

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR **MURFIN DRILLING COMPANY**
 LEASE **HAMIT #1-20**
 LOCATION **930' FSL & 330' FWL**

SEC. **20** TWP. **6 S** RANG. **19 W**
 COUNTY **ROOKS** STATE **KANSAS**
 FIELD _____
 API **15-163-24329-00-00**

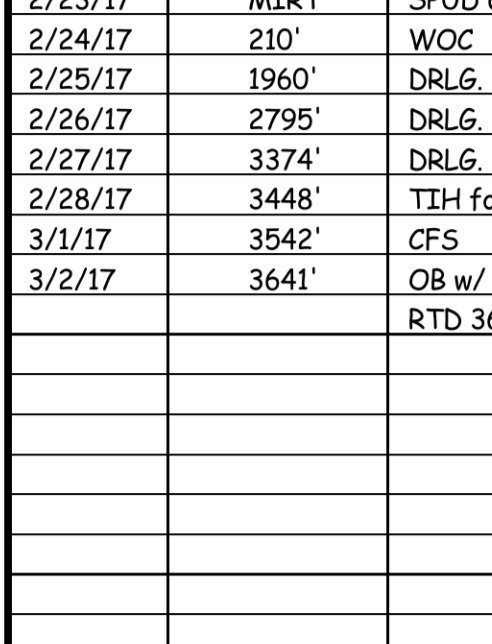
CONTRACTOR **COMPANY TOOLS** RIG NO. **24**
 DRILLING STARTED **02/23/2017** COMPLETED **02/03/2017**
 MUD DISPLACED **2812** MUD TYPE **CHEMICAL**
 DRILLING TIME KEPT FROM **3000'** TO RTD
 SAMPLES SAVED FROM **3020'** TO RTD
 SAMPLES EXAMINED FROM **3020'** TO RTD
 GEOLOGICAL SUPERVISION FROM **3000'** TO RTD

FORMATION NAME	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM
ANHYDRITE	1706'	(+428)	1707'	(+427)
TOPEKA	3123'	(-989)	3124'	(-990)
HEEBNER	3321'	(-1187)	3322'	(-1188)
TORONTO	3343'	(-1209)	3344'	(-1210)
LANSING	3357'	(-1223)	3358'	(-1224)
ROUND CITY (BKC)	3571'	(-1437)	3573'	(-1439)
REAGAN SAND	3629'	(-1495)	3630'	(-1496)
GRANITE WASH	3642'	(-1508)	3646'	(-1512)
GRANITE	3665'	(-1531)	3666'	(-1532)
TOTAL DEPTH	3673'	(-1539)	3675'	(-1541)

ELEVATIONS
 KB **2134'**
 GIL **2129'**

MEASUREMENTS FROM KB
 CASING RECORD
 Conductor **NONE**

ELECTRICAL SURVEYS:
 PIONEER:
 DII
 CNL/CDL
 MEL
 BHCs



DATE	7:00 AM DEPTH	REMARKS
2/23/17	MIRT	SPUD 6:45 pm
2/24/17	210'	WOC dev. 3/4 deg.
2/25/17	1960'	DRLG.
2/26/17	2795'	DRLG.
2/27/17	3374'	DRLG.
2/28/17	3448'	TIH for DST # 2 dev. 1 3/4 deg. @ 3410'
3/1/17	3542'	CFS
3/2/17	3641'	OB w/ DST # 5
		RTD 3675' @ 4:00 pm Finished logging @ 3:00 am 3/3/17 dev. 1 3/4 deg.

Remarks

5 1/2" production casing set to further test the Reagan sand formation.

Electric log measurements correlate about 1' to 2' high compared to rotary measurements.

Drilling samples deposited at the Kansas Geological Survey.

Respectfully Submitted,
Jeff Christian
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LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH	50'	SAMPLE DESCRIPTIONS	REMARKS
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