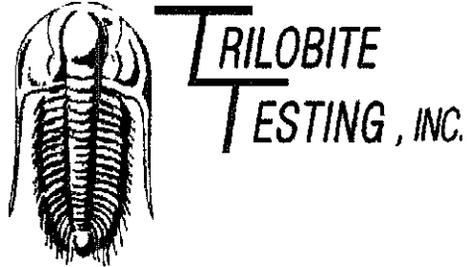


KGS ✓



**DRILL STEM TEST REPORT**

Prepared For: **Downing & Nelson Oil**

PO Box 372  
Hays, KS 67601

*RN*  
*RN*  
*2/24/09*

ATTN: Ron Nelson

**17 14 22 Trego KS**  
*JOANN 1-17*  
**Ries #1-17**

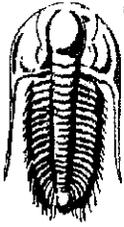
Start Date: 2008.10.05 @ 07:10:45

End Date: 2008.10.05 @ 13:33:15

Job Ticket #: 33694                      DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Downing & Nelson Oil  
Ries #1-17  
17 14 22 Trego KS  
DST # 1  
Ft Scott, Cherokee  
2008.10.05



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing & Nelson Oil

**Ries #1-17**

PO Box 372  
Hays, KS 67601

**17 14 22 Trego KS**

Job Ticket: 33694

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.10.05 @ 07:10:45

## GENERAL INFORMATION:

Formation: **Ft Scott, Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:42:15

Time Test Ended: 13:33:15

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: #31

Interval: **4080.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2268.00 ft (KB)

2260.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8369**

Inside

Press@RunDepth: 168.60 psig @ 4084.00 ft (KB)

Start Date: 2008.10.05

End Date:

2008.10.05

Capacity: 7000.00 psig

Last Calib.: 2008.10.05

Start Time: 07:10:50

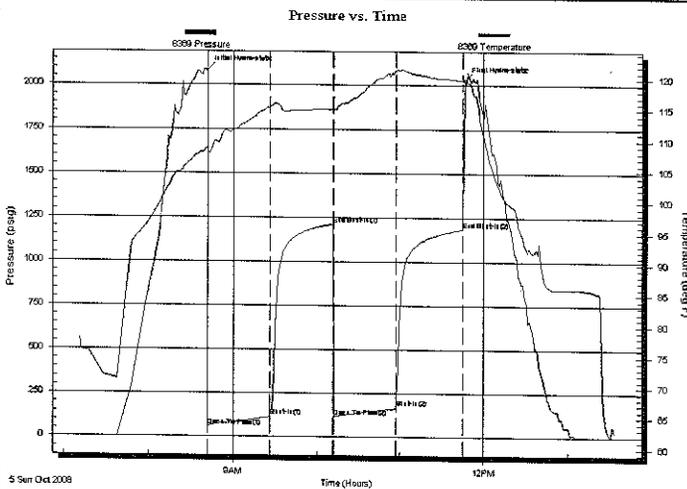
End Time:

13:33:14

Time On Btm: 2008.10.05 @ 08:41:45

Time Off Btm: 2008.10.05 @ 11:46:14

TEST COMMENT: IF- 5in blow  
IS- No blow  
FF- 4.25in blow  
FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.42	108.69	Initial Hydro-static
1	54.44	108.06	Open To Flow (1)
45	115.27	115.51	Shut-In(1)
90	1210.90	115.13	End Shut-In(1)
91	115.98	114.90	Open To Flow(2)
135	168.60	121.32	Shut-In(2)
184	1183.92	119.85	End Shut-In(2)
185	2027.57	119.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 65%M 30%O 5%G	0.71
60.00	OCM 80%M 20%O	0.84
60.00	OCM 95%M 5%O	0.84
60.00	mud	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing & Nelson Oil

**Ries #1-17**

PO Box 372  
Hays, KS 67601

**17 14 22 Trego KS**

Job Ticket: 33694

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.10.05 @ 07:10:45

**Tool Information**

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4080.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4061.00	
Shut In Tool	5.00			4066.00	
Hydraulic tool	5.00			4071.00	
Packer	4.00			4075.00	20.00 Bottom Of Top Packer
Packer	5.00			4080.00	
Stubb	1.00			4081.00	
Perforations	3.00			4084.00	
Recorder	0.00	8319	Inside	4084.00	
Recorder	0.00	8369	Inside	4084.00	
Change Over Sub	1.00			4085.00	
Blank Spacing	64.00			4149.00	
Change Over Sub	1.00			4150.00	
Perforations	27.00			4177.00	
Bullnose	3.00			4180.00	100.00 Bottom Packers & Anchor

