



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1078622

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Patty 1-30
Doc ID	1078622

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Patty 1-30
Doc ID	1078622

Tops

Name	Top	Datum
Top Anhydrite	1739'	+578
Base Anhydrite	1782'	+535
Topeka	3354'	-1037
Heebner	3376'	-1059
Toronto	3596'	-1279
LKC	3608'	-1291
BKC	3847'	-1530
Marmaton	3929'	-1612
Arbuckle	4008'	-1691



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

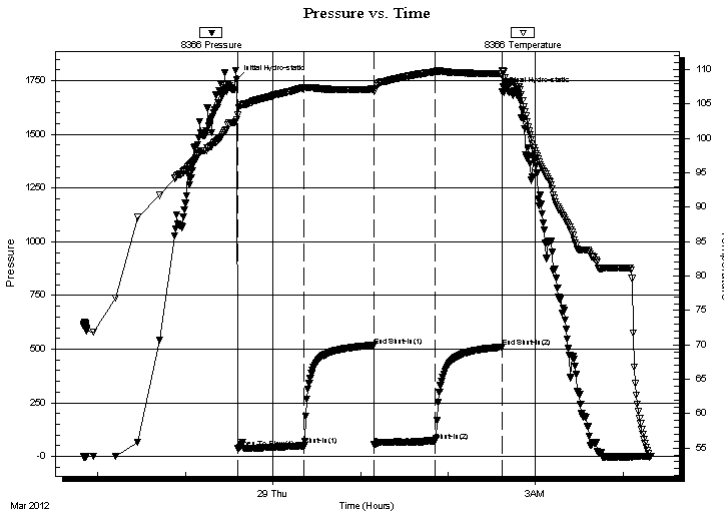
TEST COMMENT: IFP-Fair Blow , Built to 6"

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

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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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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 in³

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:

Serial #: 8366

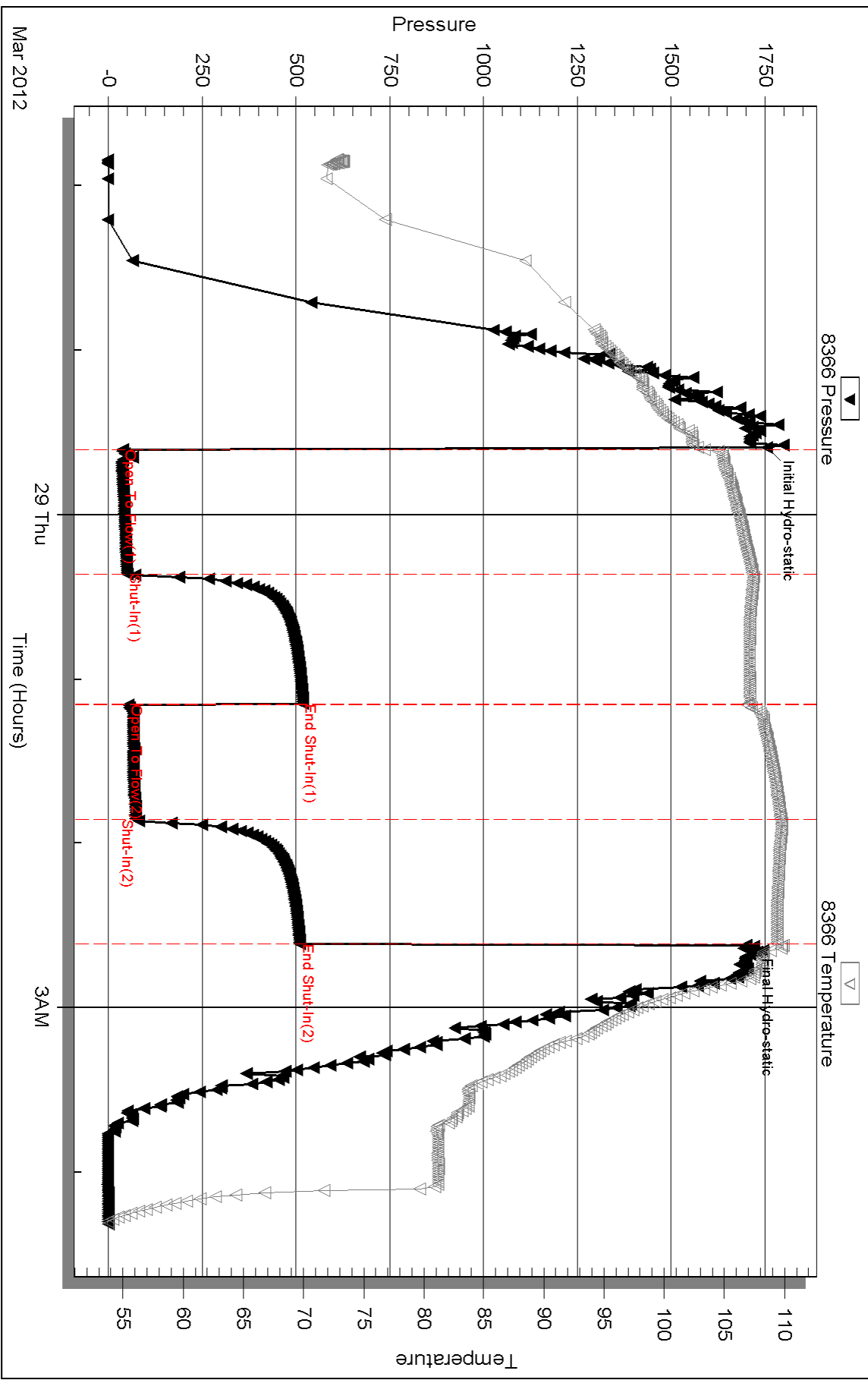
Inside

Dow nung-Nelson Oil Company

Patty #1-30

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47305

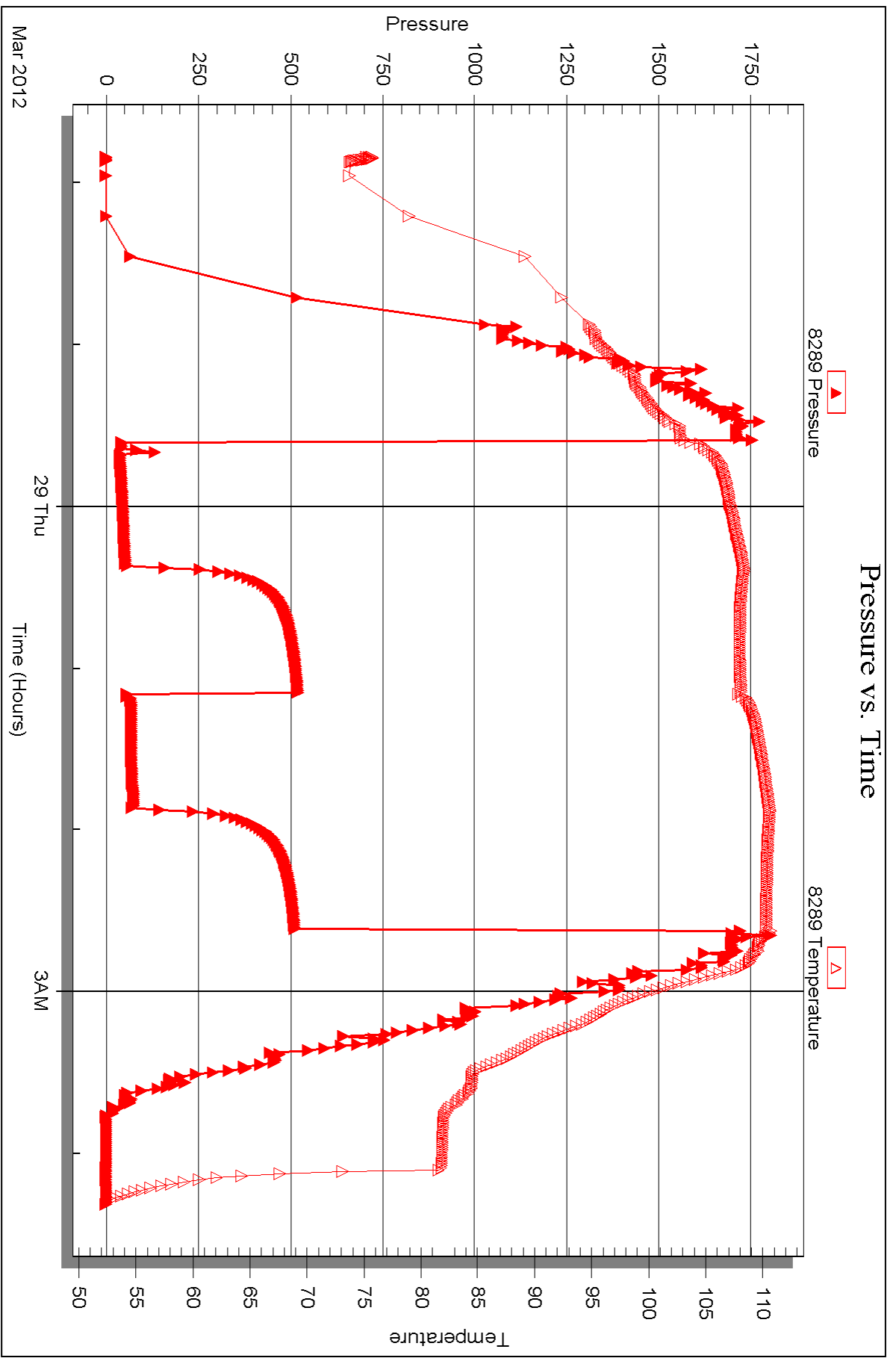
Printed: 2012.04.04 @ 10:53:12

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



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

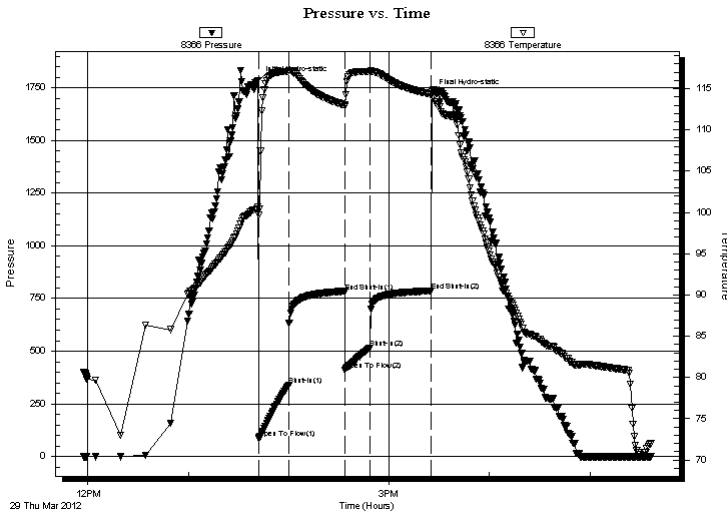
TEST COMMENT: IFP-Strong Blow , BOB in 2 Min.

