

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

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|---|--------------------------------------|-----------------------|---|
| Geologist on Well: Bryce Bidleman & Brad Rine | | ELEVATIONS | |
| LEASE: Younkink D #1-1-1 | FIELD: Widakat | KB: 2803 | |
| LOCATION: 1074 FSL 842 FUEL | SEC: 1 | DF: _____ | |
| COUNTY: Logan | STATE: Kansas | GL: 2796 | |
| CONTRACTOR: Pickwell Drilling Rig #10 | SPUD: 08/10/2016 | COMPL: 08/23/2016 | Measurements Are All From Kelly Bussing |
| RTD: 4430' | LTD: 4432' | CASING | CONDUCTOR: N/A |
| WUD UP: 3374' | TYPE WUD: Fresh | SURFACE: 8.5" @ 218' | PRODUCTION: NONE |
| SAMPLES SAVED FROM: 3600 TO RTD | DRILLING TIME KEPT FROM: 3300 TO RTD | ELECTRICAL SURVEYS | |
| SAMPLES EXAMINED FROM: 3600 TO RTD | GEOLOGICAL SUPERVISION FROM: 3650' | D/L: DULCI, M.L., PE. | E/L: _____ |
| REFERENCE WELL: Younkink D #1-1, -14S-34W | | | |
| Formation | Sample Tops | E-log Tops | Stunt Pos. |
| Anhydrite | 2217 (-586) | 2217 (-586) | -4 |
| Heebner | 3668 (-865) | 3668 (-865) | -1 |
| Lansing | 3717 (-914) | 3717 (-914) | +3 |
| Mammont | 3961 (-1158) | 3961 (-1158) | +7 |
| Stark | 4075 (-1272) | 4075 (-1272) | +9 |
| Fort Scott | 4222 (-1419) | 4222 (-1419) | +11 |
| Bass/Johnson | 4348 (-1545) | 4348 (-1545) | +23 |
| Mississippi | 4384 (-1581) | 4384 (-1581) | +41 |

REMARKS The Younkink D #1-1 drilled out thin and was structurally positive as the seismic data indicated but poor sample shows and zone development were seen in the Lansing, Mammont and Cherokee. All shows of oil were tested with negative results. Due to drill stem test results and electric log evaluation it was decided to plug and abandon the Younkink D #1-1 on August 23, 2016.

Respectfully,
 W. Bryce Bidleman

| LEGEND | |
|--------|-----------|
| | Anhydrite |
| | Sandstone |
| | Limestone |
| | Shale |
| | Carb Sh |
| | Cherty LS |
| | Chert |
| | Dolomite |

