



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
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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: _____



1095444

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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	D & D 1-12
Doc ID	1095444

Tops

Name	Top	Datum
Top Anhydrite	1816'	+591
Base Anhydrite	1859'	+548
Topeka	3399'	-992
Heebner	3616'	-1209
Toronto	3636'	-1229
LKC	3652'	-1245
BKC	3900'	-1493
Marmaton	3987'	-1580
Arbuckle	4106'	-1699

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 5360

Cell 785-324-1041

Date	9-14-12	Sec.	12	Twp.	12	Range	23	County	Trego	State	Ks	On Location		Finish	7:30 PM
Lease	D+D		Well No.	1-12		Location Ogallah + 170, W to 290th, 1 1/4 N									
Contractor	Discavery #3					Owner J W/Intro									
Type Job	Surface					To Quality Oilwell Cementing, Inc. 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.	220'		Charge To Downing - Nelson									
Csg.	8 5/8"		Depth	219'		Street									
Tbg. Size			Depth			City State									
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	15'		Shoe Joint	15'		Cement Amount Ordered 150 sx Common 3%CC									
Meas Line			Displace	13 BLS											

EQUIPMENT

Pumptrk	5	No.	Cementer	Brett	2% Gel
			Helper		Common 150
Bulktrk	10	No.	Driver	Doug	Poz. Mix
			Driver		Gel. 3
Bulktrk	p.u.	No.	Driver	Rick	Calcium 5

JOB SERVICES & REMARKS

Remarks:	Cement did circulate.	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
		Sand
		Handling 158
		Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge	Surface
Mileage	32

X Signature <i>Bob Seuber</i>	Tax
	Discount
	Total Charge

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. 6548

Date	9-22-12	Sec.	12	Twp.	12	Range	23	County	Trego	State	KS	On Location		Finish	7:30 AM
Lease								Well No.		Owner					
Dv D								1-12		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Contractor										Type Job					
Discovery #3										Production String					
Hole Size				T.D.				Charge To							
7 7/8				4157				Downing / Nelson							
Csg.				Depth				Street							
5 1/2				4156											
Tbg. Size				Depth				City				State			
Tool Port Collar				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
1778															
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
20.94				20.94				180 com 10% salt 5% Carbenite 500 gal mud flush							
Meas Line				Displace											
				101 BC											
EQUIPMENT												Common		180	
Pumptrk		No.	Cementer		Helper				Poz. Mix						
15			Craig												
Bulktrk		No.	Driver		Driver				Gel.						
			Nick												
Bulktrk		No.	Driver		Driver				Calcium						
8			Cody												
JOB SERVICES & REMARKS												Hulls			
Remarks:												Salt		10	
Rat Hole												Flowseal			
30												Kol-Seal		900#	
Mouse Hole												Mud CLR 48		500 gal	
15												CFL-117 or CD110 CAF 38			
Centralizers												Sand			
Baskets												Handling		196	
D/V on Port Collar												Mileage			
1778												FLOAT EQUIPMENT			
5 1/2 size @ 4156 - Insert @ 4135 Est.												Guide Shoe		5 1/2	
Circulation Pump 500 gal mud clear												Centralizer		7	
with 100' spacer - Cement Rate 1.5 msc/d												Baskets		1	
Cement 5 1/2 with 135 SSC - Clear lines												AFU Inserts		Port collar	
Displace Plug - Plug landed @ 1520'												Float Shoe		1	
Release Pressure 100'												Latch Down		1	
												Rotator			
												Pumptrk Charge		prod long string	
												Mileage		32	
												Tax			
												Discount			
												Total Charge			
Signature															
Dolan Doster															



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

D&D #1-12

12-12s-23w Trego,KS

Start Date: 2012.09.18 @ 08:10:41

End Date: 2012.09.18 @ 15:23:35

Job Ticket #: 48680 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.25 @ 11:59:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48680

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 08:10:41

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:27:36

Time Test Ended: 15:23:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3678.00 ft (KB) To 3716.00 ft (KB) (TVD)

Reference Elevations: 2407.00 ft (KB)

Total Depth: 3716.00 ft (KB) (TVD)

2399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 109.05 psig @ 3684.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.18

End Date:

2012.09.18

Last Calib.: 2012.09.18

Start Time: 08:10:41

End Time:

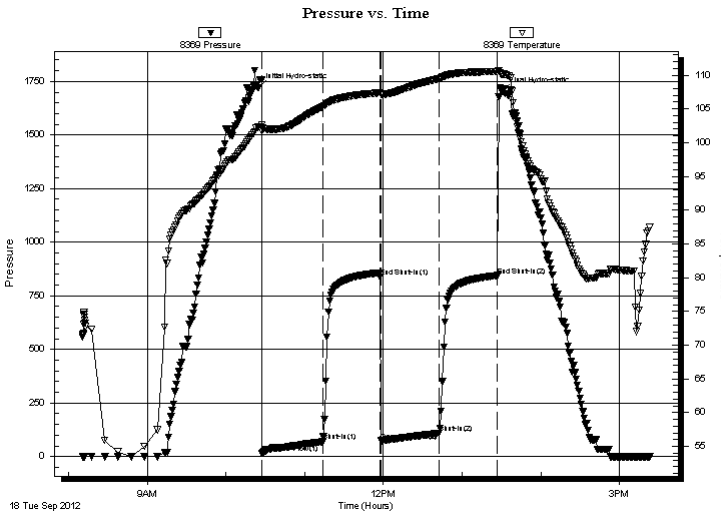
15:23:35

Time On Btm: 2012.09.18 @ 10:24:36

Time Off Btm: 2012.09.18 @ 13:30:35

TEST COMMENT: 45-IFP-w k to a fr bl 1/2" to 7 1/2" bl
45-ISIP-no bl
45-FFP-w k to a fr bl 1" to 3 1/2" bl
45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.05	102.32	Initial Hydro-static
3	14.79	101.75	Open To Flow (1)
49	69.99	105.32	Shut-In(1)
93	839.63	107.38	End Shut-In(1)
94	74.05	107.19	Open To Flow (2)
138	109.05	109.49	Shut-In(2)
183	844.87	110.49	End Shut-In(2)
186	1704.34	110.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	1.41
70.00	SOCMW 1%O49%M50%W	0.98
5.00	CO	0.07
0.00	105'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48680

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 08:10:41

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 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:	12.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3678.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	59.00 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			3658.00	
Shut In Tool	5.00			3663.00	
Hydraulic tool	5.00			3668.00	
Packer	5.00			3673.00	21.00 Bottom Of Top Packer
Packer	5.00			3678.00	
Stubb	1.00			3679.00	
Perforations	5.00			3684.00	
Recorder	0.00	8369	Inside	3684.00	
Recorder	0.00	8700	Outside	3684.00	
Perforations	29.00			3713.00	
Bullnose	3.00			3716.00	38.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48680

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 08:10:41

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:

93000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.52 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Water	1.410
70.00	SOCMW 1%O49%M50%W	0.982
5.00	CO	0.070
0.00	105'GIP	0.000

Total Length: 195.00 ft Total Volume: 2.462 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

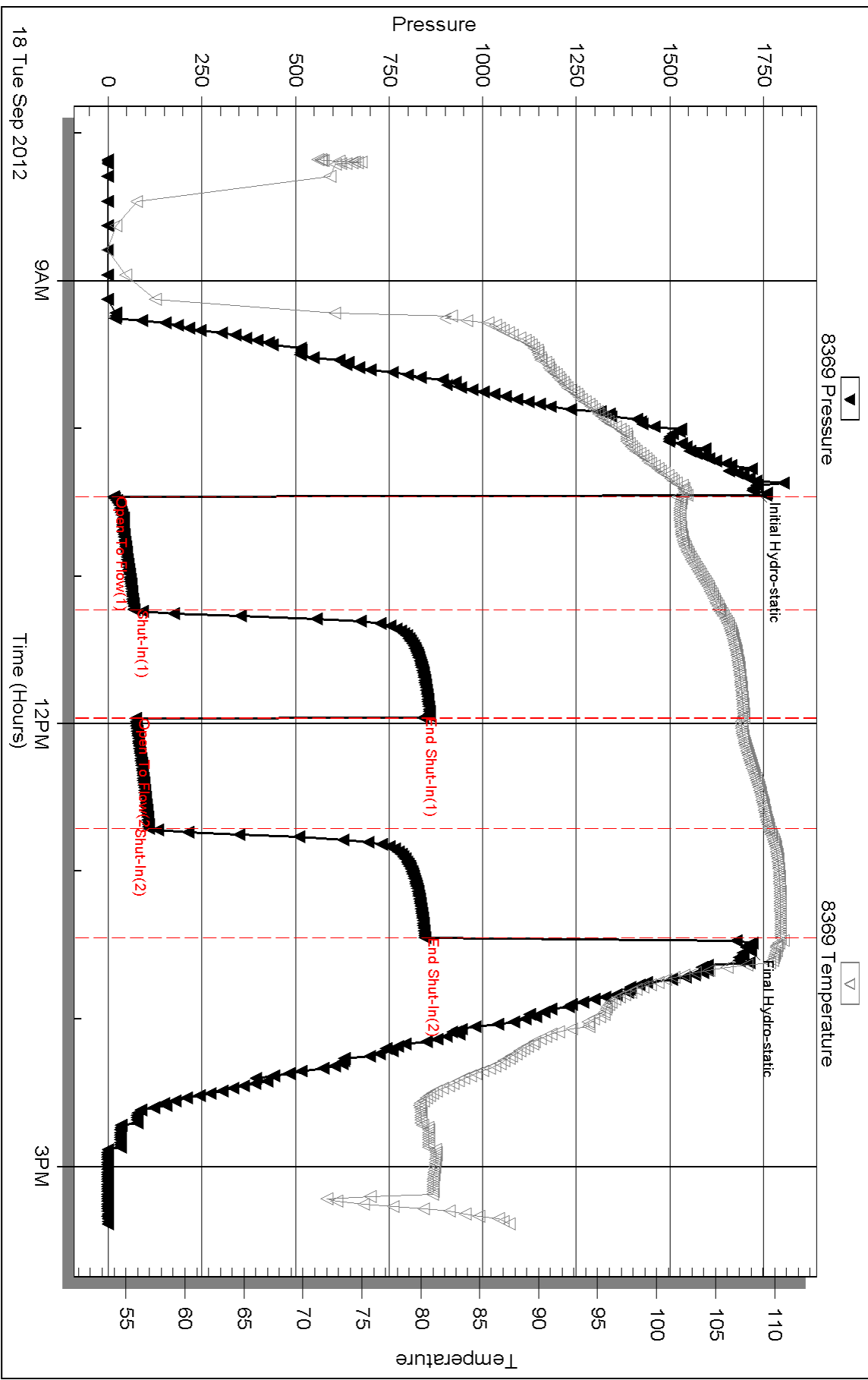
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07@83F

Pressure vs. Time

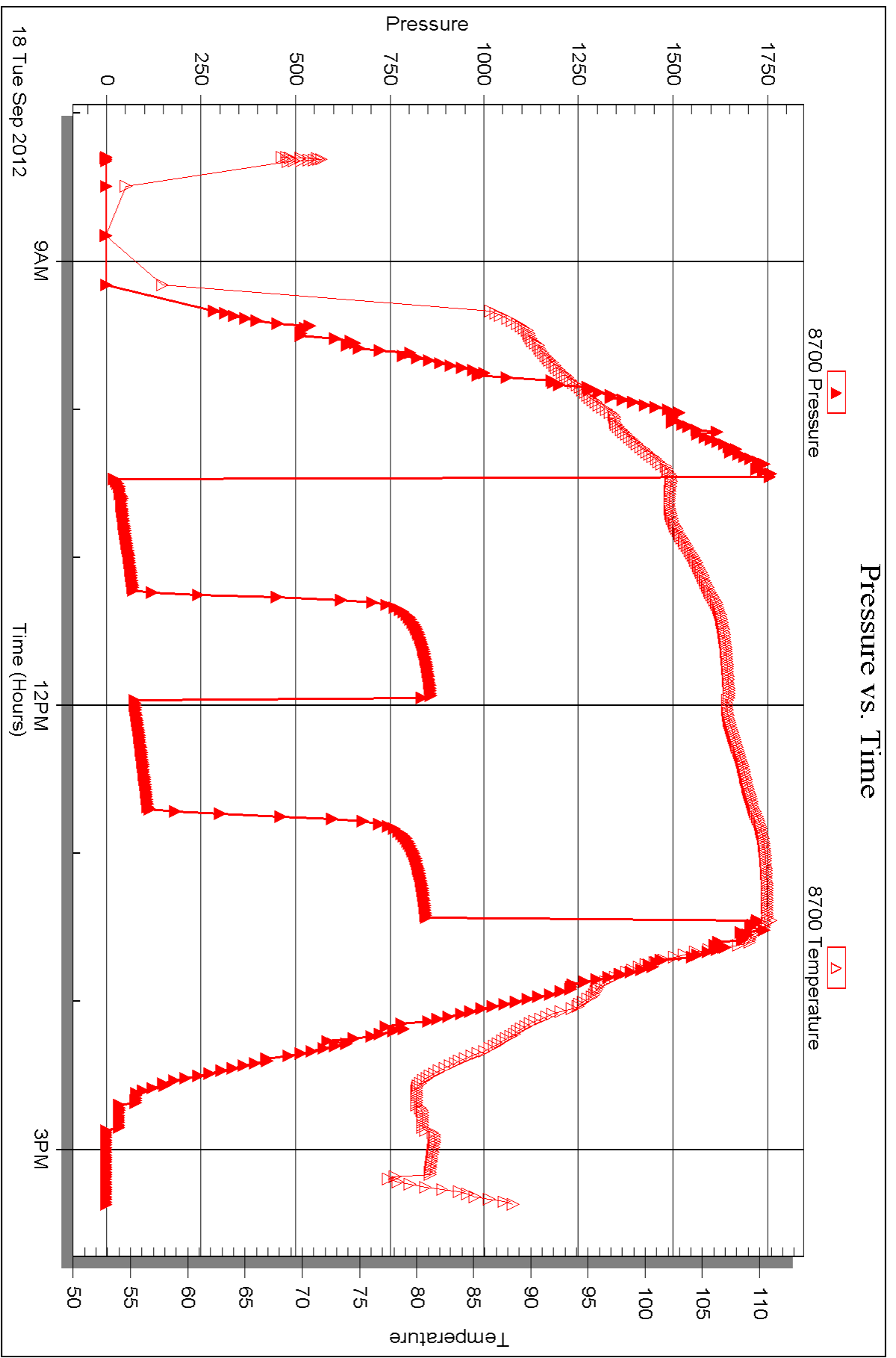


Serial #: 8700

Outside Dow nmg-Nelson Oil Co Inc

D&D#1-12

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

D&D #1-12

12-12s-23w Trego,KS

Start Date: 2012.09.18 @ 21:45:57

End Date: 2012.09.19 @ 04:18:21

Job Ticket #: 48681 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.25 @ 11:58:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48681

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 21:45:57

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:03:22

Time Test Ended: 04:18:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3714.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2407.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 26.86 psig @ 3715.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.18

End Date:

2012.09.19

Last Calib.:

2012.09.19

Start Time:

21:45:57

End Time:

04:18:21

Time On Btm:

2012.09.18 @ 23:59:52

Time Off Btm:

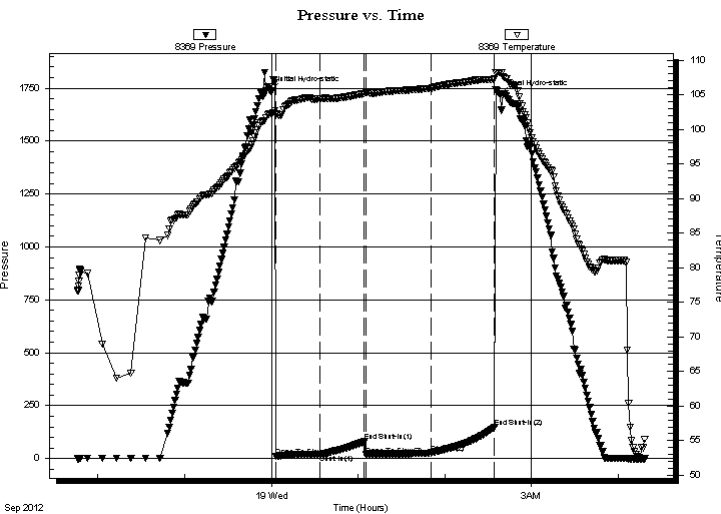
2012.09.19 @ 02:38:21

TEST COMMENT: 30-IFP-w k bl 1/4"

30-ISIP-no bl

45-FFP-w k bl thru-out 1" to 2 1/2" bl

45-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.68	102.22	Initial Hydro-static
4	10.36	102.21	Open To Flow (1)
34	19.99	104.39	Shut-In(1)
65	79.72	105.13	End Shut-In(1)
66	17.89	105.27	Open To Flow (2)
111	26.86	105.92	Shut-In(2)
155	148.76	107.23	End Shut-In(2)
159	1718.02	108.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	MGO 10%G40%M50%O	0.22
0.00	85'GIP	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

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48681

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 21:45:57

Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 51.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3714.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	16.00 ft				
Tool Length:	37.00 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			3694.00	
Shut In Tool	5.00			3699.00	
Hydraulic tool	5.00			3704.00	
Packer	5.00			3709.00	21.00 Bottom Of Top Packer
Packer	5.00			3714.00	
Stubb	1.00			3715.00	
Recorder	0.00	8369	Inside	3715.00	
Recorder	0.00	8700	Outside	3715.00	
Perforations	12.00			3727.00	
Bullnose	3.00			3730.00	16.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48681

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.09.18 @ 21:45:57

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.53 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	MGO 10%G40%M50%O	0.218
0.00	85'GIP	0.000

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

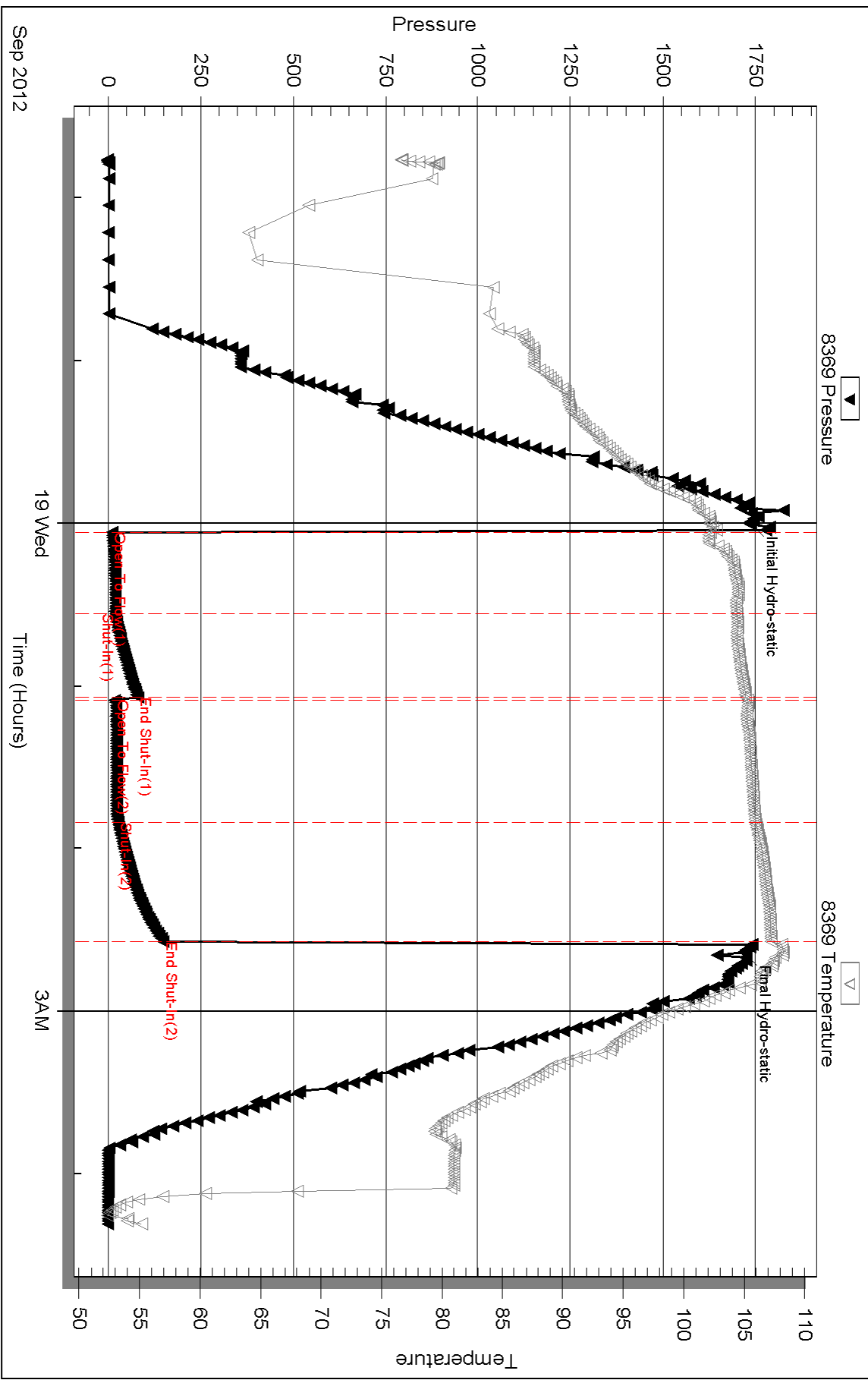
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

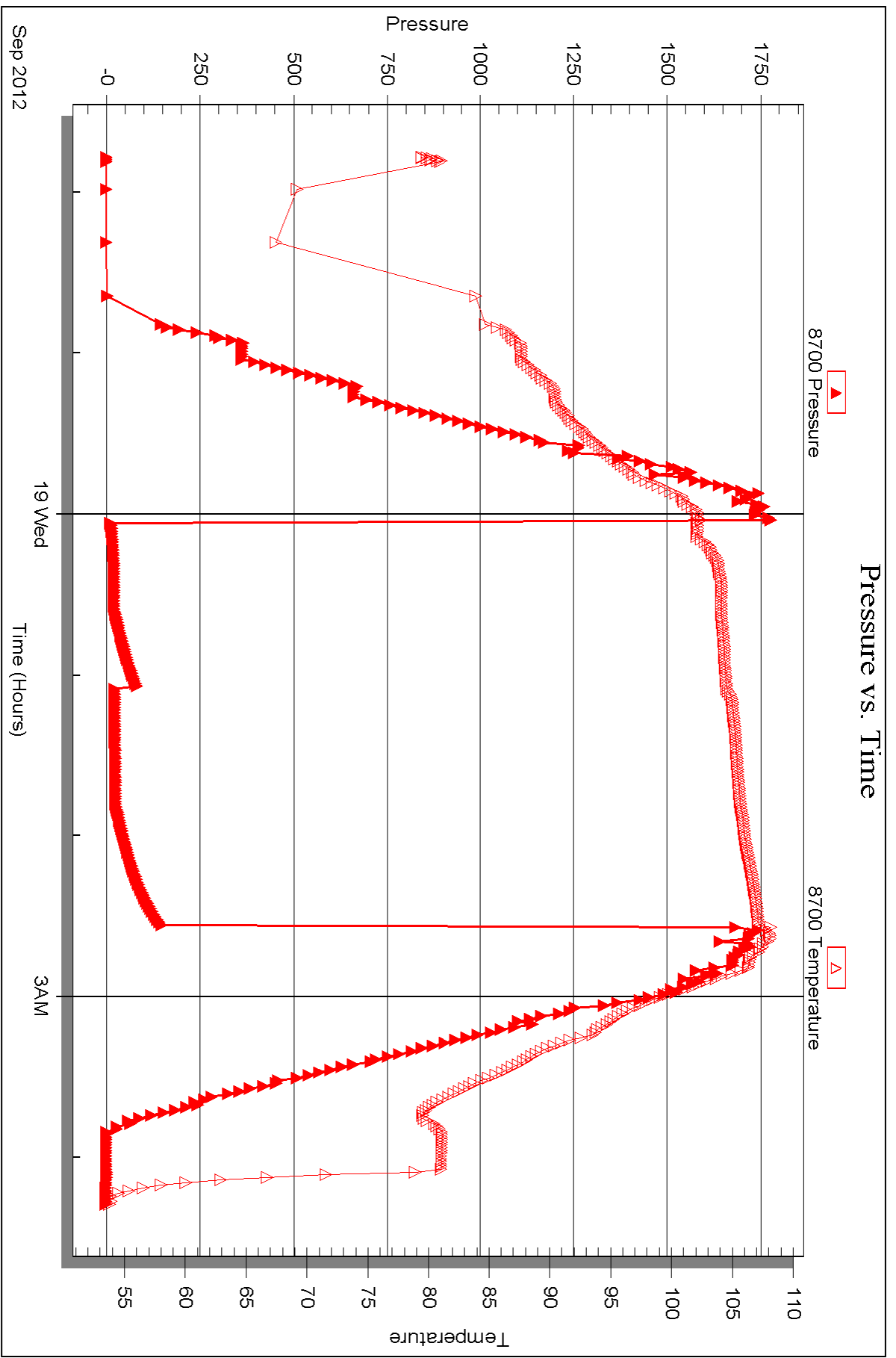


Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

D&D#1-12

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48681

Printed: 2012.09.25 @ 11:58:43



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

D&D #1-12

12-12s-23w Trego,KS

Start Date: 2012.09.19 @ 17:10:12

End Date: 2012.09.19 @ 22:50:36

Job Ticket #: 48682 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.25 @ 11:57:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48682

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.09.19 @ 17:10:12

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:09:07

Time Test Ended: 22:50:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3780.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2407.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 21.81 psig @ 3784.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.19

End Date:

2012.09.19

Last Calib.:

2012.09.19

Start Time:

17:10:12

End Time:

22:50:36

Time On Btm:

2012.09.19 @ 19:06:37

Time Off Btm:

2012.09.19 @ 21:17:37

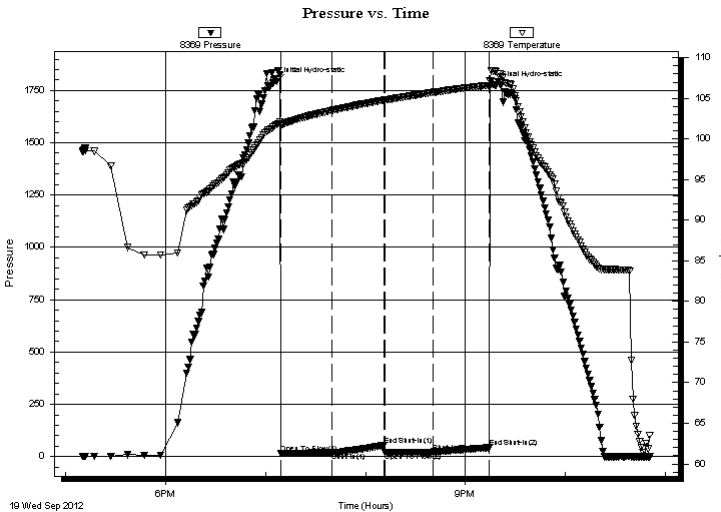
TEST COMMENT: 30-IFP-very Weak surface bl ,died in 20 min

30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.67	101.77	Initial Hydro-static
3	14.60	101.65	Open To Flow (1)
33	18.75	103.50	Shut-In(1)
65	54.88	104.77	End Shut-In(1)
65	20.89	104.78	Open To Flow (2)
94	21.81	105.72	Shut-In(2)
128	42.71	106.62	End Shut-In(2)
131	1773.66	108.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 5%O95%M	0.02

* 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 Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48682

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.09.19 @ 17:10:12

Tool Information

Drill Pipe:	Length: 3742.00 ft	Diameter: 3.80 inches	Volume: 52.49 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 52.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3780.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	91.00 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			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	3.00			3784.00	
Recorder	0.00	8369	Inside	3784.00	
Recorder	0.00	8700	Outside	3784.00	
Blank Spacing	63.00			3847.00	
Bullnose	3.00			3850.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48682

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.09.19 @ 17:10:12

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 5%O95%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

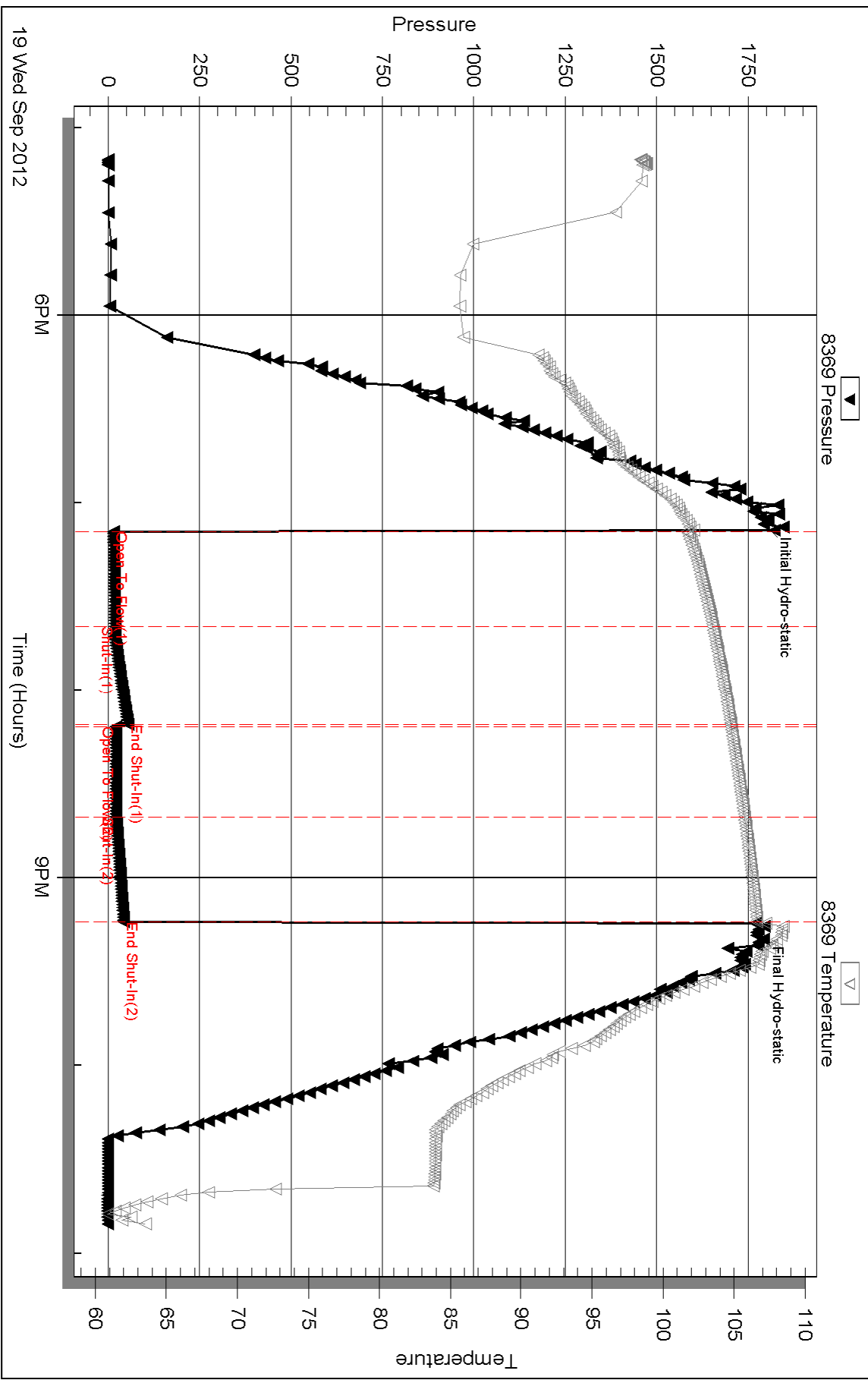
Inside

Dow nging-Nelson Oil Co Inc

D&D #1-12

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48682

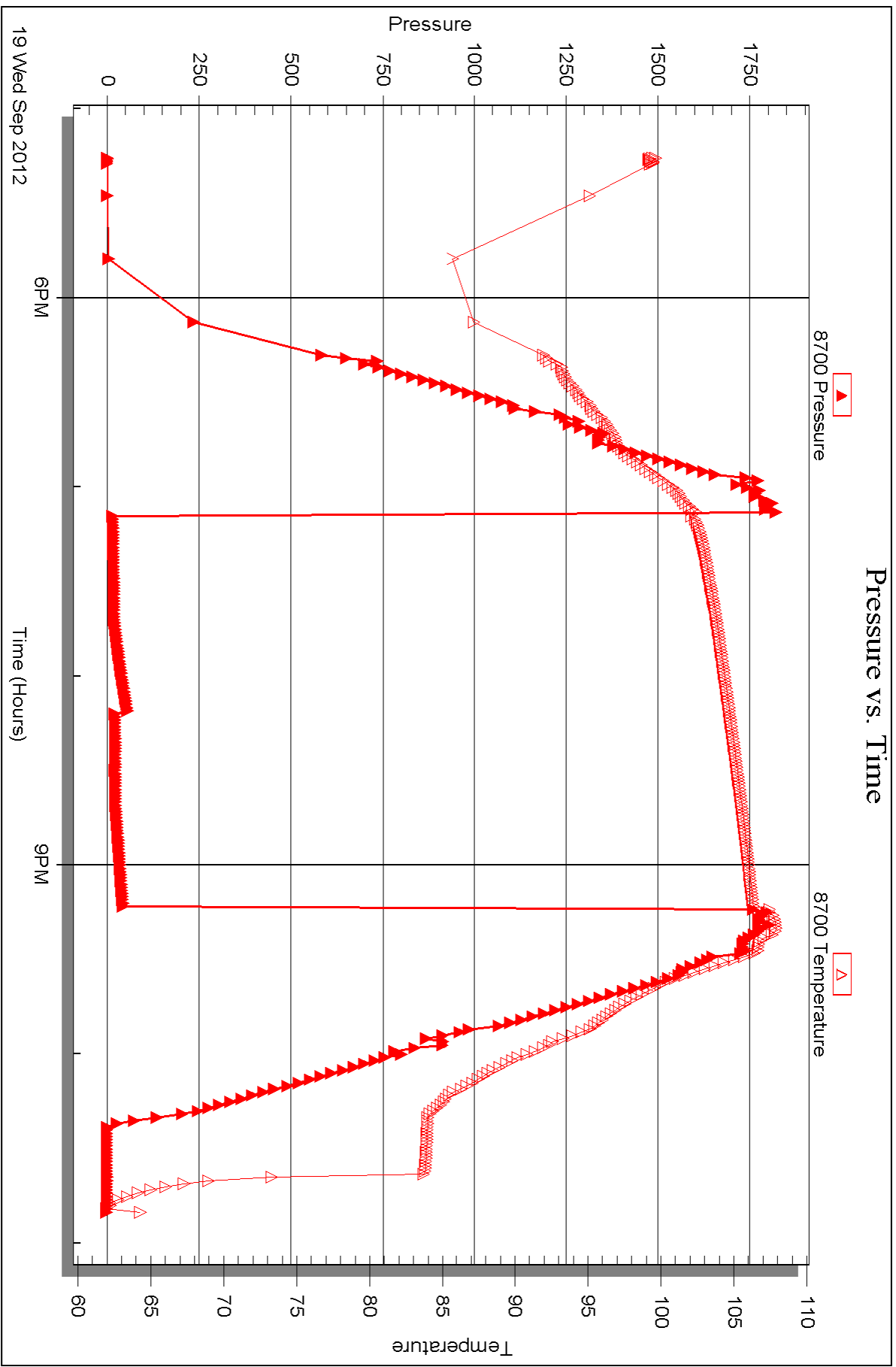
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Serial #: 8700

Outside Dow nung-Nelson Oil Co Inc

D&D#1-12

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

D&D #1-12

12-12s-23w Trego,KS

Start Date: 2012.09.20 @ 16:35:33

End Date: 2012.09.20 @ 22:24:27

Job Ticket #: 48683 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.25 @ 11:57:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48683

