



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: _____



1098487

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> <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	Newcomer Brothers 1-12
Doc ID	1098487

Tops

Name	Top	Datum
Top Anhydrite	1826'	+586
Base Anhydrite	1873'	+539
Topeka	3404'	-992
Heebner	3623'	-1211
Toronto	3642'	-1230
LKC	3656'	-1244
BKC	3898'	-1486
Marmaton	3994'	-1582
Cherokee Shale	4048'	-1636
Arbuckle	4124'	-1712

JOB LOG

SWIFT Services, Inc.

DATE 10-16-12 PAGE NO. 1

CUSTOMER Dowling & Nelson

WELL NO. #1-12

LEASE Newcomber Brothers

JOB TYPE long string

TICKET NO. 22866

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	02145							on loc w/ FE
								RTP
								5 1/2" x 14" X
								Cent
								Bask
								P.C.
	2300							start FE
	0050							Break Circ
	0115	2.5	7/5					Plug RT + MT 30/15 EA-2 cent
	0125	5	0			200		start 500 gal Mad flush
		5	12/0			200		start 20 bbl KCL flush
		5	20/0			200		start 130 sks EA-2 cent
	0137		32					End Cement
								wash P&L
								Drop L.D. Plug
	0145	6	0			200		start Displacement
	0158	5	3			250		catch Cement
	0204		101			250 / 1400		Land Plug
								Release Pressure
								Float Held

Thank you

Nicky David E. & Isaac



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

12-12s-23w Trego,KS

Newcomer Brothers #1-12

Start Date: 2012.10.13 @ 05:25:00

End Date: 2012.10.13 @ 11:49:30

Job Ticket #: 43597 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 14:14:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43597

DST#: 1

Test Start: 2012.10.13 @ 05:25:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:30

Time Test Ended: 11:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3623.00 ft (KB) To 3656.00 ft (KB) (TVD)

Reference Elevations: 2412.00 ft (KB)

Total Depth: 3656.00 ft (KB) (TVD)

2404.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press @ RunDepth: 14.74 psig @ 3627.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.13

End Date:

2012.10.13

Last Calib.: 2012.10.13

Start Time: 05:25:05

End Time:

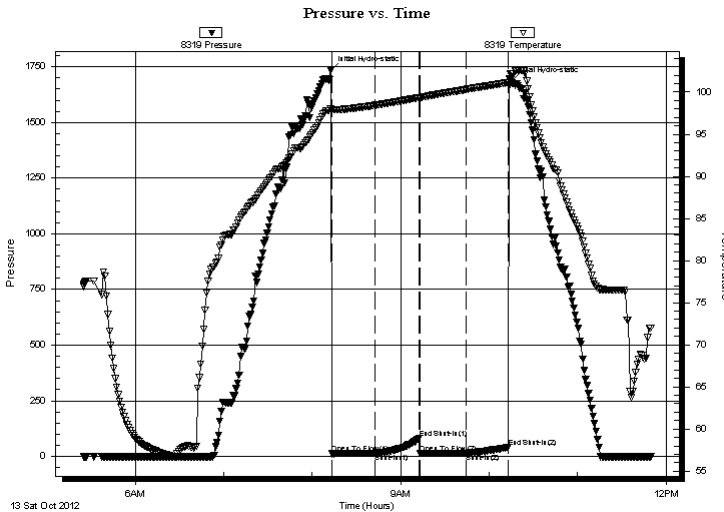
11:49:29

Time On Btm: 2012.10.13 @ 08:12:30

Time Off Btm: 2012.10.13 @ 10:15:00

TEST COMMENT: IF-1/4" blow died back to very weak surface blow
ISI-No blow
FF-Very weak surface blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.62	98.04	Initial Hydro-static
1	12.07	97.80	Open To Flow (1)
30	14.21	98.44	Shut-In(1)
60	81.55	99.36	End Shut-In(1)
61	13.40	99.35	Open To Flow (2)
92	14.74	100.31	Shut-In(2)
121	41.83	101.14	End Shut-In(2)
123	1683.26	102.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oil spotted mud	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.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43597

DST#: 1

Test Start: 2012.10.13 @ 05:25:00

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 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:	55000.00 lb
			<u>Total Volume: 50.41 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3623.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 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
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Change Over Sub	1.00			3604.00	
Shut In Tool	5.00			3609.00	
Hydraulic tool	5.00			3614.00	
Packer	4.00			3618.00	20.00 Bottom Of Top Packer
Packer	5.00			3623.00	
Stubb	1.00			3624.00	
Perforations	3.00			3627.00	
Recorder	0.00	8319	Inside	3627.00	
Recorder	0.00	8166	Outside	3627.00	
Perforations	26.00			3653.00	
Bullnose	3.00			3656.00	33.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

Job Ticket: 43597

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.10.13 @ 05:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Oil spotted mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

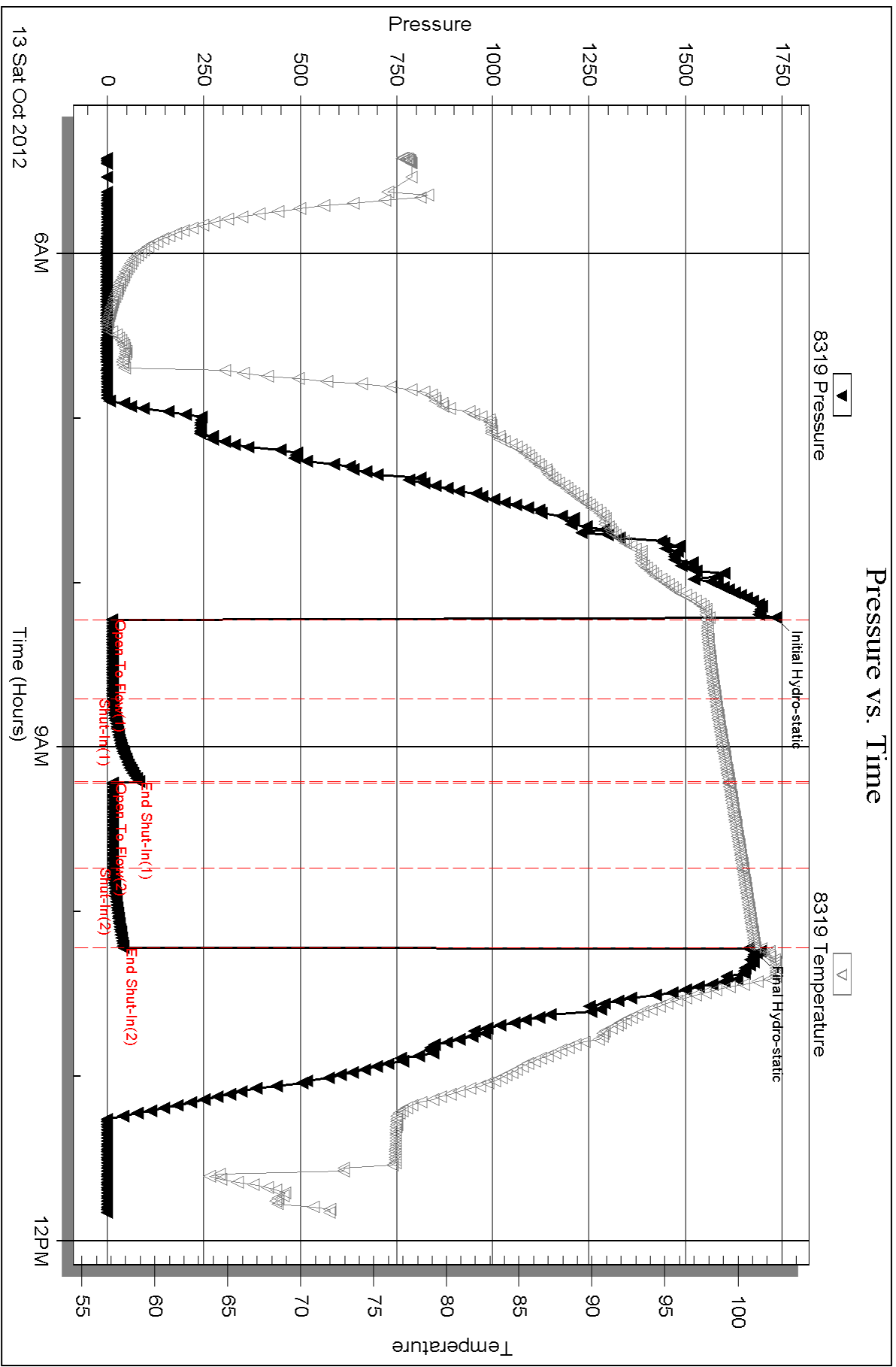
Serial #: 8319

Inside

Dow nting-Nelson Oil Co. Inc.

