



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Marc Downing

### **McCoy-Pelton #2-29**

### **29-20s-20w Pawnee,KS**

Start Date: 2012.02.26 @ 16:36:17

End Date: 2012.02.26 @ 20:23:30

Job Ticket #: 46440                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.29 @ 09:13:55



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc.

**29-20s-20w Pawnee, KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46440

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.02.26 @ 16:36:17

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened:

Time Test Ended: 20:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

**Interval: 4256.00 ft (KB) To 4298.00 ft (KB) (TVD)**

Reference Elevations: 2160.00 ft (KB)

Total Depth: 4298.00 ft (KB) (TVD)

2150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: psig @ 4260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.26

End Date:

2012.02.26

Last Calib.:

2012.02.27

Start Time: 16:36:17

End Time:

20:23:30

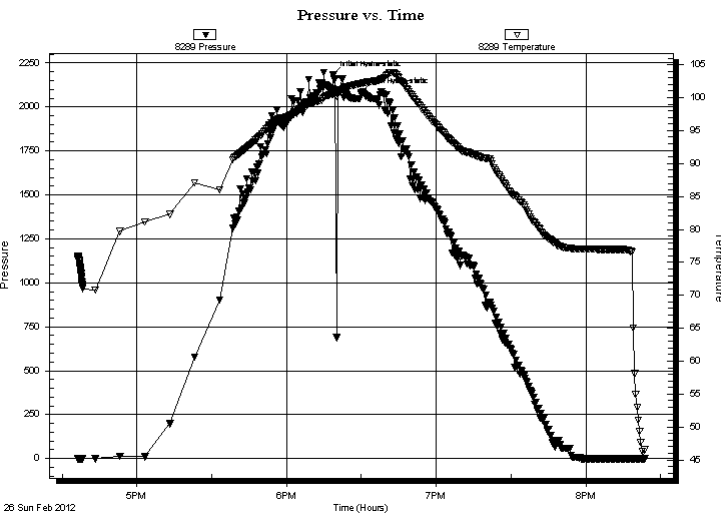
Time On Btm:

2012.02.26 @ 18:18:45

Time Off Btm:

2012.02.26 @ 18:29:45

TEST COMMENT: IFP-Packer Failure, Pull Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.49	100.55	Initial Hydro-static
11	2081.72	102.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Drilling Mud	1.83

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co., Inc.

**29-20s-20w Pawnee, KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46440

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.02.26 @ 16:36:17

## Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 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: 62000.00 lb
			<u>Total Volume: 59.44 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4256.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4229.00	
Shut In Tool	5.00			4234.00	
Hydraulic tool	5.00			4239.00	
Jars	5.00			4244.00	
Safety Joint	2.00			4246.00	
Packer	5.00			4251.00	28.00 Bottom Of Top Packer
Packer	5.00			4256.00	
Stubb	1.00			4257.00	
Perforations	3.00			4260.00	
Recorder	0.00	8366	Inside	4260.00	
Recorder	0.00	8289	Outside	4260.00	
Change Over Sub	1.00			4261.00	
Blank Spacing	31.00			4292.00	
Change Over Sub	1.00			4293.00	
Perforations	2.00			4295.00	
Bullnose	3.00			4298.00	42.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>70.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co., Inc.

**29-20s-20w Pawnee, KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46440

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.02.26 @ 16:36:17

## 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Drilling Mud	1.831

Total Length: 150.00 ft      Total Volume: 1.831 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

