



**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 + 0352 Hays, KS 67601

Lease: Morgenstern "C" # 1 Location: 975 FNL - 100 FWL  
NW/SW/NW/NW  
Section 13/ 16S/ 14W  
Barton County, KS

Loggers Total Depth: 3450' API#15- 009-26,269-00-00  
 Rotary Total Depth: 3450' Elevation: 1940 GL - 1948 KB  
 Commenced: 9/23/2019 Completed: 9/30/2019  
 Casing: 8 5/8" @ 463 W/225sks Status: D & A  
 KCC Contact: Chris Neeley  
 Plugging Info: (1st Plug @ 3381'W/50sks)(2nd Plug @ 920'W/100sks)  
(3rd Plug @ 520'W/120sks)(4th Plug @ 40'W/10sks)  
(30sks In Rat Hole)(15sks In Mouse Hole)(Total 275sks  
60/40Poz 4%gel-1/4#FS/sk-By Quality Oilwell Cementing  
(Completed @ 3:30AM 9/30/2019)

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>931'</u>
Dakota Sand	<u>171'</u>	Shale & Lime	<u>1313'</u>
Shale	<u>228'</u>	Shale	<u>1794'</u>
Cedar Hill Sand	<u>412'</u>	Shale & Lime	<u>2209'</u>
Red Bed Shale	<u>542'</u>	Lime & Shale	<u>3094'</u>
Anhydrite	<u>903'</u>	RTD	<u>3450'</u>
Base Anhydrite	<u>931'</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 10-1-19

My Commission expires: 6-28-2022

(Place stamp or seal below)

Myrna S. Hoffman  
 Notary Public

