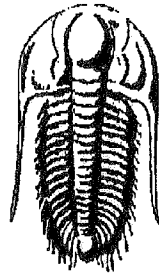


15-135-25040

1-17s-22w

And



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Downing Nelson Oil Co.**

PO Box 372  
Hays, KS 67601

ATTN: Gator

**1-17s-22w/Ness KS**

**Barber "A" #1-1**

Start Date: 2010.03.09 @ 02:42:36

End Date: 2010.03.09 @ 09:52:00

Job Ticket #: 38115                      DST #: 1

RECEIVED

MAY 24 2010

KCC WICHITA

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

Downing Nelson Oil Co.

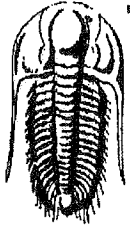
Barber "A" #1-1

1-17s-22w/Ness KS

DST # 1

Miss

2010.03.09



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Downing Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38115

**DST#: 1**

ATTN: Gator

Test Start: 2010.03.09 @ 02:42:36

### GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 04:51:01

Time Test Ended: 09:52:00

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **4186.00 ft (KB) To 4283.00 ft (KB) (TVD)**

Reference Elevations: **2296.00 ft (KB)**

Total Depth: **4283.00 ft (KB) (TVD)**

**2288.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition:

**KB to GR/CF: 8.00 ft**

**Serial #: 8371**

**Outside**

Press@RunDepth: **294.82 psig @ 4191.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.03.09**

End Date:

**2010.03.09**

Last Calib.: **2010.03.09**

Start Time: **02:42:36**

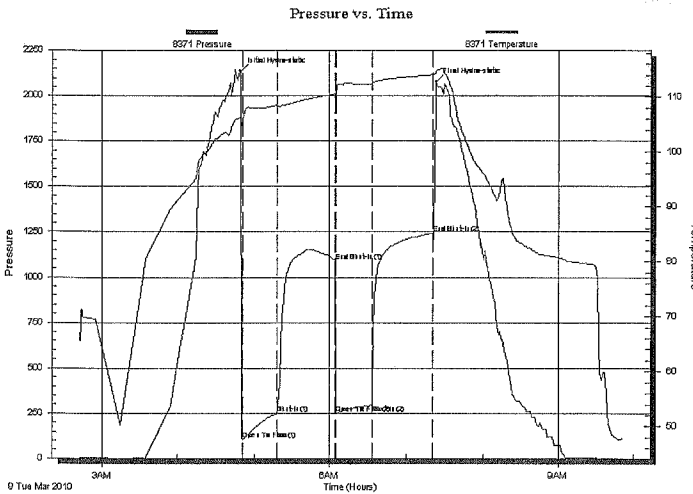
End Time:

**09:52:00**

Time On Btm: **2010.03.09 @ 04:49:31**

Time Off Btm: **2010.03.09 @ 07:23:00**

TEST COMMENT: IFP - BOB 4 min.  
ISI - no blow back  
FFP - BOB 16 min.  
FSI - 6 1/2" blow back



### PRESSURE SUMMARY

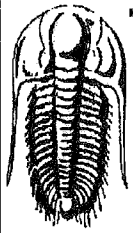
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.63	105.99	Initial Hydro-static
2	104.19	105.41	Open To Flow (1)
29	247.76	108.49	Shut-In(1)
76	1090.69	110.56	End Shut-In(1)
76	249.81	110.31	Open To Flow (2)
104	294.82	112.40	Shut-In(2)
151	1242.27	114.04	End Shut-In(2)
154	2077.64	114.59	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
155.00	VSGOCMW 10%G, 3%O, 77%W, 10%M	1.89
155.00	GO & WCM 25%G, 15%O, 30%W, 30%M	2.17
65.00	GO & WCM 10%G, 10%O, 10%W, 70%M	0.91
90.00	SGOCM 5%G, 5%O, 90%M	1.26
110.00	FREE OIL 95%O, 5%M	1.54
0.00	105' GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38115

**DST#: 1**

ATTN: Gator

Test Start: 2010.03.09 @ 02:42:36

## Tool Information

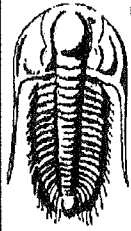
Drill Pipe:	Length: 4149.00 ft	Diameter: 3.80 inches	Volume: 58.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 58.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4186.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00			4176.00	
Packer	5.00			4181.00	20.00 Bottom Of Top Packer
Packer	5.00			4186.00	
Stubb	1.00			4187.00	
Perforations	3.00			4190.00	
Change Over Sub	1.00			4191.00	
Recorder	0.00	8018	Inside	4191.00	
Recorder	0.00	8371	Outside	4191.00	
Blank Spacing	63.00			4254.00	
Change Over Sub	1.00			4255.00	
Perforations	25.00			4280.00	
Bullnose	3.00			4283.00	97.00 Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38115

