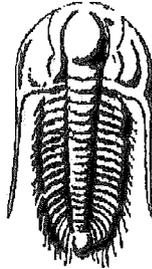


15-195-22652

32-12s-21w

*And*



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Downing Nelson Oil Co**

PO Box 372  
Hays, KS 67601

ATTN: Marc Downing

**32 12S 21W Trego KS**

**Edward 1-32**

Start Date: 2010.04.10 @ 03:41:54

End Date: 2010.04.10 @ 10:53:18

Job Ticket #: 38159      DST #: 1

Downing Nelson Oil Co

Edward 1-32

32 12S 21W Trego KS

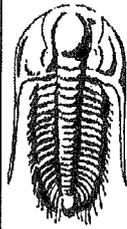
DST # 1

LKC "C-F"

2010.04.10

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

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**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38159

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2010.04.10 @ 03:41:54

### GENERAL INFORMATION:

Formation: **LKC "C-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:49

Time Test Ended: 10:53:18

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3571.00 ft (KB) To 3640.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8647**

**Inside**

Press@RunDepth: 262.58 psig @ 3580.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.10 End Date: 2010.04.10

Last Calib.: 2010.04.10

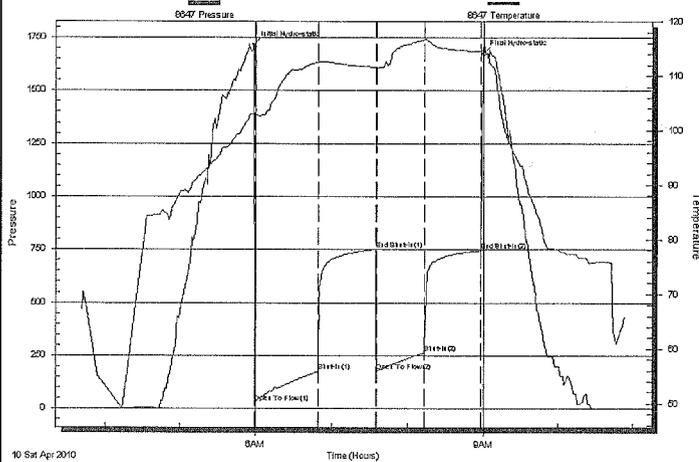
Start Time: 03:41:54 End Time: 10:53:18

Time On Btm: 2010.04.10 @ 05:57:49

Time Off Btm: 2010.04.10 @ 08:59:18

**TEST COMMENT:** IFP - BOB 10 min  
ISI - no blow back  
FFP - BOB 17 min.  
FSI - no blow back

Pressure vs. Time



### PRESSURE SUMMARY

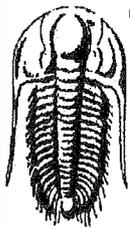
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.84	103.04	Initial Hydro-static
1	26.93	102.43	Open To Flow (1)
52	175.76	112.49	Shut-In(1)
97	750.68	111.65	End Shut-In(1)
98	178.86	111.49	Open To Flow (2)
136	262.58	116.69	Shut-In(2)
181	745.20	114.62	End Shut-In(2)
182	1671.99	114.73	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
370.00	MMV 90%W, 10%M	4.91
145.00	VM 15%W, 85%M	2.03

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38159

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2010.04.10 @ 03:41:54

## Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 49.96 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3571.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Tool slid 2' to bottom				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3556.00	
Hydraulic tool	5.00			3561.00	
Packer	5.00			3566.00	20.00 Bottom Of Top Packer
Packer	5.00			3571.00	
Stubb	1.00			3572.00	
Perforations	7.00			3579.00	
Change Over Sub	1.00			3580.00	
Recorder	0.00	8647	Inside	3580.00	
Recorder	0.00	8371	Outside	3580.00	
Blank Spacing	31.00			3611.00	
Change Over Sub	1.00			3612.00	
Perforations	25.00			3637.00	
Bullnose	3.00			3640.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38159

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2010.04.10 @ 03:41:54

## 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:

35000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.92 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	MW 90%W, 10%M	4.908
145.00	WM 15%W, 85%M	2.034

Total Length: 515.00 ft      Total Volume: 6.942 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

