



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**18-13s-20w Ellis**

P O Box 1019  
Hays Ks 67601

**Kohls #1-18**

Job Ticket: 44759

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2011.10.25 @ 19:20:24

## GENERAL INFORMATION:

Formation: **Congl Sd - Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:00:19

Time Test Ended: 00:47:48

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 42

**Interval: 3827.00 ft (KB) To 3894.00 ft (KB) (TVD)**

Reference Elevations: 2206.00 ft (KB)

Total Depth: 3957.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6625**

**Inside**

Press @ Run Depth: 238.72 psig @ 3835.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.25

End Date:

2011.10.26

Last Calib.:

2011.10.26

Start Time: 19:20:24

End Time:

00:47:48

Time On Btm:

2011.10.25 @ 20:56:49

Time Off Btm:

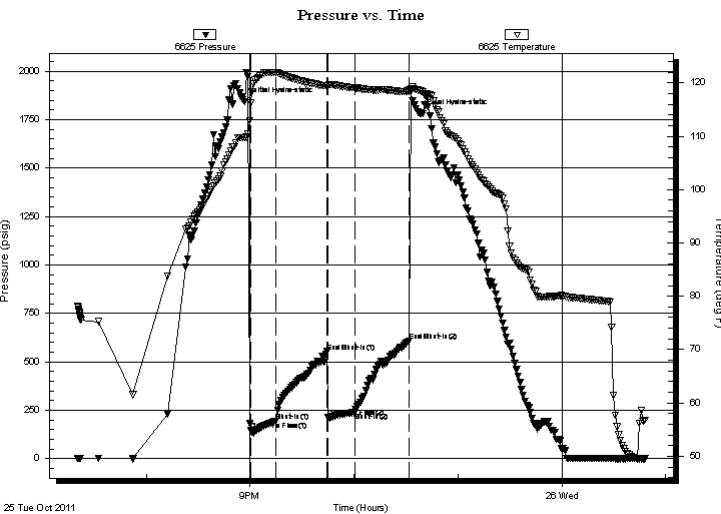
2011.10.25 @ 22:38:19

**TEST COMMENT:** 15-IFP-strg bl in 1 min

30-ISIP-no bl

15-FFP-w k to a gd bl 1/2" to 8" bl

30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.09	109.71	Initial Hydro-static
4	145.44	116.18	Open To Flow (1)
18	193.71	121.89	Shut-In(1)
48	552.43	119.50	End Shut-In(1)
48	212.84	119.40	Open To Flow (2)
64	238.72	119.06	Shut-In(2)
95	607.61	118.62	End Shut-In(2)
102	1782.14	118.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water	4.99
140.00	SOCMW 2%O25%M73%W	1.96
20.00	CO	0.28

\* Recovery from multiple tests

## Gas Rates

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



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**Kohls #1-18**

Job Ticket: 44759

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2011.10.25 @ 19:20:24

### GENERAL INFORMATION:

Formation: **Congl Sd - Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:00:19

Time Test Ended: 00:47:48

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 42

**Interval: 3827.00 ft (KB) To 3894.00 ft (KB) (TVD)**

Reference Elevations: 2206.00 ft (KB)

Total Depth: 3957.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8374 Below (Straddle)**

Press @ RunDepth: psig @ 3901.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.25

End Date: 2011.10.26

Last Calib.: 2011.10.26

Start Time: 19:20:21

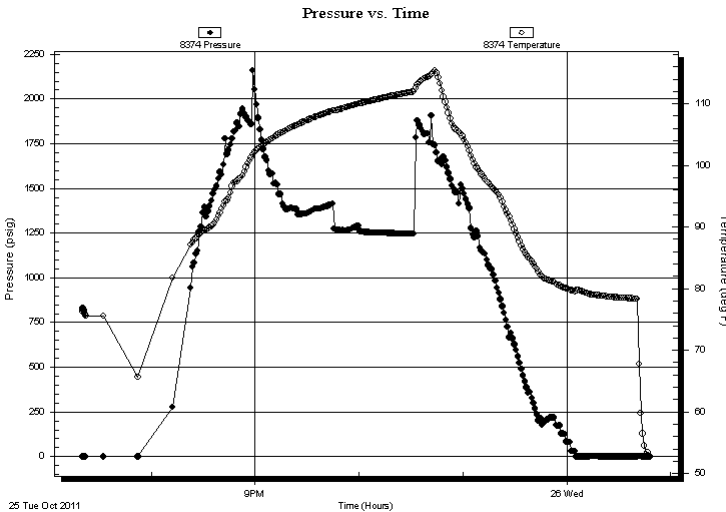
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Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP-strg bl in 1 min  
30-ISIP-no bl  
15-FFP-w k to a gd bl 1/2"to 8"bl  
30-FSIP-no bl