**DST#: 1**

ATTN: Gator

Test Start: 2010.03.09 @ 02:42:36

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.13 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	VSGOCMW 10%G, 3%O, 77%W, 10%M	1.892
155.00	GO & WCM 25%G, 15%O, 30%W, 30%M	2.174
65.00	GO & WCM 10%G, 10%O, 10%W, 70%M	0.912
90.00	SGOCM 5%G, 5%O, 90%M	1.262
110.00	FREE OIL 95%O, 5%M	1.543
0.00	105' GIP	0.000

Total Length: 575.00 ft

Total Volume: 7.783 bbl

Num Fluid Samples: 0

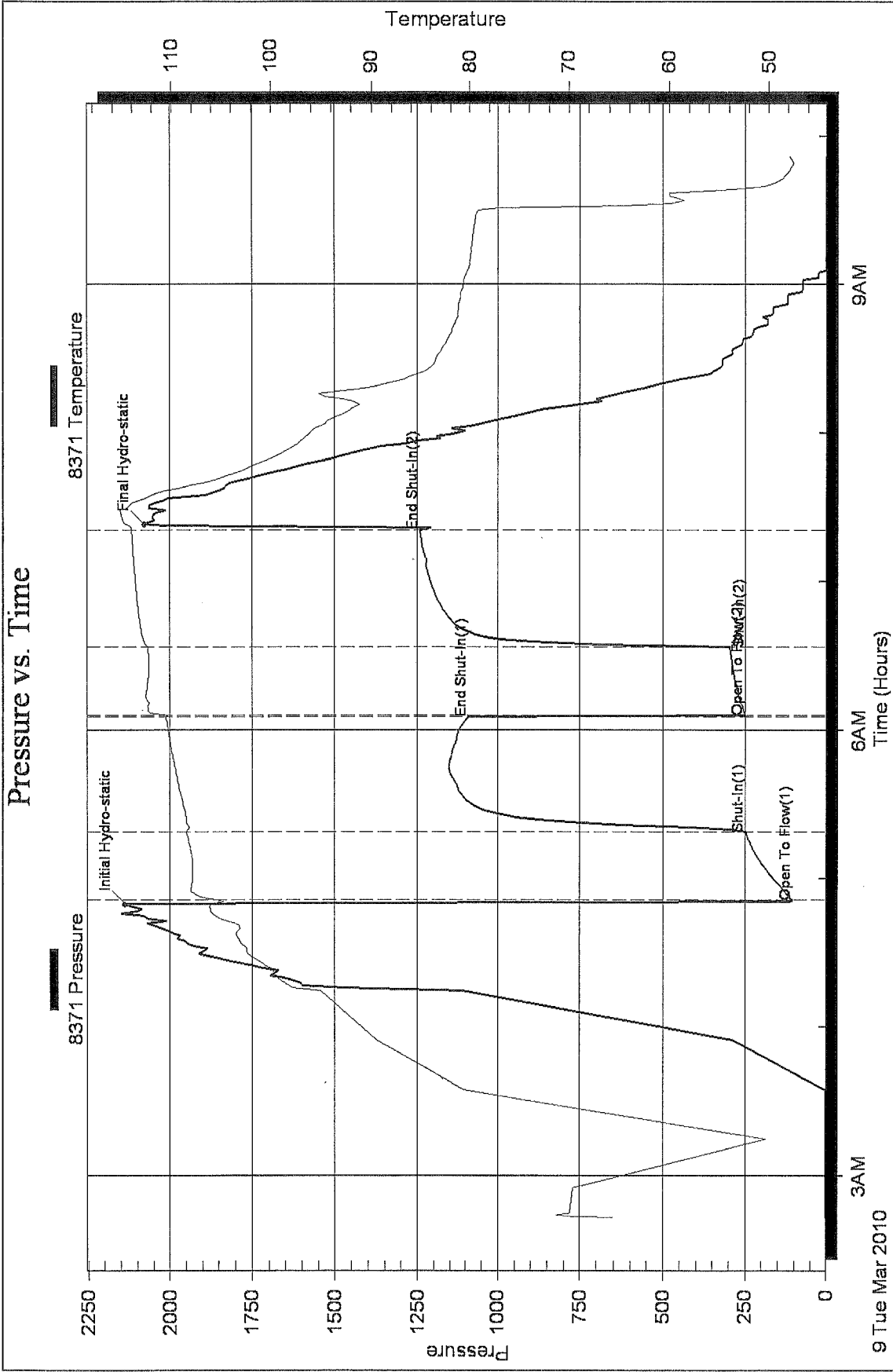
Num Gas Bombs: 0

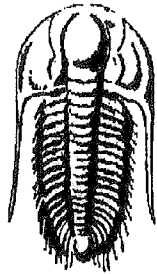
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .390 @ 45F = 28000 chlorides





