



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing & Nelson Oil Co.

PO Box 1019  
Hays, KS. 67601

ATTN: Marc Downing

**Keller Trust #1-20**

**22-22s-22w-Pawnee**

Job Ticket: 43532

**DST#: 3**

Test Start: 2011.06.30 @ 00:46:55

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:55

Time Test Ended: 07:26:10

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

**Interval: 4350.00 ft (KB) To 4360.00 ft (KB) (TVD)**

Reference Elevations: 2203.00 ft (KB)

Total Depth: 4360.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 95.30 psig @ 4353.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.30

End Date: 2011.06.30

Last Calib.: 2011.06.30

Start Time: 00:46:57

End Time: 07:26:10

Time On Btm: 2011.06.30 @ 02:30:55

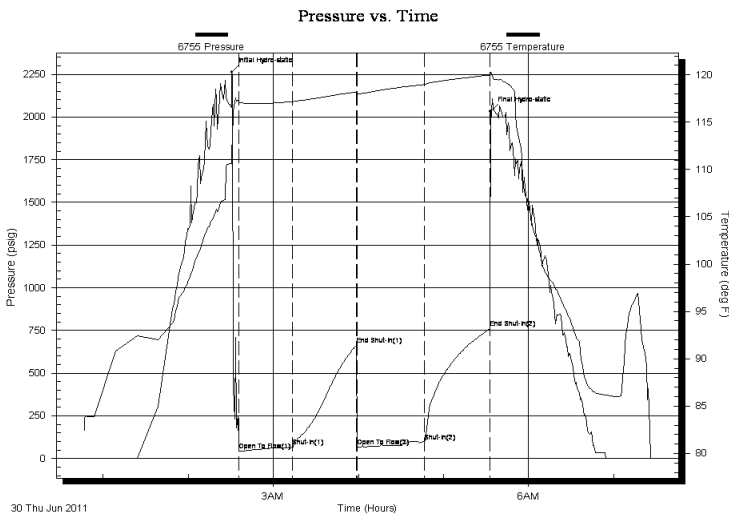
Time Off Btm: 2011.06.30 @ 05:33:10

**TEST COMMENT:** IFP-Good Blow,BOB in 22 Min.

ISI-Dead

FFP-Weak Blow, Built to 4"

FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.52	112.15	Initial Hydro-static
5	42.99	117.10	Open To Flow(1)
43	65.28	117.17	Shut-In(1)
88	661.24	118.20	End Shut-In(1)
88	67.35	117.94	Open To Flow(2)
136	95.30	118.97	Shut-In(2)
182	758.15	119.97	End Shut-In(2)
183	2031.61	120.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume(bbl)
120.00	HOCMW-50%O-25%W-25%M	1.40
50.00	Free Oil	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Downing & Nelson Oil Co.

**Keller Trust #1-20**

PO Box 1019  
Hays, KS. 67601

**22-22s-22w-Pawnee**

ATTN: Marc Downing

Job Ticket: 43532

**DST#: 3**

Test Start: 2011.06.30 @ 00:46:55

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	HOCMW-50%O-25%W-25%M	1.401
50.00	Free Oil	0.701

Total Length: 170.00 ft

Total Volume: 2.102 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

**Inside**

Downing & Nelson Oil Co.

22-22s-22w-Pawnee

DST Test Number: 3