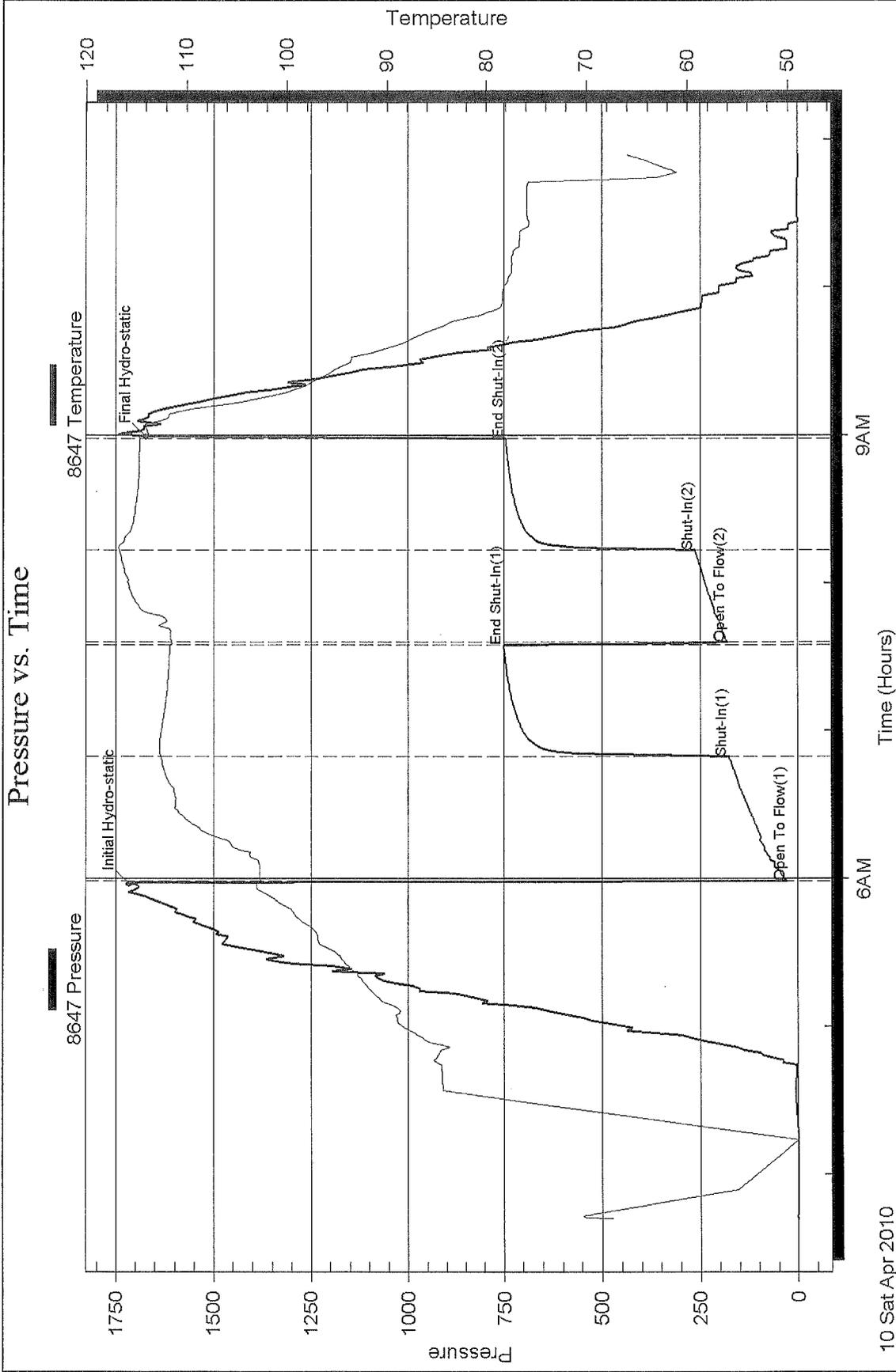
Serial #:

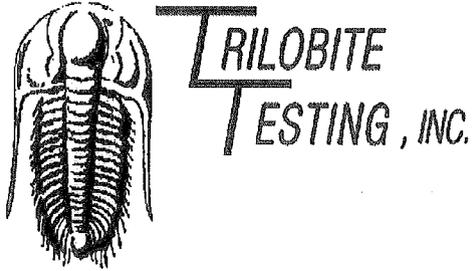
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .313 @ 47F = 35000 ppm chlorides

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 372  
Hays, KS 67601

ATTN: Marc Downing

**32 12S 21W Trego KS**

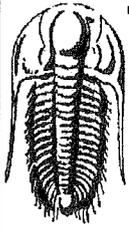
**Edward 1-32**

Start Date: 2010.04.10 @ 20:04:44

End Date: 2010.04.11 @ 01:17:38

Job Ticket #: 38160                      DST #: 2

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

ATTN: Marc Downing

Job Ticket: 38160

DST#: 2

Test Start: 2010.04.10 @ 20:04:44

## GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:52:39

Time Test Ended: 01:17:38

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3696.00 ft (KB) To 3738.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3738.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8675**

**Outside**

Press@RunDepth: 24.47 psig @ 3699.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.10

End Date: 2010.04.11

Last Calib.: 2010.04.11

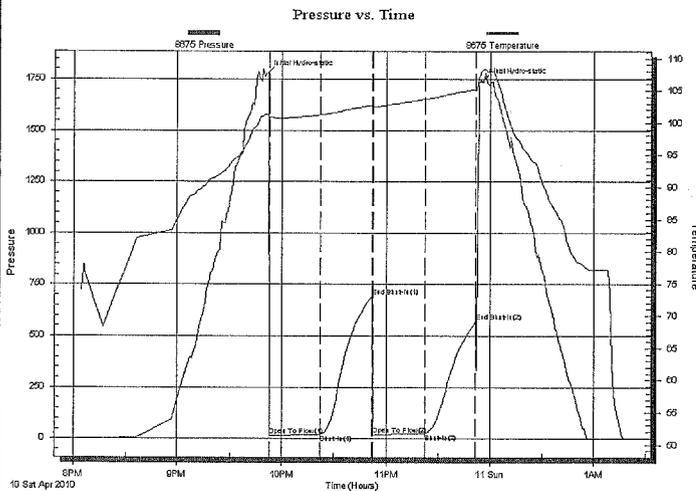
Start Time: 20:04:44

End Time: 01:17:38

Time On Btm: 2010.04.10 @ 21:51:09

Time Off Btm: 2010.04.10 @ 23:54:39

TEST COMMENT: IFP - weak blow throughout 1/4" - 1/2"  
ISI - no blow back  
FFP - no blow  
FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.89	101.27	Initial Hydro-static
2	14.43	100.55	Open To Flow (1)
31	19.34	101.25	Shut-In(1)
61	692.87	102.74	End Shut-In(1)
61	20.58	102.34	Open To Flow (2)
91	24.47	103.66	Shut-In(2)
121	570.27	105.25	End Shut-In(2)
124	1737.13	107.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38160

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2010.04.10 @ 20:04:44

**Tool Information**

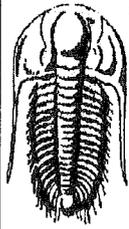
Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 51.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3696.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3681.00	
Hydraulic tool	5.00			3686.00	
Packer	5.00			3691.00	20.00 Bottom Of Top Packer
Packer	5.00			3696.00	
Stubb	1.00			3697.00	
Perforations	1.00			3698.00	
Change Over Sub	1.00			3699.00	
Recorder	0.00	8647	Inside	3699.00	
Recorder	0.00	8675	Outside	3699.00	
Blank Spacing	31.00			3730.00	
Change Over Sub	1.00			3731.00	
Perforations	4.00			3735.00	
Bullnose	3.00			3738.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38160

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2010.04.10 @ 20:04:44

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.93 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 bbl
3.00	mud 100%	0.015