12-12s-23w Trego,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 43597

Printed: 2012.10.17 @ 14:14:13

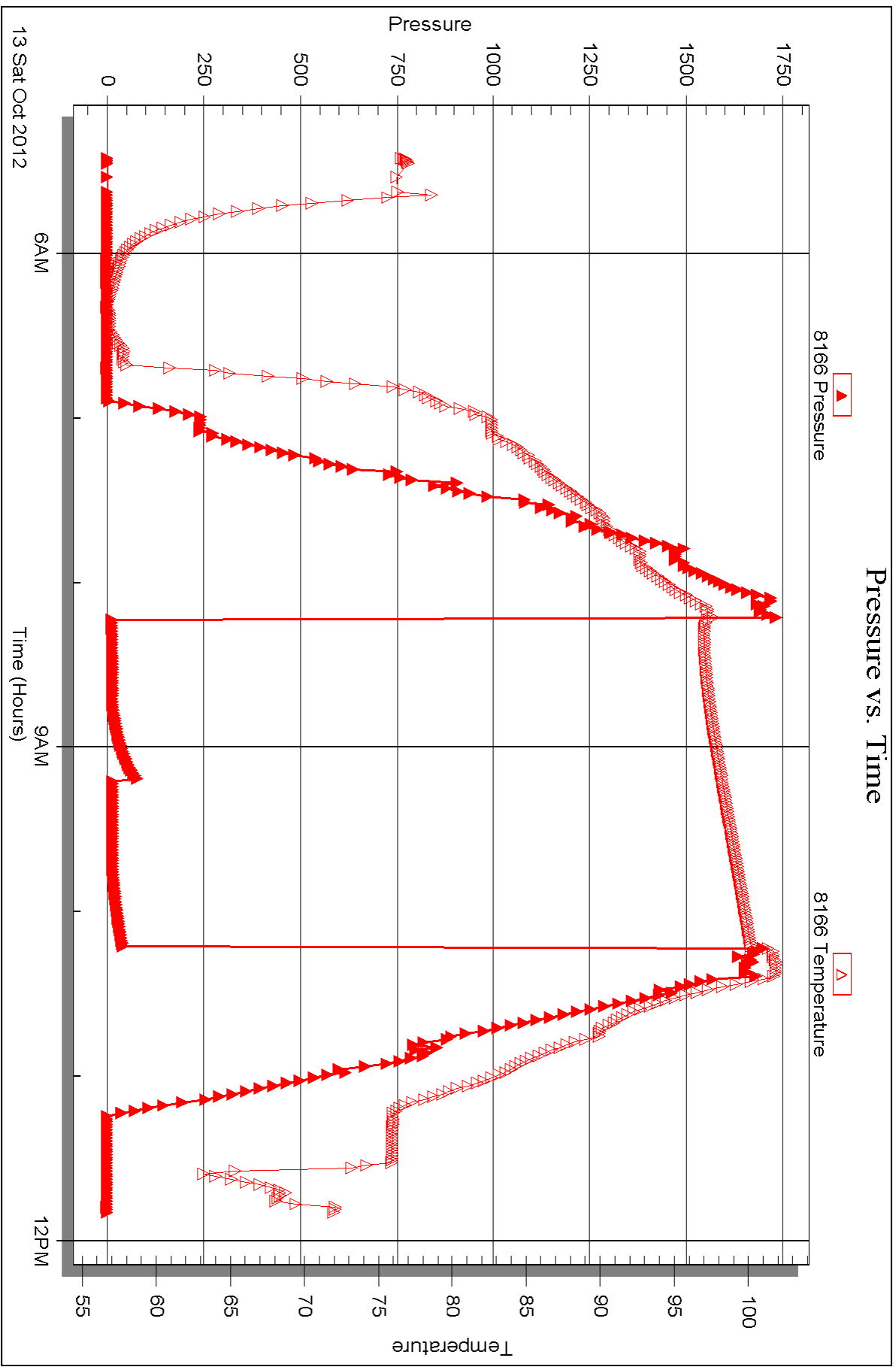
Serial #: 8166

Outside

Dow nting-Nelson Oil Co. Inc.

12-12s-23w Trego,KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

12-12s-23w Trego,KS

Newcomer Brothers #1-12

Start Date: 2012.10.13 @ 22:20:00

End Date: 2012.10.14 @ 06:41:00

Job Ticket #: 43598 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 14:09:40

Downing-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

12-12s-23w Trego,KS

DST # 2

KC-C-E

2012.10.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43598

DST#: 2

Test Start: 2012.10.13 @ 22:20:00

GENERAL INFORMATION:

Formation: **KC C-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:12:00

Time Test Ended: 06:41:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3680.00 ft (KB) To 3740.00 ft (KB) (TVD)

Reference Elevations: 2412.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

2404.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 507.47 psig @ 3684.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.13

End Date:

2012.10.14

Last Calib.: 2012.10.14

Start Time: 22:20:05

End Time:

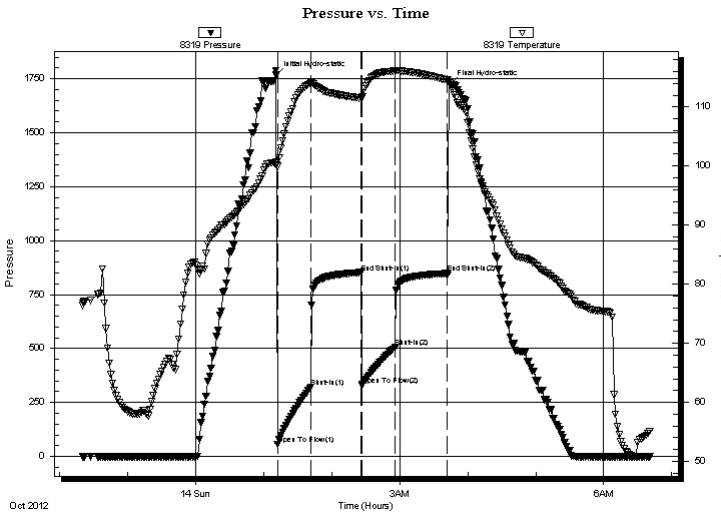
06:40:59

Time On Btm: 2012.10.14 @ 01:11:00

Time Off Btm: 2012.10.14 @ 03:44:30

TEST COMMENT: IF-BOB in 3 min
ISI-Very weak surface blow
FF-BOB in 4 min
FSI-Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.43	100.26	Initial Hydro-static
1	56.46	99.99	Open To Flow (1)
31	322.39	114.04	Shut-In(1)
75	852.40	111.48	End Shut-In(1)
76	329.72	111.41	Open To Flow (2)
105	507.47	116.09	Shut-In(2)
151	847.96	114.58	End Shut-In(2)
154	1722.52	114.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Water	4.78
125.00	Oilspotted SMCW 10%M 90%W	1.75
365.00	GSOMCW 25%G 20%M 5%O 50%W	5.12
263.00	GSOMCW 10%G 5%O 30%M 55%W	3.69
2.00	free oil	0.03
0.00	75ft 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.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43598

