API #15-153-20507

Saman Sharifaie
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR	Mull Drilling Company, Inc.
LEASE	Bohm Hartman U-2A
LOCATION	NE - NE - NW - NW
CONTRACTOR	Duke Drilling Co. Rig #7
SPUD	08/30/14
COMPLETION	09/14/14
PBTD	4747'
ELEVATION	KB 3337' DF 3335' GL 3327'
CASING	Surface: 8 5/8" @ 1031' w/ 350 sks Production: 5 1/2" @ 4747' w/ 175 sks
ELECTRICAL SURVEYS	Dual Induction, Compensated Neutron, Density, Microlog
Drilling Time and Samples Taken	3500' to RTD
GEOLOGIST	Saman Sharifaie
TOTAL DEPTH	4747'
DATE COMPLETED	09/14/14
EXPLORATORY PROSPECT	Mull Drilling Co. Bohm Hartman U-2A
GEOLOGICAL SUPERVISION FROM	3500'
DRILLING TIME AND SAMPLES FROM	3500'
DRILLING TIME AND SAMPLES TO	RTD
GEOLOGICAL SUPERVISION TO	RTD

Formations	Sample Tops	K-Bug Tops	Log Tops
Anhydrite	2601 (+462)		
Base	2630 (+434)		
Topeka	3688 (-351)		
Heebner	3910 (-573)		
Toronto	3932 (-595)		
Lansing-Kansas City	3952 (-615)		
Stark Shale	4297 (-960)		
Marmaton	4320 (-983)		
Pawnee	4475 (-1138)		
Myrick Station	4522 (-1185)		
Fort Scott	4547 (-1210)		
Cherokee	4571 (-1234)		
Johnson	4665 (-1328)		
Mississippian	4698 (-1361)		
RTD	4748 (-1410)		
LTD			

Curve Track 1
BIT (feet)
Gamma (API)
Caliper (inches)

Curve Track 2
BIT (feet)
Gamma (API)
Caliper (inches)

Depth | Lithology | Geological Descriptions | Engineering Data

Anhydrite 2601 (+462)

Base 2630 (+434)

DAILY PENETRATION
02:00 AM
08/04/14 - Spudded at 10:00 AM
08/05/14 - Drilling at 1031'
08/06/14 - Drilling at 2580'
08/07/14 - Drilling at 3450'
08/08/14 - Drilling at 3800'
08/09/14 - Drilling at 4245'
08/10/14 - Drilling at 4350'
08/11/14 - Drilling at 4547'
08/12/14 - Logging at 4748'

Mud-Co @ 3530'
Wt: 9.2
Vis: 52
Wl: 5.4
Chl: 1,000
LCM: 1#

Lsm, tan, dm-lt brn, frsh xln lsm Colo pos, pr vsy, fair int vug, calc ill cleavg to dolo, sm