



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 Hays, KS 67601

Lease: Morgenstern A #1 Location: 990 FNL - 1270 FWL
E/2-SE-NW-NW
Section 13/ 16S/ 14W
Barton County, KS

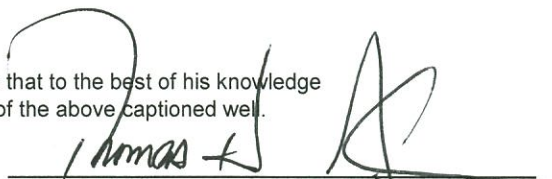
Loggers Total Depth: 3440' API#15- 009-26,102-00-00
Rotary Total Depth: 3440' Elevation: 1935 GL - 1943 KB
Commenced: 6/10/2015 Completed: 6/16/2015
Casing: 8 5/8' @ 479'W/275sks Status: Oilwell
5 1/2' @ 3438'W/130sks
Port Collar @ 905'

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>933'</u>
Dakota Sand	<u>251'</u>	Shale & Lime	<u>1591'</u>
Shale	<u>345'</u>	Shale	<u>1908'</u>
Cedar Hill Sand	<u>431'</u>	Shale & Lime	<u>2237'</u>
Red Bed Shale	<u>602'</u>	Lime & Shale	<u>2953'</u>
Anhydrite	<u>903'</u>	RTD	<u>3440'</u>
Base Anhydrite	<u>933'</u>		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.


Thomas H. Alm

Subscribed and sworn to before me on 6-23-15

My Commission expires: 8-9-2015

(Place stamp or seal below)


Notary Public