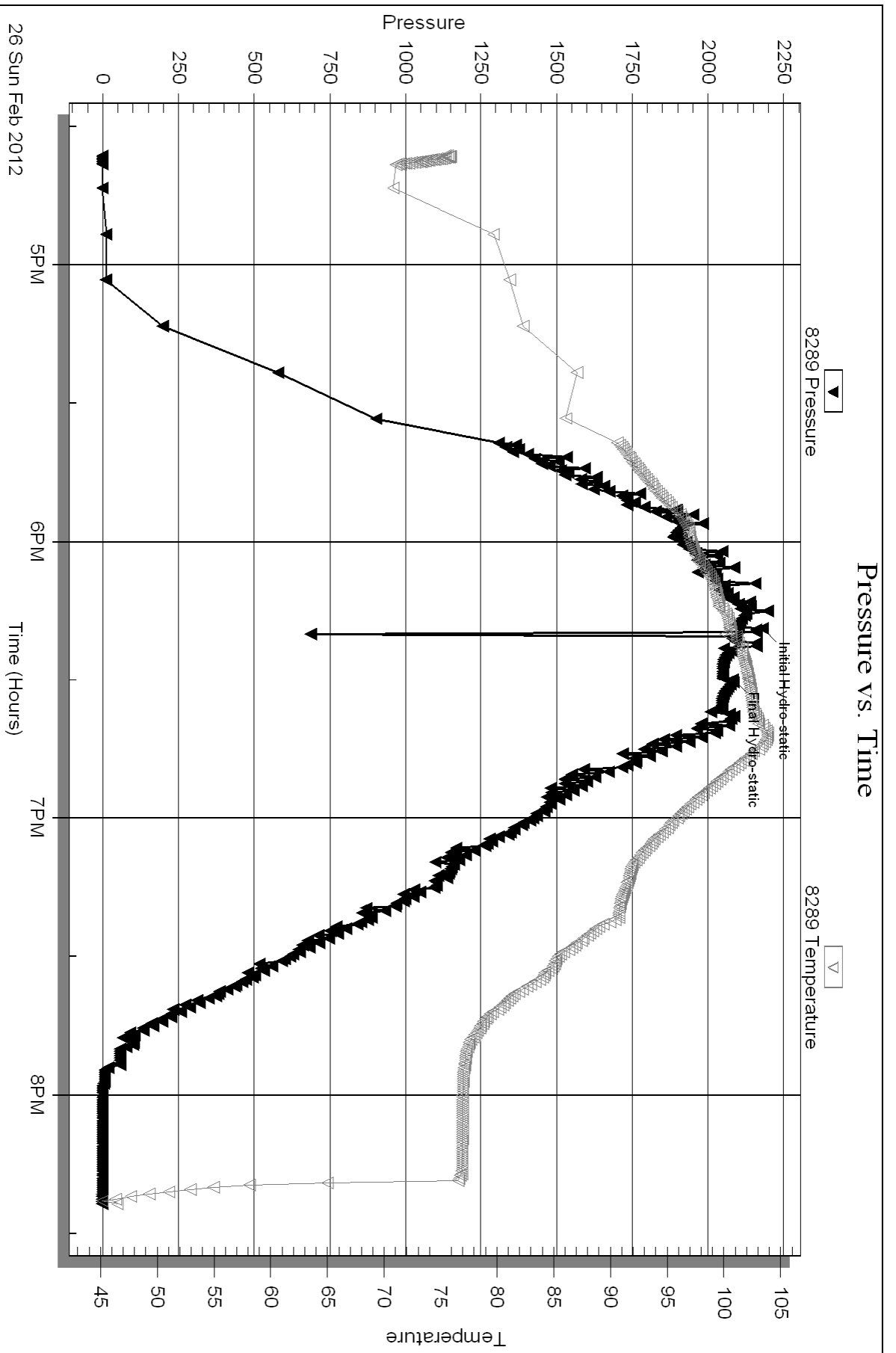
Recovery Comments:

Serial #: 8289

Outside Downing Nelson Oil Co., Inc.

McCoy-Pellon #2-29

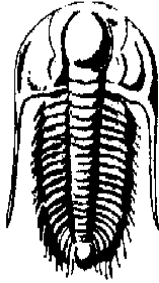
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46440

Printed: 2012.02.29 @ 09:13:57



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

## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Marc Downing

**McCoy-Pelton #2-29**

**29-20s-20w Pawnee,KS**

Start Date: 2012.02.26 @ 20:45:48

End Date: 2012.02.27 @ 03:50:03

Job Ticket #: 46441                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.29 @ 09:13:11

Downing Nelson Oil Co., Inc.