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water	4.99
140.00	SOCMW 2%O25%M73%W	1.96
20.00	CO	0.28

\* Recovery from multiple tests

### 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

**18-13s-20w Ellis**

P O Box 1019  
Hays Ks 67601

**Kohls #1-18**

Job Ticket: 44759

**DST#: 5**

ATTN: Ron Nelson

Test Start: 2011.10.25 @ 19:20:24

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
375.00	Water	4.987
140.00	SOCMW 2%O25%M73%W	1.964
20.00	CO	0.281

Total Length: 535.00 ft      Total Volume: 7.232 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26@70F

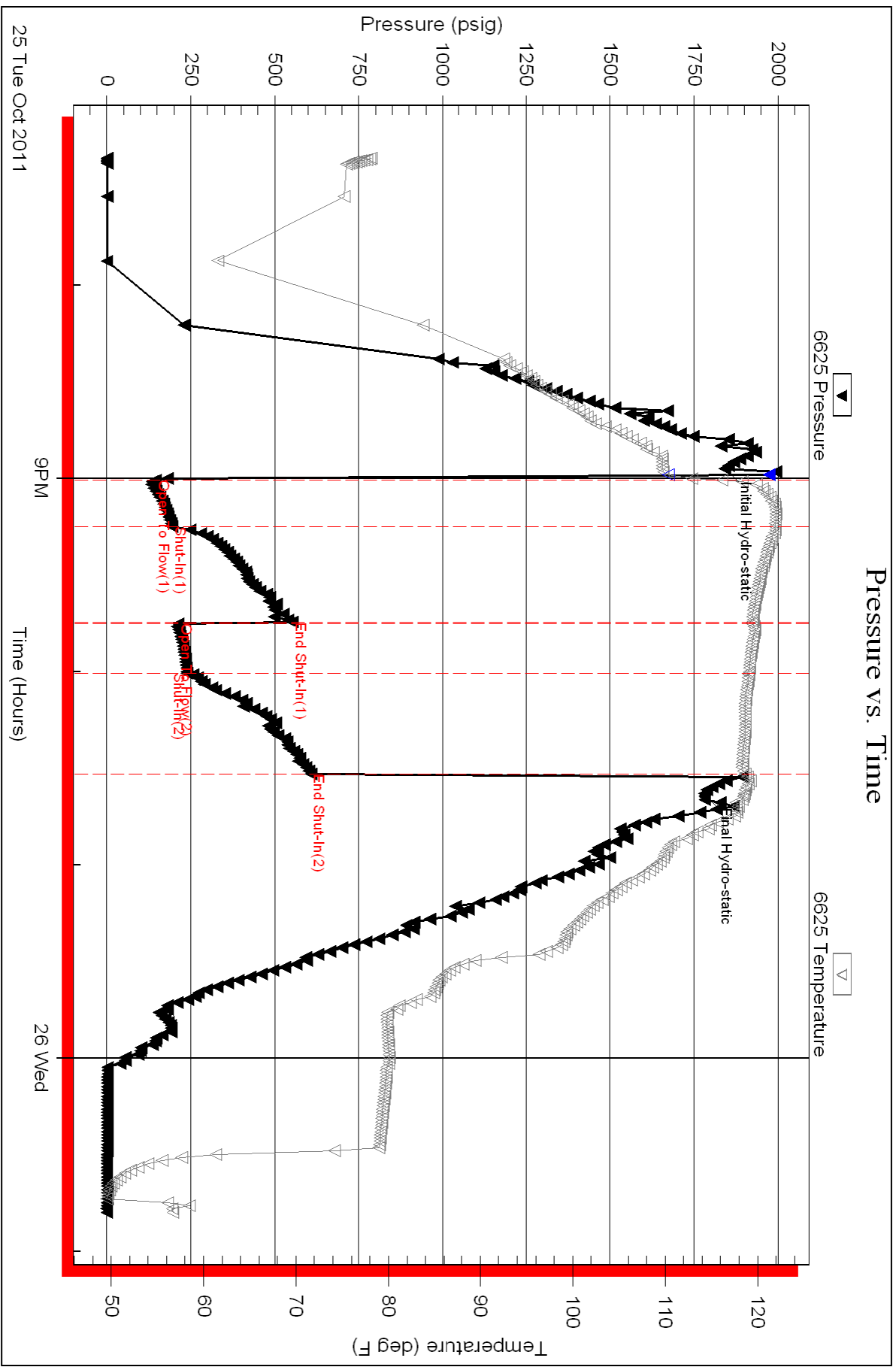
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Inside

