

Jeff Christian

PETROLEUM GEOLOGIST
Wichita, Kansas

OPERATOR MUFN DRILLING COMPANY		GEOLOGISTS REPORT	
LEADER MARABEL # 4		DRILLING TIME AND SAMPLE LOG	
LOCATION 1100 F&E 1 1000' FEL		ELEVATIONS REL 2994' E Log 2993'	
SEC. 4	TWP. 21 S	RNG. 34 W	INDEPENDENT FORMER
COUNTY FINNEY	STATE KANSAS	CASING RECORD Condition: NONE	
FIELD WILDCAT	API 15-05-22179	CONTRACTOR COMPANY TOOLS	NO. 21
DATE 09/28/2012	DATE 09/28/2012	COMPLETION 09/28/2012	W/L/55 SK 1/2 @ 4889'
DRILLING STARTED 09/28/2012	COMPLETED 09/28/2012	W/L/55 SK 1/2 @ 4889'	W/L/55 SK 1/2 @ 4889'
DRILLING TIME KEPT FROM 3445'	MUD TYPE CHEMICAL	DRILLING TIME KEPT FROM 3445'	DRILLING TIME KEPT FROM 3445'
SAMPLES SAVED FROM 3445'	TO R/D LOGICAL SUPERVISION FROM 3470'	SAMPLES SAVED FROM 3445'	TO R/D LOGICAL SUPERVISION FROM 3470'
FORMATION NAME TOP	LOGS DATE	SAMPLES DATE	DATE DATE
BASE ANHYDRITE 2124'	TOPEKA 3546'	HEEBNER 3830'	TORONTO 3846'
LANSING 3872'	STARK 4194'	CHEROKEE 4356'	MORROW SH. 4680'
MARMATON 4356'	STARK 4194'	CHEROKEE 4356'	MORROW SH. 4680'
STARK 4194'	CHEROKEE 4356'	MORROW SH. 4680'	ST. LOUIS 4736'
CHEROKEE 4356'	MORROW SH. 4680'	ST. LOUIS 4736'	RTD 4900' 4900'
MORROW SH. 4680'	ST. LOUIS 4736'	RTD 4900' 4900'	

DATE	7:00 AM DEPTH	REMARKS
9/15/12	MIRT	SPUD 5:00 pm
9/16/12	470'	DRLG. dev. 3/4 deg. @ 230'
9/17/12	2593'	DRLG.
9/18/12	3700'	DRLG.
9/19/12	4153'	CFS dev. 1 deg. @ 4153'
9/20/12	4205'	OB w/ DST # 2
9/21/12	4380'	OB w/ DST # 3
9/22/12	4430'	TOH with DST # 4
9/23/12	4483'	TOH after DST # 5 dev. 1 deg. @ 4483'
9/24/12	4614'	DRLG.
9/25/12	4774'	DRLG. RTD 4900' @ 3:36 pm dev. 3/4 deg. @ 4900'

Remarks

5 1/2" production casing set to further test the Lansing / Kansas City and Marmaton formations.

Electric log measurements correlate about even compared to rotary measurements.
Sample tops adjusted to the electric log.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,
Jeff Christian
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