29-20s-20w Pawnee,KS

McCoy-Pelton #2-29

DST # 2

Mississippi

2012.02.26



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46441

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2012.02.26 @ 20:45:48

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 22:40:33

Time Test Ended: 03:50:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 4234.00 ft (KB) To 4298.00 ft (KB) (TVD)**

Reference Elevations: 2160.00 ft (KB)

Total Depth: 4298.00 ft (KB) (TVD)

2150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 416.57 psig @ 4237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.26

End Date:

2012.02.27

Last Calib.:

2012.02.27

Start Time: 20:45:50

End Time:

03:50:03

Time On Btm:

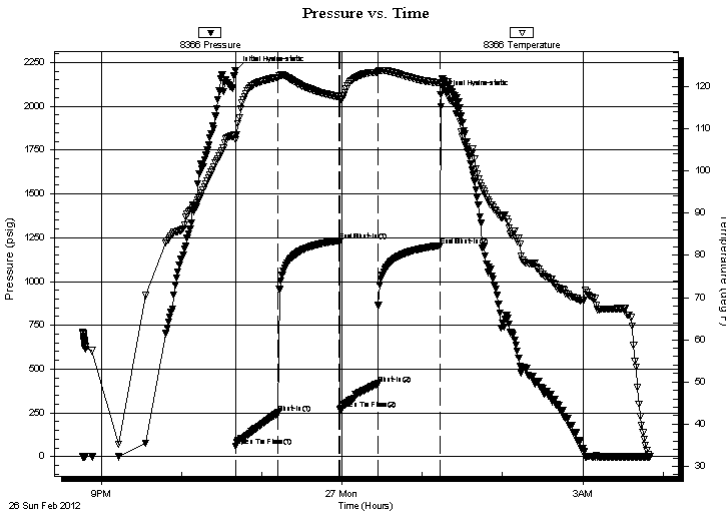
2012.02.26 @ 22:40:18

Time Off Btm:

2012.02.27 @ 01:13:48

**TEST COMMENT:** IFP-Strong, BOB in 4 Min.  
ISI-Blow back Built to 6"  
FFP-Strong, BOB in 4 Min.  
FSI-Blow back Built to 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.18	108.51	Initial Hydro-static
1	61.41	107.35	Open To Flow (1)
32	251.03	122.16	Shut-In(1)
78	1233.02	117.53	End Shut-In(1)
78	273.00	117.07	Open To Flow (2)
107	416.57	123.35	Shut-In(2)
153	1204.74	120.78	End Shut-In(2)
154	2068.34	120.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy Muddy Oil-30%G-60%O-10%M	0.57
880.00	Gassy Oil-30%G-70%O	12.34
0.00	440' Gas In Pipe	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co., Inc.

**29-20s-20w Pawnee, KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46441

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.02.26 @ 20:45:48

## Tool Information

Drill Pipe:	Length: 4196.00 ft	Diameter: 3.80 inches	Volume: 58.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 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: 80000.00 lb
			<u>Total Volume: 59.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4234.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4207.00	
Shut In Tool	5.00			4212.00	
Hydraulic tool	5.00			4217.00	
Jars	5.00			4222.00	
Safety Joint	2.00			4224.00	
Packer	5.00			4229.00	28.00 Bottom Of Top Packer
Packer	5.00			4234.00	
Stubb	1.00			4235.00	
Perforations	2.00			4237.00	
Recorder	0.00	8366	Inside	4237.00	
Recorder	0.00	8289	Outside	4237.00	
Change Over Sub	1.00			4238.00	
Blank Spacing	31.00			4269.00	
Change Over Sub	1.00			4270.00	
Perforations	25.00			4295.00	
Bullnose	3.00			4298.00	64.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>92.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co., Inc.