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 in³

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

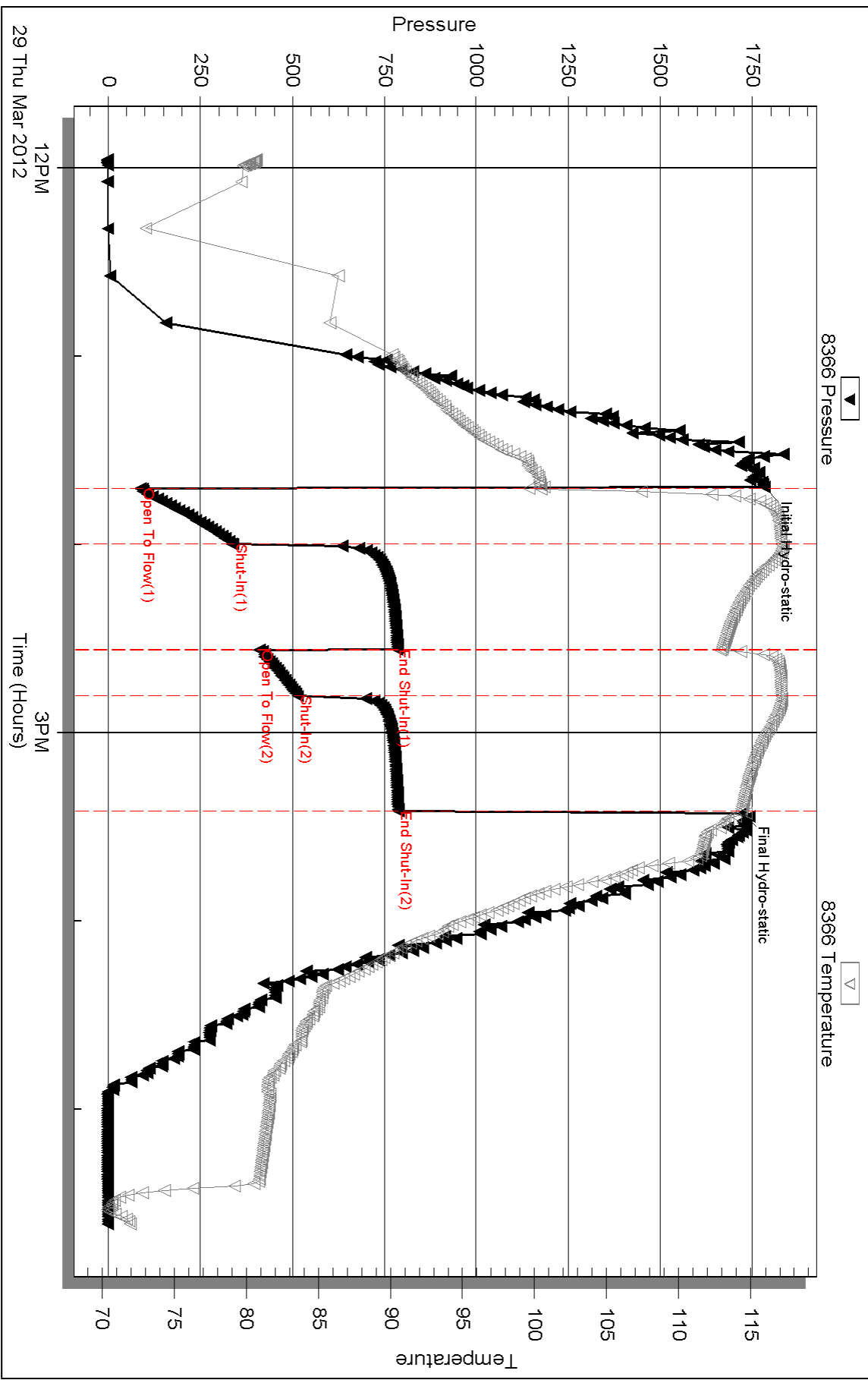
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

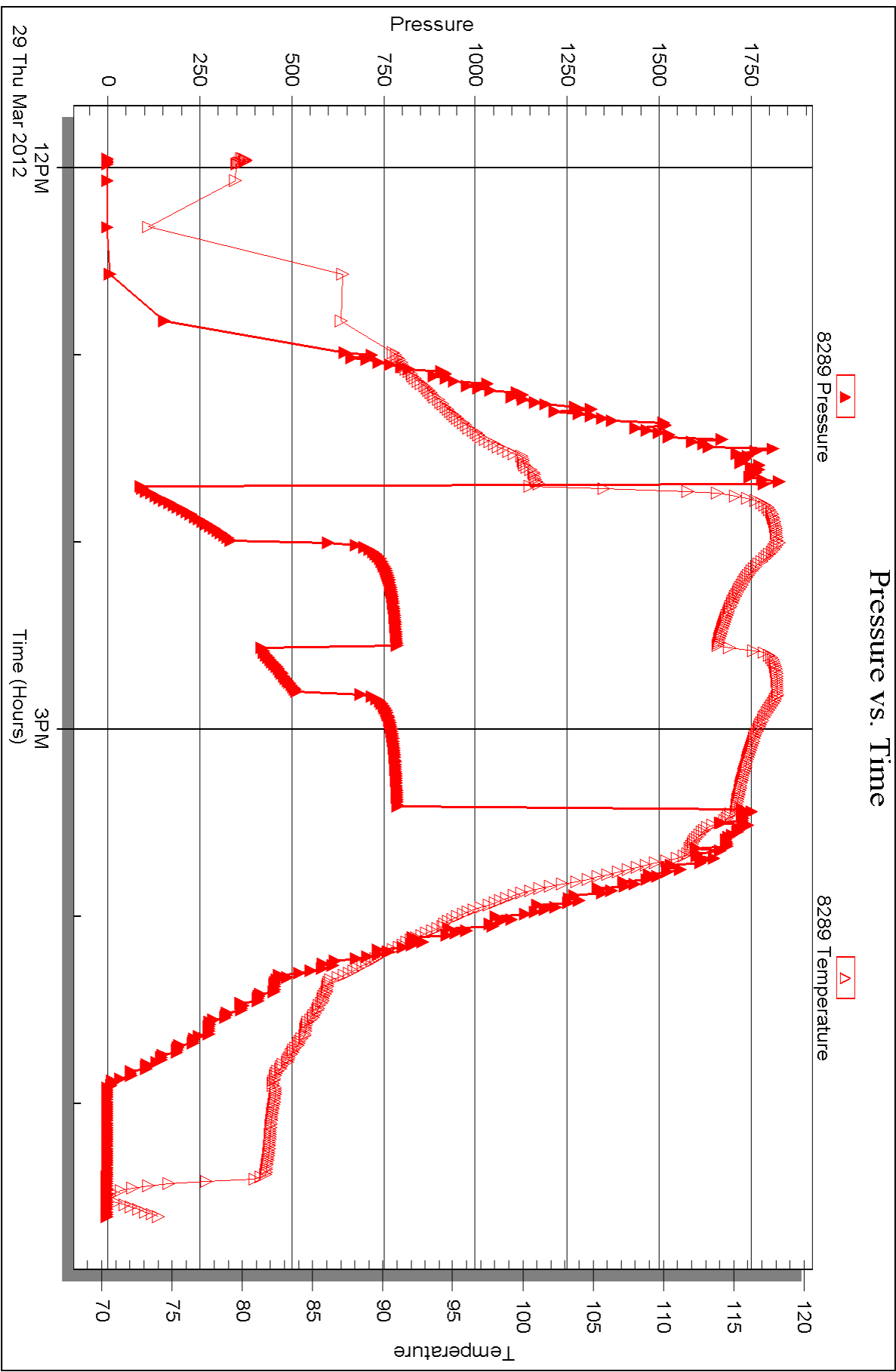


Serial #: 8289

Outside Dow nting-Nelson Oil Company

Patty #1-30

DST Test Number: 2



29 Thu Mar 2012

Time (Hours)

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

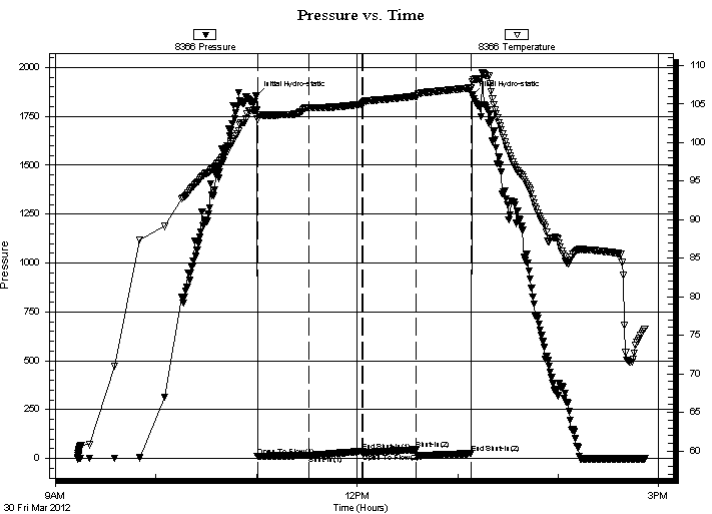
Time Off Btm: 2012.03.30 @ 13:08:48

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	V SOCM-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:

bbf

Water Loss: 8.79 in³

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
10.00	VSOCM-3%O-97%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

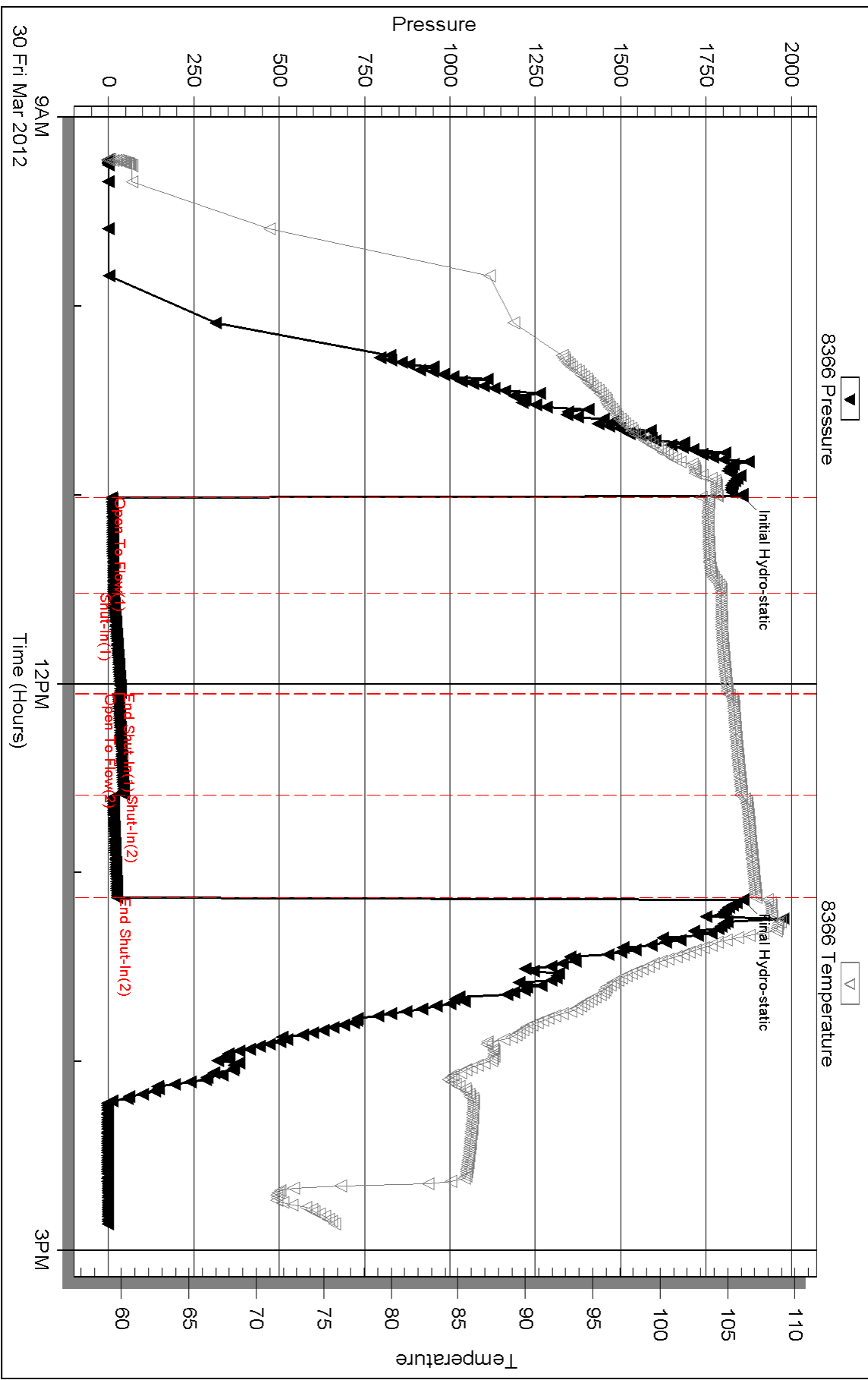
Inside

Dow nung-Nelson Oil Company

Patty #1-30

DST Test Number: 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

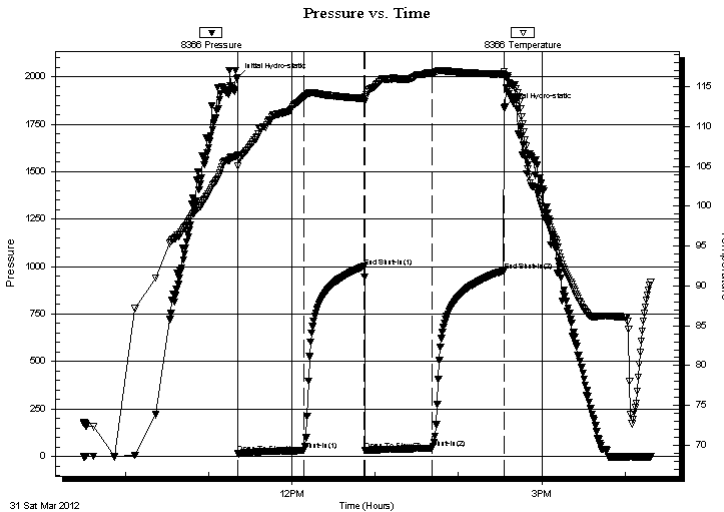
TEST COMMENT: IFP-Weak Blow , Built to 3"

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:

bbf

Water Loss: 7.99 in³

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
60.00	Muddy Water	0.568
10.00	Free Oil	0.140

Total Length: 70.00 ft Total Volume: 0.708 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

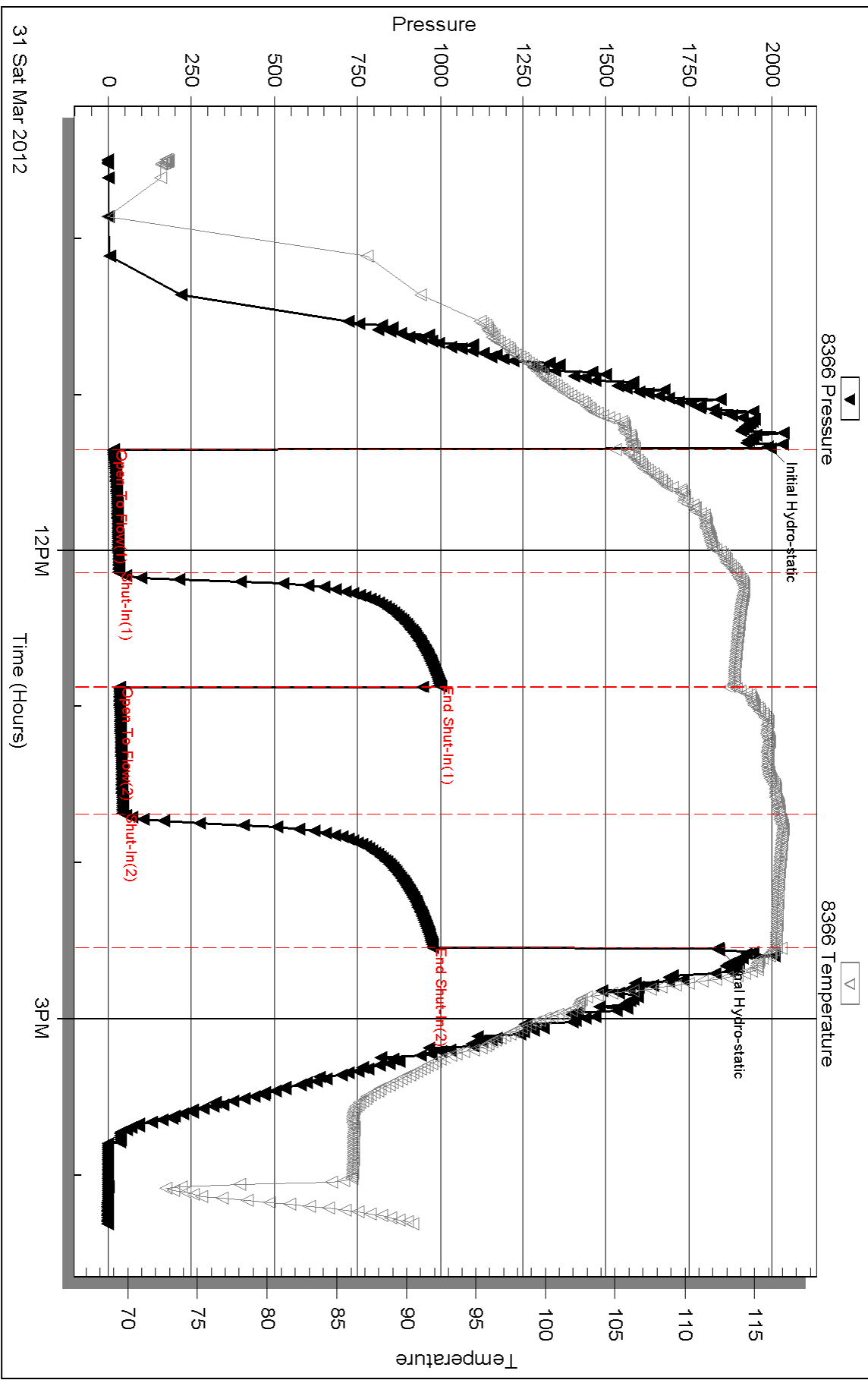
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

