

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR: MURETIN DRILLING COMPANY
 LEASE: HILGER TRUST # 1-32
 LOCATION: 1460' FWL & 1950' FWL

SEC: 32 TWP: 30 S RANG: 3 W
 COUNTY: SUMNER STATE: KANSAS
 FIELD: CONWAY WEST

API: 15-191-22641
 CONTRACTOR: MAVERICK DRILLING
 DRILLING STARTED: 02-01-2012
 MUD DISPLACED: 29.60 MUD TYPE: CHEMICAL
 DRILLING TIME KEPT FROM: 2800 TO RTD
 SAMPLES SAVED FROM: 2800 TO RTD
 SAMPLES EXAMINED FROM: 2874 TO RTD
 GEOLOGICAL SUPERVISION FROM: 2874 TO RTD

Surface: B. 8.8' @ 342'
 W/ 190 SX
 Production: NONE

Operator: NONE
 CASING RECORD

ELEVATIONS
 RB: 1383'
 GL: 1374'

FORMATION	LOG	SAMPLE	MEI	
NAME	TOP	DATUM	TOP	DATUM
STALNAKER	3013' (-1630)	3015'	(1632)	
KANSAS CITY	3294'	(1911)	3296'	(1630)
STARKE	3482'	(1603)	3485'	(1602)
BK	3504'	(1613)	3506'	(1613)
CHEROKEE	3762'	(1579)	3766'	(1583)
MISSEDSTEPHAN	3914'	(1531)	3919'	(1526)
KINDERHOOK	4250'	(1187)	4254'	(1182)
SIMPSON SAND	4388'	(1049)	4332'	(1294)
TOTAL DEPTH	4413'	(-3030)	4415'	(-3032)

DATE	7:00 AM DEPTH	REMARKS
4/1/12	0	MIRT
4/2/12	0	SPUD 10:15 am
2/3/12	268'	WOC dev. 3/4 deg.
2/4/12	1540'	DRLG.
2/5/12	2874'	Work on MUD PUMP
2/6/12	3320'	TIH for DST #1 dev. 1/4 deg.
2/7/12	3446'	DST # 2
2/8/12	3750'	DRLG.
2/9/12	3973'	DST # 3
2/10/12	4334'	TOH for DST # 4
2/11/12	4415'	LOGGING RTD 4415' @ 1:30 am dev. 1 1/4 deg.

Remarks

The Hilger Trust # 1-32 was declared dry and abandoned. See Report.

Electric log measurements correlate about 2' to 4' high 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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