API #15-023-21526

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR:	Ritchie Exploration, Inc.	CONTRACTOR:	Duke Drilling Co.
LEASE:	Hall "D"	ELEVATION:	KB: 3397'
LOCATION:	1980' FSL & FEL	SPUD:	07/26/09
		COMPLETION:	08/02/09
		TOTAL DEPTH:	5100'
CONTRACTOR:	Duke	COUNTY:	Kearny
SPUD:	07/26/09	STATE:	Kansas
COMP.:	08/02/09	SURFACE CASING:	8 5/8" @ 1775'
TOTAL DEPTH:	5100'	PRODUCTION CASING:	None
MUD UP:	3350' - THE MUD COMPANY		
CASING:	8 5/8" @ 1775'		
	5 1/2" @ 5100'		
ELECTRICAL SURVEY:	DUAL COMPENSATED POROSITY		
GEOLOGICAL SUPERVISION FROM:	3350' - 5100'		
DRILLING TIME & SAMPLE LOG:	3350' - 5100'		
DST'S:	5		
CORES:	NONE		
DRILL STEM TEST PRESSURES:	NONE		
CHECKED BY:	CHRIS MUNSON		

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Gr - Dual	
Density/Neutron/Sonic/Micro/Dip/Caliper	
Resistivity/Spontaneous Potential	
Gamma Ray	
Mud Logging	
Petroleum Geology	
Well Site Geology	

REMARKS: Due to poor shows of oil in multiple potential pay zones and negative DST results, it is recommended and agreed upon by all parties that this well be plugged and abandoned.

Respectfully Submitted,

Saman Sharifaie
Petroleum Geologist

*Trips have been adjusted to electric logs

Curve Track 1
BIT (depth)

Curve Track 1
BIT (depth)
Gamma (API)
Caliper (inches)

Depth	Formation	Geological Descriptions	Engineering Data
BIT (ft)	Anhydrite	**Anhydrite 3281 (+108)** **Base 3311 (+78)**	
500	Topeka 4007 (-608)	**DAILY PENETRATION** **@ 1100-1400** **07/24/10 - Spudded at 2:30 PM** **07/25/10 - DOC at 30'** **07/26/10 - Drilling at 322'** **07/27/10 - Drilling at 1000'** **07/28/10 - Drilling at 2000'** **07/29/10 - Drilling at 3000'** **07/30/10 - Drilling at 4000'** **07/31/10 - Testing at 4300'** **07/01/10 - Testing at 4300'** **08/01/10 - Drilling at 5000'** **08/02/10 - Drilling at 5100'** - No gypsum, dip angle, pyrite - Lime with gray tint, trace of pin hole and fossiliferous porosity, trace of fine crystalline porosity, trace of dark brown stain, very slow cut, fair odor, trace of free oil, NSFO - Trace of fossiliferous porosity, no stain, no odor, no free oil, NSFO - Trace of fossiliferous porosity, no stain, no odor, no free oil, NSFO - Lime, white, off-white, trace of fine crystalline porosity, no stain, no odor, no free oil, NSFO - Lime, white, off-white, trace of fossiliferous