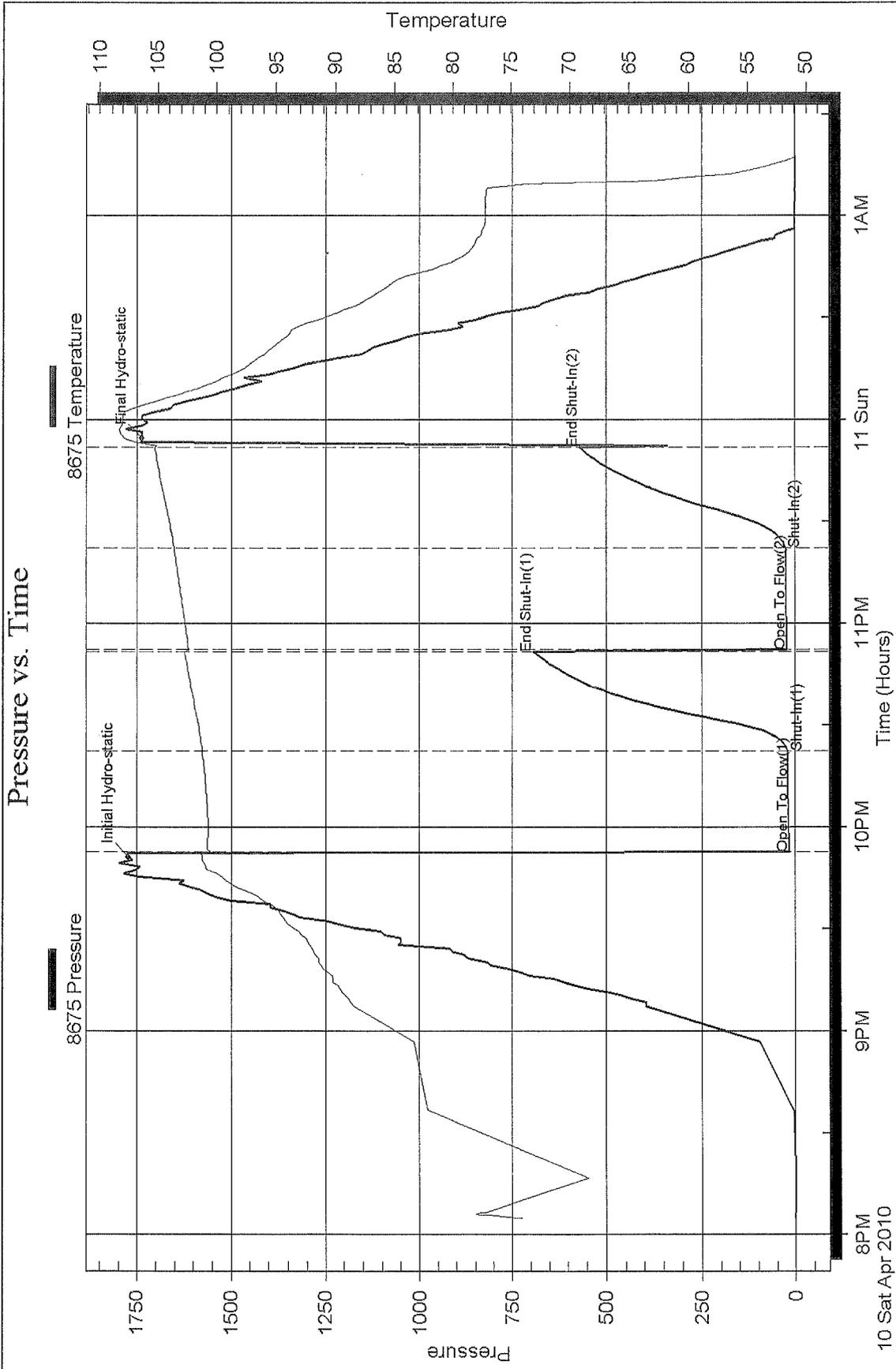
Total Length: 3.00 ft      Total Volume: 0.015 bbl

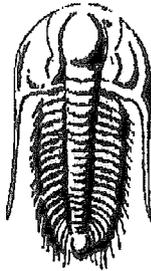
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 372  
Hays, KS 67601

ATTN: Marc Downing

**32 12S 21W Trego KS**

**Edward 1-32**

Start Date: 2010.04.11 @ 23:06:03

End Date: 2010.04.12 @ 04:50:57

Job Ticket #: 38161                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Downing Nelson Oil Co

