



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P.O. Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

ATTN: Ron Nelson

Job Ticket: 41666

DST#: 1

Test Start: 2011.01.17 @ 09:12:14

GENERAL INFORMATION:

Formation: **LKC C-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:09

Time Test Ended: 15:16:08

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3454.00 ft (KB) To 3526.00 ft (KB) (TVD)

Reference Elevations: 2148.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

2140.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 51.62 psig @ 3460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.17

End Date: 2011.01.17

Last Calib.: 2011.01.17

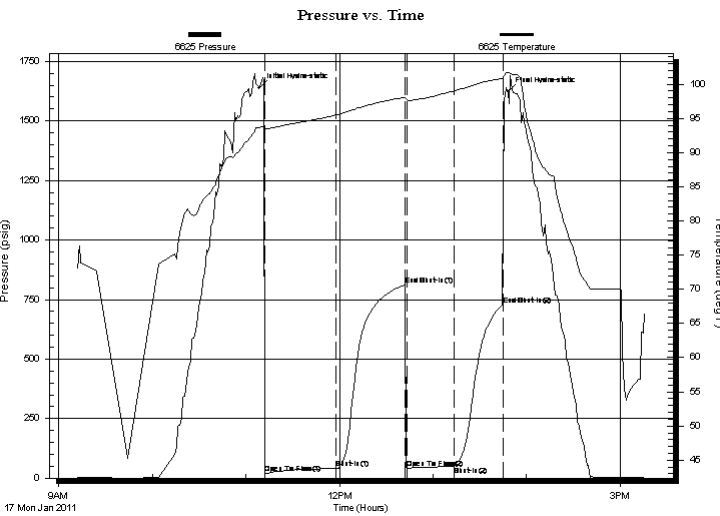
Start Time: 09:12:14

End Time: 15:16:08

Time On Btm: 2011.01.17 @ 11:08:39

Time Off Btm: 2011.01.17 @ 13:48:08

TEST COMMENT: IFP-w k bl 1/4"to 1"bl
ISIP-no bl bk
FFP-w k bl 1/4"to 1/2"bl
FSIP-no bl bk



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1639.05 | 93.69 | Initial Hydro-static |
| 4 | 18.03 | 93.49 | Open To Flow (1) |
| 49 | 40.48 | 95.48 | Shut-In(1) |
| 94 | 812.24 | 98.09 | End Shut-In(1) |
| 95 | 42.71 | 97.71 | Open To Flow (2) |
| 125 | 51.62 | 99.05 | Shut-In(2) |
| 156 | 728.98 | 100.87 | End Shut-In(2) |
| 160 | 1624.43 | 101.73 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 0.00 | 55'GIP | 0.00 |
| 65.00 | O&GCM 5%G5%O90%M | 0.64 |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

ATTN: Ron Nelson

Test Start: 2011.01.17 @ 09:12:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 0.00 | 55'GIP | 0.000 |
| 65.00 | O&GCM 5%G5%O90%M | 0.638 |

Total Length: 65.00 ft

Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