**29-20s-20w Pawnee, KS**

PO Box 1019  
Hays, KS 67601

**McCoy-Pelton #2-29**

Job Ticket: 46441      **DST#: 2**

ATTN: Marc Downing

Test Start: 2012.02.26 @ 20:45:48

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4600.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gassy Muddy Oil-30%G-60%O-10%M	0.568
880.00	Gassy Oil-30%G-70%O	12.344
0.00	440' Gas In Pipe	0.000

Total Length: 940.00 ft      Total Volume: 12.912 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8366

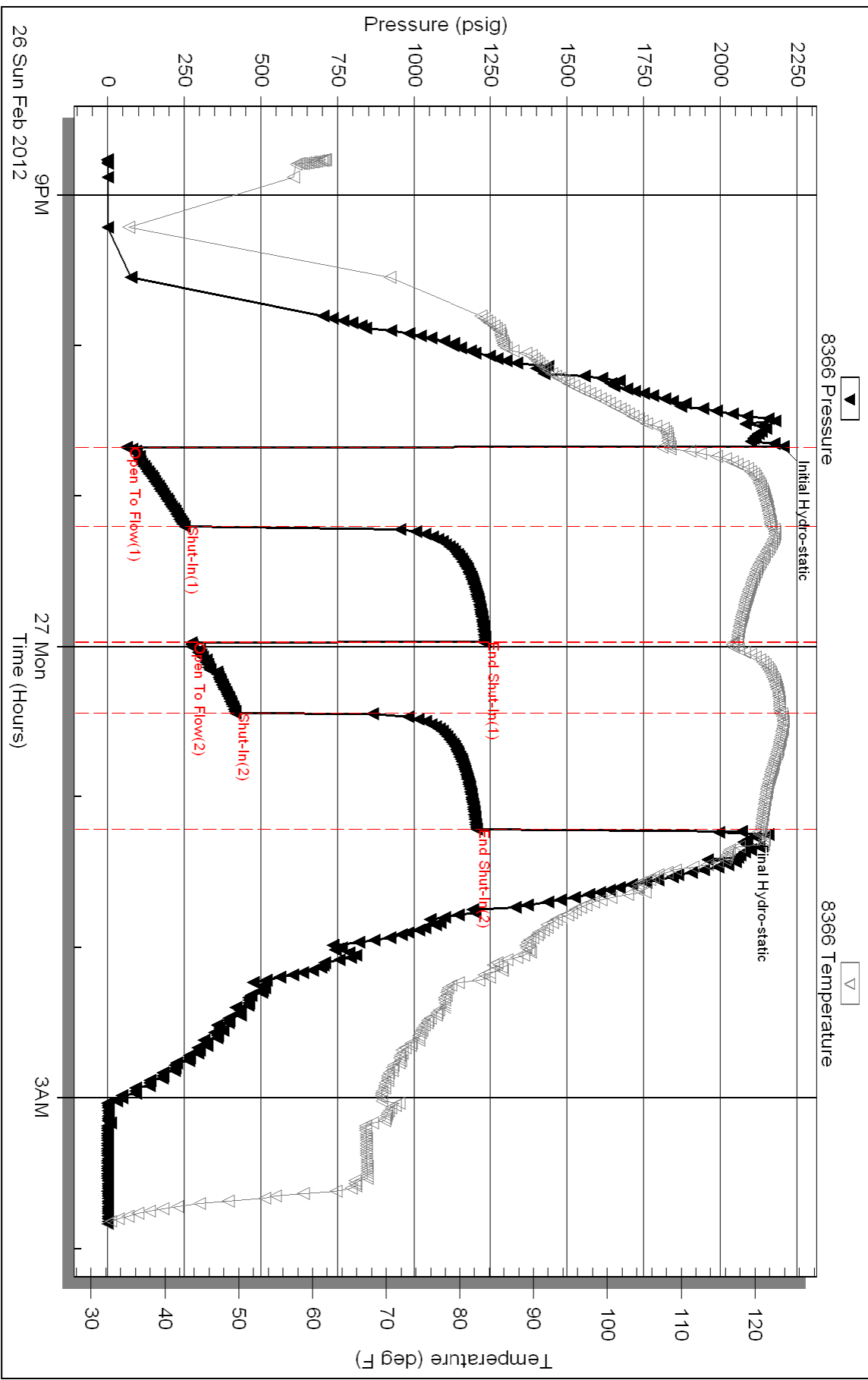
Inside

Downing Nelson Oil Co., Inc.