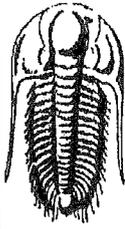
Edward 1-32

32 12S 21W Trego KS

DST # 3

Marmaton

2010.04.11



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38161

**DST#: 3**

ATTN: Marc Downing

Test Start: 2010.04.11 @ 23:06:03

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:28

Time Test Ended: 04:50:57

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: **3874.00 ft (KB) To 3894.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3894.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8647 Below (Straddle)**

Press@RunDepth: 255.76 psig @ 3904.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.11

End Date:

2010.04.12

Last Calib.: 2010.04.12

Start Time: 23:06:03

End Time:

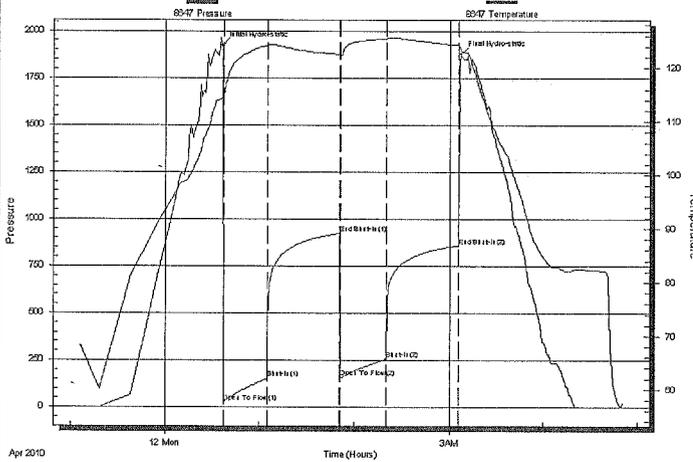
04:50:57

Time On Btmr 2010.04.12 @ 00:36:28

Time Off Btmr 2010.04.12 @ 03:06:58

**TEST COMMENT:** IFP - BOB 7 min.  
ISI - no blow back  
FFP - BOB 9 min.  
FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

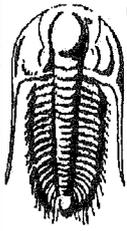
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.74	114.44	Initial Hydro-static
1	27.72	114.60	Open To Flow (1)
29	151.28	124.22	Shut-In(1)
75	922.91	122.56	End Shut-In(1)
75	157.53	122.11	Open To Flow (2)
104	255.76	125.45	Shut-In(2)
149	858.99	124.22	End Shut-In(2)
151	1876.76	123.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
525.00	MW 95%W, 10%M	7.08

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38161

**DST#: 3**

ATTN: Marc Downing

Test Start: 2010.04.11 @ 23:06:03

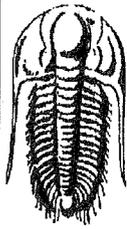
### Tool Information

Drill Pipe:	Length: 3833.00 ft	Diameter: 3.80 inches	Volume: 53.77 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 53.92 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3874.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3894.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	150.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3859.00	
Hydraulic tool	5.00			3864.00	
Packer	5.00			3869.00	20.00 Bottom Of Top Packer
Packer	5.00			3874.00	
Stubb	1.00			3875.00	
Perforations	4.00			3879.00	
Recorder	0.00	8675	Inside	3879.00	
Recorder	0.00	8371	Outside	3879.00	
Perforations	10.00			3889.00	
Blank Off Sub	1.00			3890.00	
Blank Spacing	4.00			3894.00	20.00 Tool Interval
Packer	5.00			3899.00	
Stubb	1.00			3900.00	
Perforations	4.00			3904.00	
Recorder	0.00	8647	Below	3904.00	
Change Over Sub	1.00			3905.00	
Blank Spacing	95.00			4000.00	
Change Over Sub	1.00			4001.00	
Bullnose	3.00			4004.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 150.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38161

**DST#: 3**

ATTN: Marc Downing

Test Start: 2010.04.11 @ 23:06:03

## Mud and Cushion Information

Mud Type: Water

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.73 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
525.00	MW 95%W, 10%M	7.082

Total Length: 525.00 ft      Total Volume: 7.082 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

