

Jeff Christian
PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR: MURKIN DRILLING COMPANY
LEASE: MEYER # 1-8
LOCATION: 2310' FSI & 1200' FWL
ELEVATIONS: KB 1920'
GL 1915'

SEC. 8 TWP. 10 S RANG. 14 W
COUNTY OSBORNE STATE KANSAS
FIELD KINGS
API 15-141-20466
CONTRACTOR COMPANY TOOLS RIG NO. 24
DRILLING STARTED 07/29/2014 COMPLETED 08/05/2014
MUD DISPLACED 2828' MUD TYPE CHEMICAL
DRILLING TIME KEPT FROM 2720' TO RTD
SAMPLES SAVED FROM 2720' TO RTD
SAMPLES EXAMINED FROM 2720' TO RTD
GEOLOGICAL SUPERVISION FROM 2780' TO RTD

MEASUREMENTS FROM KB
CASING RECORD
CONDUCTOR NONE
Surface 8.5/8" @ 220'
W/ 1.65 SX
Production NONE

ELECTRICAL SURVEYS:
TO DIL
TO RTD
CML/DLI

FORMATION NAME LOG SAMPLE DATE
TOP DATUM TOP DATUM
ANHYDRITE 1138' (-782) 1141' (-779)
TOPEKA 2832' (-912) 2835' (-915)
HEEBNER 3079' (-1159) 3083' (-1163)
LANSING 3130' (-1210) 3134' (-1214)
BKC 3398' (-1478) 3402' (-1482)
CHEROKEE 3508' (-1588) 3512' (-1592)
VIOLA 3889' (-1669) 3617' (-1660)
SIMPSON 3889' (-1669) 3617' (-1660)
ARBUCKLE 3636' (-1716) 3654' (-1734)
TOTAL DEPTH 3716' (-1796) 3719' (-1799)

DATE	7:00 AM DEPTH	REMARKS
7/29/14	MIRT	SPUD 3:45 pm
7/30/14	305'	DRLG. dev. 3/4 deg. @ 220'
7/31/14	2000'	DRLG.
8/1/14	2880'	CFS
8/2/14	2880'	TIH after DST # 2
8/3/14	3145'	DRLG.
8/4/14	3300'	DRLG.
8/5/14	3719'	TOH for Log. RTD 3719' @ 3:15 am. Dev. 1 deg. Hit Bridge @ 3190'. Recondition hole. Finish Logging @

Remarks
The Meyer # 1-8 was declared dry and abandoned. All sample shows of oil were drill stem tested and condemned.
Ground level elevation raised 1' while making location, per tool pusher.
Electric log measurements correlate about 3' to 4' high compared to rotary measurements.
Samples deposited at the Kansas Geological Survey.
Respectfully Submitted,
Jeff Christian
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LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH (M)	SAMPLE DESCRIPTIONS	REMARKS
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