



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**Sunley #1-13**

P.O. Box 1019 113 W. 13th  
Hays, KS. 67601

**13/14/19 Ellis KS**

Job Ticket: 42560

**DST#: 3**

ATTN: Al Dow ning

Test Start: 2011.05.03 @ 23:12:24

## GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:24

Time Test Ended: 05:17:24

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3506.00 ft (KB) To 3533.00 ft (KB) (TVD)**

Reference Elevations: 2160.00 ft (KB)

Total Depth: 3533.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 84.18 psig @ 3510.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.03

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 23:12:25

End Time:

05:17:24

Time On Btm:

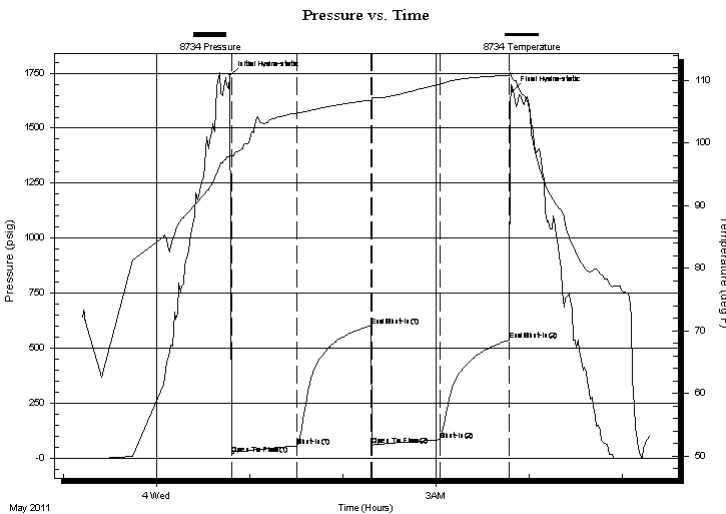
2011.05.04 @ 00:47:24

Time Off Btm:

2011.05.04 @ 03:49:24

**TEST COMMENT:** IFP - BOB 20 min  
ISI - no blow back  
FFP - BOB 32 min  
FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.55	98.01	Initial Hydro-static
1	19.36	97.73	Open To Flow (1)
43	56.21	104.78	Shut-In(1)
91	601.61	106.82	End Shut-In(1)
92	60.62	107.26	Open To Flow (2)
135	84.18	109.40	Shut-In(2)
180	537.71	110.79	End Shut-In(2)
182	1670.06	110.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W, 10%M	1.41
15.00	SO & WCM 5%O, 5%W, 90%M	0.21
10.00	FREE OIL 95%O, 5%M	0.14
0.00	130' GIP	0.00

## Gas Rates

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



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

96000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 90%W, 10%M	1.410
15.00	SO & WCM 5%O, 5%W, 90%M	0.210
10.00	FREE OIL 95%O, 5%M	0.140
0.00	130' GIP	0.000

Total Length: 145.00 ft

Total Volume: 1.760 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

