COBALT ENERGY, LLC
OIL & NATURAL GAS

GEOLOGIST'S REPORT
DRILL STEM TEST
SAMPLE LOG

ELEVATION: 2792' GL 2797' KB

OPERATOR: Cobalt Energy, LLC
LEASE: Shapland Trust #1-2
LOCATION: 1350' FSL & 1410' FEL
SEC: 2 TWP: 19S RGE: 28W
COUNTY: Lane STATE: Kansas
FIELD: Wildcat
PRODUCING FORMATION: Mississippian
ELEVATION: 2792' GL 2797' KB
DATE COMMENCED: 10/15/2012
DATE COMPLETED: 10/23/2012
REMARKS: Based on sample descriptions, negative DST results and a review of all logs, the parties involved elected to plug the Shapland Trust #1-2 as a dry hole.

Respectfully Submitted,
Corey Baker
Petroleum Geologist

API # 15-101-22335-00-00

CASING RECORD
Surface: 8 5/8" @ 264'
Production: 4 1/2" @ 4650'

DRILL STEM TEST RECORD
DST #1 4300' - 4330' (Cherokee Shale)
Times: 30-45-45-60
Blow: 1st Open: Strong blow, BOB in 1 min.
2nd Open: Strong blow, BOB in 1 min.
Recovery: 1st Open: 1200' GIP, 60' SOCM
2nd Open: 1200' GIP, 60' SOCM
Pressures: ISIP 1187# FSIP 1187# IFP 30# FFP 30#
Temperature: 110°
DST #2 4330' - 4360' (Mississippian)
Times: 30-45-45-60
Blow: 1st Open: Strong blow, BOB in 1 min.
2nd Open: Strong blow, BOB in 1 min.
Recovery: 1st Open: 1200' GIP, 60' SOCM
2nd Open: 1200' GIP, 60' SOCM
Pressures: ISIP 1187# FSIP 1187# IFP 30# FFP 30#
Temperature: 110°

GEOLOGICAL SUPERVISION FROM: 2500' TO: RTD
DRILLING TIME & SAMPLES FROM: 3700' TO: RTD
DRILLING CONTRACTOR: Duke Drilling Co., Inc. Rig #1
FORMATION TOPS: (Sample Log Tops)

| | |
|---|---|
| Anhydrite | 2109' (+641) |
| Base of Anhydrite | 2156' (+636) |
| Heebner | 3953' (-1203) |
| Lansing | 3993' (-1243) |
| Stark | 4269' (-1519) |
| BKC | 4307' (-1557) |
| Cherokee Shale | 4512' (-1762) |
| Mississippian | 4608' (-1858) |
| RTD | 4700' (-1950) |
| LTD | 4700' (-1950) |

LOGS RUN: Dual Induction, Compensated Density/Neutron, Sonic, Microresistivity

LEGEND

Limestone | Dolomite | Sandstone | Shale | Chert | Conglomerate | Coal | Gypsum | Anhydrite | Salt | Igneous | Metamorphic | Sample Shows | Core Shows | DST Shows

DEPTH | DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases →) | SAMPLE DESCRIPTION | REMARKS

Anhydrite
2109' (+641)

Base of Anhydrite
2156' (+636)

Heebner
3953' (-1203)

Lansing
3993' (-1243)

Stark
4269' (-1519)

BKC
4307' (-1557)

Cherokee Shale
4512' (-1762)

Mississippian
4608' (-1858)

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4700' (-1950)

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DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases →) | SAMPLE DESCRIPTION | REMARKS

Company: COBALT ENERGY, LLC
Lease: Shapland Trust #1-2
Location: 1350' FSL & 1410' FEL SEC 2 TWP 19S RGE 28W
County: Lane State: Kansas
Elevation: 2792' KB