DST#: 2

Test Start: 2012.10.13 @ 22:20:00

Tool Information

Drill Pipe:	Length: 3646.00 ft	Diameter: 3.80 inches	Volume: 51.14 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: 51.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3680.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3661.00	
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Packer	4.00			3675.00	20.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	3.00			3684.00	
Recorder	0.00	8319	Inside	3684.00	
Recorder	0.00	8166	Outside	3684.00	
Change Over Sub	1.00			3685.00	
Blank Spacing	32.00			3717.00	
Change Over Sub	1.00			3718.00	
Perforations	19.00			3737.00	
Bullnose	3.00			3740.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

Job Ticket: 43598

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.10.13 @ 22:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity: 125000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
360.00	Water	4.777
125.00	Oilspotted SMCW 10%M 90%W	1.753
365.00	GSOMCW 25%G 20%M 5%O 50%W	5.120
263.00	GSOMCW 10%G 5%O 30%M 55%W	3.689
2.00	free oil	0.028
0.00	75ft GIP	0.000

Total Length: 1115.00 ft Total Volume: 15.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

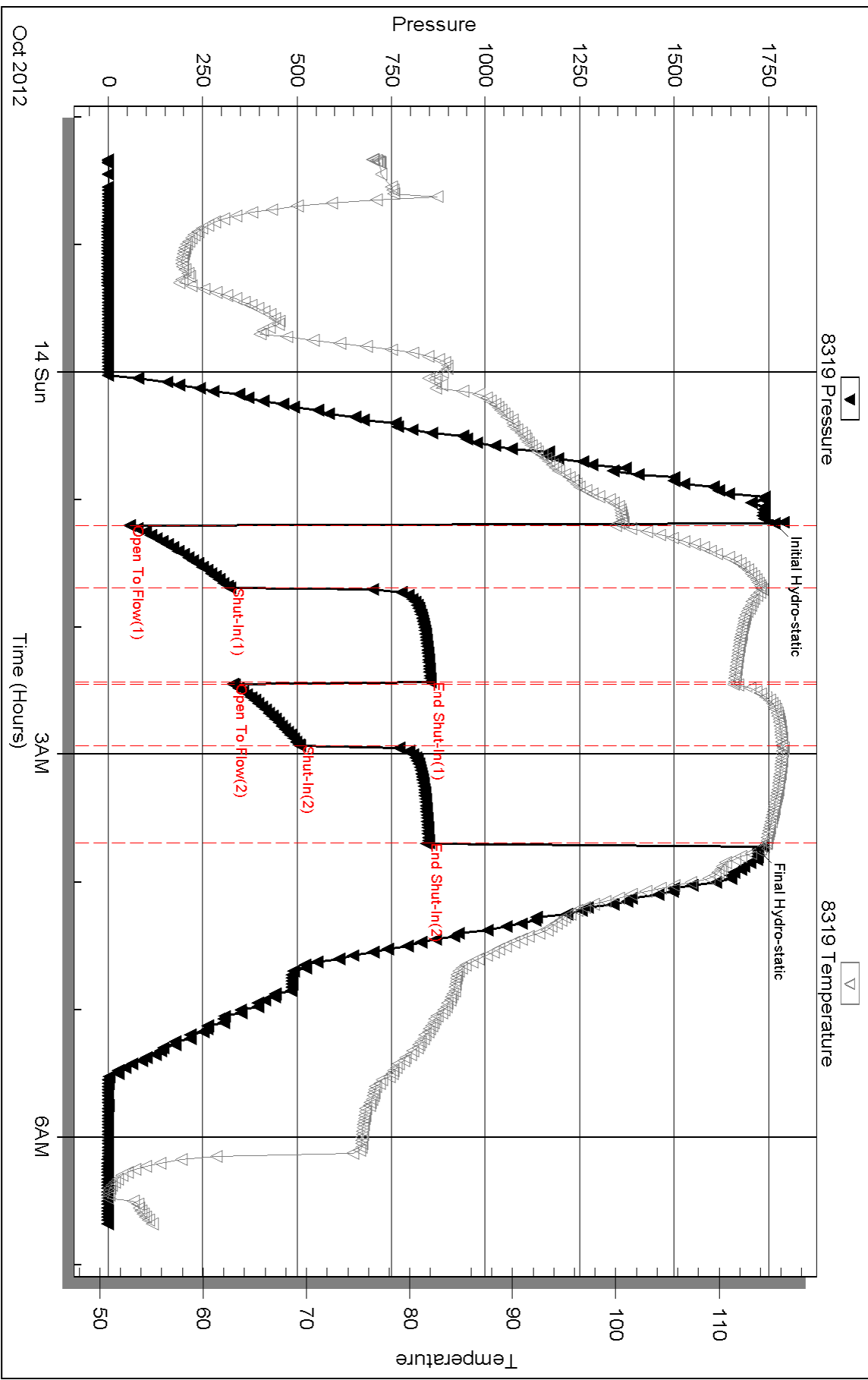
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

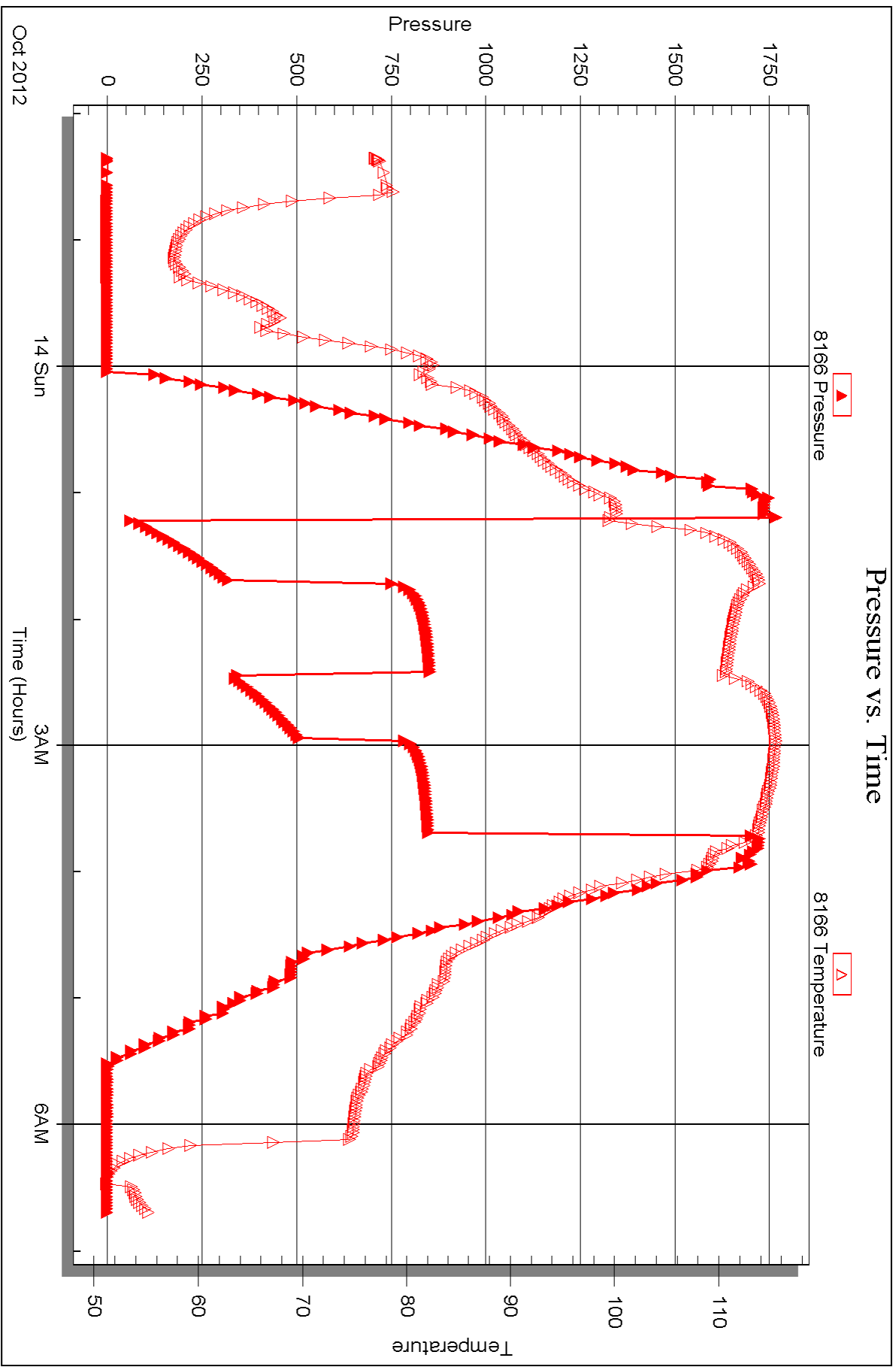


Serial #: 8166

Outside Dow nting-Nelson Oil Co. Inc.