McCoy-Pellon #2-29

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46441

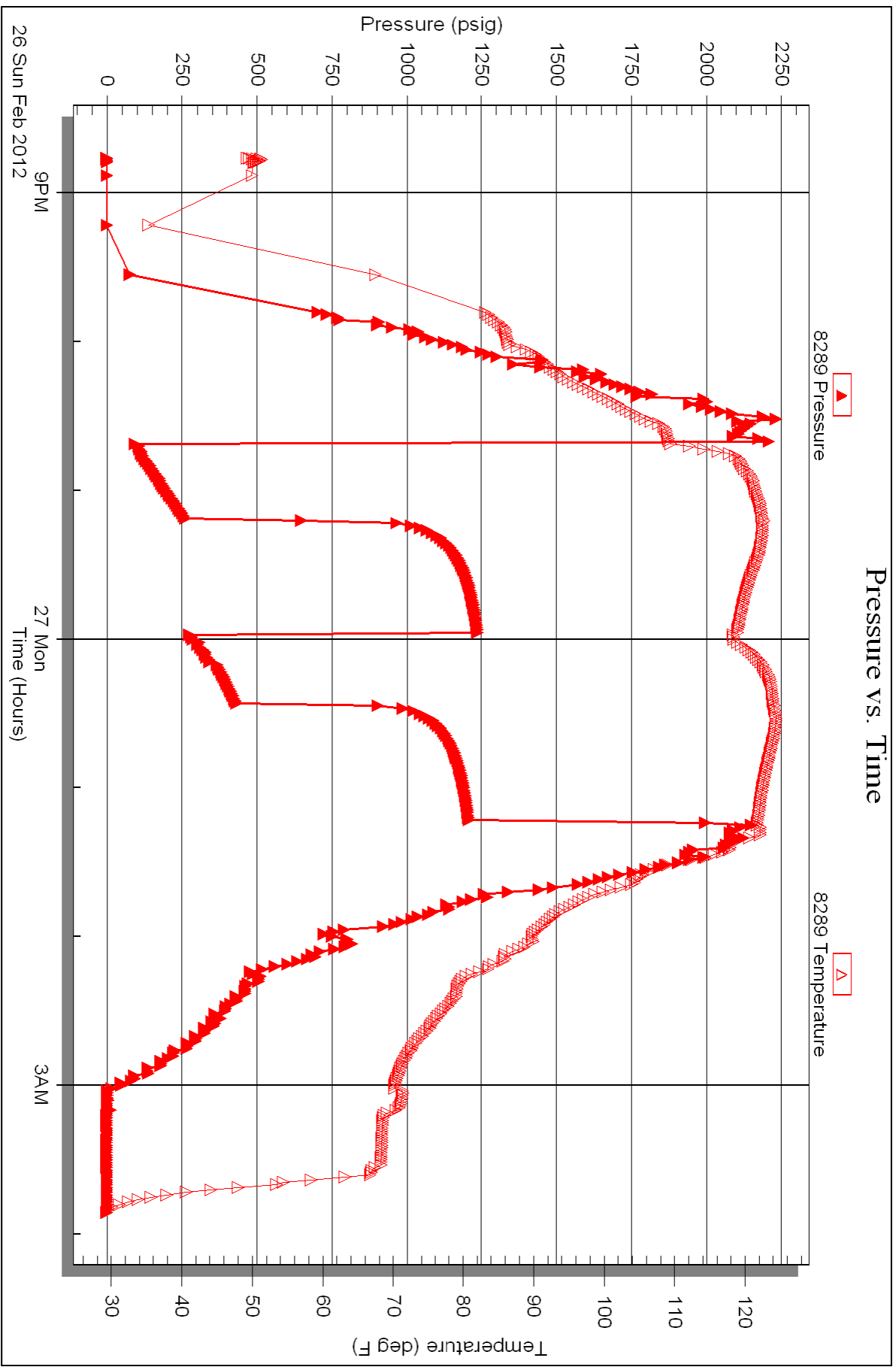
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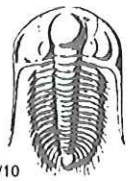
Serial #: 8289

Outside Downing Nelson Oil Co., Inc.

