Sh, gry, md-sft, silty		
Anhydrite	3820	LS, It gry, dns, f-xln, mott, tr foss		
Anhydrite	3830	Sh, gry, rd, sft		
Anhydrite	3840	LS, It gry, dns, v-f-xln, mott in prt, trc foss		
Anhydrite	3850	LS, AA bec drk gry, dns, micro-xln, argill		
Anhydrite	3860	Sh, drk gry, md-slt		
Anhydrite	3870	LS, crm, f-xln, chalky, tr ool, foss, pr vis por		
Anhydrite	3880	Sh, gry & tn, sft		
Anhydrite	3890	LS, tn, f-xln, foss, gran in prt, dolo, sm chalky		
Anhydrite	3900	LS, It gry, dns, mott, argill in prt		
Anhydrite	3910	LS, tn-It gry, f to md-xln, tr foss, sm v chalky		
Anhydrite	3920	Sh, gry & blk, waxy		
Anhydrite	3930	LS, crm, f-xln, gran, tr ool, chalky in prt, pr vis por, NS		
Anhydrite	3940	Sh, tn, gry, and marr, v sft		
Anhydrite	3950	LS, crm-wht, f-xln, col in prt, chalky, sct moldic por, NS		
Anhydrite	3960	LS, AA bec It gry, dns, mott, tr ool		
Anhydrite	3970	LS, tn, f-xln, dns, foss, pr vis fossmold por, NS		
Anhydrite	3980	LS, crm-in, f-xln, chalky, foss frags, tr ool, pr vis por		
Anhydrite	3990	Sh, gry, sft		
Anhydrite	4000	Slstrn, gry, v-f-gm, mica, sft		
Anhydrite	4010	Sh, gry		
Anhydrite	4020	LS, tn, dns, f-xln, foss in prt, mott		
Anhydrite	4030	Sh, gry & tn		
Anhydrite	4040	LS, crm-in, f-xln, cthy in prt, sct foss		
Anhydrite	4050	Sh, blk		
Anhydrite	4060	LS, crm, f-xln, ool, sm chalky, sct micro-moldic por, NS		
Anhydrite	4070	Sh, gry, md-sft, sm sdy to silty		
Anhydrite	4080	LS, tn, f to md-xln, tr foss, pr int-xln por, NS		
Anhydrite	4090	LS, crm-gry, f-xln, mott, tr foss, sft		
Anhydrite	4100	Sh, blk, carb		
Anhydrite	4110	Sh, gry, tn, brn, md-grd		
Anhydrite	4120	Sh, AA		
Anhydrite	4130	LS, crm-wht, f-xln, col in prt, sm chalky, brittle, pr vis int-oil por, NSFO, no odor, sct blk stn		
Anhydrite	4140	Sh, gry, md-sft, sm sdy to silty		
Anhydrite	4150	LS, tn, f-xln, dns, foss, pr vis por, NS		
Anhydrite	4160	Sh, tn & gry		
Anhydrite	4170	LS, crm, f-xln, ool, in prt, brittle, pr vis int-part pr, NS		
Anhydrite	4180	Sh, It gry, md-sft		
Anhydrite	4190	LS, tn, dns, v-f-xln, blocky, chty in prt, mott, no vis por, NS		
Anhydrite	4200	LS, It tn, f-xln, foss, in prt, dns, pr vis por, NS		
Anhydrite	4210	Sh, blk		
Anhydrite	4220	Dolo, crm-tn, f-xln, gran/suc, fr int-xln por, NS		
Anhydrite	4230	Dolo, AA		
Anhydrite	4240	LS, tn, dns, v-f-xln, tr foss frags, hrd		
Anhydrite	4250	LS, crm, f-xln, ool in prt, sm chalky, pr vis int-oil por, NSFO, no odor, sct blk stn		
Anhydrite	4260	Sh, gry		
Anhydrite	4270	LS, crm, f-xln, ool in prt, v chalky, sft, bec gry, mott		
Anhydrite	4280	LS, crm, f-xln, ool in prt, chalky, sft, pr vis por, NS		
Anhydrite	4290	LS, gry, dns, micro-xln, hrd, mott, tr foss		
Anhydrite	4300	Sh, blk, carb		DST #1 4295-4386
Anhydrite	4310	LS, gry, dn, carb		30'-45'-60'-90'
Anhydrite	4320	Sh, gry & blk		1/2 deg @ 268'
Anhydrite	4330	LS, crm-in, f-xln, ool in prt, sm chalky, sct int-oil por, VSSFO, ft odor, pr vis stn		1/4 deg @ 4386'
Anhydrite	4340	LS, tn, dns, v-f-xln, tr foss		1 deg @ 4875'
Anhydrite	4350	Sh, blk, fiss		
Anhydrite	4360	LS, crm, f-xln, chalky, sct foss, tr ool, pr vis int-oil por, NSFO, no odor, pr vis stn		
Anhydrite	4370	Sh, It gry		
Anhydrite	4380	Sh, gry, tn, and brn, sft		
Anhydrite	4390	LS, crm-in, f-xln, dns, foss in prt, pr vis por, NS		
Anhydrite	4400	Sh, blk, carb		
Anhydrite	4410	Sh, gry, dn, carb		
Anhydrite	4420	Sh, AA		
Anhydrite	4430	LS, crm-wht, f-xln, col in prt, sm chalky, brittle, pr vis int-oil por, NS		
Anhydrite	4440	Sh, tn & gry		
Anhydrite	4450	LS, crm, f-xln, ool in prt, sm chalky, sct int-oil por, NSFO, no odor, sct blk stn		
Anhydrite	4460	Sh, blk, carb		
Anhydrite	4470	Sh, gry, tn, brn, md-grd		
Anhydrite	4480	Sh, AA		
Anhydrite	4490	LS, crm-wht, f-xln, col in prt, sm chalky, brittle, pr vis int-oil por, NS		
Anhydrite	4500	Sh, tn & gry		
Anhydrite	4510	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4520	Sh, blk		
Anhydrite	4530	Dolo, crm-tn, f-xln, gran/suc, fr int-xln por, NS		
Anhydrite	4540	Dolo, AA		
Anhydrite	4550	LS, tn, dns, v-f-xln, tr foss frags, hrd		
Anhydrite	4560	Sh, blk, carb		
Anhydrite	4570	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4580	Sh, blk, fiss		
Anhydrite	4590	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4600	Sh, blk, carb		
Anhydrite	4610	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4620	Sh, blk, carb		
Anhydrite	4630	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4640	Sh, blk, carb		
Anhydrite	4650	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4660	Sh, blk, carb		
Anhydrite	4670	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4680	Sh, blk, carb		
Anhydrite	4690	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4700	Sh, blk, carb		
Anhydrite	4710	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4720	Sh, blk, carb		
Anhydrite	4730	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4740	Sh, blk, carb		
Anhydrite	4750	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4760	Sh, blk, carb		
Anhydrite	4770	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4780	Sh, blk, carb		
Anhydrite	4790	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4800	Sh, blk, carb		
Anhydrite	4810	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4820	Sh, blk, carb		
Anhydrite	4830	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4840	Sh, blk, carb		
Anhydrite	4850	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4860	Sh, blk, carb		
Anhydrite	4870	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4880	Sh, blk, carb		
Anhydrite	4890	LS, crm, f-xln, dns, v-f-xln, tr foss, chty in prt, mott, no vis por, NS		
Anhydrite	4900	Sh, blk, carb		