Dow nung-Nelson Oil Co Inc

Kohls #1-18

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 44759

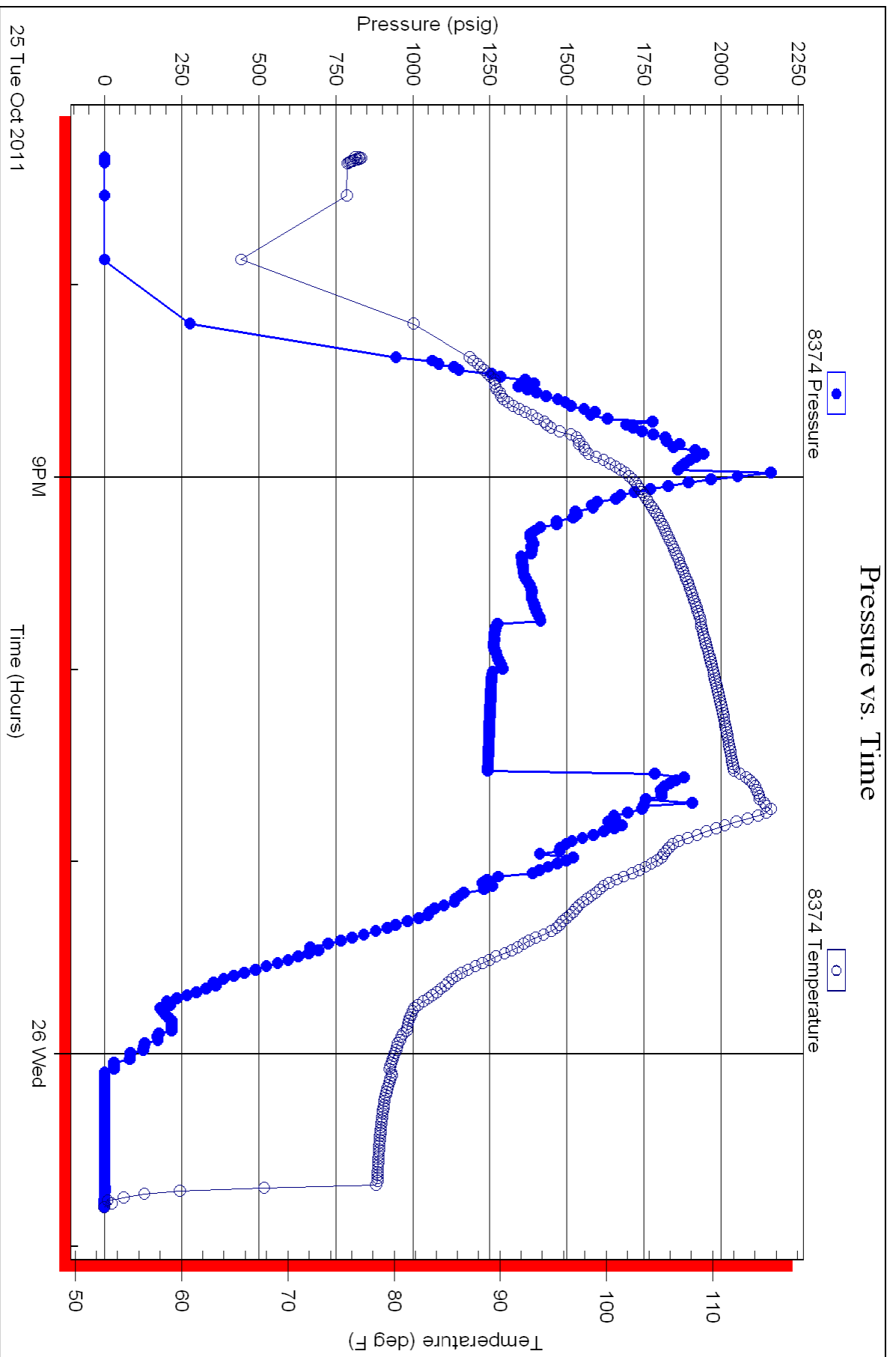
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Serial #: 8374

Below (Stratton) Jng-Nelson Oil Co Inc

Kohls #1-18

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 44759

Printed: 2011.10.26 @ 08:18:41