12-12s-23w Trego KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

12-12s-23w Trego,KS

Newcomer Brothers #1-12

Start Date: 2012.10.15 @ 06:20:00

End Date: 2012.10.15 @ 14:39:00

Job Ticket #: 43599 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 14:06:29

Downing-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

12-12s-23w Trego,KS

DST # 3

Marmaton

2012.10.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43599

DST#: 3

Test Start: 2012.10.15 @ 06:20:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:30

Time Test Ended: 14:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4007.00 ft (KB) To 4045.00 ft (KB) (TVD)

Reference Elevations: 2412.00 ft (KB)

Total Depth: 4035.00 ft (KB) (TVD)

2404.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 111.22 psig @ 4011.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.15

End Date:

2012.10.15

Last Calib.: 2012.10.15

Start Time: 06:20:05

End Time:

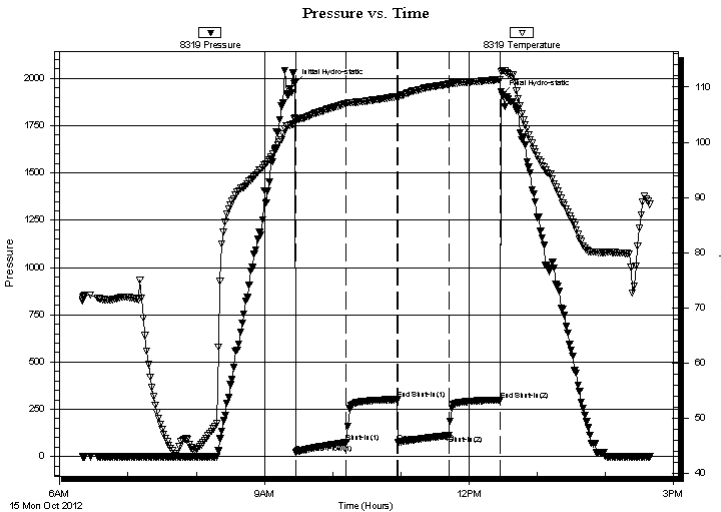
14:38:59

Time On Btm: 2012.10.15 @ 09:26:30

Time Off Btm: 2012.10.15 @ 12:29:30

TEST COMMENT: IF-BOB in 32 min
ISI-Very weak surface blow
FF-10" blow
FSI-Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.38	104.19	Initial Hydro-static
1	19.16	104.13	Open To Flow (1)
46	73.96	107.05	Shut-In(1)
90	301.73	108.29	End Shut-In(1)
91	75.84	108.26	Open To Flow (2)
136	111.22	110.57	Shut-In(2)
181	299.31	111.38	End Shut-In(2)
183	1914.38	113.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	Oil scum SMCW 90%w 10%m	2.11
40.00	SGO 5%G 95%O	0.56
0.00	150ft 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.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43599

DST#: 3

Test Start: 2012.10.15 @ 06:20:00

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 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: 55.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4007.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3988.00	
Shut In Tool	5.00			3993.00	
Hydraulic tool	5.00			3998.00	
Packer	4.00			4002.00	20.00 Bottom Of Top Packer
Packer	5.00			4007.00	
Stubb	1.00			4008.00	
Perforations	3.00			4011.00	
Recorder	0.00	8319	Inside	4011.00	
Recorder	0.00	8166	Outside	4011.00	
Perforations	21.00			4032.00	
Bullnose	3.00			4035.00	28.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

Job Ticket: 43599

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.10.15 @ 06:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	Oil scum SMCW 90%w 10%m	2.111
40.00	SGO 5%G 95%O	0.561
0.00	150ft gip	0.000

Total Length: 210.00 ft

Total Volume: 2.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

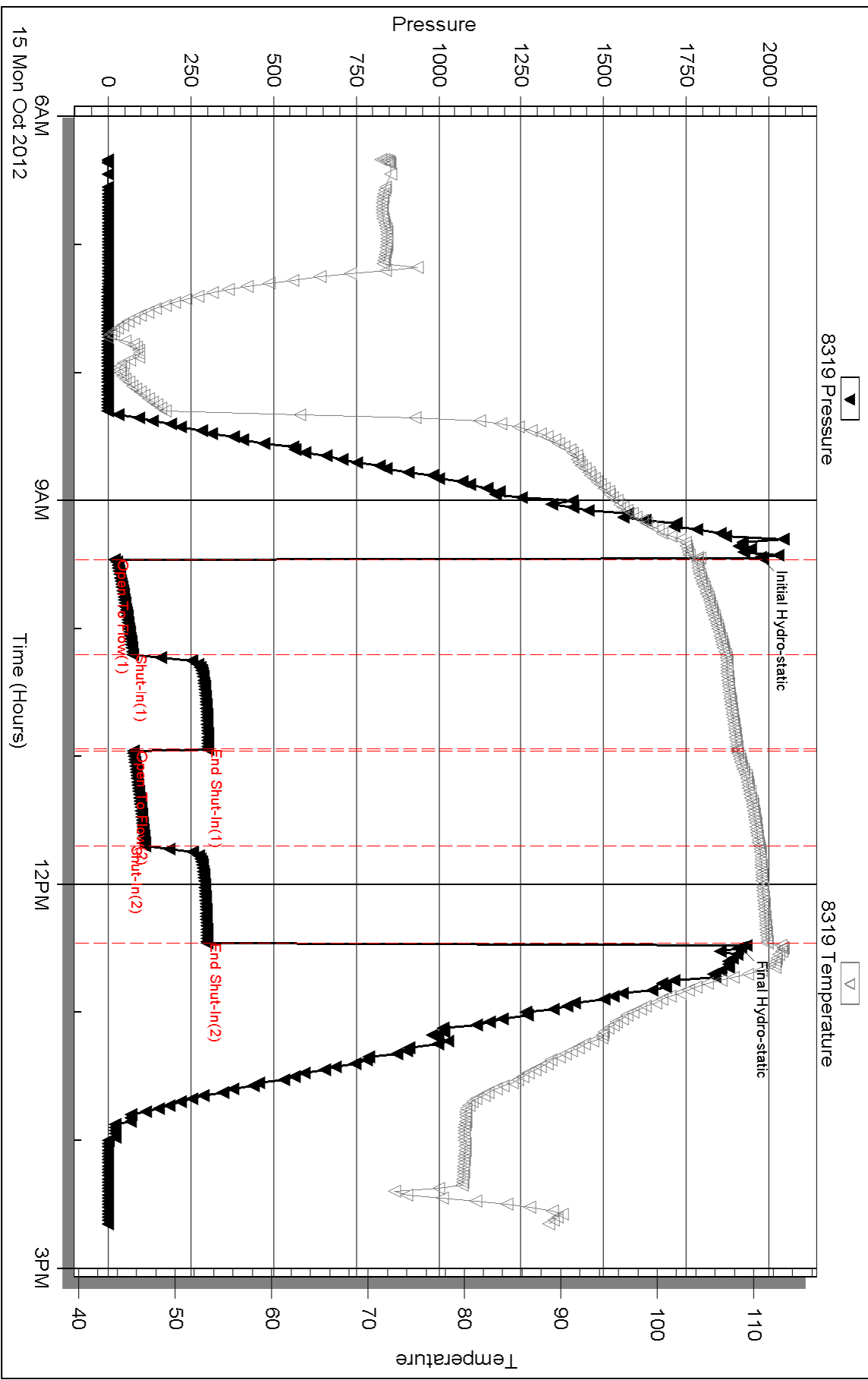
Inside

Dow nting-Nelson Oil Co. Inc.

