



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 "B" # 1 Location: 2310 FNL - 2310 FEL
SW/SW/NE
Section 13/ 16S/ 14W
Barton County, KS

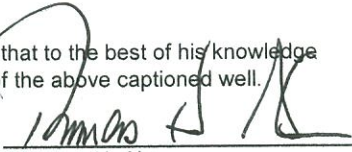
Loggers Total Depth: 3412' API#15- 009-26,174-00-00
 Rotary Total Depth: 3410' Elevation: 1906 GL - 1914 KB
 Commenced: 6/5/2017 Completed: 6/13/2017
 Casing: 8 5/8" @ 474 W/190sks Status: Oil Well
5 1/2" @ 3409 W/130sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>902'</u>
Dakota Sand	<u>182'</u>	Shale & Lime	<u>1597'</u>
Shale	<u>249'</u>	Shale	<u>1892'</u>
Cedar Hill Sand	<u>331'</u>	Shale & Lime	<u>2415'</u>
Red Bed Shale	<u>505'</u>	Lime & Shale	<u>3060'</u>
Anhydrite	<u>874'</u>	RTD	<u>3410'</u>
Base Anhydrite	<u>902'</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 6-14-17

My Commission expires: 8-9-19

(Place stamp or seal below)


 Notary Public

