



**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: 42561

**DST#: 4**

ATTN: Al Dow ning

Test Start: 2011.05.04 @ 15:00:59

## GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:59

Time Test Ended: 21:06:29

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3560.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Reference Elevations: 2160.00 ft (KB)

Total Depth: 3630.00 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: 78.51 psig @ 3563.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.04

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 15:01:00

End Time:

21:06:29

Time On Btm:

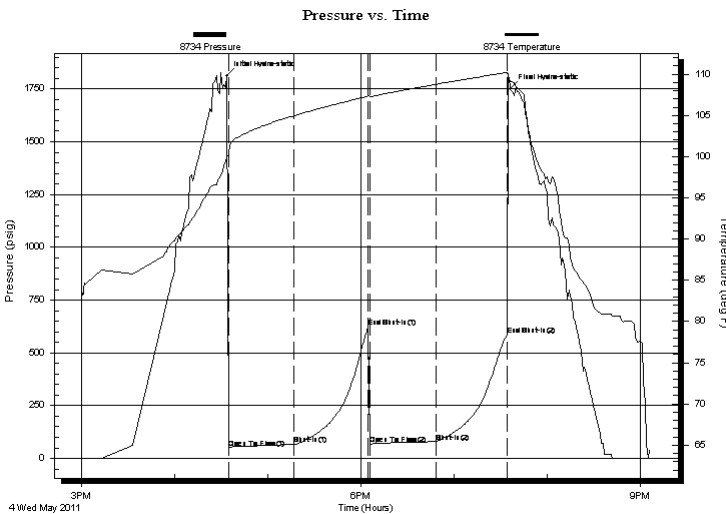
2011.05.04 @ 16:33:59

Time Off Btm:

2011.05.04 @ 19:36:29

**TEST COMMENT:** IFP - BOB 21 min  
ISI - no blow back  
FFP - BOB 1 min  
FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.26	99.96	Initial Hydro-static
1	47.02	100.21	Open To Flow (1)
43	65.95	104.97	Shut-In(1)
91	621.32	107.35	End Shut-In(1)
92	65.25	107.24	Open To Flow (2)
135	78.51	108.78	Shut-In(2)
180	584.99	110.22	End Shut-In(2)
183	1749.89	109.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMCO 60%G, 30%O, 10%M	0.15
30.00	GOCM 35%G, 15%O, 50%M	0.42
45.00	GOCM 15%G, 15%O, 705M	0.63
0.00	540' 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:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	GMCO 60%G, 30%O, 10%M	0.148
30.00	GOCM 35%G, 15%O, 50%M	0.421
45.00	GOCM 15%G, 15%O, 705M	0.631
0.00	540' GIP	0.000

Total Length: 105.00 ft

Total Volume: 1.200 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

