



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblewood
Wichita, KS 67206

Michael #3-23

Job Ticket: 56960

DST#: 5

ATTN: Pete Vollmer

Test Start: 2014.03.16 @ 16:47:00

GENERAL INFORMATION:

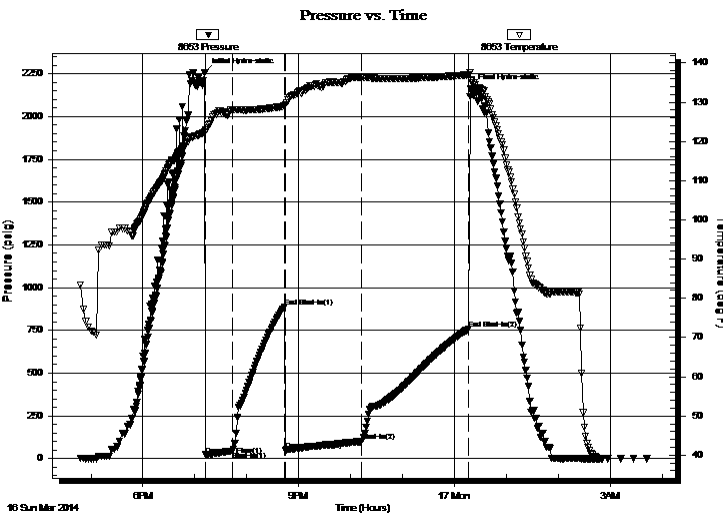
Formation: **LKC "D,E"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:12:30
 Tester: Kevin Mack
 Time Test Ended: 03:51:30
 Unit No: 66
 Interval: **4354.00 ft (KB) To 4430.00 ft (KB) (TVD)**
 Reference Elevations: 3272.00 ft (KB)
 Total Depth: 4430.00 ft (KB) (TVD)
 3259.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 13.00 ft

Serial #: 8653

Outside

Press @ Run Depth: 100.35 psig @ 4355.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.16 End Date: 2014.03.17 Last Calib.: 2014.03.17
 Start Time: 16:48:00 End Time: 03:51:30 Time On Btm: 2014.03.16 @ 19:11:30
 Time Off Btm: 2014.03.17 @ 00:18:30

TEST COMMENT: 30 - IF- Surface Blow built to 1 1/2"
 60 - IS- No Return
 90 - FF- Surface Blow started at 45 min. Built to 2"
 120 - FS- No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2257.85 | 122.35 | Initial Hydro-static |
| 1 | 22.76 | 122.85 | Open To Flow (1) |
| 32 | 45.28 | 128.03 | Shut-In(1) |
| 92 | 887.98 | 128.97 | End Shut-In(1) |
| 93 | 50.15 | 129.32 | Open To Flow (2) |
| 181 | 100.35 | 136.41 | Shut-In(2) |
| 305 | 758.67 | 136.96 | End Shut-In(2) |
| 307 | 2163.53 | 135.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 90.00 | OSM 100M (oil spots) | 0.44 |
| 80.00 | OCM 10o 90M | 0.39 |
| 5.00 | Free Oil 100o | 0.02 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|----------------------|----------------|
| 90.00 | OSM 100M (oil spots) | 0.443 |
| 80.00 | OCM 10o 90M | 0.393 |
| 5.00 | Free Oil 100o | 0.025 |

Total Length: 175.00 ft Total Volume: 0.861 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

