



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

DOWNING & NELSON OIL CO INC

**13-14S-19W ELLIS**

PO BOX 1019  
HAYS KS 67601

**JOHNSON # 2-13**

Job Ticket: 44373

**DST#: 2**

ATTN: MARC DOWNING

Test Start: 2011.10.04 @ 09:30:00

## GENERAL INFORMATION:

Formation: **COMGLOMERATE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:16:20

Time Test Ended: 14:47:20

Test Type: Conventional Bottom Hole (Initial)

Tester: RANDY WILLIAMS

Unit No: 37

Interval: **3742.00 ft (KB) To 3778.00 ft (KB) (TVD)**

Reference Elevations: 2159.00 ft (KB)

Total Depth: 3778.00 ft (KB) (TVD)

2151.00 ft (CF)

Hole Diameter: 6.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6751 Outside**

Press @ RunDepth: 32.23 psig @ 3744.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.04

End Date:

2011.10.04

Last Calib.: 2011.10.04

Start Time: 09:30:02

End Time:

14:47:20

Time On Btm: 2011.10.04 @ 11:16:10

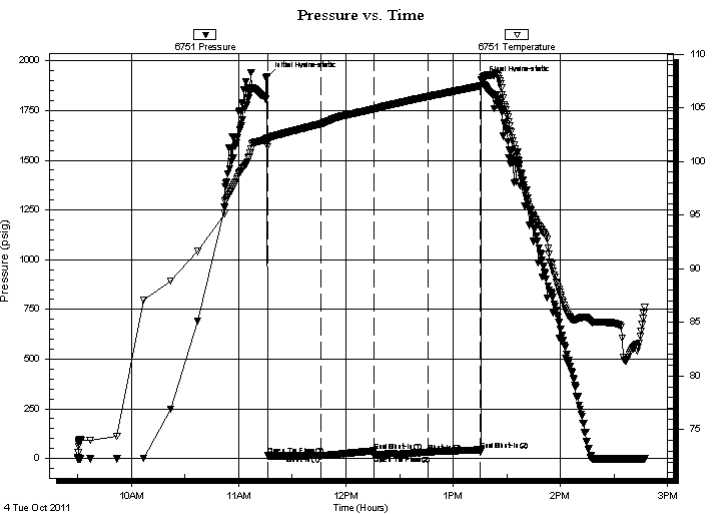
Time Off Btm: 2011.10.04 @ 13:15:50

TEST COMMENT: IF=30, WSB, DIED 15 MIN'S INTO FLOW

ISI=30, NBB

FF=30, NB

FSI=30, NBB



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.92	102.23	Initial Hydro-static
1	13.80	101.34	Open To Flow (1)
30	14.16	103.49	Shut-In(1)
60	37.71	104.87	End Shut-In(1)
60	15.31	104.86	Open To Flow (2)
90	32.23	106.03	Shut-In(2)
120	43.90	107.02	End Shut-In(2)
120	1900.18	107.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD	0.00

## Gas Rates

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



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## FLUID SUMMARY

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**JOHNSON # 2-13**

Job Ticket: 44373

**DST#: 2**

ATTN: MARC DOWNING

Test Start: 2011.10.04 @ 09:30:00

### 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 1.50 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

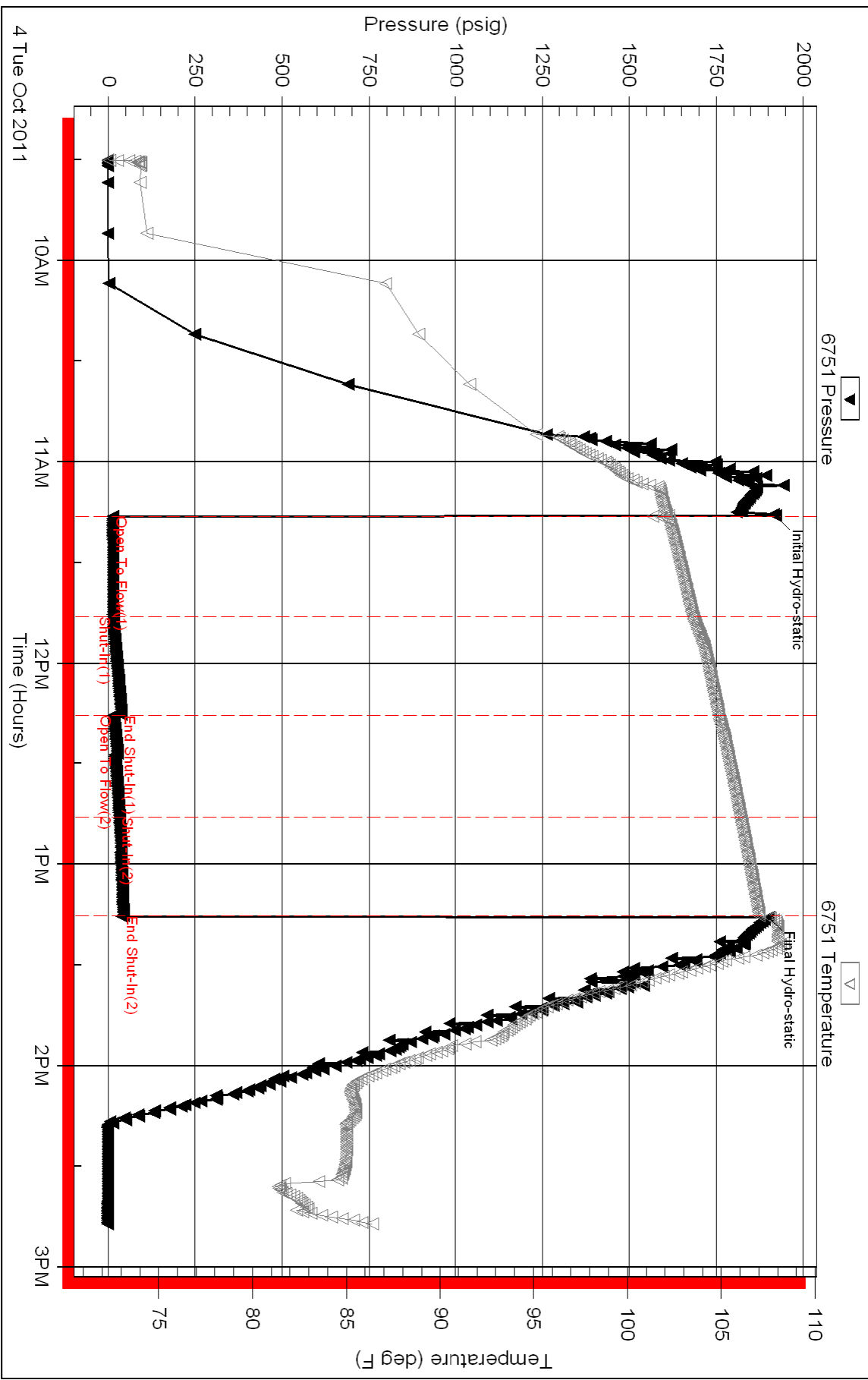
Serial #: 6751

Outside DOWNING & NELSON OIL CO INC

JOHNSON # 2-13

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44373

Printed: 2011.10.04 @ 15:21:24