



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

**Cecelia Brull 1-33**

P.O. Box 372  
Hays, Ks 67601

**33/15S/19W-ELLIS**

Job Ticket: 41359

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2011.01.09 @ 06:40:40

## GENERAL INFORMATION:

Formation: **LKC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:12:55

Time Test Ended: 13:14:25

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

**Interval: 3456.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2044.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2036.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8354**

**Inside**

Press @ Run Depth: 498.29 psig @ 3460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.09

End Date: 2011.01.09

Last Calib.: 2011.01.09

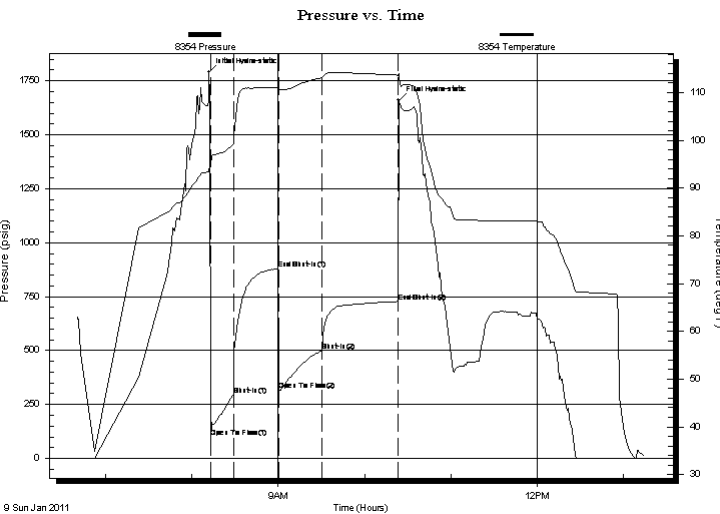
Start Time: 06:40:41

End Time: 13:14:25

Time On Btm: 2011.01.09 @ 08:11:55

Time Off Btm: 2011.01.09 @ 10:23:40

**TEST COMMENT:** IF-Strong building blow . BOB in 1 minute.  
ISI-Return @ 5 seconds. BOB in 2&1/2 minutes. GTS in 29 min.  
FF-Strong building blow . BOB in 45 seconds. GTS ASAO  
FSI-Return @ 5 seconds. BOB in 1&1/2 minu



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.04	93.69	Initial Hydro-static
1	98.29	95.10	Open To Flow (1)
17	293.04	99.20	Shut-In(1)
48	879.49	111.08	End Shut-In(1)
49	317.22	110.78	Open To Flow (2)
79	498.29	113.11	Shut-In(2)
132	727.16	113.64	End Shut-In(2)
132	1658.35	113.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	40%Mud/40%Gas/20%Oil	0.59
62.00	65%Gas/35%Oil	0.87
1364.00	Dropped bar-Gassy Oil	19.13
0.00	1958' G.I.P.	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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**33/15S/19W-ELLIS**

Job Ticket: 41359

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2011.01.09 @ 06:40:40

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 34 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	40%Mud/40%Gas/20%Oil	0.587
62.00	65%Gas/35%Oil	0.870
1364.00	Dropped bar-Gassy Oil	19.133
0.00	1958' G.I.P.	0.000

Total Length: 1488.00 ft      Total Volume: 20.590 bbl

Num Fluid Samples: 1      Num Gas Bombs: 2      Serial #:

Laboratory Name: Caraw ay      Laboratory Location: Liberal, KS

Recovery Comments:

