



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays, KS.67601

ATTN: Marc Downing

**Patty #1-30**

**30-12s-21w Trego,KS**

Start Date: 2012.03.28 @ 21:50:22

End Date: 2012.03.29 @ 04:18:52

Job Ticket #: 47305                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.04 @ 10:53:09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47305

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.03.28 @ 21:50:22

## GENERAL INFORMATION:

Formation: **LKC-"A"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 23:36:07

Time Test Ended: 04:18:52

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

**Interval: 3600.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 72.40 psig @ 3602.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.28

End Date:

2012.03.29

Last Calib.:

2012.03.29

Start Time: 21:50:24

End Time:

04:18:52

Time On Btm:

2012.03.28 @ 23:35:22

Time Off Btm:

2012.03.29 @ 02:37:22

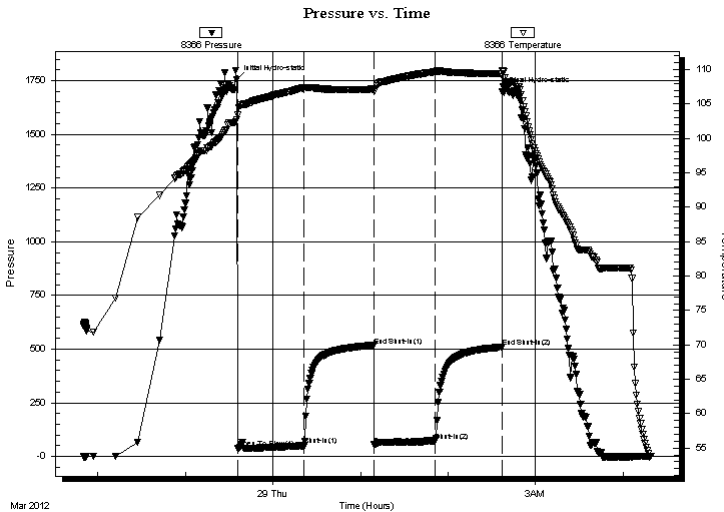
**TEST COMMENT:** IFP-Fair Blow , Built to 6"

ISI-Dead

FFP-Fair Blow , Built to 5-1/2"

FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.71	102.75	Initial Hydro-static
1	37.77	103.37	Open To Flow (1)
47	49.78	107.35	Shut-In(1)
94	516.19	107.15	End Shut-In(1)
95	53.94	106.87	Open To Flow (2)
136	72.40	109.70	Shut-In(2)
182	509.33	109.37	End Shut-In(2)
182	1698.91	109.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	VSOCMW-5%O-70%W-25%M	1.06
10.00	Free Oil	0.14
0.00	30' Gas In Pipe	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47305

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.03.28 @ 21:50:22

**GENERAL INFORMATION:**

Formation: **LKC-"A"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 23:36:07

Time Test Ended: 04:18:52

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

**Interval: 3600.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8289**

**Outside**

Press @RunDepth: psig @ 3602.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.28

End Date:

2012.03.29

Last Calib.:

2012.03.29

Start Time: 21:50:24

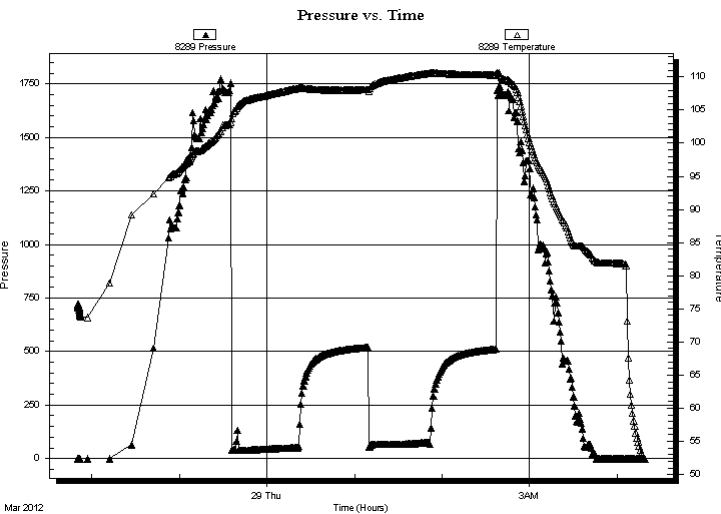
End Time:

04:19:22

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-Fair Blow , Built to 6"  
ISI-Dead  
FFP-Fair Blow , Built to 5-1/2"  
FSI-Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
95.00	VSOCMW-5%O-70%W-25%M	1.06
10.00	Free Oil	0.14
0.00	30' Gas In Pipe	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 Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47305

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.03.28 @ 21:50:22

## Tool Information

Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 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: 50.30 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3600.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	20.00 ft				
Tool Length:	41.00 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			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Packer	5.00			3595.00	21.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Perforations	1.00			3602.00	
Recorder	0.00	8366	Inside	3602.00	
Recorder	0.00	8289	Outside	3602.00	
Perforations	15.00			3617.00	
Bullnose	3.00			3620.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47305

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.03.28 @ 21:50:22

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
95.00	VSOCMW-5%O-70%W-25%M	1.059
10.00	Free Oil	0.140
0.00	30' Gas In Pipe	0.000

Total Length: 105.00 ft

Total Volume: 1.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

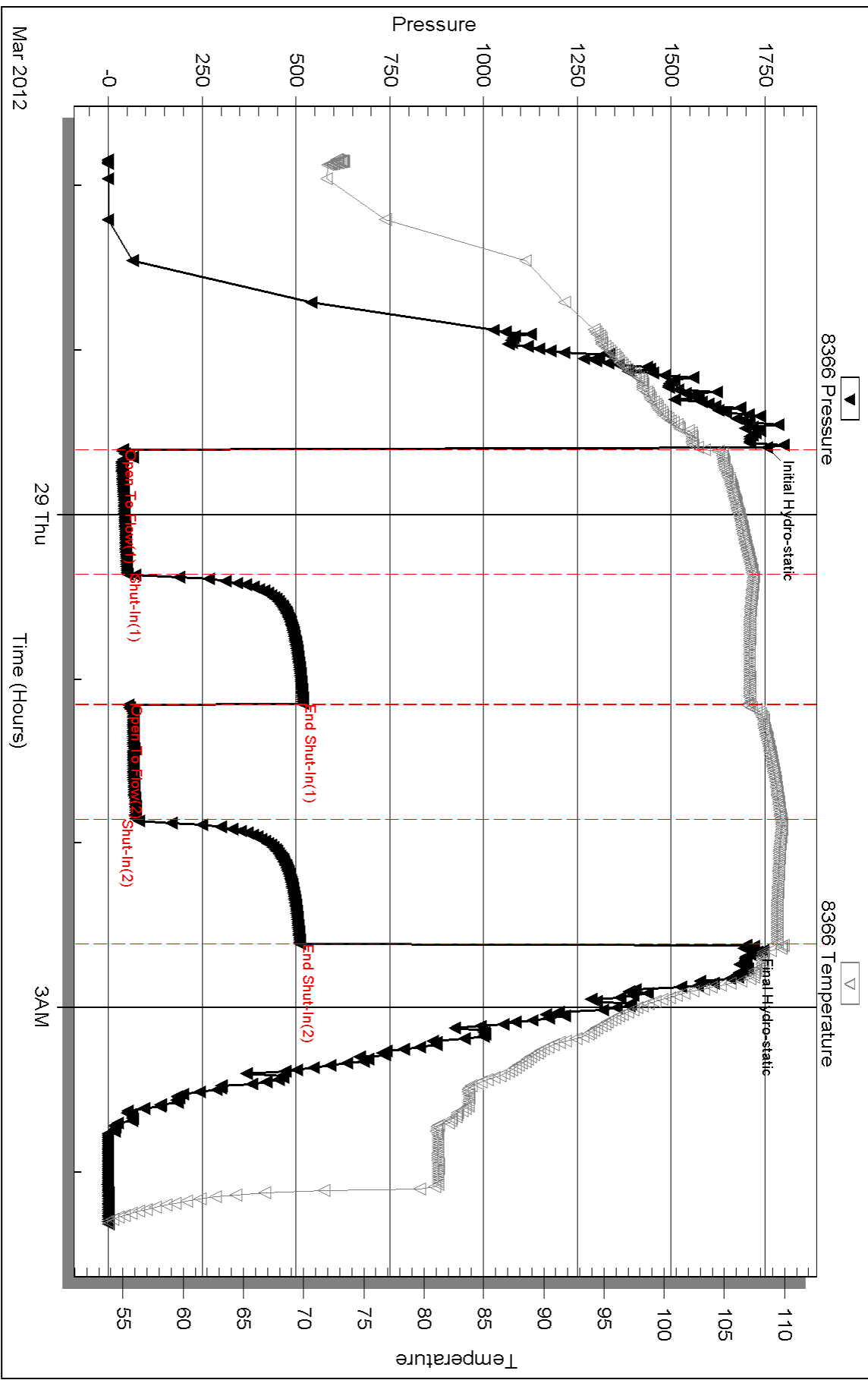
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

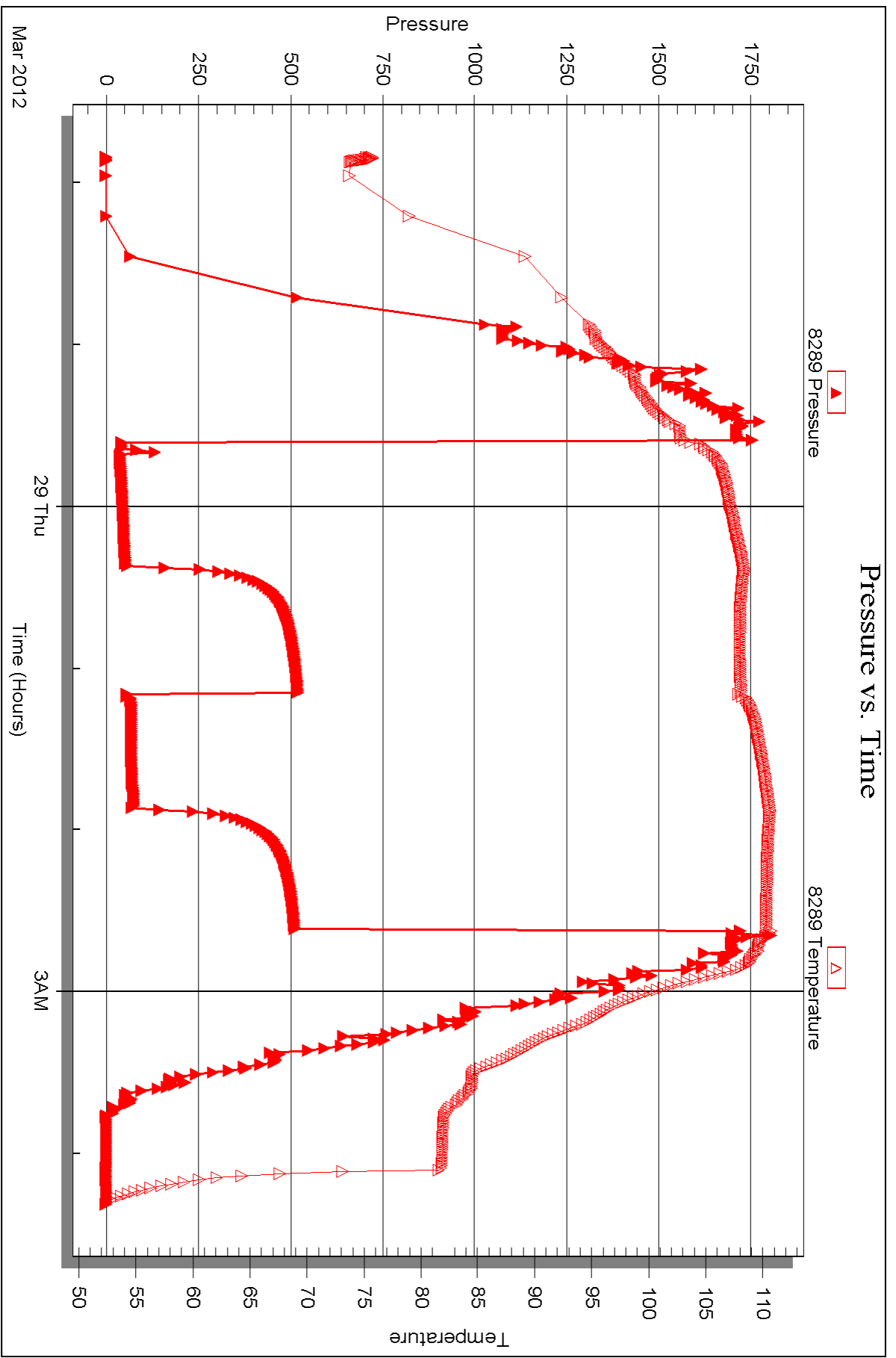


Serial #: 8289

Outside Dow n/ing-Nelson Oil Company

Patty #1-30

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays, KS.67601

ATTN: Marc Downing

**Patty #1-30**

**30-12s-21w Trego,KS**

Start Date: 2012.03.29 @ 11:57:21

End Date: 2012.03.29 @ 17:36:21

Job Ticket #: 47306                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.04 @ 10:42:28

Downing-Nelson Oil Company  
30-12s-21w Trego,KS  
Patty #1-30  
DST # 2  
LKC "C"  
2012.03.29





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47306

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2012.03.29 @ 11:57:21

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 13:42:06

Time Test Ended: 17:36:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3630.00 ft (KB) To 3657.00 ft (KB) (TVD)**

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3657.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 514.06 psig @ 3634.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.29

End Date:

2012.03.29

Last Calib.:

2012.03.29

Start Time: 11:57:23

End Time:

17:36:21

Time On Btm:

2012.03.29 @ 13:41:51

Time Off Btm:

2012.03.29 @ 15:25:36

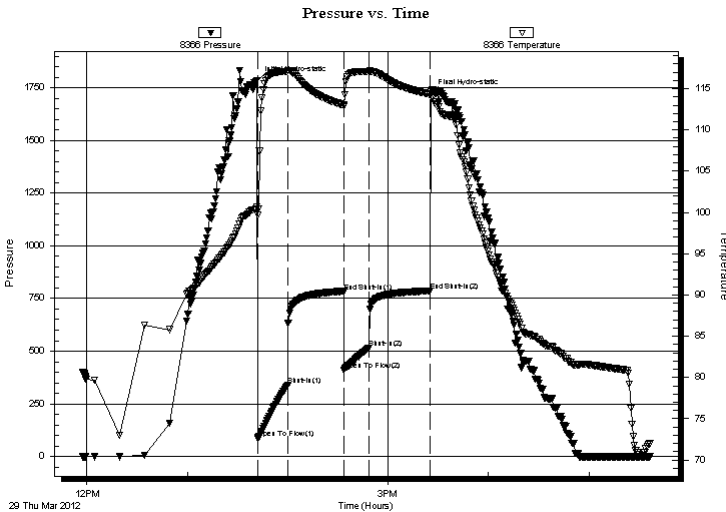
**TEST COMMENT:** IFP-Strong Blow , BOB in 2 Min.

ISI-Dead

FFP-Strong Blow , BOB in 3-1/2 Min

FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.93	100.72	Initial Hydro-static
1	87.75	99.65	Open To Flow (1)
18	338.16	117.11	Shut-In(1)
52	782.52	113.01	End Shut-In(1)
52	409.77	112.89	Open To Flow (2)
67	514.06	117.10	Shut-In(2)
104	786.30	114.32	End Shut-In(2)
104	1722.48	114.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
990.00	Salt Water	13.61

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47306

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2012.03.29 @ 11:57:21

## Tool Information

Drill Pipe:	Length: 3606.00 ft	Diameter: 3.80 inches	Volume: 50.58 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:	70000.00 lb
			<u>Total Volume: 50.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3630.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	27.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3610.00	
Shut In Tool	5.00			3615.00	
Hydraulic tool	5.00			3620.00	
Packer	5.00			3625.00	21.00 Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Perforations	3.00			3634.00	
Recorder	0.00	8366	Inside	3634.00	
Recorder	0.00	8289	Outside	3634.00	
Perforations	20.00			3654.00	
Bullnose	3.00			3657.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47306

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2012.03.29 @ 11:57:21

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
990.00	Salt Water	13.614

Total Length: 990.00 ft      Total Volume: 13.614 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

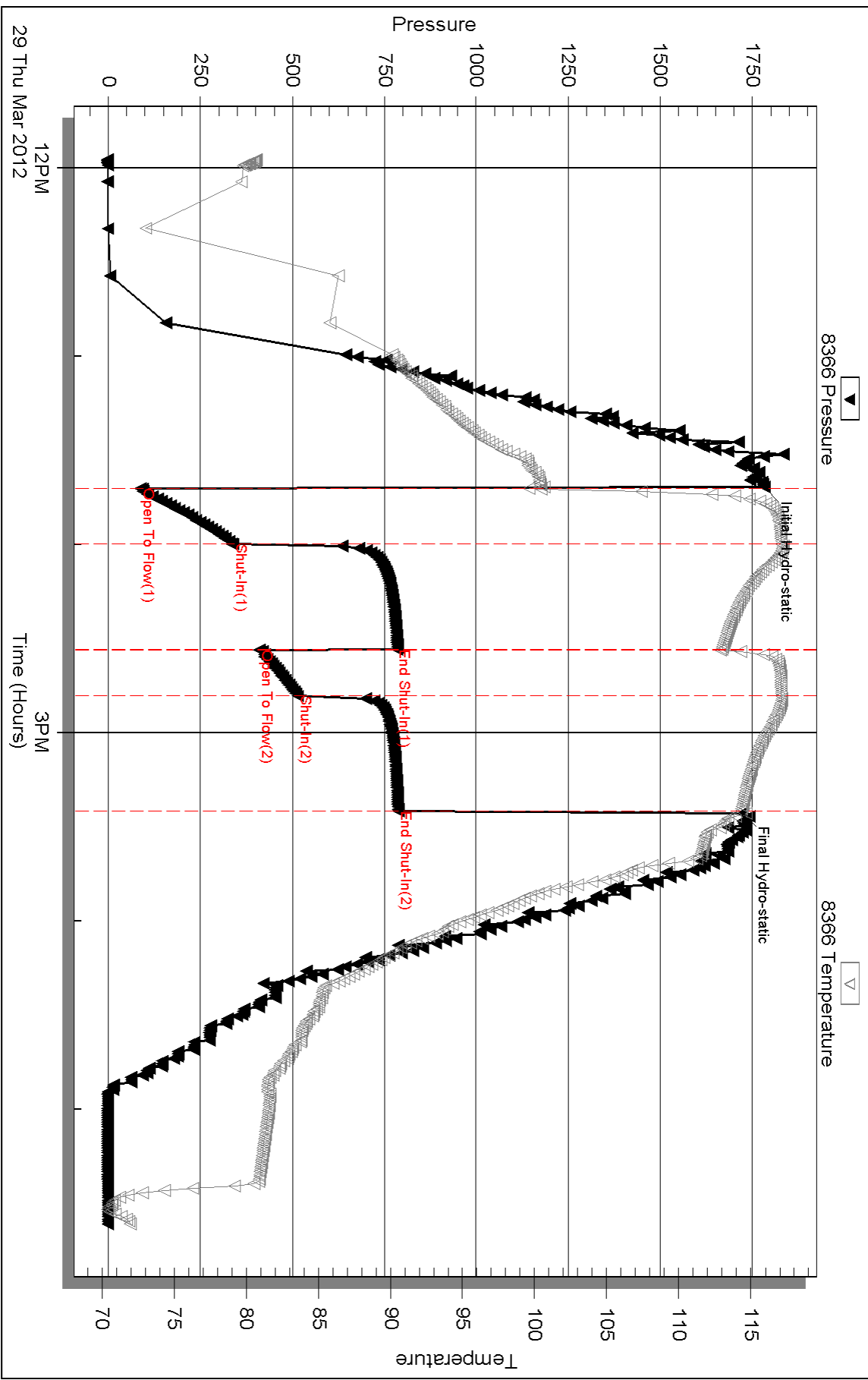
Inside

Dow nung-Nelson Oil Company

Patty #1-30

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47306

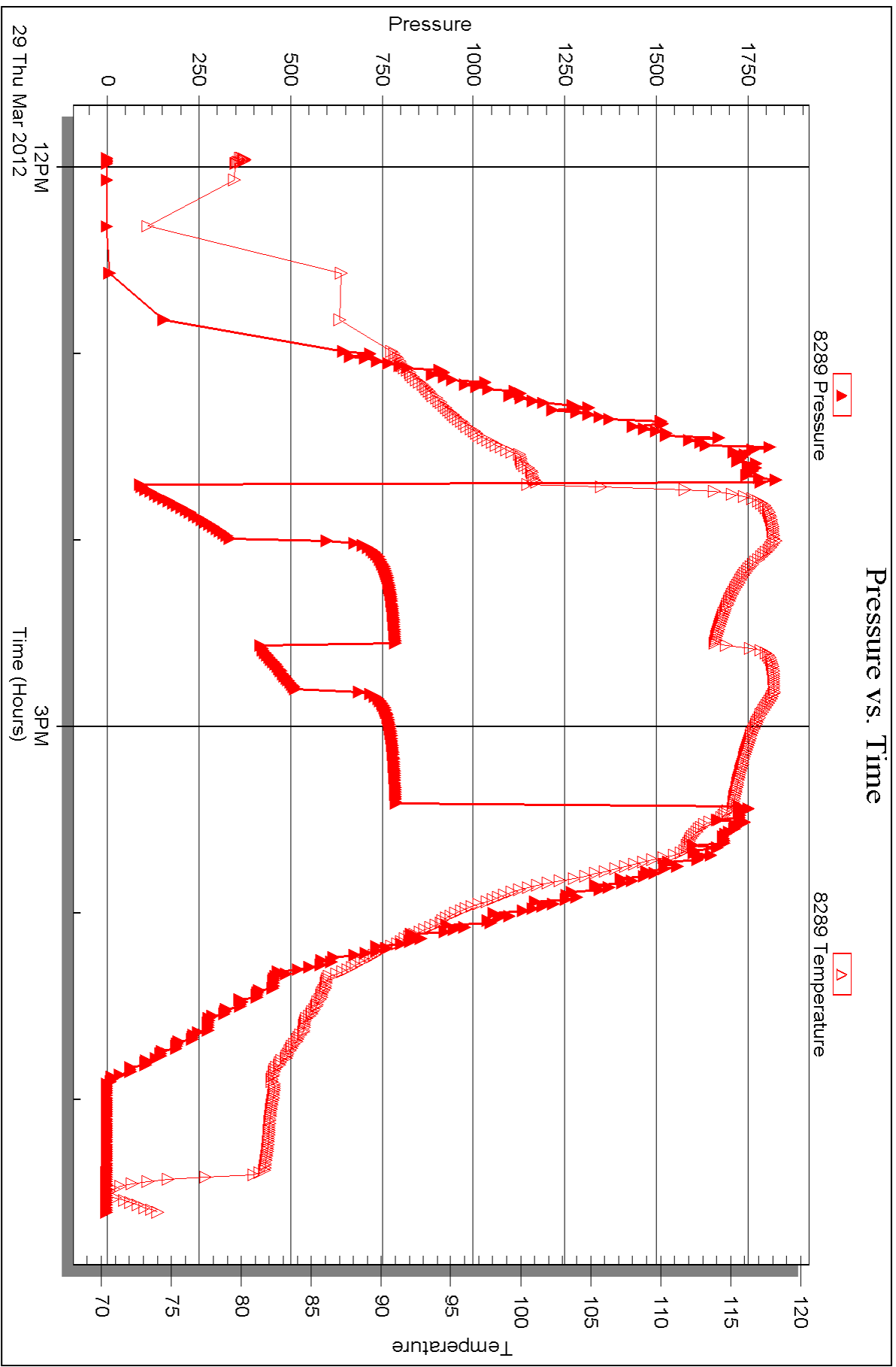
Printed: 2012.04.04 @ 10:42:30

Serial #: 8289

Outside Dow n/g-Nelson Oil Company

Patty #1-30

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47306

Printed: 2012.04.04 @ 10:42:30



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays, KS.67601

ATTN: Marc Downing

**Patty #1-30**

**30-12s-21w Trego,KS**

Start Date: 2012.03.30 @ 09:13:18

End Date: 2012.03.30 @ 14:52:03

Job Ticket #: 47307                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.04 @ 10:41:48

Downing-Nelson Oil Company  
30-12s-21w Trego,KS  
Patty #1-30  
DST # 3  
LKC "J"  
2012.03.30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47307

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2012.03.30 @ 09:13:18

## GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:00:33

Time Test Ended: 14:52:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3780.00 ft (KB) To 3801.00 ft (KB) (TVD)**

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3801.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 45.02 psig @ 3783.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.30

End Date:

2012.03.30

Last Calib.:

2012.03.30

Start Time: 09:13:20

End Time:

14:52:03

Time On Btm:

2012.03.30 @ 11:00:18

Time Off Btm:

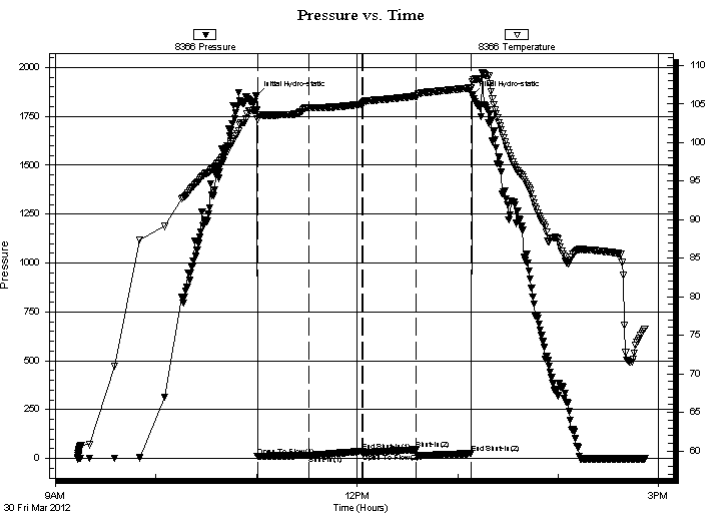
2012.03.30 @ 13:08:48

TEST COMMENT: IFP-Weak Surface Blow

ISI-Dead

FFP-Dead

FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1856.81	104.22	Initial Hydro-static
1	9.87	103.05	Open To Flow (1)
31	14.90	104.52	Shut-In(1)
63	35.98	104.99	End Shut-In(1)
63	27.99	105.01	Open To Flow (2)
95	45.02	106.05	Shut-In(2)
128	25.44	107.10	End Shut-In(2)
129	1858.22	107.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM-3%O-97%M	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47307

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2012.03.30 @ 09:13:18

## Tool Information

Drill Pipe:	Length: 3761.00 ft	Diameter: 3.80 inches	Volume: 52.76 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:	65000.00 lb
			<u>Total Volume: 52.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3780.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	21.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3760.00	
Shut In Tool	5.00			3765.00	
Hydraulic tool	5.00			3770.00	
Packer	5.00			3775.00	21.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Perforations	2.00			3783.00	
Recorder	0.00	8366	Inside	3783.00	
Recorder	0.00	8289	Outside	3783.00	
Perforations	15.00			3798.00	
Bullnose	3.00			3801.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47307

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2012.03.30 @ 09:13:18

## 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: 46.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 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
10.00	VSOCM-3%O-97%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

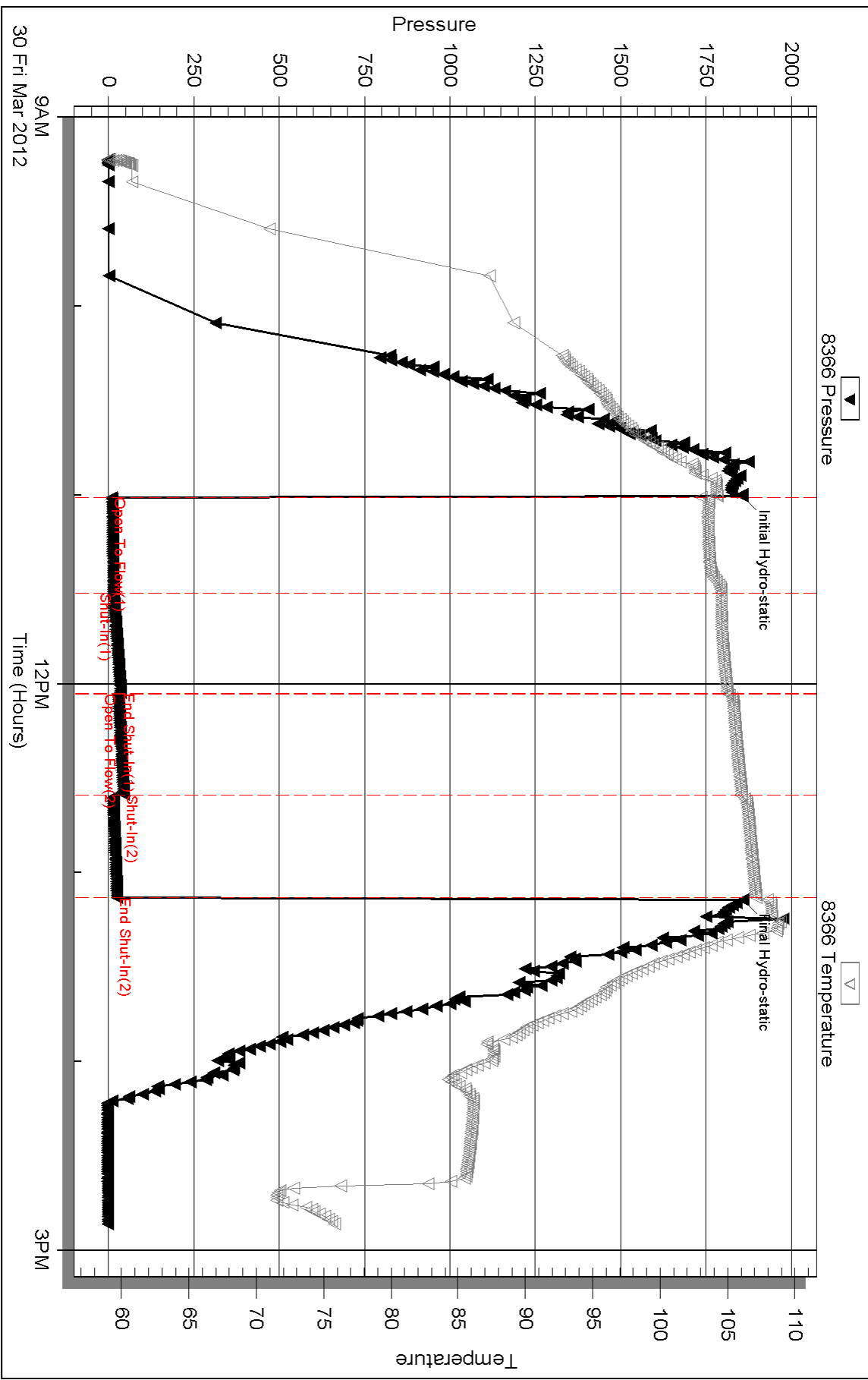
Inside

Dowling-Nelson Oil Company

Patty #1-30

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47307

Printed: 2012.04.04 @ 10:41:50



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays, KS.67601

ATTN: Marc Downing

### **Patty #1-30**

### **30-12s-21w Trego,KS**

Start Date: 2012.03.31 @ 09:29:46

End Date: 2012.03.31 @ 16:18:46

Job Ticket #: 47308                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.04 @ 10:40:07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47308

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2012.03.31 @ 09:29:46

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:21:01

Time Test Ended: 16:18:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3933.00 ft (KB) To 3965.00 ft (KB) (TVD)**

Reference Elevations: 2316.00 ft (KB)

Total Depth: 3965.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 43.48 psig @ 3937.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.31

End Date:

2012.03.31

Last Calib.:

2012.03.31

Start Time: 09:29:48

End Time:

16:18:46

Time On Btm:

2012.03.31 @ 11:20:46

Time Off Btm:

2012.03.31 @ 14:32:46

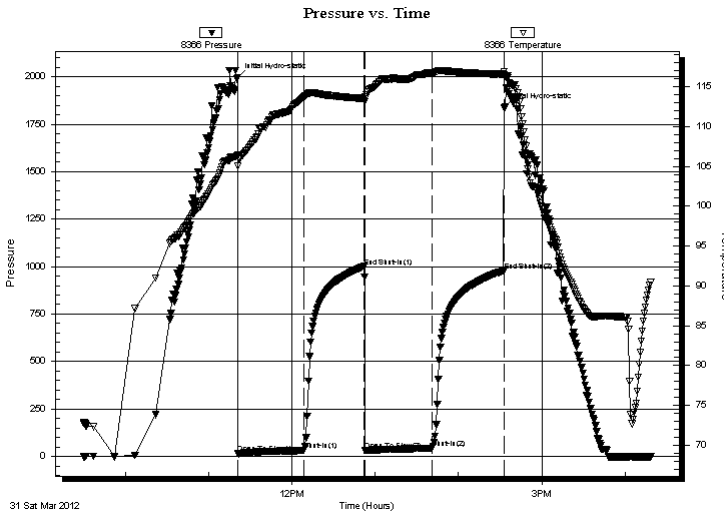
TEST COMMENT: IFP-Weak Blow , Built to 3"

ISI-Dead

FFP-Weak Blow , Built to 1-1/2"

FFP-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.87	106.38	Initial Hydro-static
1	15.09	105.01	Open To Flow (1)
48	31.56	113.69	Shut-In(1)
92	1000.35	113.52	End Shut-In(1)
92	33.56	113.15	Open To Flow (2)
141	43.48	116.78	Shut-In(2)
192	976.70	116.55	End Shut-In(2)
192	1836.88	116.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water	0.57
10.00	Free Oil	0.14

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47308

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2012.03.31 @ 09:29:46

## Tool Information

Drill Pipe:	Length: 3887.00 ft	Diameter: 3.80 inches	Volume: 54.52 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:	65000.00 lb
			<u>Total Volume: 54.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3933.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	32.00 ft				
Tool Length:	53.00 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			3913.00	
Shut In Tool	5.00			3918.00	
Hydraulic tool	5.00			3923.00	
Packer	5.00			3928.00	21.00 Bottom Of Top Packer
Packer	5.00			3933.00	
Stubb	1.00			3934.00	
Perforations	3.00			3937.00	
Recorder	0.00	8366	Inside	3937.00	
Recorder	0.00	8289	Outside	3937.00	
Perforations	25.00			3962.00	
Bullnose	3.00			3965.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47308

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2012.03.31 @ 09:29:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 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 bbbl
60.00	Muddy Water	0.568
10.00	Free Oil	0.140

Total Length: 70.00 ft

Total Volume: 0.708 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

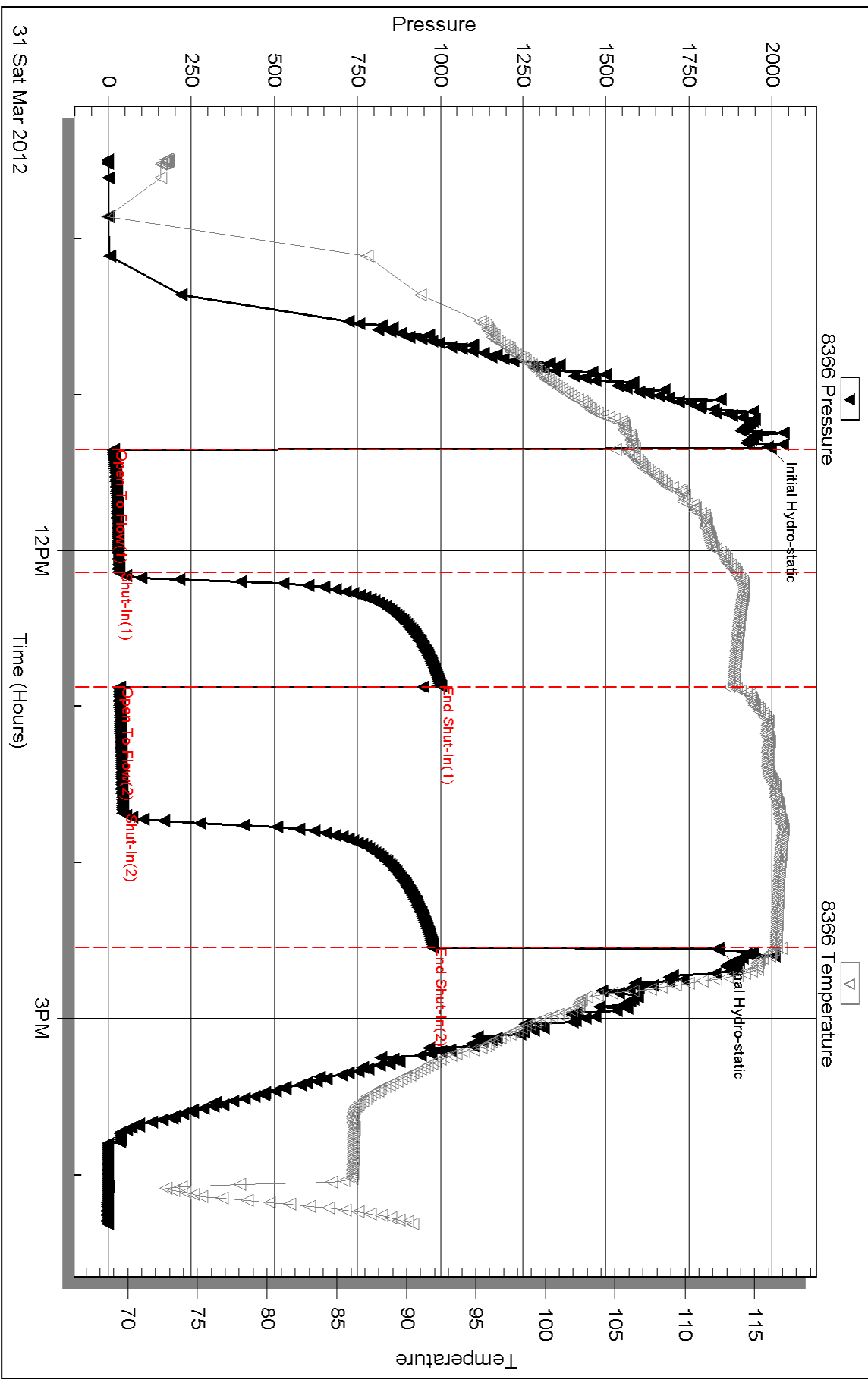
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

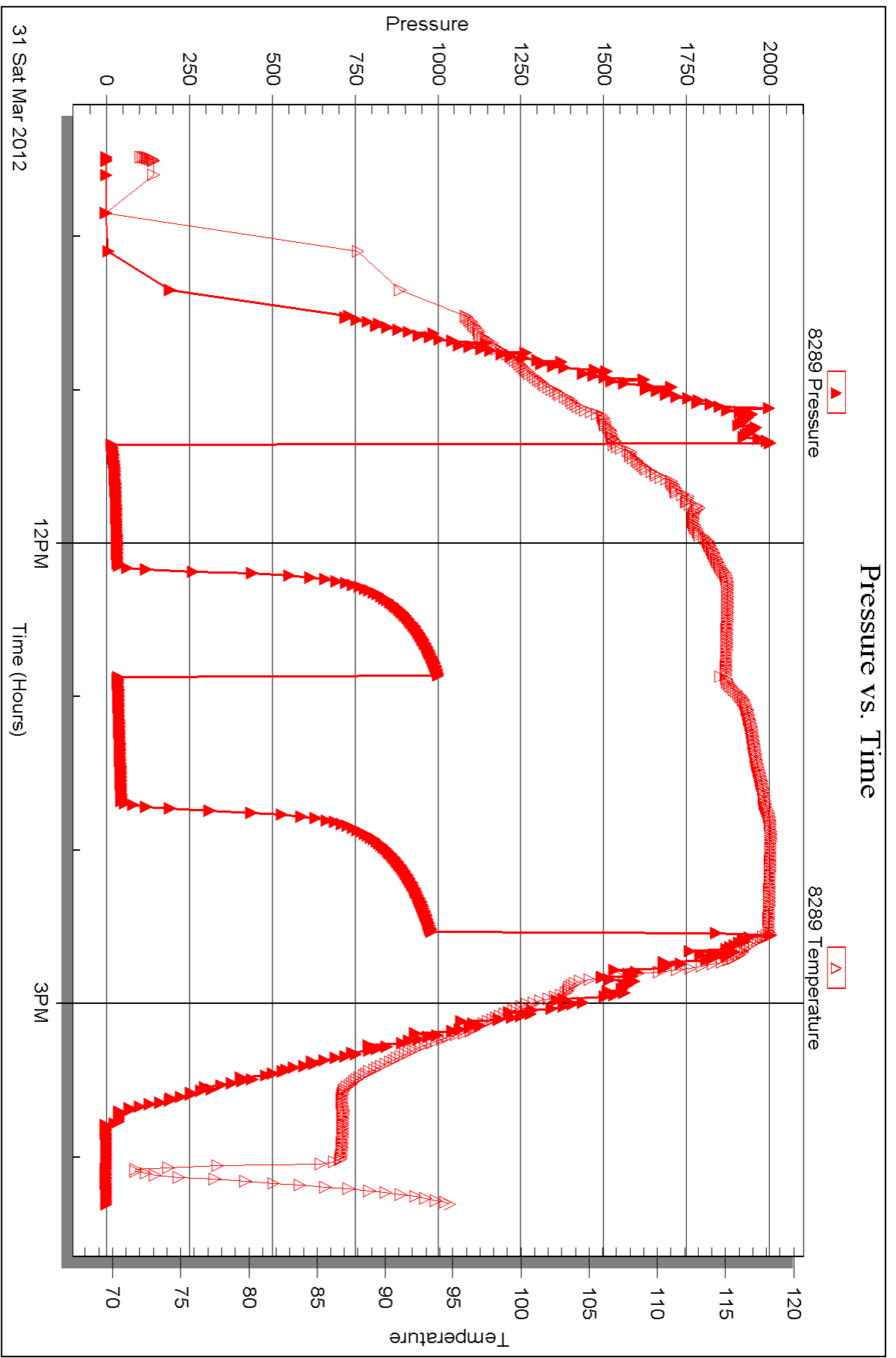


Serial #: 8289

Outside Dow nging-Nelson Oil Company

Patty #1-30

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 47308

Printed: 2012.04.04 @ 10:40:10



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays, KS.67601

ATTN: Marc Downing

**Patty #1-30**

**30-12s-21w Trego,KS**

Start Date: 2012.04.01 @ 10:24:35

End Date: 2012.04.01 @ 18:30:35

Job Ticket #: 47309                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.04 @ 10:39:23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47309

**DST#: 5**

ATTN: Marc Dow ning

Test Start: 2012.04.01 @ 10:24:35

## GENERAL INFORMATION:

Formation: **D-E**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 13:00:50

Time Test Ended: 18:30:35

Test Type: Conventional Straddle (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3668.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Total Depth: 4061.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2316.00 ft (KB)

2308.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8366**

**Inside**

Press @RunDepth: 79.96 psig @ 3671.00 ft (KB)

Start Date: 2012.04.01

End Date:

2012.04.01

Start Time: 10:24:37

End Time:

18:30:35

Capacity: 8000.00 psig

Last Calib.: 2012.04.01

Time On Btm: 2012.04.01 @ 13:00:35

Time Off Btm: 2012.04.01 @ 16:03:20

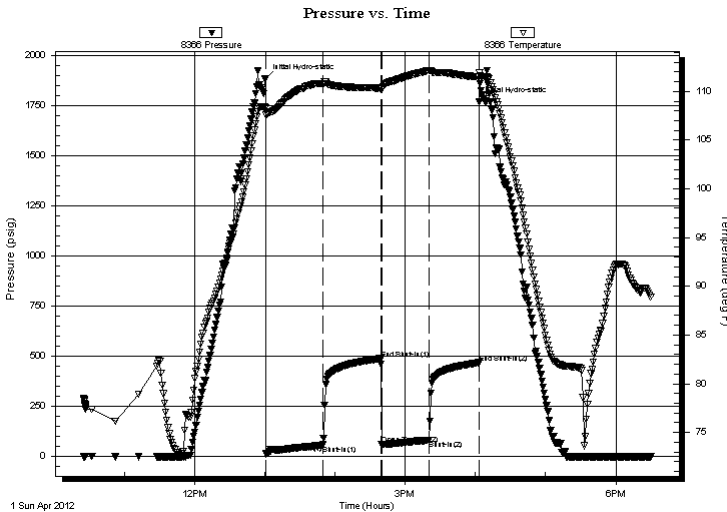
**TEST COMMENT:** IFP-Fair Blow , Built to 7-1/2"

ISI-Dead

FFP-Weak Blow , Built to 3"

FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.62	108.38	Initial Hydro-static
1	13.35	107.56	Open To Flow (1)
49	56.85	110.76	Shut-In(1)
98	487.76	110.35	End Shut-In(1)
99	58.12	110.23	Open To Flow (2)
140	79.96	112.14	Shut-In(2)
183	467.60	111.51	End Shut-In(2)
183	1771.74	111.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Muddy Water W/Oil Scum	1.83

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47309

**DST#: 5**

ATTN: Marc Dow ning

Test Start: 2012.04.01 @ 10:24:35

## Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 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:	70000.00 lb
			<u>Total Volume: 51.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3668.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	3690.00 ft				
Interval betw een Packers:	22.00 ft				
Tool Length:	411.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3648.00	
Shut In Tool	5.00			3653.00	
Hydraulic tool	5.00			3658.00	
Packer	5.00			3663.00	21.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Stubb	1.00			3669.00	
Perforations	2.00			3671.00	
Recorder	0.00	8366	Inside	3671.00	
Recorder	0.00	8289	Outside	3671.00	
Perforations	15.00			3686.00	
Blank Off Sub	1.00			3687.00	
Blank Spacing	3.00			3690.00	22.00 Tool Interval
Packer	1.00			3691.00	
Stubb	1.00			3692.00	
Perforations	20.00			3712.00	
Change Over Sub	1.00			3713.00	
Recorder	0.00	8789	Below	3713.00	
Blank Spacing	341.00			4054.00	
Change Over Sub	1.00			4055.00	
Bullnose	3.00			4058.00	368.00 Bottom Packers & Anchor

**Total Tool Length: 411.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**30-12s-21w Trego,KS**

PO Box 1019  
Hays, KS.67601

**Patty #1-30**

Job Ticket: 47309

**DST#: 5**

ATTN: Marc Dow ning

Test Start: 2012.04.01 @ 10:24:35

## 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:

32000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
150.00	Muddy Water W/Oil Scum	1.831

Total Length: 150.00 ft      Total Volume: 1.831 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

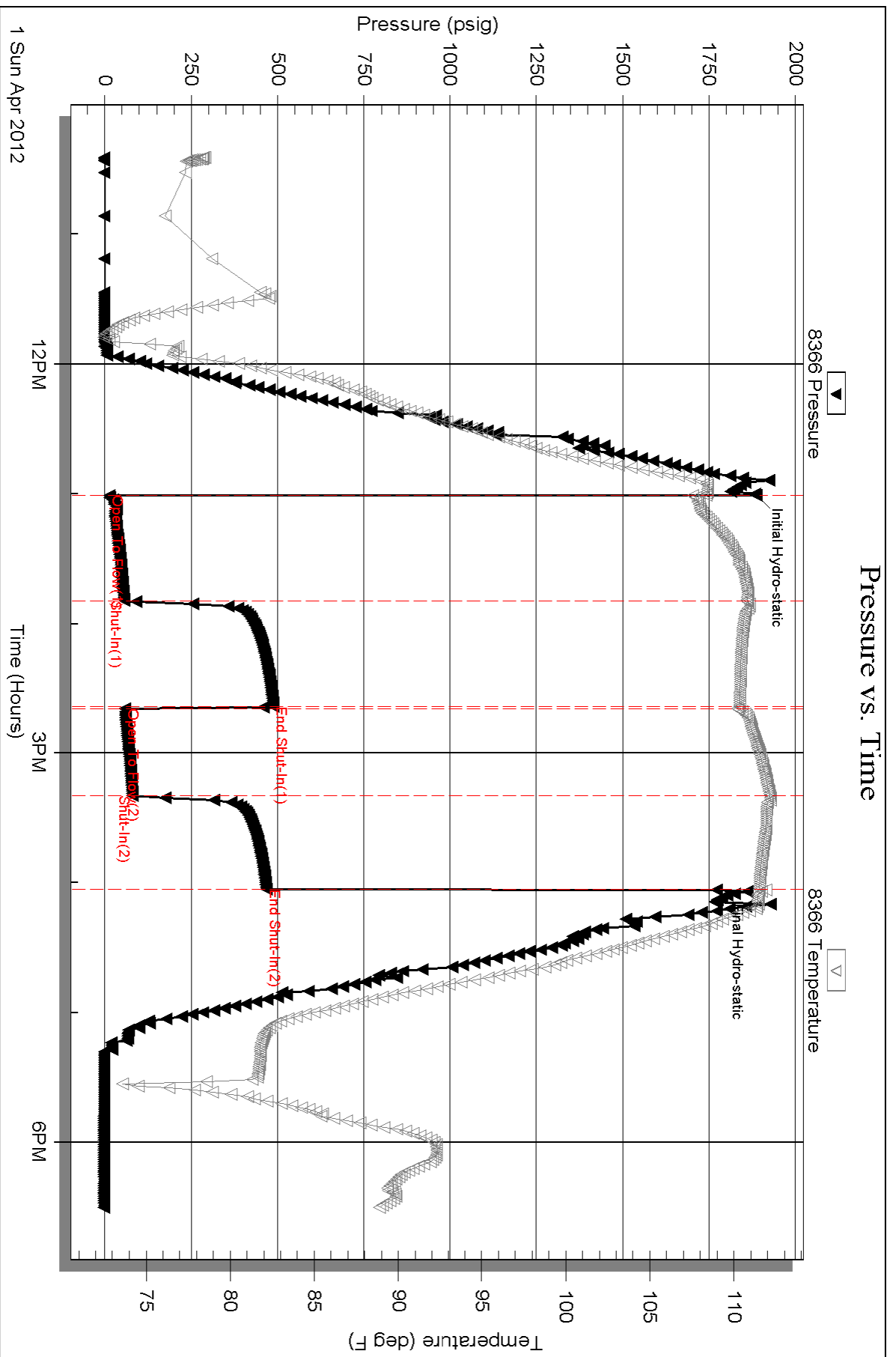
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



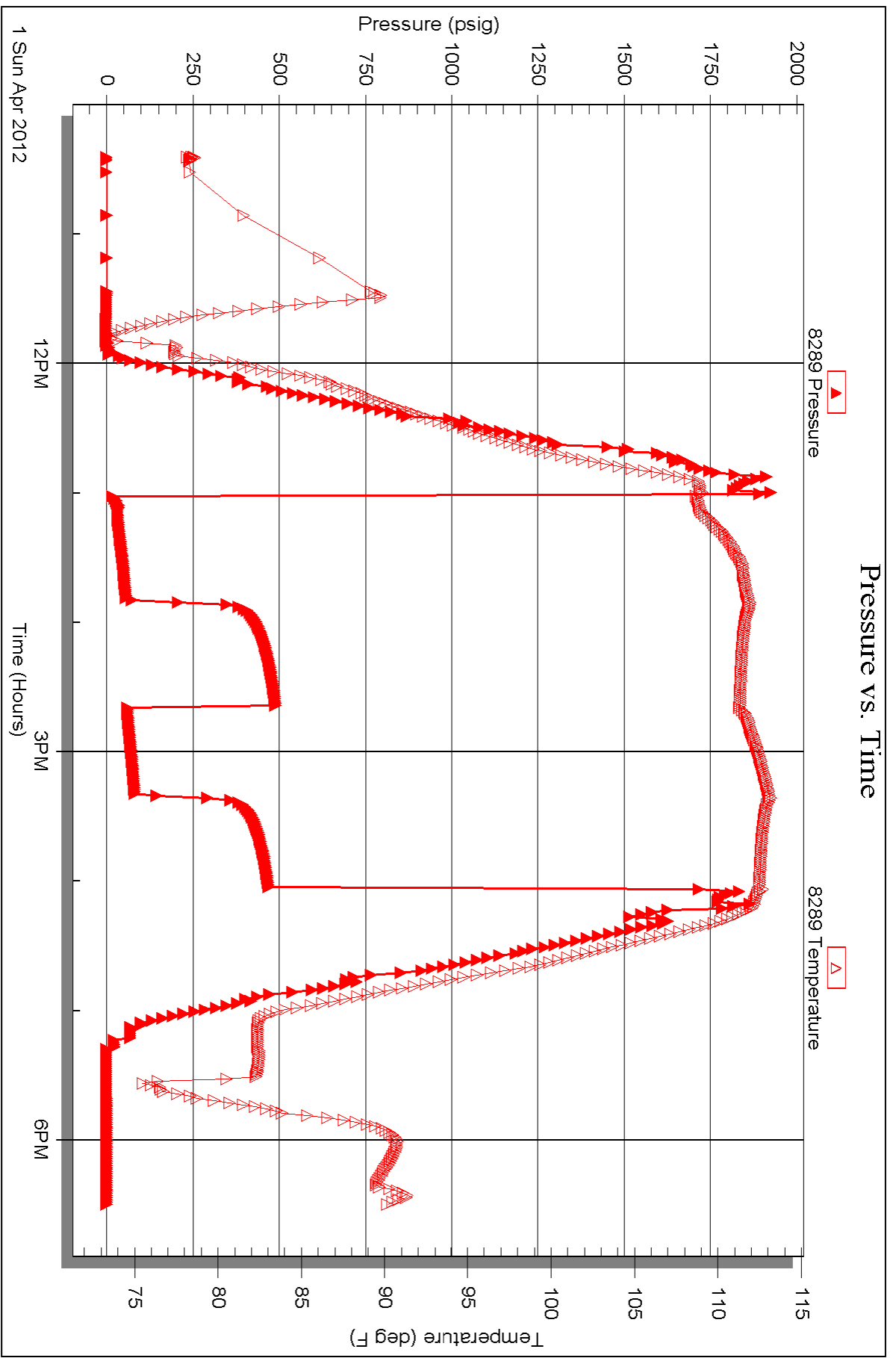


Serial #: 8289

Outside Dow n/ing-Nelson Oil Company

Patty #1-30

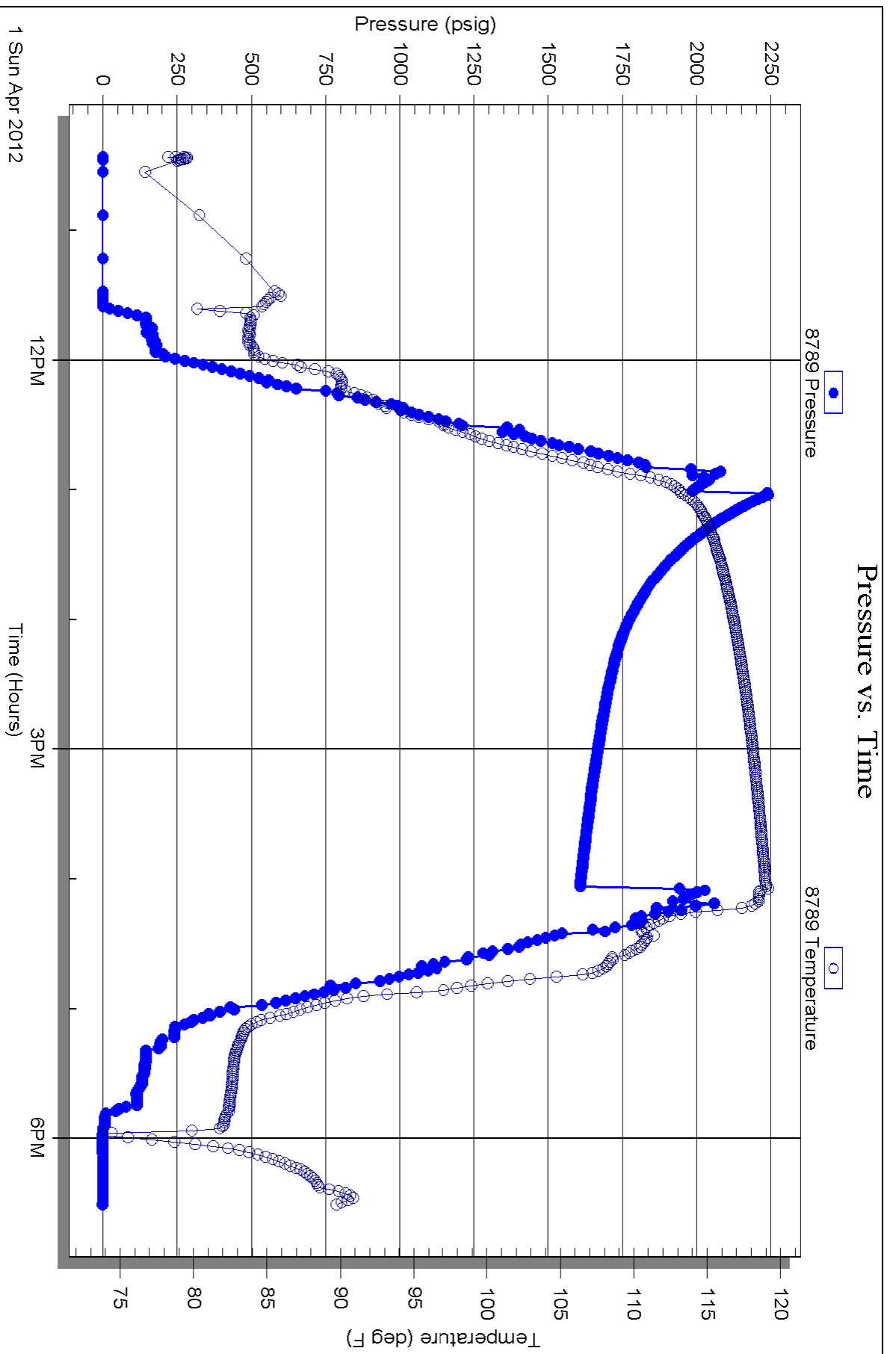
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 47309