12-12s-23w Trego KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 43599

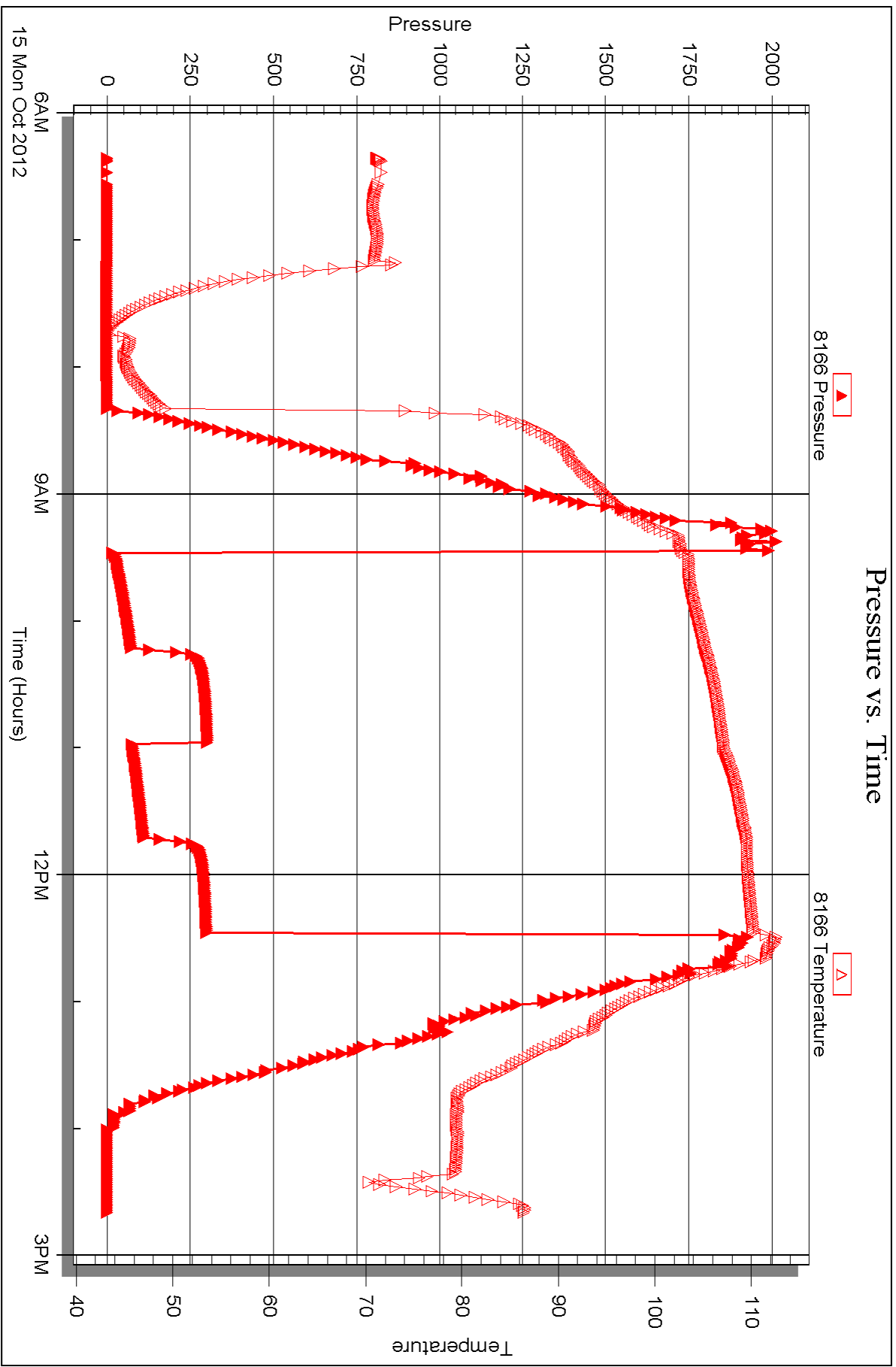
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Serial #: 8166

Outside Dow nting-Nelson Oil Co. Inc.

12-12s-23w Trego,KS

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

12-12s-23w Trego,KS

Newcomer Brothers #1-12

Start Date: 2012.10.16 @ 05:55:00

End Date: 2012.10.16 @ 14:01:00

Job Ticket #: 43600 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 13:45:21

Downing-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

12-12s-23w Trego,KS

DST # 4

KC E

2012.10.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43600

DST#: 4

Test Start: 2012.10.16 @ 05:55:00

GENERAL INFORMATION:

Formation: **KC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:38:00

Time Test Ended: 14:01:00

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3719.00 ft (KB) To 3736.00 ft (KB) (TVD)

Reference Elevations: 2412.00 ft (KB)

Total Depth: 3736.00 ft (KB) (TVD)

2404.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 134.63 psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.16

End Date: 2012.10.16

Last Calib.: 2012.10.16

Start Time: 05:55:05

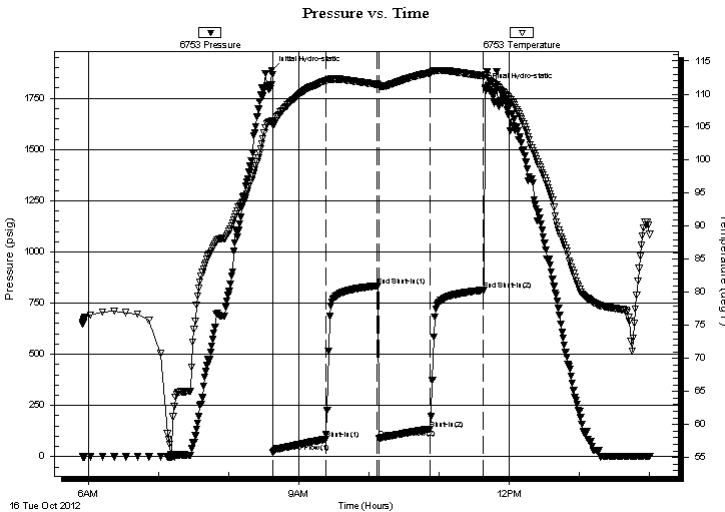
End Time: 14:00:59

Time On Btm: 2012.10.16 @ 08:37:00

Time Off Btm: 2012.10.16 @ 11:40:00

TEST COMMENT: IF-BOB in 21min
IS-1/2" blow
FF-BOB in 22 min
FS-1" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.01	105.91	Initial Hydro-static
1	20.93	105.37	Open To Flow (1)
46	85.57	112.05	Shut-In(1)
90	834.38	111.48	End Shut-In(1)
92	89.30	111.20	Open To Flow (2)
136	134.63	113.23	Shut-In(2)
181	813.53	112.74	End Shut-In(2)
183	1801.47	112.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	SMCW 5%M 95%W	2.32
30.00	SWCM 10%W 90%M	0.42
45.00	GO 10%G 90%O	0.63

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.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

ATTN: Ron Nelson

Job Ticket: 43600

DST#: 4

Test Start: 2012.10.16 @ 05:55:00

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 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: 95000.00 lb
			<u>Total Volume: 51.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3719.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	3736.00 ft			
Interval between Packers:	17.00 ft			
Tool Length:	476.00 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			3700.00	
Shut In Tool	5.00			3705.00	
Hydraulic tool	5.00			3710.00	
Packer	4.00			3714.00	20.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Perforations	12.00			3732.00	
Recorder	0.00	8166	Inside	3732.00	
Recorder	0.00	6753	Outside	3732.00	
Blank Off Sub	4.00			3736.00	17.00 Tool Interval
Packer	4.00			3740.00	
Stubb	1.00			3741.00	
Recorder	0.00	8319	Below	3741.00	
perforations	17.00			3758.00	
Change Over Sub	1.00			3759.00	
Blank Spacing	412.00			4171.00	
Change Over Sub	1.00			4172.00	
Bullnose	3.00			4175.00	439.00 Bottom Packers & Anchor

Total Tool Length: 476.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Newcomer Brothers #1-12

PO Box 1019
Hays KS 67601

12-12s-23w Trego,KS

Job Ticket: 43600

DST#: 4

ATTN: Ron Nelson

Test Start: 2012.10.16 @ 05:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity: 100000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	SMCW 5%M 95%W	2.322
30.00	SWCM 10%W 90%M	0.421
45.00	GO 10%G 90%O	0.631

Total Length: 260.00 ft Total Volume: 3.374 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

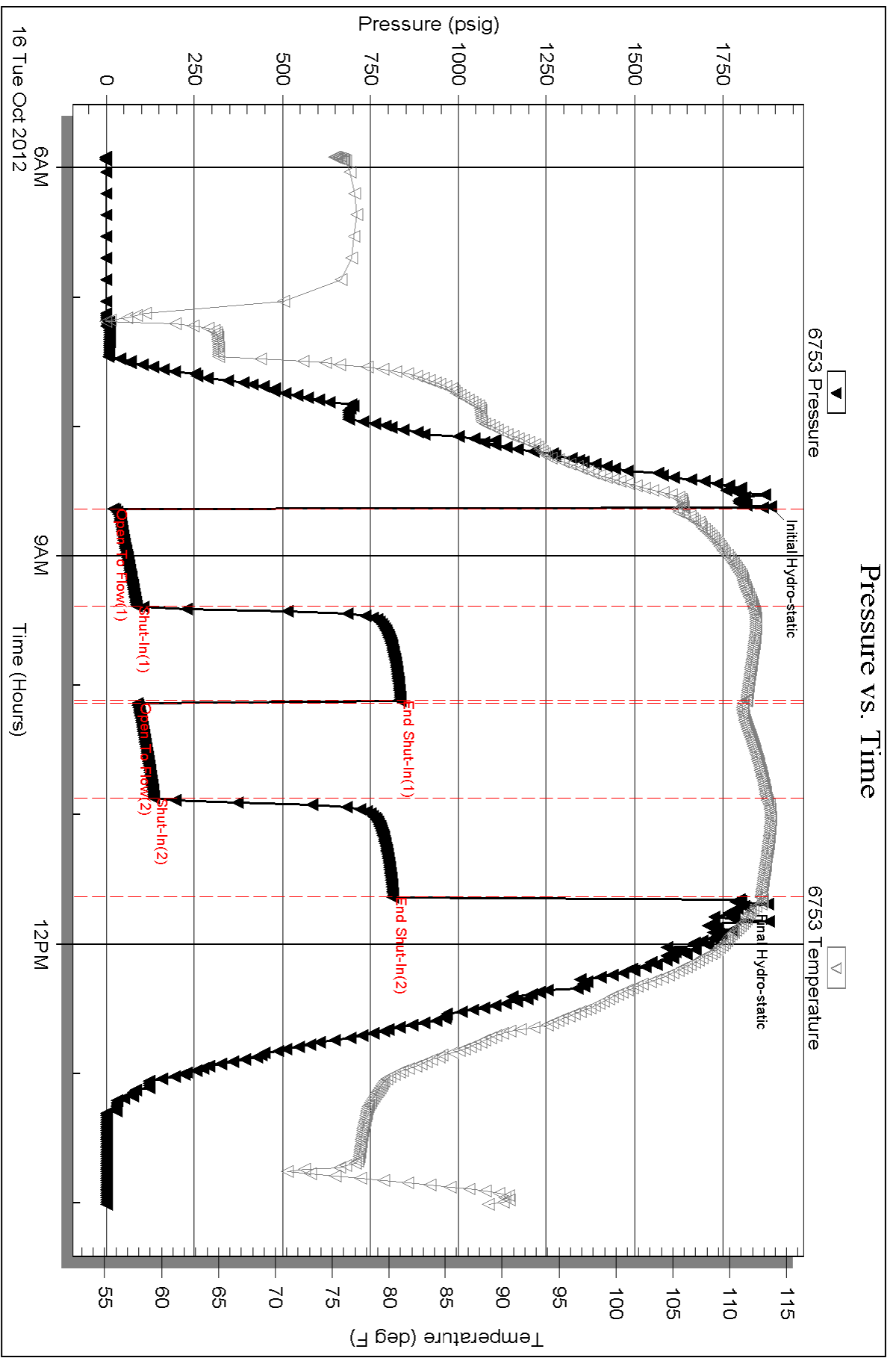
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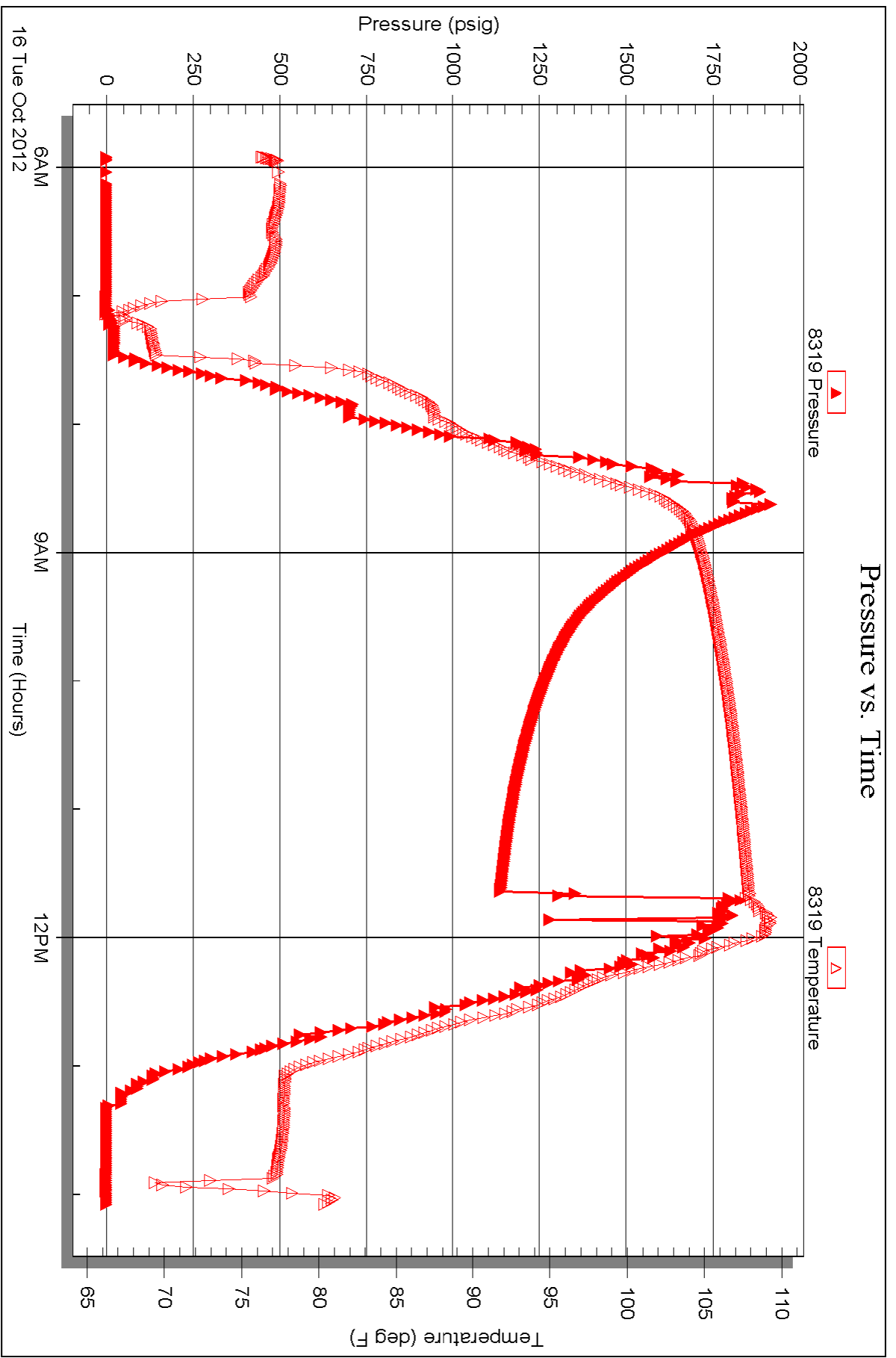
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Outside Dow nung-Nelson Oil Co. Inc.