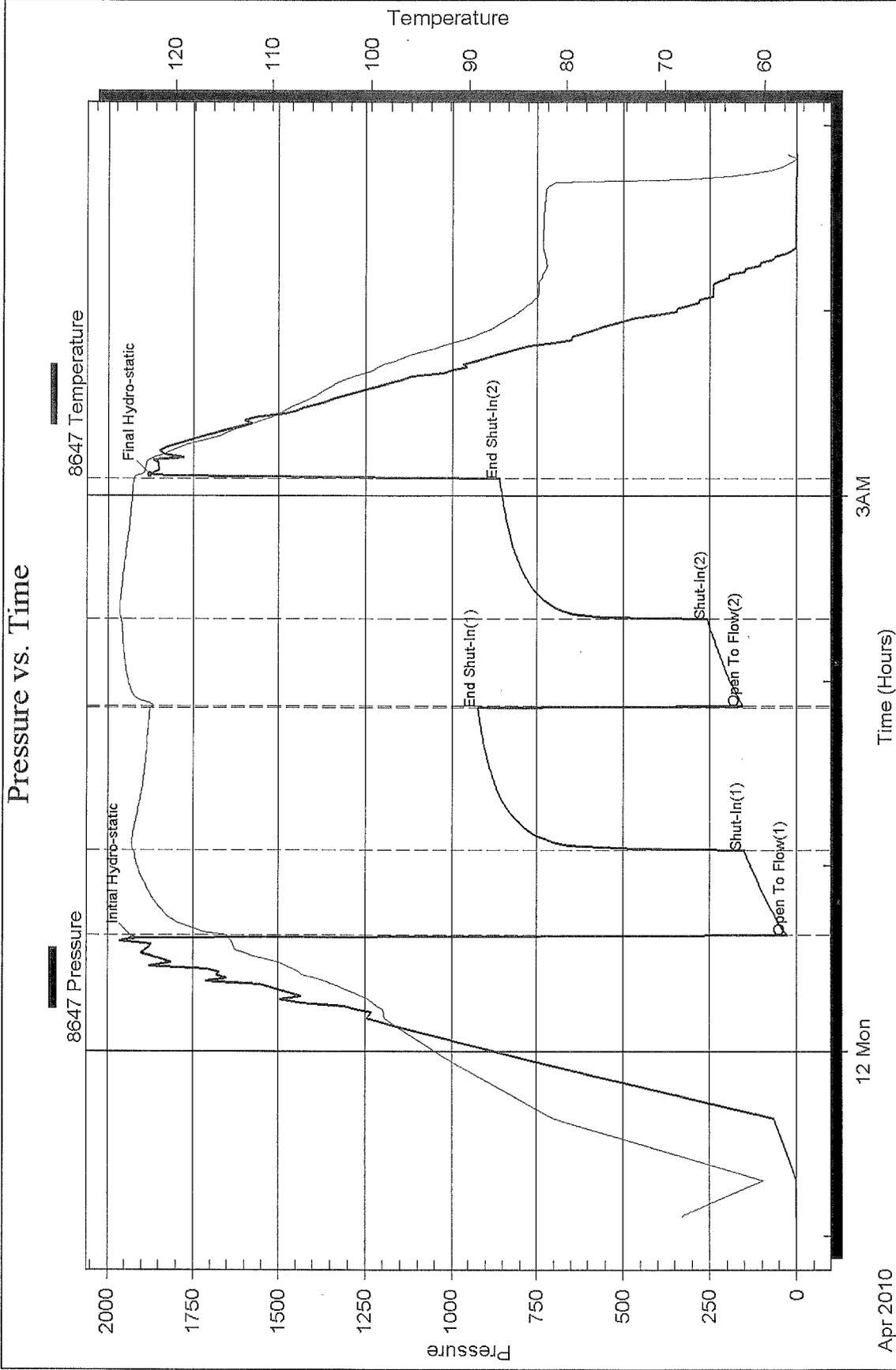
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.364 @ 56F = 23000 ppm chlorides

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 372  
Hays, KS 67601

ATTN: Marc Downing

**32 12S 21W Trego KS**

**Edward 1-32**

Start Date: 2010.04.12 @ 05:35:10

End Date: 2010.04.12 @ 12:12:04

Job Ticket #: 38162                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