Printed: 2012.04.04 @ 10:39:26





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 02 2012

## Test Ticket

NO. 47305

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

Well Name & No. Patty #1-30 Test No. 1 Date 3-28-12  
 Company Downing & Nelson Oil Company Elevation 2316 KB 2308 GL  
 Address PO Box 1019, Hays, Ks. 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #4  
 Location: Sec. 30 Twp. 12S Rge. 21W Co. Trego State KS

Interval Tested 3600-3620 Zone Tested LKC 'A'  
 Anchor Length 20 Drill Pipe Run 3575 Mud Wt. 8.9  
 Top Packer Depth 3595 Drill Collars Run 30 Vis 47  
 Bottom Packer Depth 3600 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3620 Chlorides 1,000 ppm System LCM 1 1/2 \*  
 Blow Description IFF - Fair Blow, Built to 6"  
ISI - Dead

IFF - Fair Blow, Built to 5 1/2"  
ISI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free Oil</u>				
<u>95</u>	<u>V500 MW</u>		<u>5</u>	<u>70</u>	<u>25</u>
	<u>30' CoIP</u>				

Rec Total 105 BHT 110° Gravity 38 API RW 310 @ 53 °F Chlorides 33,000 ppm  
 (A) Initial Hydrostatic 1755  Test 1125' T-On Location 19:50  
 (B) First Initial Flow 38  Jars \_\_\_\_\_ T-Started 21:48  
 (C) First Final Flow 50  Safety Joint \_\_\_\_\_ T-Open 23:34  
 (D) Initial Shut-In 516  Circ Sub \_\_\_\_\_ T-Pulled 2:34  
 (E) Second Initial Flow 54  Hourly Standby \_\_\_\_\_ T-Out 4:26  
 (F) Second Final Flow 72  Mileage 62 rt 86.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 509  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1699  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 0  
 Total 1211.80  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1211.80

Approved By \_\_\_\_\_ Our Representative Gason

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  
APR 02 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 47306

Well Name & No. Patty #1-30 Test No. 2 Date 3-29-12  
 Company Downing & Nelson Oil Company, Inc Elevation 2316 KB 2308 GL  
 Address PO Box 1019, Hays, KS. 67601  
 Co. Rep / Geo. Mark Downing Rig Discovery #4  
 Location: Sec. 30 Twp. 12s Rge. 2W Co. Trego State KS

Interval Tested 3630-3657 Zone Tested 'C'  
 Anchor Length 3627 Drill Pipe Run 3606 Mud Wt. 8.9  
 Top Packer Depth 3625 Drill Collars Run 30 Vis 47  
 Bottom Packer Depth 3630 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3657 Chlorides 1,000 ppm System LCM 1 1/2  
 Blow Description IFF - Strong, BOB in 2 min.  
ISI - Dead  
FFP - Strong, BOB in 3 1/2 min.  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>990</u>	<u>Salt Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 990 BHT 115° Gravity API RW = 18.4 @ 73 °F Chlorides 35,000 ppm  
 (A) Initial Hydrostatic 1784  Test 1125' T-On Location 11:36  
 (B) First Initial Flow 88  Jars T-Started 11:55  
 (C) First Final Flow 338  Safety Joint T-Open 13:41  
 (D) Initial Shut-In 783  Circ Sub T-Pulled 15:11  
 (E) Second Initial Flow 410  Hourly Standby T-Out 17:45  
 (F) Second Final Flow 514  Mileage Wart 06.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 786  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1722  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30  
 Sub Total 0  
 Total 1211.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jason McLawton *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

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APR 02 2012

## Test Ticket

NO. 47307

Well Name & No. Patty #1-30 Test No. 3 Date 3-30-12  
 Company Downing & Nelson Oil Company, Inc. Elevation 2316 KB 2308 GL  
 Address PO Box 1019, Hays, KS, 67601  
 Co. Rep / Geo. Mara Downing Rig Discovery #4  
 Location: Sec. 30 Twp. 12 s Rge. 21w Co. Trego State Ks

Interval Tested 3780-3801 Zone Tested 'J'  
 Anchor Length 21' Drill Pipe Run 3761 Mud Wt. 9.0  
 Top Packer Depth 3775 Drill Collars Run 30 Vis 46  
 Bottom Packer Depth 3780 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 3801 Chlorides 4,000 ppm System LCM 1 1/2  
 Blow Description I FA Weak surface Blow  
ISI - Dead  
FFP - Dead  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>USDCM</u>	<u>3</u>			<u>97%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1857  Test 1125' T-On Location 8:56  
 (B) First Initial Flow 10  Jars T-Started 9:11  
 (C) First Final Flow 15  Safety Joint T-Open 18:00  
 (D) Initial Shut-In 36  Circ Sub T-Pulled 13:00  
 (E) Second Initial Flow 28  Hourly Standby T-Out 15:00  
 (F) Second Final Flow 45  Mileage BART 90-80 Comments \_\_\_\_\_  
 (G) Final Shut-In 25  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1858  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1211.80  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1211.80

Approved By \_\_\_\_\_ Our Representative Jason M. Simon  
 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.

Thank you



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 02 2012

## Test Ticket

NO. 47308

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

Well Name & No. Patty #1-30 Test No. 4 Date 3-31-12  
 Company Downing Nelson Oil Company, Elevation 2316 KB 2308 GL  
 Address PO Box 1019, Hays, KS. 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #4  
 Location: Sec. 30 Twp. 12s Rge. 21w Co. Trego State KS

Interval Tested 3933 - 3965 Zone Tested Mariposa  
 Anchor Length 32' Drill Pipe Run 3887 Mud Wt. 9.2  
 Top Packer Depth 3928 Drill Collars Run 30 Vis 6.3  
 Bottom Packer Depth 3933 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3965 Chlorides 5,000 ppm System LCM 1 1/2 #  
 Blow Description IFP - Weak Blow, Built to 3"  
ISI - Dead  
FFP - Weak Blow, Built to 1 1/2"  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Feet of Free Oil</u>				
<u>60</u>	<u>Feet of Muddy Water</u>		<u>65</u>	<u>35</u>	

Rec Total 70 BHT Gravity 34 API RW 210 @ 88 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 1995  Test 1125 T-On Location 9:05  
 (B) First Initial Flow 15  Jars T-Started 9:27  
 (C) First Final Flow 32  Safety Joint T-Open 11:20  
 (D) Initial Shut-In 1000  Circ Sub T-Pulled 14:20  
 (E) Second Initial Flow 34  Hourly Standby T-Out 16:20  
 (F) Second Final Flow 43  Mileage WART 86.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 977  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1837  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Sub Total 1211.80 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jana McLenor

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
APR 02 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 47309

Well Name & No. Patty #1-30 Test No. 5 Date 4-1-12  
 Company Downing Nelson Oil Company Elevation 2316 KB 2308 GL  
 Address PO Box 1019, Hays, Ks. 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery #4  
 Location: Sec. 30 Twp. 12s Rge. 21w Co. Trego State Ks

Interval Tested 3668-3690 Zone Tested D-E  
 Anchor Length 22' Drill Pipe Run 3639 Mud Wt. 9.2  
 Top Packer Depth 3663 Drill Collars Run 30 Vis 63  
 Bottom Packer Depth 3668 start @ 3690 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4061 Chlorides 5,000 ppm System LCM 1 1/2"  
 Blow Description IFP - Fair Blow, Built to 7 1/2"  
ISI - Dead  
FFP - Weak Blow, Built to 3"  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>Muddy water, w/oil seum</u>				
Rec	Feet of	%gas	%oil	%water	%mud
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 .170 @ 90 °F Chlorides 32,000 ppm  
 (A) Initial Hydrostatic 1887  Test 1225 T-On Location 8:55  
 (B) First Initial Flow 13  Jars T-Started 10:22  
 (C) First Final Flow 57  Safety Joint T-Open 13:00  
 (D) Initial Shut-In 488  Circ Sub T-Pulled 16:00  
 (E) Second Initial Flow 58  Hourly Standby T-Out 18:36  
 (F) Second Final Flow 80 Mileage 62 rt 86.80 Comments  
 (G) Final Shut-In 468  Sampler  
 (H) Final Hydrostatic 1772  Straddle 600  
 Shale Packer  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1911-80  
 Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1911.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jason Mc Lamon  
 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.

Thank You