12-12s-23w Trego KS

DST Test Number: 4





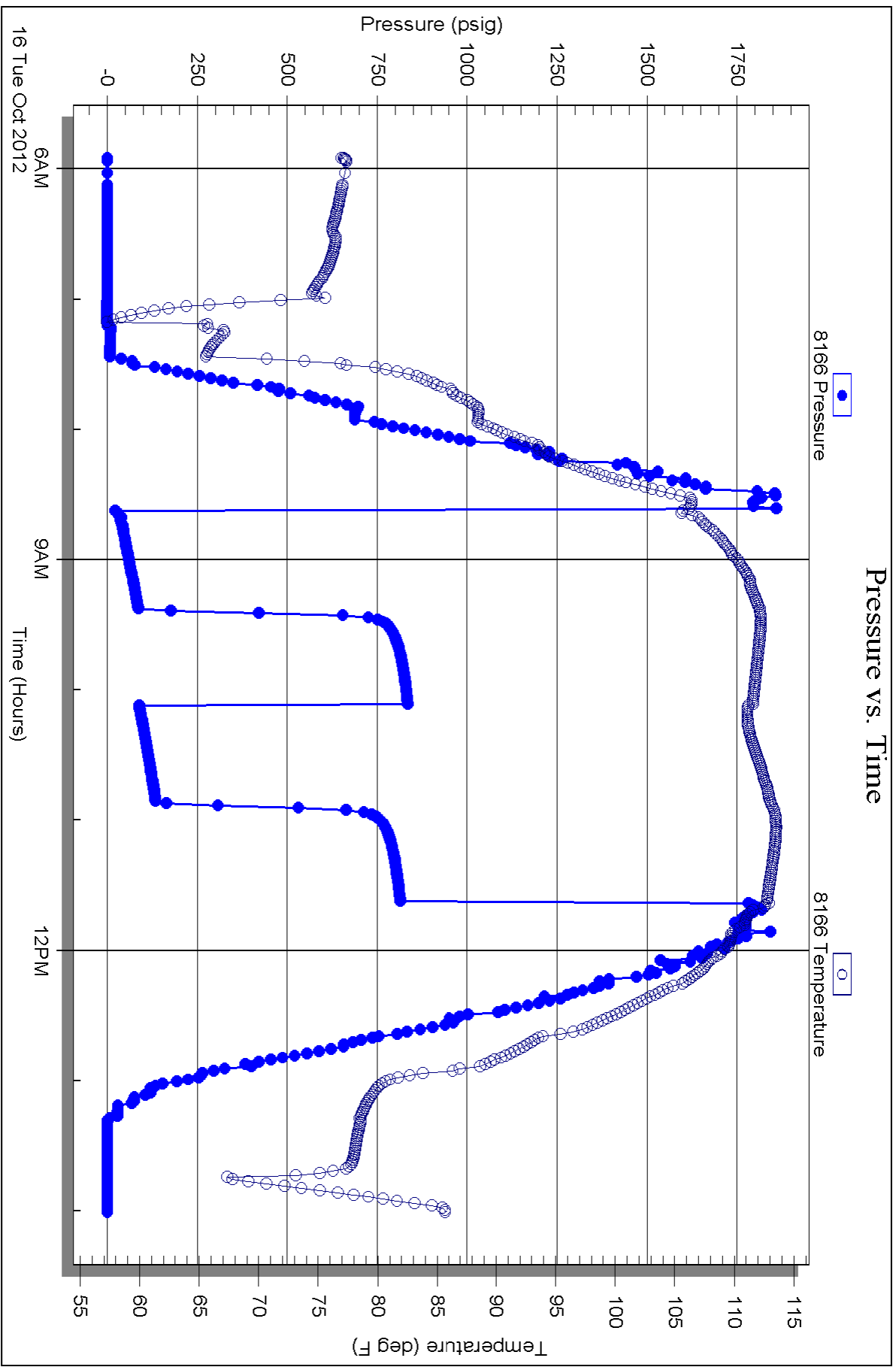
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Inside

Dow n/g-Nelson Oil Co. Inc.

12-12s-23w Trego KS

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 43600

Printed: 2012.10.17 @ 13:45:27



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43597

4/10

Well Name & No. Newcomer Brothers 1-12 Test No. 1 Date 10/13/12
 Company Downing-Nelson Oil Co Inc. Elevation 2412 KB 2407 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 12 Twp. 12 Rge. 23 Co. Trego State KS

Interval Tested 3623 - 3656 Zone Tested Toronto
 Anchor Length 33 Drill Pipe Run 3583 Mud Wt. 8.5
 Top Packer Depth 3618 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 3623 Wt. Pipe Run _____ WL 8.0
 Total Depth 3656 Chlorides 400 ppm System LCM _____
 Blow Description IF - 1/4 in blow died back To very weak surface blow
ISI - No blow
FF - very weak surface blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>0.1 spotted mud</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 1 BHT 101 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,734</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>4:45</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars _____	T-Started <u>5:25</u>
(C) First Final Flow <u>14</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>8:08</u>
(D) Initial Shut-In <u>82</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:08</u>
(E) Second Initial Flow <u>13</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>11:48</u>
(F) Second Final Flow <u>15</u>	<input checked="" type="checkbox"/> Mileage <u>71rt</u> 110.05	Comments _____
(G) Final Shut-In <u>42</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,683</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1260.05</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1260.05</u>	

Approved By _____ Our Representative Bert Davis

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. 43598

4/10

Well Name & No. Newcomer Brothers 1-12 Test No. 2 Date 10/13/12
 Company Downing - Nelson Oil Co Inc. Elevation 2412 KB 2404 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 12 Twp. 12 Rge. 23 Co. Trego State KS

Interval Tested 3680 - 3740 Zone Tested KC "C,D,E"
 Anchor Length 60 Drill Pipe Run _____ Mud Wt. 8.5
 Top Packer Depth 3675 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 3680 Wt. Pipe Run — WL 8.0
 Total Depth 3740 Chlorides 400 ppm System LCM _____
 Blow Description IF - BOB in 3min
ISI - Very weak surface blow
FF - BOB in 4min
FSI - Very weak surface blow 2 ft Free Oil

Rec	Feet of	%gas	%oil	%water	%mud
<u>265</u>	<u>GSOMCW</u>	<u>10</u>	<u>5</u>	<u>55</u>	<u>30</u>
<u>365</u>	<u>GSOMCW</u>	<u>25</u>	<u>5</u>	<u>50</u>	<u>20</u>
<u>125</u>	<u>oil spotted smcw</u>	_____	_____	<u>90</u>	<u>10</u>
<u>360</u>	<u>water</u>	_____	_____	_____	_____
Rec	Feet of <u>25 FT GIP</u>	%gas	%oil	%water	%mud