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.**

PO Box 372  
Hays, KS 67601

ATTN: Gator

**1-17s-22w/Ness KS**

**Barber "A" #1-1**

Start Date: 2010.03.09 @ 15:35:05

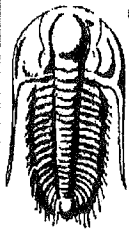
End Date: 2010.03.09 @ 22:39:59

Job Ticket #: 38116                      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

Dow ning Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38116

DST#: 2

ATTN: Gator

Test Start: 2010.03.09 @ 15:35:05

## GENERAL INFORMATION:

Formation: Miss (2)

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:29:30

Time Test Ended: 22:39:59

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 4223.00 ft (KB) To 4283.00 ft (KB) (TVD)

Reference Elevations: 2296.00 ft (KB)

Total Depth: 4283.00 ft (KB) (TVD)

2288.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8371**

Outside

Press@RunDepth: 157.39 psig @ 4228.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.09

End Date: 2010.03.09

Last Calib.: 2010.03.09

Start Time: 15:35:05

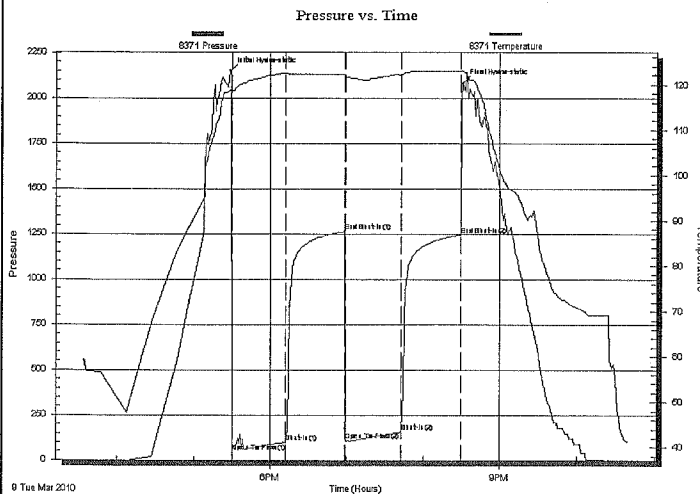
End Time: 22:39:59

Time On Btm: 2010.03.09 @ 17:28:30

Time Off Btm: 2010.03.09 @ 20:30:59

TEST COMMENT: IFP - BOB 16 min.  
ISI - 1" blow back - died 27 min.  
FFP - BOB 16 min.  
FSI - 3/4" blow back - died 21 min.

## PRESSURE SUMMARY



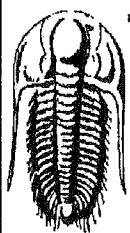
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.49	118.88	Initial Hydro-static
1	48.80	118.34	Open To Flow (1)
44	101.41	122.50	Shut-In(1)
90	1264.02	122.28	End Shut-In(1)
91	108.14	121.80	Open To Flow (2)
135	157.39	122.18	Shut-In(2)
181	1246.39	122.97	End Shut-In(2)
183	2084.16	122.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	GOCM 10%G, 10%O, 80%M	1.12
240.00	FREE OIL 95%, 5%M	3.37
0.00	710' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38116

**DST#: 2**

ATTN: Gator

Test Start: 2010.03.09 @ 15:35:05

### Tool Information

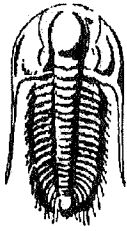
Drill Pipe:	Length: 4181.00 ft	Diameter: 3.80 inches	Volume: 58.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 58.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4223.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4208.00	
Hydraulic tool	5.00			4213.00	
Packer	5.00			4218.00	20.00 Bottom Of Top Packer
Packer	5.00			4223.00	
Stubb	1.00			4224.00	
Perforations	3.00			4227.00	
Change Over Sub	1.00			4228.00	
Recorder	0.00	8018	Inside	4228.00	
Recorder	0.00	8371	Outside	4228.00	
Blank Spacing	31.00			4259.00	
Change Over Sub	1.00			4260.00	
Perforations	20.00			4280.00	
Bullnose	3.00			4283.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning Nelson Oil Co.

**Barber "A" #1-1**

PO Box 372  
Hays, KS 67601

**1-17s-22w/Ness KS**

Job Ticket: 38116

**DST#: 2**

ATTN: Gator

Test Start: 2010.03.09 @ 15:35:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.36 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
100.00	GOCM 10%G, 10%O, 80%M	1.120
240.00	FREE OIL 95%, 5%M	3.367
0.00	710' GIP	0.000

Total Length: 340.00 ft

Total Volume: 4.487 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