ATTN: Marc Dow ning

Job Ticket: 38162

**DST#: 4**

Test Start: 2010.04.12 @ 05:35:10

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:03:05

Time Test Ended: 12:12:04

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

**Interval: 3897.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 4001.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8647**

**Below (Straddle)**

Press@RunDepth: 746.52 psig @ 3969.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.12

End Date: 2010.04.12

Last Calib.: 2010.04.12

Start Time: 05:35:10

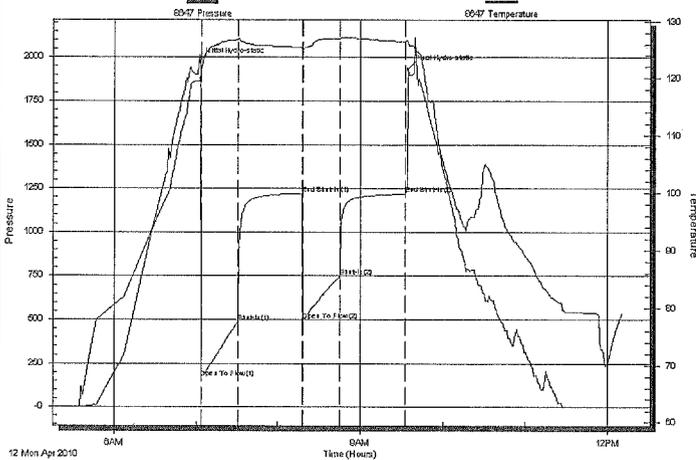
End Time: 12:12:04

Time On Btm: 2010.04.12 @ 07:02:05

Time Off Btm: 2010.04.12 @ 09:34:35

**TEST COMMENT:** IFP - BOB 2 min.  
ISI - no blow back  
FFP - BOB 2 min.  
FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

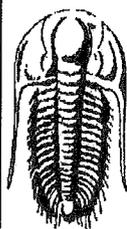
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.13	120.18	Initial Hydro-static
1	167.03	119.96	Open To Flow (1)
29	481.61	126.71	Shut-In(1)
76	1220.19	125.43	End Shut-In(1)
77	494.21	125.30	Open To Flow (2)
104	746.52	126.98	Shut-In(2)
151	1217.46	126.42	End Shut-In(2)
153	1934.48	126.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1575.00	MW 90%W, 10%M	21.81

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

ATTN: Marc Downing

Job Ticket: 38162

**DST#: 4**

Test Start: 2010.04.12 @ 05:35:10

## Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.80 inches	Volume: 54.23 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3897.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3950.00 ft			
Interval between Packers:	53.00 ft			
Tool Length:	129.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3882.00	
Hydraulic tool	5.00			3887.00	
Packer	5.00			3892.00	20.00 Bottom Of Top Packer
Packer	5.00			3897.00	
Stubb	1.00			3898.00	
Perforations	3.00			3901.00	
Change Over Sub	1.00			3902.00	
Blank Spacing	32.00			3934.00	
Change Over Sub	1.00			3935.00	
Recorder	0.00	8675	Inside	3935.00	
Recorder	0.00	8371	Outside	3935.00	
Perforations	10.00			3945.00	
Blank Off Sub	1.00			3946.00	
Blank Spacing	4.00			3950.00	53.00 Tool Interval
Packer	5.00			3955.00	
Stubb	1.00			3956.00	
Perforations	13.00			3969.00	
Recorder	0.00	8647	Below	3969.00	
Change Over Sub	1.00			3970.00	
Blank Spacing	32.00			4002.00	
Change Over Sub	1.00			4003.00	
Bullnose	3.00			4006.00	56.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>129.00</b>				



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TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co

**Edward 1-32**

PO Box 372  
Hays, KS 67601

**32 12S 21W Trego KS**

Job Ticket: 38162

**DST#: 4**

ATTN: Marc Downing

Test Start: 2010.04.12 @ 05:35:10

## 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:

23000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1575.00	MW 90%W, 10%M	21.811

Total Length: 1575.00 ft

Total Volume: 21.811 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .320 @ 65F = 23000 ppm chlorides

### Pressure vs. Time