McCoy-Pellon #2-29

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 28 2012

## Test Ticket

NO. 46440

BY: \_\_\_\_\_

Well Name & No. McCoy - Pelton #229 Test No. 1 Date 2-26-12  
 Company Downing Nelson Oil Co. Inc. Elevation 2160 KB 2150 GL  
 Address PO Box 1019, Hays, KS 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #4  
 Location: Sec. 29 Twp. 20s Rge. 20w Co. Pawnee State KS

Interval Tested 4256 - 4298 Zone Tested Mississippi  
 Anchor Length 42' Drill Pipe Run 4227 Mud Wt. 9.2  
 Top Packer Depth 4251 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 4256 Wt. Pipe Run 0 WL 7.8  
 Total Depth 4298 Chlorides 4600 ppm System LCM 2<sup>FF</sup>

Blow Description IFP - Packer Failure, Pull Tool  
~~ISI -~~  
~~FFP -~~  
~~FSI -~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>Drilling Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1025' T-On Location 15:05  
 (B) First Initial Flow \_\_\_\_\_  Jars 250 T-Started 16:36  
 (C) First Final Flow \_\_\_\_\_  Safety Joint 75' T-Open 18:23  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 18:37  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 20:24  
 (F) Second Final Flow \_\_\_\_\_  Mileage 114 159.60 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1509.60  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1509.60

Approved By \_\_\_\_\_ Our Representative Don Mc Lemmon *Thank You*

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 28 2012

## Test Ticket

NO. 46441

BY: \_\_\_\_\_

Well Name & No. McCoy - Pelton #2-29 Test No. 2 Date 2-26-12  
 Company Downing Nelson Oil Co., Inc Elevation 2160 KB 2150 GL  
 Address PO Box 1019, Hays, Ks. 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #4  
 Location: Sec. 29 Twp. 20s Rge. 20w Co. Powder State Ks

Interval Tested 4234-4298 Zone Tested Mississippi  
 Anchor Length 64' Drill Pipe Run 4196 Mud Wt. 9.2  
 Top Packer Depth 4229 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 4234 Wt. Pipe Run 0 WL 7.8  
 Total Depth 4298 Chlorides 4600 ppm System LCM 2\*  
 Blow Description IFP - Strong, BOB in 4 min.  
ISI - Blowback Built to 6"  
FFP - Strong, BOB in 4 min.  
FSI - Blowback Built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>880</u>	<u>Cassy Oil</u>	<u>30</u>	<u>70</u>		
<u>60</u>	<u>Cassy Muddy Oil</u>	<u>30</u>	<u>60</u>		<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>440' GIP</u>	%gas	%oil	%water	%mud

Rec Total 940 BHT \_\_\_\_\_ Gravity 37 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2203  Test 1225 T-On Location 20124  
 (B) First Initial Flow 61  Jars 250 T-Started 2043  
 (C) First Final Flow 251  Safety Joint 75' T-Open 22134  
 (D) Initial Shut-In 1233  Circ Sub \_\_\_\_\_ T-Pulled 1:04  
 (E) Second Initial Flow 273  Hourly Standby \_\_\_\_\_ T-Out 3:45  
 (F) Second Final Flow 417  Mileage N/A Comments \_\_\_\_\_  
 (G) Final Shut-In 1205  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2068  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1550  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1550

Approved By \_\_\_\_\_ Our Representative Jaron McJannet Thank You

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.