**Total Tool Length: 120.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning & Nelson Oil

**Ries #1-17**

PO Box 372  
Hays, KS 67601

**17 14 22 Trego KS**

Job Ticket: 33694

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2008.10.05 @ 07:10:45

## 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:

bbf

Water Loss: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
70.00	OCM 65%M 30%O 5%G	0.709
60.00	OCM 80%M 20%O	0.842
60.00	OCM 95%M 5%O	0.842
60.00	mud	0.842

Total Length: 250.00 ft      Total Volume: 3.235 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

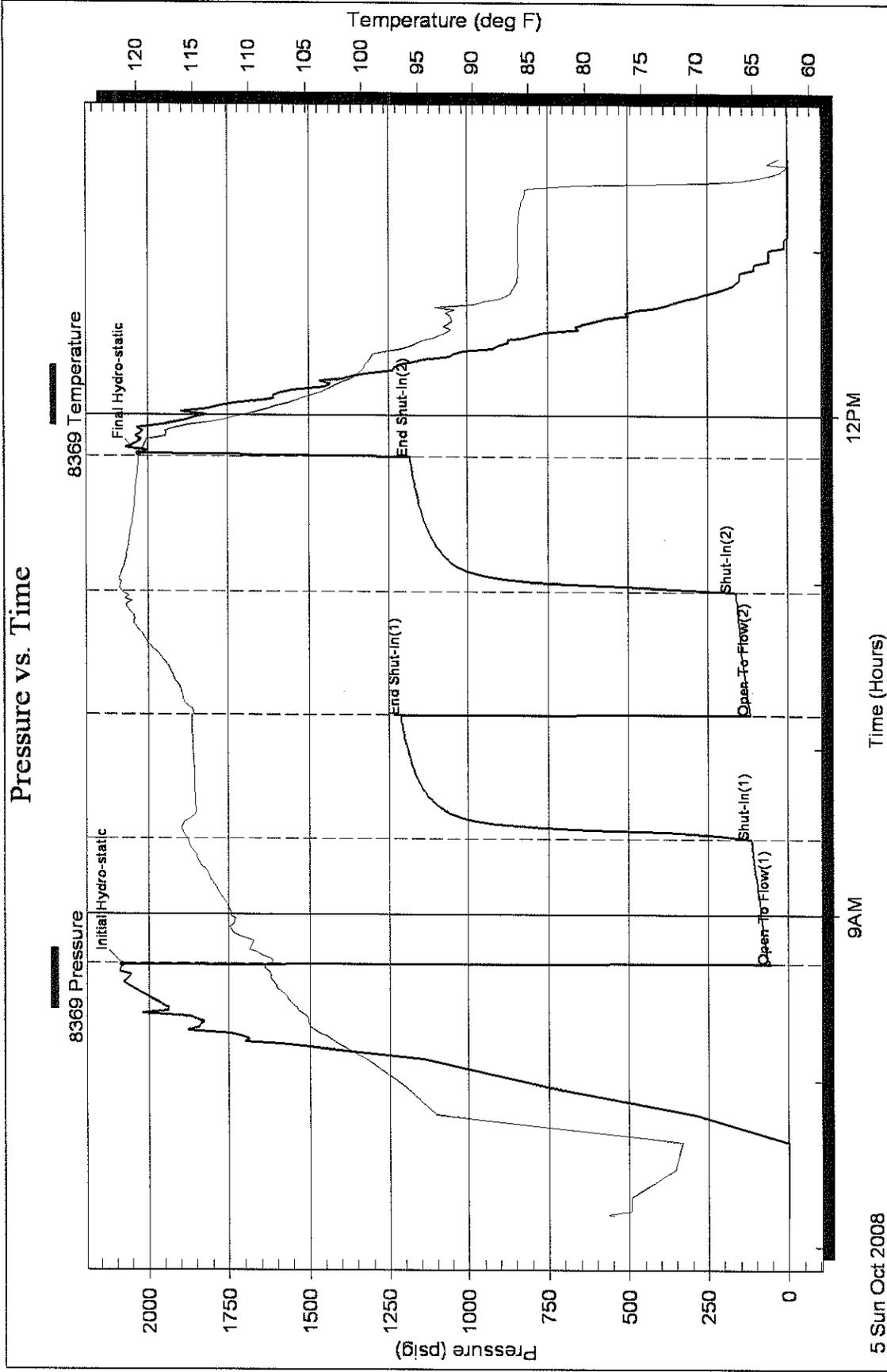
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



5 Sun Oct 2008

9AM

12PM

