



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

Geologist on Well: Alex Chapin
 LEASE: Lohrey A-1-4
 FIELD: KG 2062
 ELEVATIONS: KB 2062
 DF: _____
 LOCATION: 1440' ESt & 950' F.W.L.
 SEC: 4 TWP: 11S. RGE: 18W
 COUNTY: Ellis STATE: KANSAS
 SFC: _____ GL: 2055
 MEASUREMENTS ARE ALL FROM KELLY BUSHING
 CONTRACTOR: American Eagle Rig #2
 SPUD: 10/14/2014 COMP: 10/23/2014
 CASING: _____

RTD: 3637 LTD: 3637
 MUD UP: 3000 TYPE MUD CHEMICAL CONDUCTOR: _____
 SAMPLES SAVED FROM: 3000 TO RTD SURFACE 8-5/8" @ 256'
 DRILLING TIME KEPT FROM: 2800 TO RTD PRODUCTION 5-1/2" @ 3631
 SAMPLES EXAMINED FROM: 2800 TO RTD ELECTRICAL SURVEYS
 GEOLOGICAL SUPERVISION FROM: 2800 DIL. DUCT MICRO. SONIC
 REFERENCE WELL: Meade #34-604, Sec. 4-11S-18W

Formation	Sample Tops	E-log Tops	Struct. Pos.
Anhydrite	1384' (+678)	1378' (+684)	+11
Base Anhydrite	1416' (+646)	1410' (+652)	+12
Topeka	3034' (+972)	3034' (+972)	+17
Heebner	3254' (+1192)	3255' (+1193)	+15
Lansing	3298' (+1236)	3296' (+1234)	+17
BKC	3537' (+1455)	3535' (+1453)	+18
Arbuckle	3629' (+1567)	3629' (+1567)	+17
RTD	3637' (+1575)	3637' (+1575)	+17

REMARKS: Due to our positive structural position to our reference well and our positive structural position regionally, also with our positive drill stem test in the Arbuckle zone, it was decided to run 8-5/8" production pipe.

Sincerely,
 Alex Chapin

LEGEND

