GEOLOGICAL REPORT

DRILLING TIME & SAMPLE DESCRIPTION

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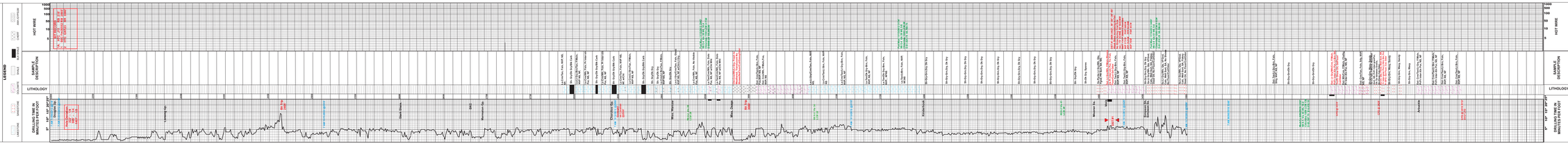
GEOLOGIST
LICENSE NO. 1585
400

REPORT PREPARED BY: DOUGLAS V. DAVIS JR.

OPERATOR	TREK AEC LLC	ELEVATION	
LEASE	Lawrence #1-17 API # 15-113-21335-0000	K.B.	1587
FIELD	Rita Carolan		
LOCATION	330' FNL 990' FEL	G.L.	1582
SEC. 17	TWNSP. 20S RANGE 1W	DEPTH MEASURED FROM KB	
COUNTY	McPherson STATE Kansas		
CONTRACTOR	C&S Drilling Rig #1	Surface Casing:	20# @ 216' w/100 sx
SPUD	11/07/2012 COMP. 11/14/2012		
TTD 3992'	RTD 3992' MUD UP	Production Casing:	5-1/2"
SAMPLE SAVED FROM	2600' TO RTD	E-LOGS:	DILLOG/CDL
DRILLING TIME FROM	2200' TO RTD		

FORMATION	SAMPLE	ELOG	DATUM
LANSING	2616	2614	-1027
BASE LANSING	3043	3041	-1454
MARMATON	3123	3123	-1536
PAWNEE	3224	3223	-1636
FORT SCOTT	3284	3283	-1696
CHEROKEE	3312	3311	-1724
MISSISSIPPI	3390	3389	-1802
CHESTER	3575	3574	-1987
VIOLA	3677	3676	-2089
SIMPSON	3723	3722	-2135
ARBUCKLE	3792	3791	-2204
RTD	3992		

REFERENCE WELL
1. Cherokee Operating - #3 Sundgren(nw - 4mi SE-SE - T1-13S - R1w)
2. Direct Petroleum #3 Jacobs (400-600'SE - T1-13S - R1w)

REMARKS: 5-1/2 CSG SET @ 3991' W/ 100 SXS 60/40 POZ 6% GEL 1/4# FLOCELE. PLUG DOWN @ 1:30 AM 11/14/12 WITH 500# OVER PSI. CIRC 30 BBLS CEMENT TO PIT. SHUT IN 2 HRS. RELEASED RIG @ 3:30 AM 11/14/12

DST: DST #1 (3670-3723) 30-45-60-45 IF: BOB IN 2 MIN. FF: BOB IN 5 MIN. ISI: 1,116 FSI: 1,116 IFP: 42-42 FFP: 42-42 BHT: 114 DEG