



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: Waugh "B" # 4 Location: 410 FSL - 485 FWL
NE/SW/SW?SW
Section 18/ 15S/ 12E
Wabaunsee County, KS

Loggers Total Depth: 3100' API#15- 197-20,311-00-00
Rotary Total Depth: 3100' Elevation: 1282 GL - 1290 KB
Commenced: 7/13/2019 Completed: 7/20/2019
Casing: 8 5/8" @ 307'W/180sks Status: SWD
5 1/2" @ 3096'W/170sks

DEPTHS & FORMATIONS (All from KB)

| | | | |
|----------------------|--------------|----------|--------------|
| Surface Rock - Shale | <u>0'</u> | Arbuckle | <u>3040'</u> |
| Shale | <u>166'</u> | RTD | <u>3100'</u> |
| Shale & Lime | <u>627'</u> | | |
| Mississippian | <u>2269'</u> | | |
| Kinderhook | <u>2606'</u> | | |
| Hunton | <u>2750'</u> | | |
| Simpson | <u>2988'</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 7-29-19

My Commission expires: 6-28-2022

(Place stamp or seal below)

Notary Public