DST#: 4

ATTN: Ron Nelson

Test Start: 2012.09.20 @ 16:35:33

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:42:28

Time Test Ended: 22:24:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3994.00 ft (KB) To 4036.00 ft (KB) (TVD)

Reference Elevations: 2407.00 ft (KB)

Total Depth: 4036.00 ft (KB) (TVD)

2399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 37.12 psig @ 4000.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.20

End Date:

2012.09.20

Last Calib.:

2012.09.20

Start Time:

16:35:33

End Time:

22:24:27

Time On Btm:

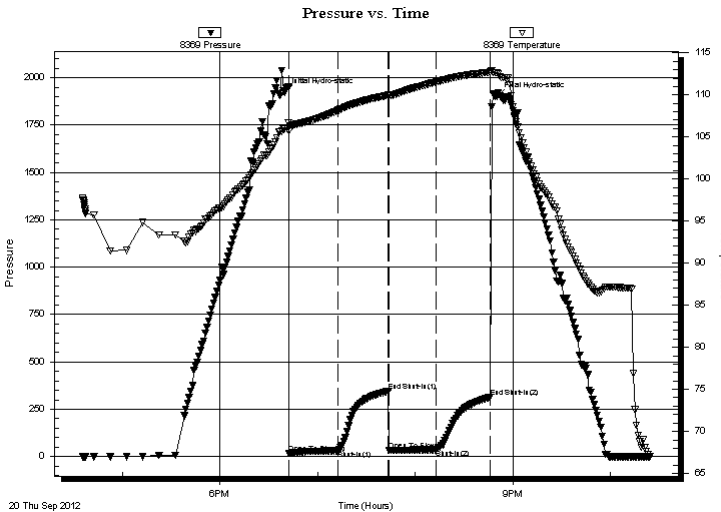
2012.09.20 @ 18:39:58

Time Off Btm:

2012.09.20 @ 20:49:58

TEST COMMENT: 30-IFP-w k bl 1/4" to 1/2" bl
30-ISIP-no bl
30-FFP-very w k surface bl thru-out
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.95	105.98	Initial Hydro-static
3	16.13	105.72	Open To Flow (1)
33	31.61	108.16	Shut-In(1)
64	345.58	109.96	End Shut-In(1)
64	33.09	109.90	Open To Flow (2)
93	37.12	111.55	Shut-In(2)
126	312.84	112.71	End Shut-In(2)
130	1899.93	112.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SOCWM 5%O25%W70%M	0.50

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48683

DST#: 4

ATTN: Ron Nelson

Test Start: 2012.09.20 @ 16:35:33

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3994.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	63.00 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			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Packer	5.00			3989.00	21.00 Bottom Of Top Packer
Packer	5.00			3994.00	
Stubb	1.00			3995.00	
Perforations	5.00			4000.00	
Recorder	0.00	8369	Inside	4000.00	
Recorder	0.00	8700	Outside	4000.00	
Blank Spacing	33.00			4033.00	
Bullnose	3.00			4036.00	42.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48683

DST#: 4

ATTN: Ron Nelson

Test Start: 2012.09.20 @ 16:35:33

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:

10000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
55.00	SOCWM 5%O25%W70%M	0.498

Total Length: 55.00 ft Total Volume: 0.498 bbl

Num Fluid Samples: 0

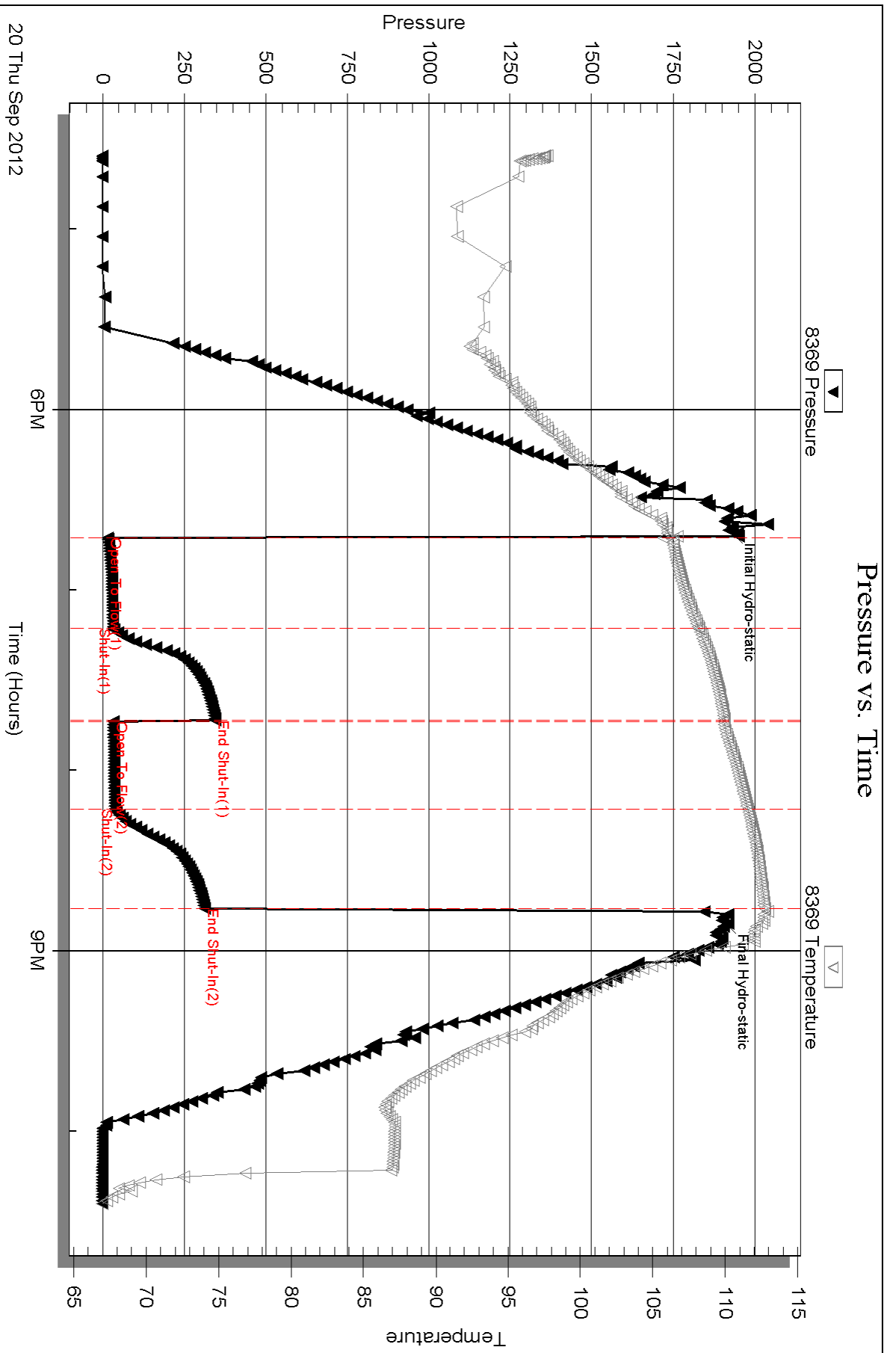
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .59@72F

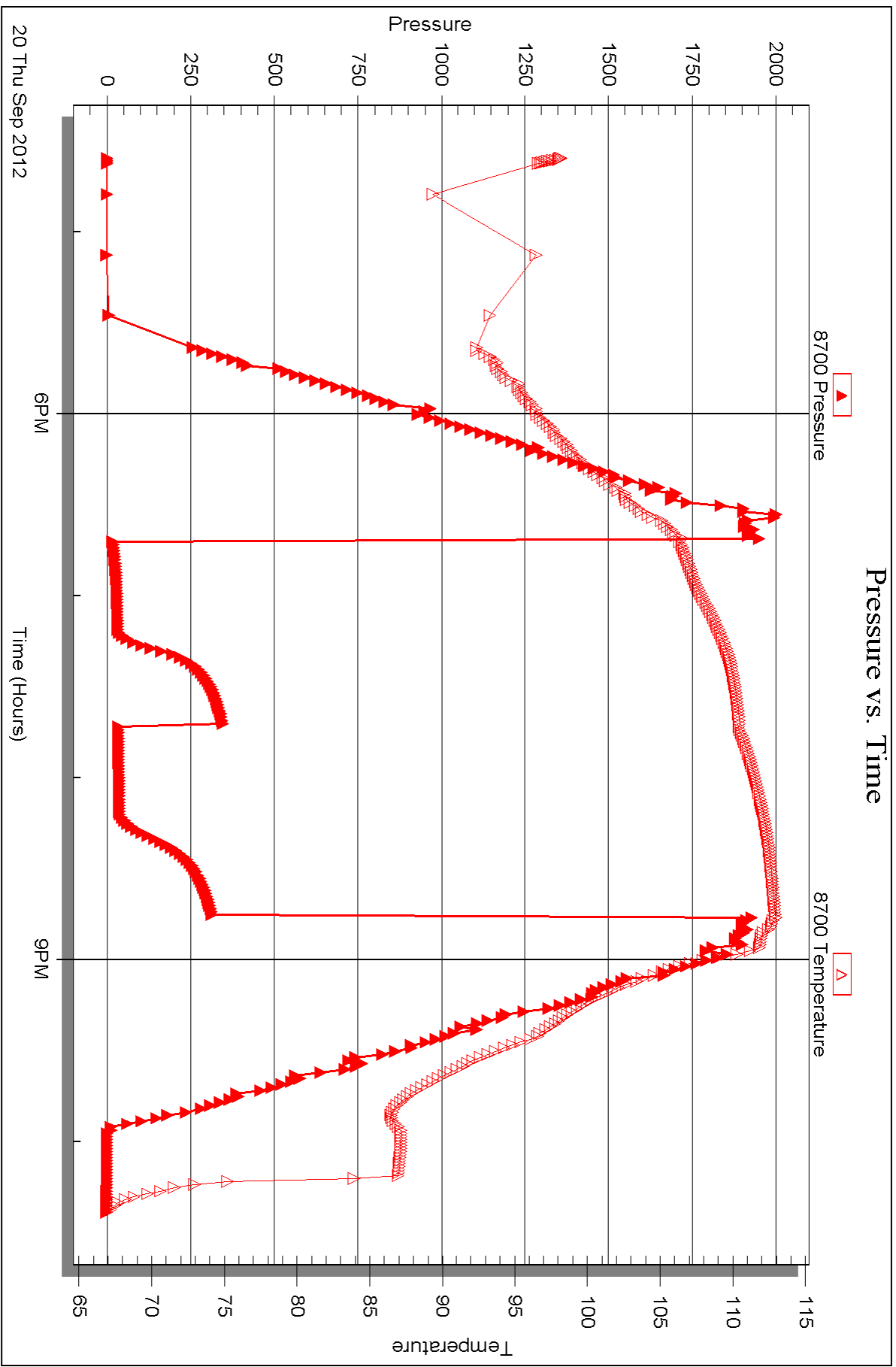


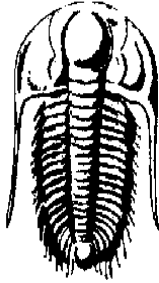
Serial #: 8700

Outside Dow n/mg-Nelson Oil Co Inc

D&D#1-12

DST Test Number: 4





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

D&D #1-12

12-12s-23w Trego,KS

Start Date: 2012.09.21 @ 13:25:30

End Date: 2012.09.21 @ 19:46:54

Job Ticket #: 48684 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.25 @ 11:56:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48684

DST#: 5

ATTN: Ron Nelson

Test Start: 2012.09.21 @ 13:25:30

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:55

Time Test Ended: 19:46:54

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3622.00 ft (KB) To 3644.00 ft (KB) (TVD)

Reference Elevations: 2407.00 ft (KB)

Total Depth: 4157.00 ft (KB) (TVD)

2399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 239.75 psig @ 3625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21

End Date:

2012.09.21

Last Calib.:

2012.09.21

Start Time: 13:25:30

End Time:

19:46:54

Time On Btm:

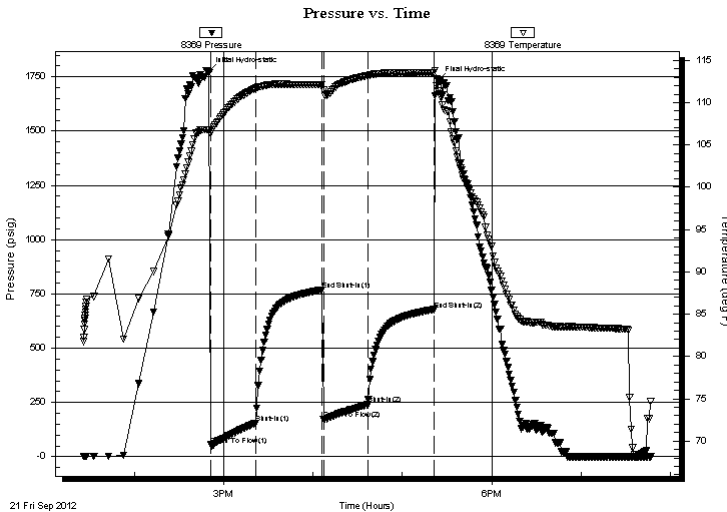
2012.09.21 @ 14:49:25

Time Off Btm:

2012.09.21 @ 17:23:55

TEST COMMENT: 30-IFP-strg bl in 3 min
45-ISIP-4" bl bk
30-FFP-strg bl in 3 min
45-FSIP-6" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.84	106.85	Initial Hydro-static
2	54.30	106.31	Open To Flow (1)
32	155.45	111.70	Shut-In(1)
77	769.27	112.12	End Shut-In(1)
78	171.42	111.51	Open To Flow (2)
107	239.75	113.19	Shut-In(2)
152	678.15	113.54	End Shut-In(2)
155	1730.78	111.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1010'GIP	0.00
567.00	CO	7.68
63.00	GMO 20%G20%M60%O	0.88

* 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 Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48684

DST#: 5

ATTN: Ron Nelson

Test Start: 2012.09.21 @ 13:25:30

Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3622.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	3644.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	559.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3602.00	
Shut In Tool	5.00			3607.00	
Hydraulic tool	5.00			3612.00	
Packer	5.00			3617.00	21.00 Bottom Of Top Packer
Packer	5.00			3622.00	
Stubb	1.00			3623.00	
Perforations	2.00			3625.00	
Recorder	0.00	8369	Inside	3625.00	
Recorder	0.00	8700	Outside	3625.00	
Perforations	15.00			3640.00	
Blank Off Sub	1.00			3641.00	
Blank Spacing	3.00			3644.00	22.00 Tool Interval
Packer	5.00			3649.00	
Stubb	1.00			3650.00	
Recorder	0.00	8374	Below	3650.00	
Blank Spacing	507.00			4157.00	
Bullnose	3.00			4160.00	516.00 Bottom Packers & Anchor
Total Tool Length:	559.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

12-12s-23w Trego,KS

PO Box 1019
Hays KS 67601

D&D #1-12

Job Ticket: 48684

DST#: 5

ATTN: Ron Nelson

Test Start: 2012.09.21 @ 13:25:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1010'GIP	0.000
567.00	CO	7.680
63.00	GMO 20%G20%M60%O	0.884

Total Length: 630.00 ft Total Volume: 8.564 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

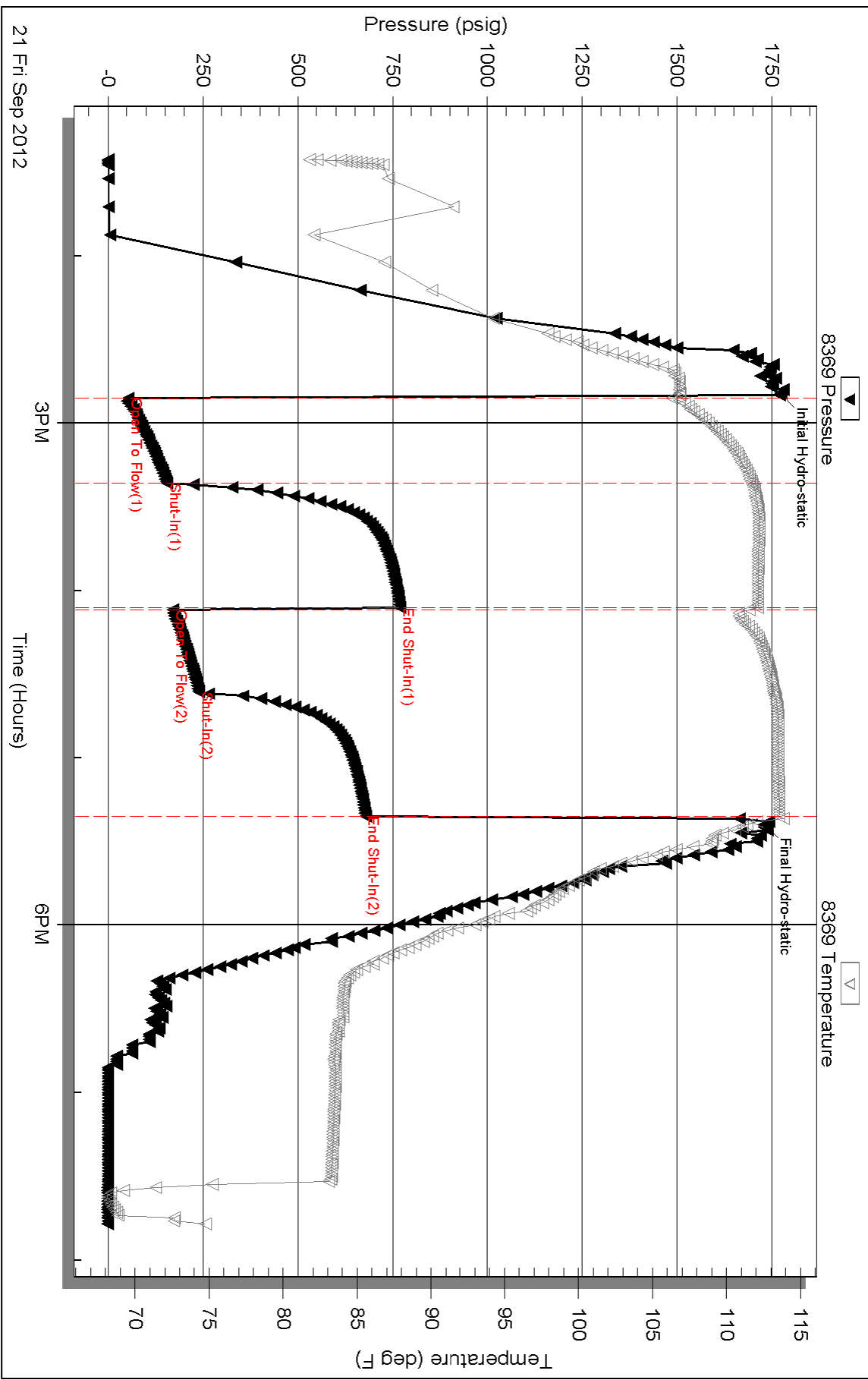
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

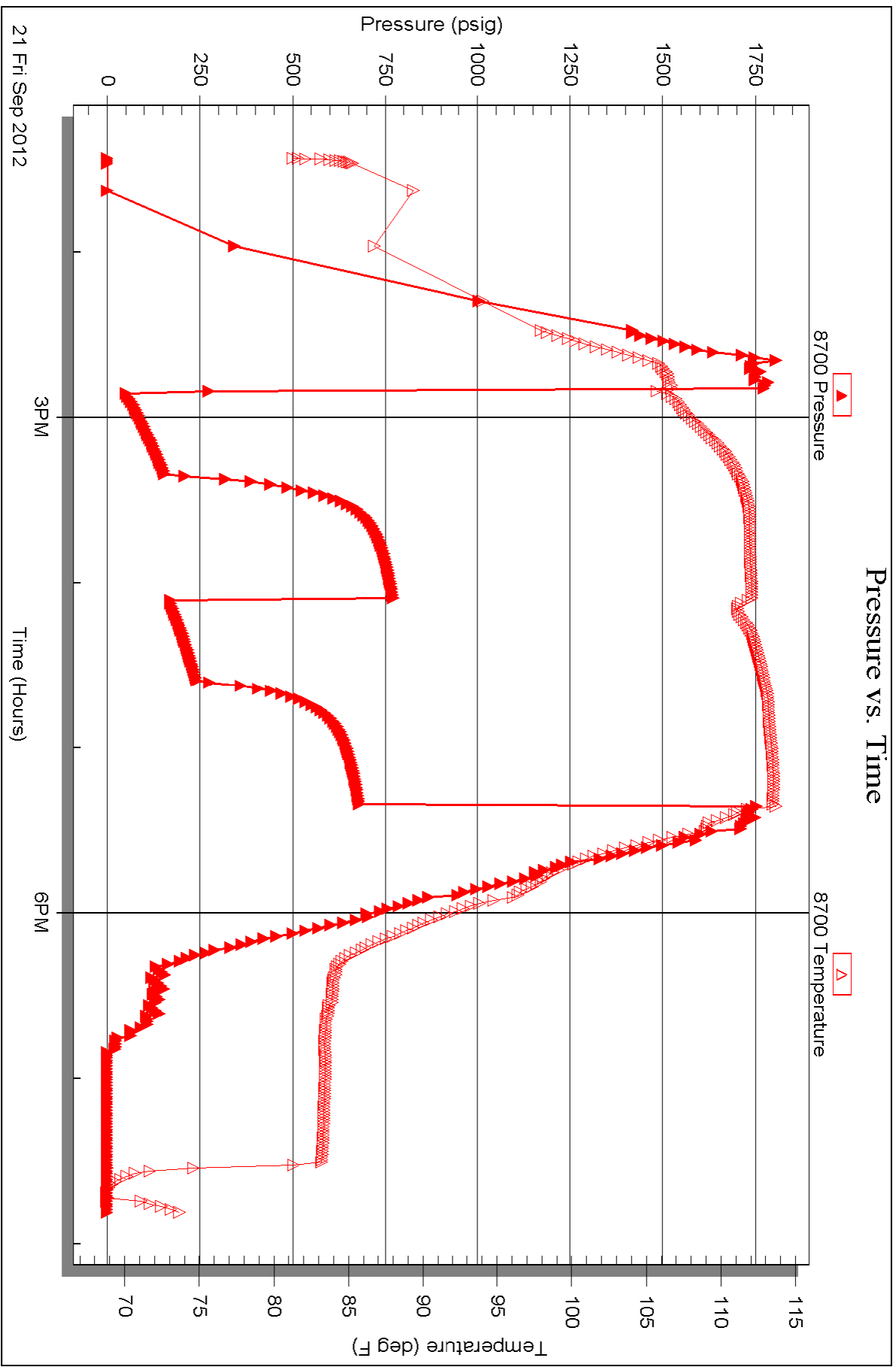


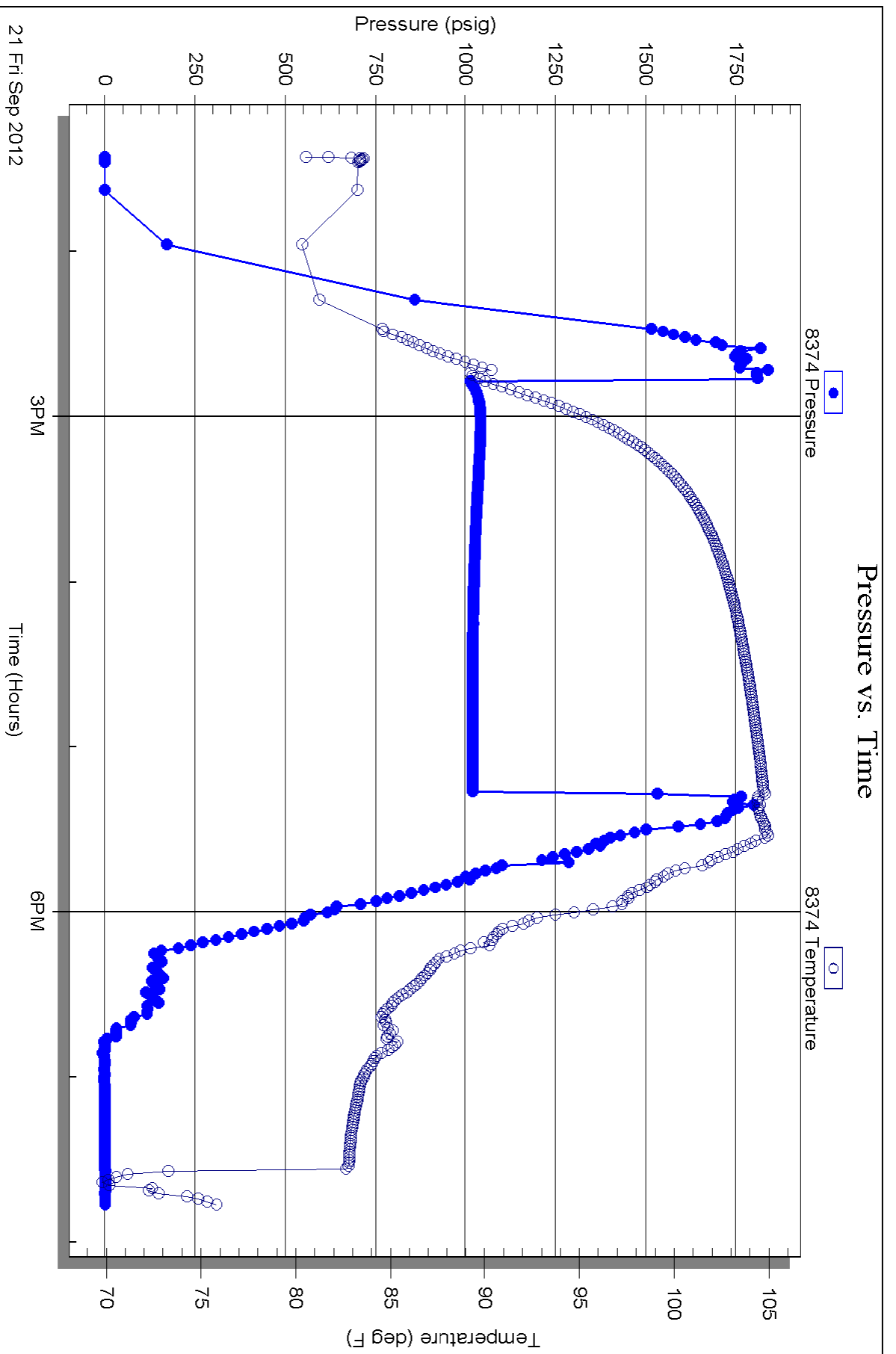
Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

D&D#1-12

DST Test Number: 5







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48680

4/10

Well Name & No. D+D #1-12 Test No. 1 Date 9-18-12
 Company Downing-Nelson Oil Co Inc Elevation 2407 KB 2399 GL
 Address PO BOX 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC DOWNING Rig DISCOVERY rig 3
 Location: Sec. 12 Twp. 12 Rge. 23^w Co. Yrego State K

Interval Tested 3678-3716 Zone Tested LKC C-D
 Anchor Length 38 Drill Pipe Run 3639 Mud Wt. 8.7
 Top Packer Depth 3673 Drill Collars Run 30 Vis 65
 Bottom Packer Depth 3678 Wt. Pipe Run - WL 7.6
 Total Depth 3716 Chlorides 800 ppm System LCM 3[#]
 Blow Description IFP - WEAK TO A GOOD BLOW 1/2" TO 7 1/2" BLOW
ISIP - NO BLOW
FFP - WEAK TO A FAIR BLOW 1" TO 3 1/2" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>105</u>	<u>GIP</u>				
<u>5</u>	<u>CO</u>				
<u>70</u>	<u>SO CMW</u>		<u>1</u>	<u>50</u>	<u>49</u>
<u>120</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 195 BHT 110 Gravity 38 API RW .07 @ 83 °F Chlorides 93000 ppm
 (A) Initial Hydrostatic 1722 Test 1150 T-On Location 0700
 (B) First Initial Flow 14 Jars T-Started 0810
 (C) First Final Flow 69 Safety Joint T-Open 1025
 (D) Initial Shut-In 839 Circ Sub T-Pulled 1325
 (E) Second Initial Flow ~~10974~~ Hourly Standby T-Out 1523
 (F) Second Final Flow 109 Mileage 68RT 105.40 Comments _____
 (G) Final Shut-In 844 Sampler _____
 (H) Final Hydrostatic 1704 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Shale Packer _____ Ruined Packer _____
 Final Flow 45 Extra Packer _____ Extra Copies _____
 Final Shut-In 45 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1255.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1255.40

Approved By _____ Our Representative RAY SCHWAGER 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

Test Ticket

NO. 48681

4/10

Well Name & No. D+D #1-12 Test No. 2 Date 9-18-12
 Company Downing-Nelson Oil Co Inc Elevation 2407 KB 2399 GL
 Address P.O. Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig DISCOVERY rig 3
 Location: Sec. 12 Twp. 12^s Rge. 23^w Co. Trego State K

Interval Tested 3714-3730 Zone Tested LKC "E"
 Anchor Length 16 Drill Pipe Run 3676 Mud Wt. 8.7
 Top Packer Depth 3709 Drill Collars Run 30 Vis 65
 Bottom Packer Depth 3714 Wt. Pipe Run - WL 7.6
 Total Depth 3730 Chlorides 800 ppm System LCM 3#

Blow Description FFP- WEAK Blow thru-out 1/4" Blow
ISIP- NO Blow
FFP- WEAK Blow thru-out 1" to 2 1/2" Blow
FSIP- NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>GIP</u>				
<u>35</u>	<u>MGO</u>	<u>10</u>	<u>50</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 107 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1736 Test 1150 T-On Location 2115
 (B) First Initial Flow 10 Jars - T-Started 2145
 (C) First Final Flow 19 Safety Joint - T-Open 0000
 (D) Initial Shut-In 79 Circ Sub - T-Pulled 0230
 (E) Second Initial Flow 17 Hourly Standby - T-Out 0418
 (F) Second Final Flow 26 Mileage 68RT 105.40 Comments -
 (G) Final Shut-In 148 Sampler -
 (H) Final Hydrostatic 1718 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1255.40
 Accessibility - MP/DST Disc't -

Sub Total 1255.40

Approved By _____ Our Representative RAY Schwager 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

Test Ticket

NO. 48682

4/10

Well Name & No. 070 #1-12 Test No. 3 Date 9-19-12
 Company Downing-Nelson Oil Co Inc Elevation 2407 KB 2399 GL
 Address P.O. Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Ron Nelson Marc Downing Rig Discovery rig 3
 Location: Sec. 12 Twp. 12^S Rge. 23 Co. Trego State K

Interval Tested 3780-3850 Zone Tested LKL H-J
 Anchor Length 70 Drill Pipe Run 3742 Mud Wt. 8.7
 Top Packer Depth 3775 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 3780 Wt. Pipe Run - WL 8
 Total Depth 3850 Chlorides 2000 ppm System LCM 2#

Blow Description FFP - Very weak surface blow, died in 20 min
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>50 CM</u>	<u>5</u>		<u>95</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 5 BHT 106 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1793 Test 1150 T-On Location 1650
 (B) First Initial Flow 14 Jars T-Started 1710
 (C) First Final Flow 18 Safety Joint T-Open 1905
 (D) Initial Shut-In 54 Circ Sub T-Pulled 2105
 (E) Second Initial Flow 20 Hourly Standby T-Out 2250
 (F) Second Final Flow 21 Mileage 68 RT 105.40 Comments _____
 (G) Final Shut-In 42 Sampler _____
 (H) Final Hydrostatic 1773 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1255.40

Approved By _____ Our Representative Ray Schwager 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

Test Ticket

NO. 48683

4/10

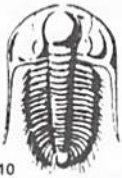
Well Name & No. O+O #1-12 Test No. 4 Date 9-20-12
 Company Downing-Nelson Oil Co Inc Elevation 2407 KB 2399 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC DOWNING Rig Discovery rig 3
 Location: Sec. 12 Twp. 12^s Rge. 23^w Co. Trego State Ks

Interval Tested 3994-4036 Zone Tested MARMATON
 Anchor Length 42 Drill Pipe Run 3961 Mud Wt. 8.9
 Top Packer Depth 3989 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 3994 Wt. Pipe Run - WL 8
 Total Depth 4036 Chlorides 3000 ppm System LCM 2#
 Blow Description IFP - WEAK BLOW 1/4" TO 1/2" BLOW
ISIP - NO BLOW
FFP - VERY WEAK SURFACE BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>50 CWM</u>	<u>5</u>	<u>25</u>	<u>70</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 55 BHT 112 Gravity - API RW .59 @ 72° F Chlorides 10000 ppm
 (A) Initial Hydrostatic 1919 Test 1250 T-On Location 1615
 (B) First Initial Flow 16 Jars - T-Started 1635
 (C) First Final Flow 31 Safety Joint - T-Open 1840
 (D) Initial Shut-In 345 Circ Sub - T-Pulled 2040
 (E) Second Initial Flow 33 Hourly Standby - T-Out 2224
 (F) Second Final Flow 37 Mileage 68RT 105.40 Comments -
 (G) Final Shut-In 312 Sampler -
 (H) Final Hydrostatic 1899 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1355.40
 Accessibility - MP/DST Disc't -
 Sub Total 1355.40

Approved By _____ Our Representative RAY SCHWENGER 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

Test Ticket

NO. 48684

4/10

Well Name & No. DOD #1-12 Test No. 5 Date 9-21-12
 Company Downing-Nelson Oil Co Inc Elevation 2407 KB 2399 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. MARC DOWNING Rig Discovery rig 3
 Location: Sec. 12 Twp. 12^S Rge. 23^W Co. TRCO State Ks

Interval Tested 3622-3644 Zone Tested TORONTO
 Anchor Length 22 Drill Pipe Run 3601 Mud Wt. 9.1
 Top Packer Depth 3622-3617 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3644 Wt. Pipe Run - WL 8
 Total Depth 4157 Chlorides 3000 ppm System LCM 2#
 Blow Description IFP - STRONG BLOW IN 3min
ISIP - 4" BLOW BACK
FFP - STRONG BLOW IN 3min
FSTIP - 6" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>1010</u>	<u>GIP</u>				
<u>567</u>	<u>CO</u>				
<u>63</u>	<u>GMO</u>	<u>20</u>	<u>60</u>	<u>20</u>	

Rec Total 630 BHT 113 Gravity 22 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1773</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1300</u>
(B) First Initial Flow <u>54</u>	<input type="checkbox"/> Jars	T-Started <u>1325</u>
(C) First Final Flow <u>154</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1445</u>
(D) Initial Shut-In <u>769</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1715</u>
(E) Second Initial Flow <u>171</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1946</u>
(F) Second Final Flow <u>239</u>	<input checked="" type="checkbox"/> Mileage <u>68RT</u> 105.40	Comments
(G) Final Shut-In <u>678</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1730</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1955.40</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1955.40</u>	

Approved By _____

Our Representative Ray Schwager

Thank you 909

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COMPANY: Downing & Nelson Oil Co. Inc.
WELL: D + D # 1-12
FIELD: Neuseme

LOCATION: 2066' FAL + 1140' FEL
ELEVATION: KR 2467
PRODUCTION: Taranto

SEC. 12 TWP. 12S RGE. 23W
COUNTY: Trego
STATE: Kansas

OPERATOR: DNEXT
CONTRACTOR: Discovering Drilling, Rig #3
CASING RECORD: 5 1/2" @ 4156'
SURF: 498' @ 220' PROD: 5 1/2" @ 4156'
TOTAL DEPTH DRILLERS: 4157'
TOTAL DEPTH LOG: 4157'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SURFSEA POSITION	STRUCTURAL POSITION
Top Anhydrite base Anhydrite	NA	1814	1891	NA
Tosca	3117	3599	-992	+1
Heegner	3117	3599	-1209	+1
LKC	3439	3439	-1229	+1
Marmatan	3989	3989	-1245	+1
Arbuckle	4108	4108	-1493	not recorded
			-1582	"
			-1589	"
			-1699	"

REFERENCE WELL FOR STRUCTURE: Imperial D:1
Morgan #3 SE-NW-NE Sec. 12-12S-23W

DRILL STEM TESTS

NO.	DATE/TIME	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	REMARKS

LEGEND

