



Pioneer Energy Services

Borehole Compensated Sonic Log

| | | | |
|------------------------|----------------------|----------------|-----------------------|
| API No. | 15-109-21,376-00-00 | | |
| Company | Black Tea Oil, LLC. | | |
| Well | Krebs Z No. 1 | | |
| Field | Logan | | |
| County | Logan | | |
| State | Kansas | | |
| Location | 1635' FNL & 340' FEL | | |
| Sec: 3 | Twp: 15S | Rge: 32W | |
| Permanent Datum | Ground Level | Elevation 2724 | |
| Log Measured From | Kelly Bushing | 9 | Ft. Above Perm. Datum |
| Drilling Measured From | Kelly Bushing | | |
| Date | 12/1/2014 | Elevation | |
| Run Number | Two | K.B. 2733 | |
| Type Log | BHC Sonic | D.F. 2724 | |
| Depth Driller | 4510 | G.L. 2724 | |
| Depth Logger | 4508 | | |
| Bottom Logged Interval | 4497 | | |
| Top Logged Interval | 250 | | |
| Type Fluid In Hole | Chemical | | |
| Salinity, PPM CL | 6000 | | |
| Density | 9.0 | | |
| Level | Full | | |
| Max. Rec. Temp. F | 121 | | |
| Operating Rig Time | 5 Hours | | |
| Equipment -- Location | 108 Hays | | |
| Recorded By | D. Fischer | | |
| Witnessed By | Richard Thomasson | | |

| Borehole Record | | | | Casing Record | | | |
|-----------------|-------|------|-----|---------------|------|------|-----|
| Run No | Bit | From | To | Size | Wgt. | From | To |
| One | 12.25 | 00 | 264 | 8.625 | 23# | 00 | 264 |
| Two | 7.875 | 264 | TD | | | | |
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Oakley Ks., 23 South to Gold Rd., East Into.

Database File: black_tea_krebs_z_1hd.db
 Dataset Pathname: DIL/btstck
 Presentation Format: sonic
 Dataset Creation: Mon Dec 01 12:47:10 2014
 Charted by: Depth in Feet scaled 1:240

| | | | | | | |
|-----|-------------|-----|-----------|-------|----------------------|------|
| 0 | Gamma Ray | 150 | Sonic Int | 140 | Delta Time (usec/ft) | 40 |
| 150 | Gamma Ray | 300 | 5 | 0 | Sonic Porosity | -10 |
| 6 | dCAL (GAPI) | 16 | | 15000 | LTEN (lb) | 0 |
| | | | | | | LSPD |







