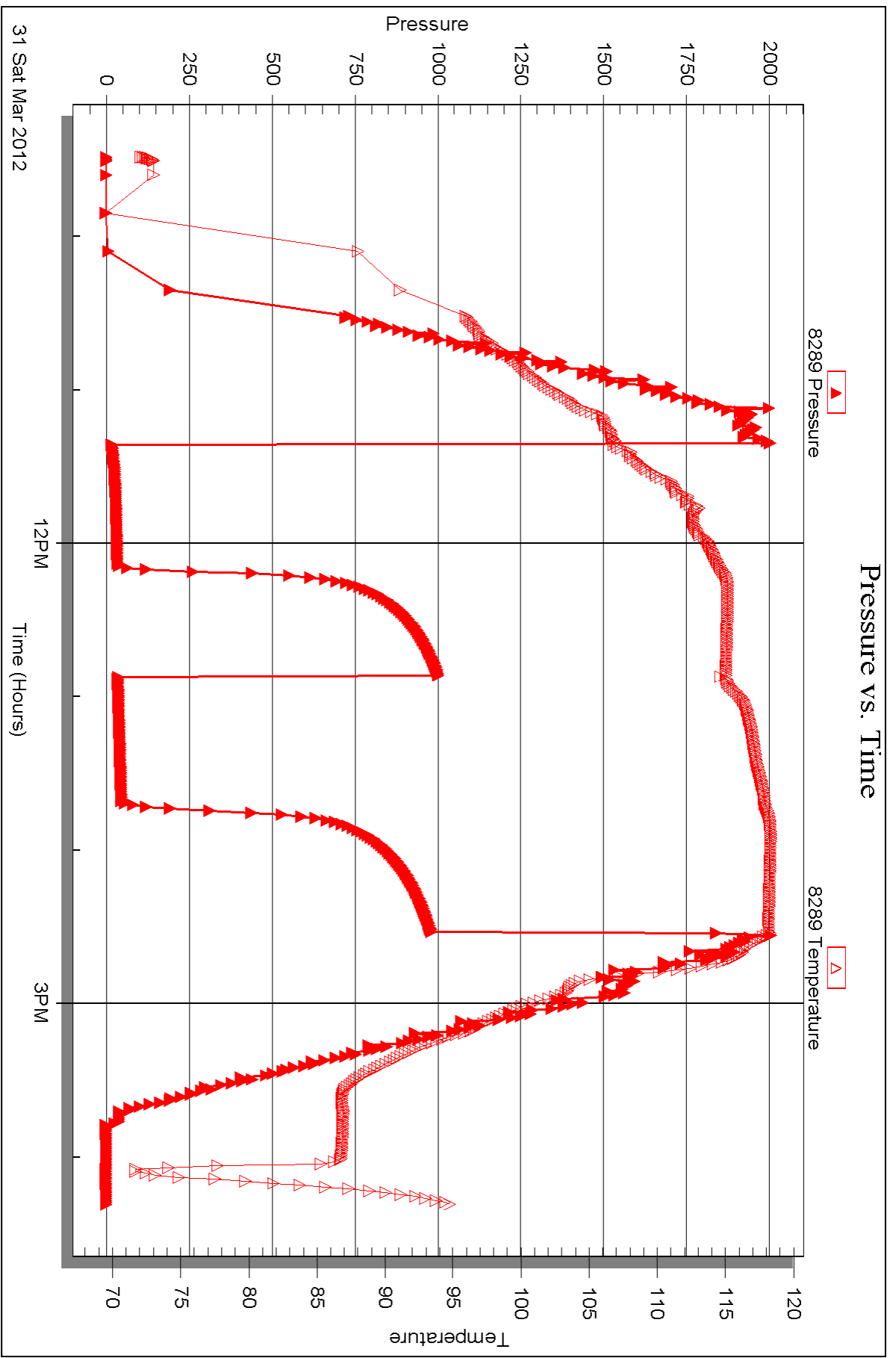


Serial #: 8289

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)

Reference Elevations: 2316.00 ft (KB)

Total Depth: 4061.00 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: 79.96 psig @ 3671.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

Last Calib.:

2012.04.01

Start Time: 10:24:37

End Time:

18:30:35

Time On Btm:

2012.04.01 @ 13:00:35

Time Off Btm:

2012.04.01 @ 16:03:20

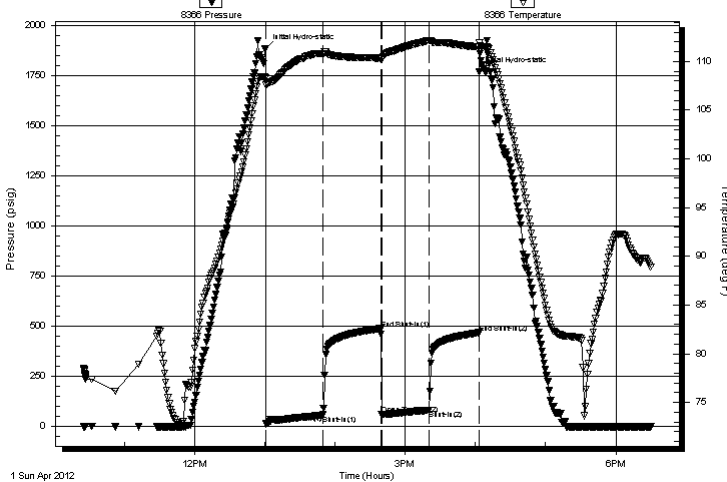
TEST COMMENT: IFP-Fair Blow , Built to 7-1/2"

ISI-Dead

FFP-Weak Blow , Built to 3"

FSI-Dead

Pressure vs. Time



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 between 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 in³

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

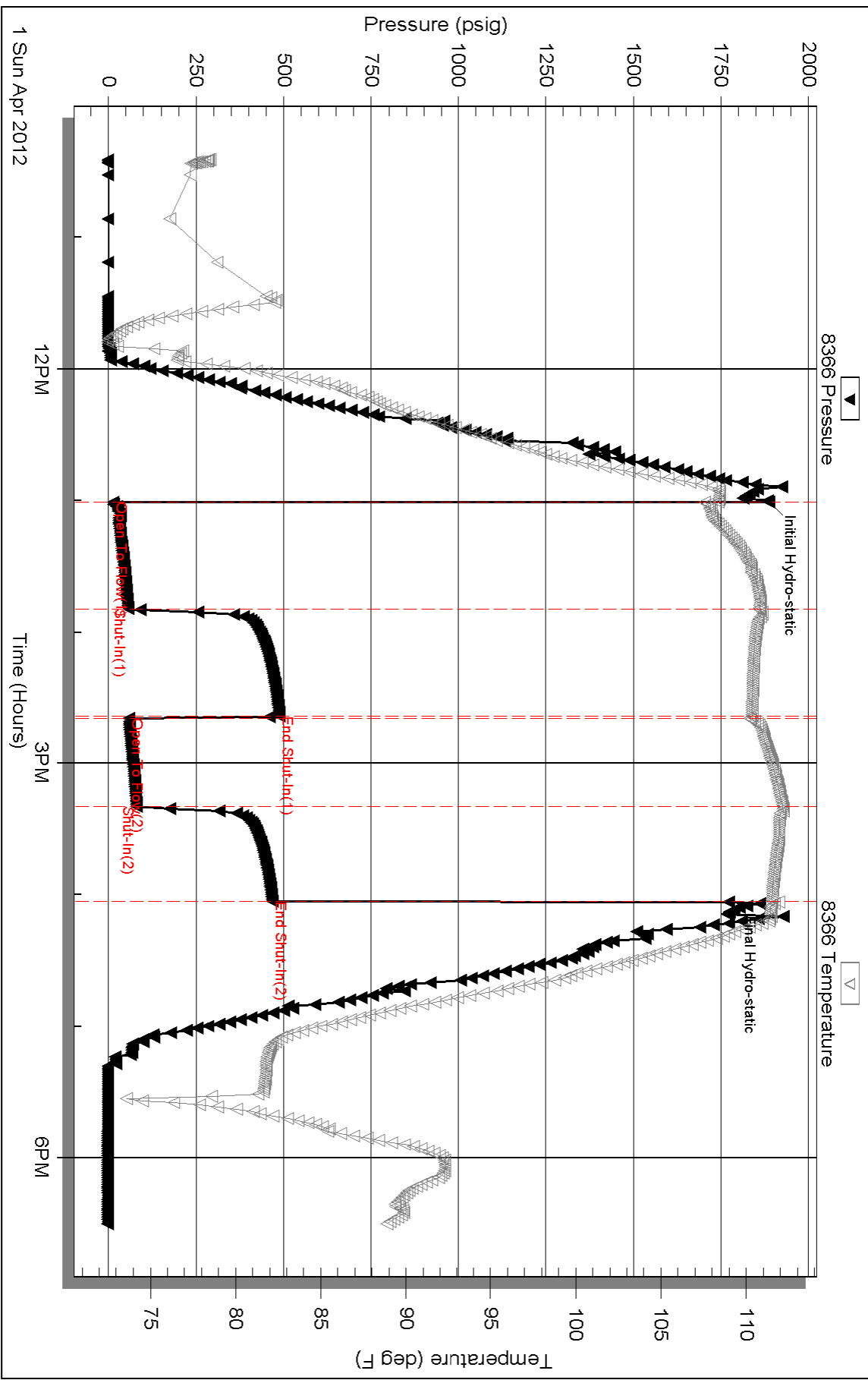
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

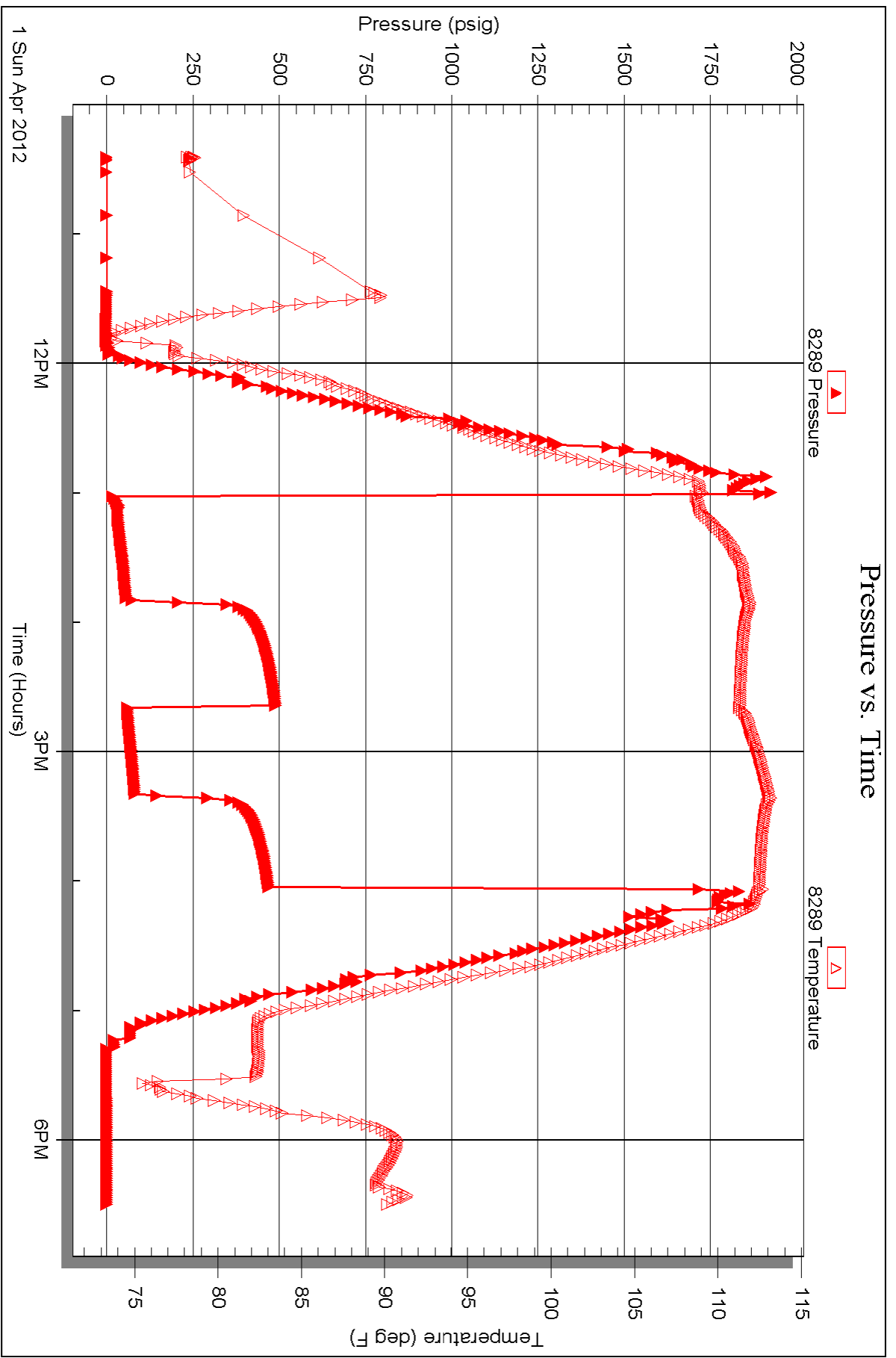


Serial #: 8289

Outside Dow n/n-g-Nelson Oil Company

Patty #1-30

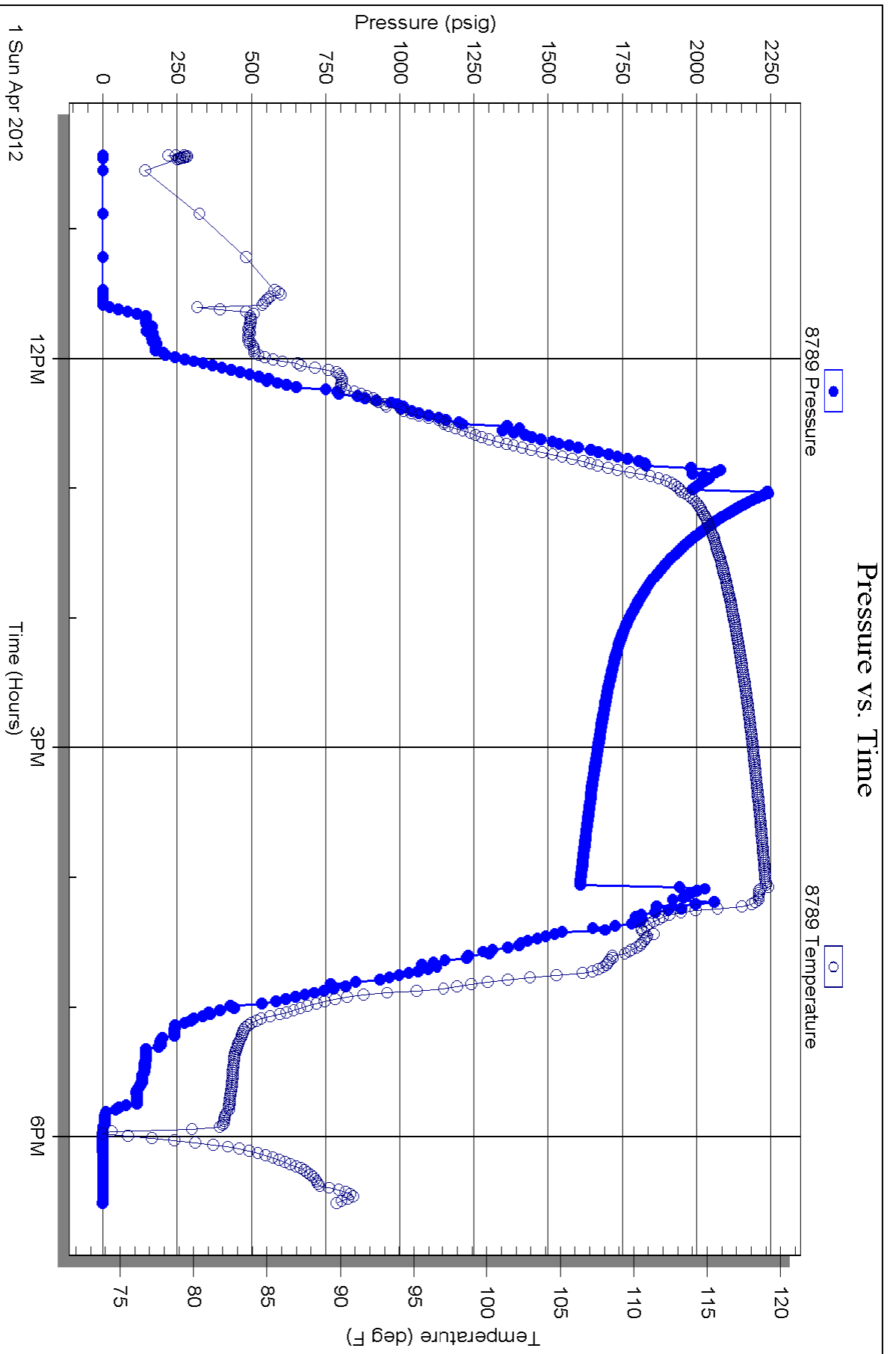
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 47309

Printed: 2012.04.04 @ 10:39:26





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
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 = 1.84 @ 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

RECEIVED
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 _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1211.80
 Sub Total 1211.80 MP/DST Disc't _____

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

RECEIVED
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 Marmaton
 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

Triobite Testing Inc. shall not be liable for damaged or 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. 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 seam</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 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1911.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1911-80

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 303

Date	3-24-12	Sec.	30	Twp.	12	Range	21	County	Trego	State	KS	On Location		Finish	10:00 p.m.
Lease	Patt	Well No.	1.30			Location Ogallah 2E Ninto									

Contractor	Discovery #4	Owner	To Quality Oilwell Cementing, Inc.
Type Job	Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	12 1/4	T.D.	223
Csg.	8 5/8	Depth	223
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	
Meas Line		Displace	133C
		Cement Amount Ordered	150 com 3 1/2 cts 2 1/2 cts

EQUIPMENT

Pumptrk	9	No.	Cementer	Chris	Common	150
			Helper			
Bulktrk		No.	Driver	Cozy	Poz. Mix	
			Driver			
Bulktrk	8	No.	Driver	Leaf	Gel.	3
			Driver		Calcium	5

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

8 5/8 on bottom. Est Circulation Mix
150SK + Displace.

Cement Circulated!

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface
Mileage 31

Signature <i>Michael Suckler</i>	Tax
	Discount
	Total Charge

