

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
38.78193631
100.020864568

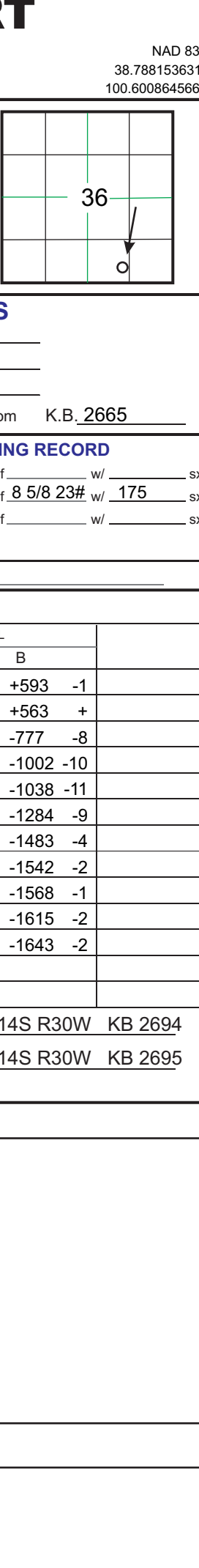
COMPANY & WELL: **Murfin Drilling Co. Lundgren #3-36**
LOCATION: **500' FSL 1400' FEL NE SE SW SE**
SEC: **36** TWP: **14S** RGE: **30W**
COUNTY: **Gove** STATE: **Ks**

COMPANY: **Murfin Drilling Company, Inc.**
API #: **15-063-22221** FIELD: **#3-36**
LEASE: **Lundgren**
LOCATION: **NE SE SW SE**
SURVEY: **500' FSL 1400' FEL**
SECTION: **36** TWP: **14S** RGE: **30W**
COUNTY: **Gove** STATE: **Kansas**

CONTRACTOR: **Murfin Drilling Company, Inc. Reg # 21**
SPUD: **3:15 pm 10-08-14** COMP: **ELEVATIONS**
RTD: **10:40am 10-16-14** LTD: **4439** K.B.: **2665**
MUD UP AT: **3200** D.F.: **2654**
MUD TYPE: **Chemical, Morgan Mud** All measurements from: **K.B. 2665**

SAMPLES SAVED: FROM 3400 TO RTD
DRILLING TIME: FROM 3400 TO RTD
SAMPLES EXAMINED: FROM 3400 TO RTD
GEOLOGICAL SUPERVISION: BY LARRY A. NICHOLSON
WELL SITE GEOLOGIST: **LARRY A. NICHOLSON**

ELEVATIONS
K.B.: **2665**
D.F.: **2654**
G.L.: **2654**
All measurements from: **K.B. 2665**



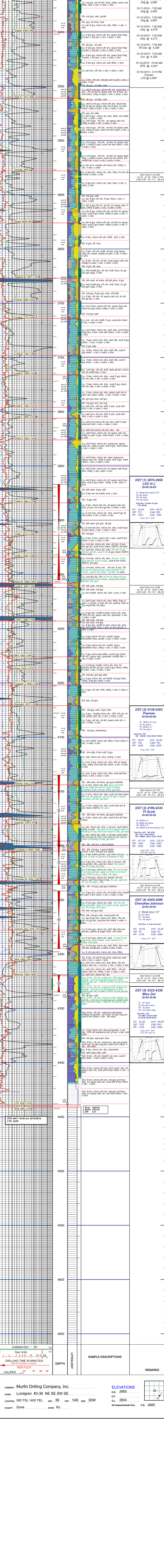
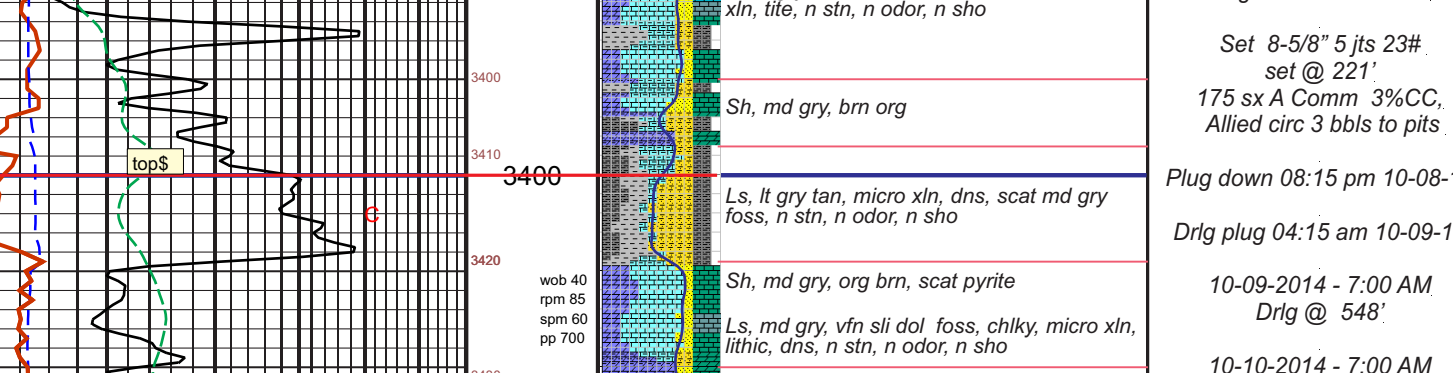
FORMATION	DEPTH TO TOP	SURFACE DATUM	ELEC LOG TO TOP	SURFACE DATUM	REFERENCE WELL					
Anhydrite	2671	+594	2071	+594	2096	+598	-4	2102	+593	-1
Bu/Anhydrite	2102	+593	2102	+593	2127	+567	-4	2132	+563	-4
Topoka	3450	-785	3450	-785	3470	-778	-9	3472	-777	-8
Heebner Sh	3677	-1012	3677	-1012	3696	-1002	-10	3697	-1002	-10
Lansing	3714	-1049	3714	-1049	3732	-1038	-11	3733	-1038	-11
Stark Sh	3958	-1293	3958	-1293	3980	-1286	-7	3979	-1284	-9
Pawnee	4144	-1479	4144	-1479	4170	-1476	-3	4178	-1483	-4
Fort Scott Ls	4205	-1540	4205	-1540	4235	-1541	+1	4237	-1542	-2
Cherokee Sh	4232	-1567	4232	-1567	4262	-1568	+1	4263	-1568	-1
Johnson Zone	4278	-1613	4278	-1613	4309	-1615	+2	4310	-1615	-2
Miss	4306	-1641	4306	-1641	4339	-1636	-5	4338	-1643	-2
RTD	4441	-1774	4441	-1774	4450			4450		
LTD	4439	-1776	4439	-1774	4448			4448		

REFERENCE WELLS: **A: Murfin Drilling Company Lundgren #1-36, 1805' FSL 330' FEL, Sec 36 T14S R30W KB 2694**
B: Murfin Drilling Company Lundgren #2-36, 1215' FSL 665' FEL, Sec 36 T14S R30W KB 2685

REMARKS & RECOMMENDATIONS:
Based on dst results and sample shows 5/2 csq was set.
NOTE: ROP, DSTs, Circ, Conn, Lag, Shows have been move 3 ft up to match Elog depth. Depth error in collar measurement.

LAN 762, Modified 5/05, 11/11, 4/12 Hanover, KS 66845 1inch = 25.4mm 8.5 x 97.5 216 mm x 2460 mm

LEGEND



COMPANY: **Murfin Drilling Company, Inc.** ELEVATIONS: **2665**
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COUNTY: **Gove** STATE: **Ks** All measurements from: **K.B. 2665**

