



**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: 41669

**DST#: 4**

Test Start: 2011.01.19 @ 16:03:19

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:46:14

Time Test Ended: 23:41:43

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 42

**Interval: 3786.00 ft (KB) To 3800.00 ft (KB) (TVD)**

Reference Elevations: 2148.00 ft (KB)

Total Depth: 3863.00 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: 489.12 psig @ 3791.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.19

End Date: 2011.01.19

Last Calib.: 2011.01.20

Start Time: 16:03:19

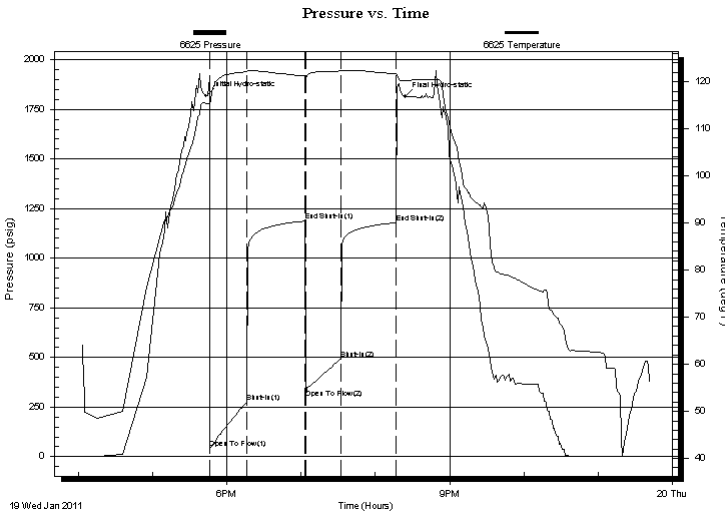
End Time: 23:41:43

Time On Btm: 2011.01.19 @ 17:43:14

Time Off Btm: 2011.01.19 @ 20:24:13

**TEST COMMENT:** IFP-w k to strg in 3 min  
ISIP-surface to 1/4"bl bk  
FFP-w k to strg in 6 min  
FSIP-surface bl bk

## PRESSURE SUMMARY



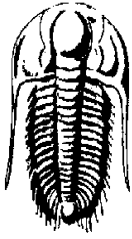
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.57	115.42	Initial Hydro-static
3	40.99	115.11	Open To Flow (1)
33	272.83	122.13	Shut-In(1)
80	1186.81	121.18	End Shut-In(1)
81	294.13	120.88	Open To Flow (2)
109	489.12	122.26	Shut-In(2)
154	1179.11	121.73	End Shut-In(2)
161	1814.14	120.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
760.00	Water	10.39
125.00	OCMW 10%O20%M70%W	1.75
115.00	CO	1.61
0.00	200'GIP	0.00

## Gas Rates

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



# 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: 41669 **DST#: 4**

Test Start: 2011.01.19 @ 16:03:19

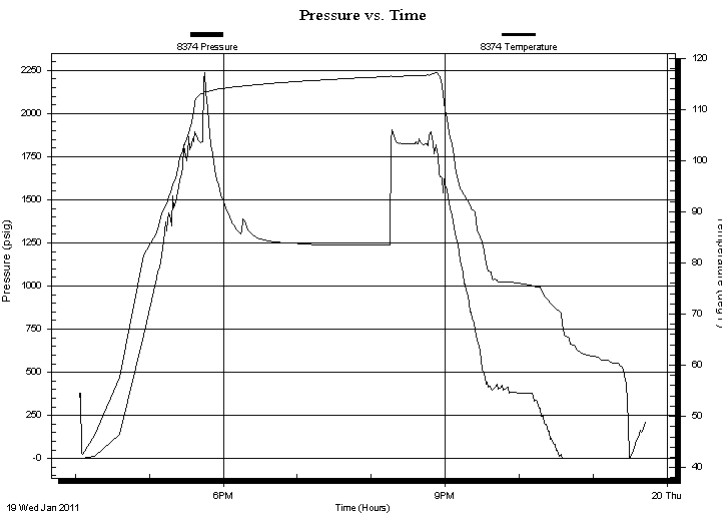
### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle  
 Time Tool Opened: 17:46:14 Tester: Ray Schwager  
 Time Test Ended: 23:41:43 Unit No: 42  
**Interval: 3786.00 ft (KB) To 3800.00 ft (KB) (TVD)** Reference Elevations: 2148.00 ft (KB)  
 Total Depth: 3863.00 ft (KB) (TVD) 2140.00 ft (CF)  
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

### Serial #: 8374 Below (Straddle)

Press @ Run Depth: psig @ 3831.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.20  
 Start Time: 16:03:35 End Time: 23:43:34 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP-w k to strg in 3 min  
 ISIP-surface to 1/4"bl bk  
 FFP-w k to strg in 6 min  
 FSIP-surface bl bk



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
760.00	Water	10.39
125.00	OCMW 10%O20%M70%W	1.75
115.00	CO	1.61
0.00	200'GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc

**Johnson 1-13**

P.O Box 372  
Hays Ks 67601-0372

**13-14s-19w Ellis**

Job Ticket: 41669

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 16:03:19

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
760.00	Water	10.388
125.00	OCMW 10%O20%M70%W	1.753
115.00	CO	1.613
0.00	200'GIP	0.000

Total Length: 1000.00 ft      Total Volume: 13.754 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .38 @ 51F