Rec Total 1115 BHT 115 Gravity _____ API RW .08 @ 60 ° F Chlorides 125,000 ppm

(A) Initial Hydrostatic 1766 Test 1150 T-On Location 21:40
 (B) First Initial Flow 56 Jars T-Started 22:20
 (C) First Final Flow 322 Safety Joint T-Open 1:10
 (D) Initial Shut-In 852 Circ Sub T-Pulled 3:40
 (E) Second Initial Flow 330 Hourly Standby T-Out 6:40
 (F) Second Final Flow 507 Mileage 71.1 110.05 Comments _____
 (G) Final Shut-In 848 Sampler _____
 (H) Final Hydrostatic 1,223 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Sub Total 1260.05
 Total 1260.05
 MP/DST Disc't _____

Approved By _____ Our Representative Brian J. [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43599

4/10

Well Name & No. Newcomer - Brothers 1-12 Test No. 3 Date 10/15/12
 Company Downing - Nelson Oil Co Inc. Elevation 2412 KB 2404 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 12 Twp. 12 Rge. 23 Co. Trego State KS

Interval Tested 4007 - 4035 Zone Tested Marm.
 Anchor Length 28 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 4002 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 4007 Wt. Pipe Run — WL _____
 Total Depth 4035 Chlorides _____ ppm System LCM _____
 Blow Description IF - BOB in 32 min
ISF - Very weak surface blow
FF - 10 in blow
FSL - very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>560</u>	<u>5</u>	<u>95</u>		
<u>170</u>	<u>oil scam SMCW</u>			<u>90</u>	<u>10</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 210 BHT 111 Gravity 35 API RW .11 @ 70 ° F Chlorides 70,000 ppm

(A) Initial Hydrostatic 1,974 Test 1250 T-On Location 4:20
 (B) First Initial Flow 69 Jars _____ T-Started ~~5:20~~ 6:20
 (C) First Final Flow 74 Safety Joint _____ T-Open 9:45
 (D) Initial Shut-In 302 Circ Sub _____ T-Pulled 12:45
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 15:00
 (F) Second Final Flow 111 Mileage 71 RT 110.05 Comments _____
 (G) Final Shut-In 299 Sampler _____
 (H) Final Hydrostatic 1,914 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1360.05
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1360.05

Approved By _____ Our Representative Burt Davis

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43600

4/10

Well Name & No. Newcomer - Brothers #1-12 Test No. 4 Date 10/16/12
 Company Downing - Nelson Oil Co Inc. Elevation 2412 KB 2404 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 12 Twp. 12 Rge. 23 Co. Trego State KS

Interval Tested 3719-3736 Zone Tested KC
 Anchor Length 17 Drill Pipe Run 3675 Mud Wt. _____
 Top Packer Depth 3714, 3719 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 3736 Wt. Pipe Run — WL _____
 Total Depth 4171 Chlorides _____ ppm System LCM _____

Blow Description IF - BOB in 21min
ISI - 1/2 in blow
FF - BOB in 22min
FST - 1 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>185</u>	<u>SMCW</u>		<u>95</u>	<u>5</u>	
<u>30</u>	<u>SWCM</u>		<u>10</u>	<u>90</u>	
<u>45</u>	<u>60</u>	<u>10</u>	<u>90</u>		
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

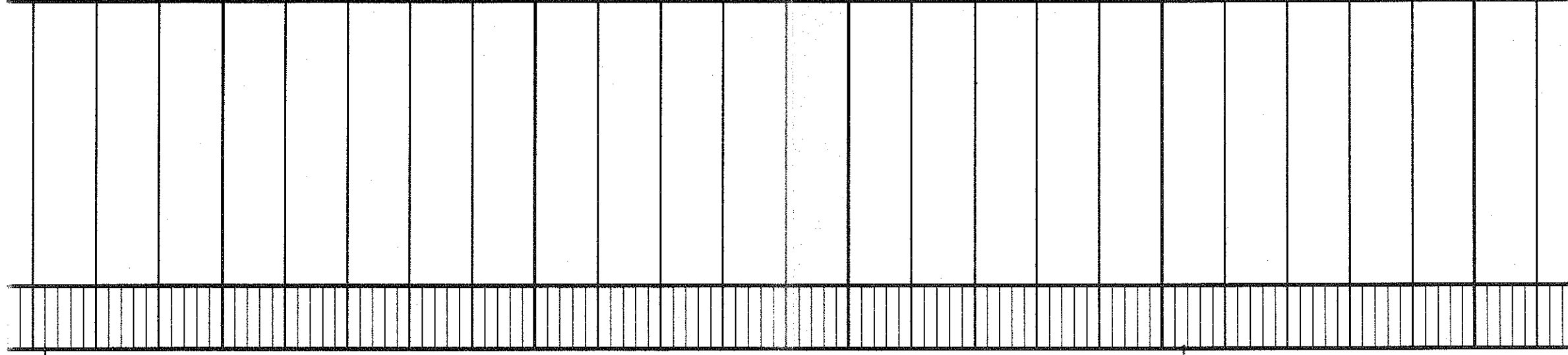
Rec Total 260 BHT _____ Gravity 38 API RW .08 @ 70 °F Chlorides 100,000 ppm

(A) Initial Hydrostatic 1,886 Test 1250 T-On Location 5:20
 (B) First Initial Flow 21 Jars _____ T-Started 5:55
 (C) First Final Flow 86 Safety Joint _____ T-Open 8:35
 (D) Initial Shut-In 834 Circ Sub _____ T-Pulled 11:35
 (E) Second Initial Flow 89 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 135 Mileage 71rt 110.05 Comments _____
 (G) Final Shut-In 814 Sampler _____
 (H) Final Hydrostatic 1,801 Straddle 600 Ruined Shale Packer _____

Initial Open 45 Ruined Packer 320
 Initial Shut-In 45 Extra Copies _____
 Final Flow 45 Extra Packer _____ Sub Total 320
 Final Shut-In 45 Extra Recorder _____ Total 2280.05
 Day Standby _____ MP/DST Disc't _____
 Accessibility _____
 Sub Total 1960.05

Approved By _____ Our Representative Brian Dain

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.



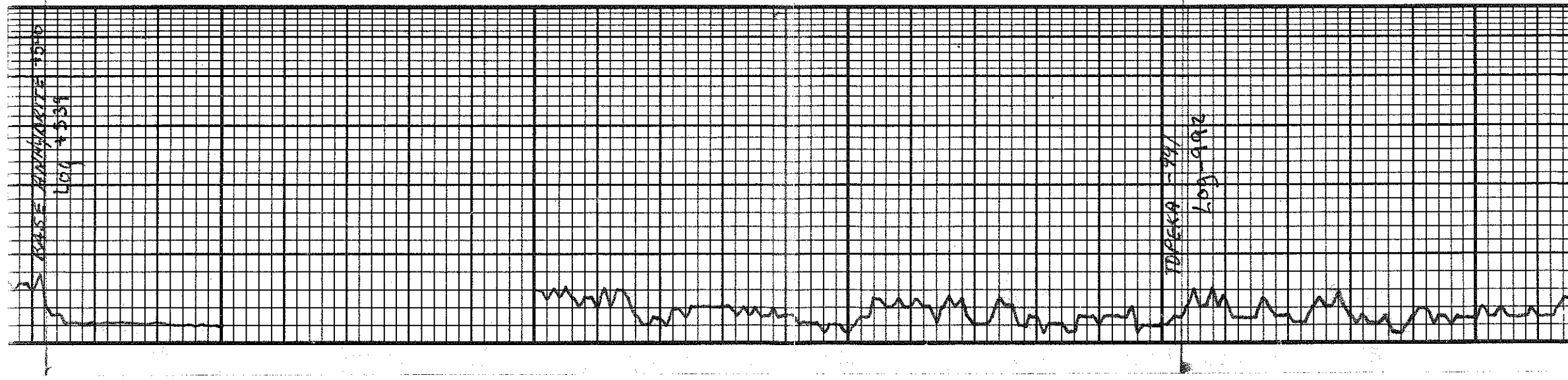
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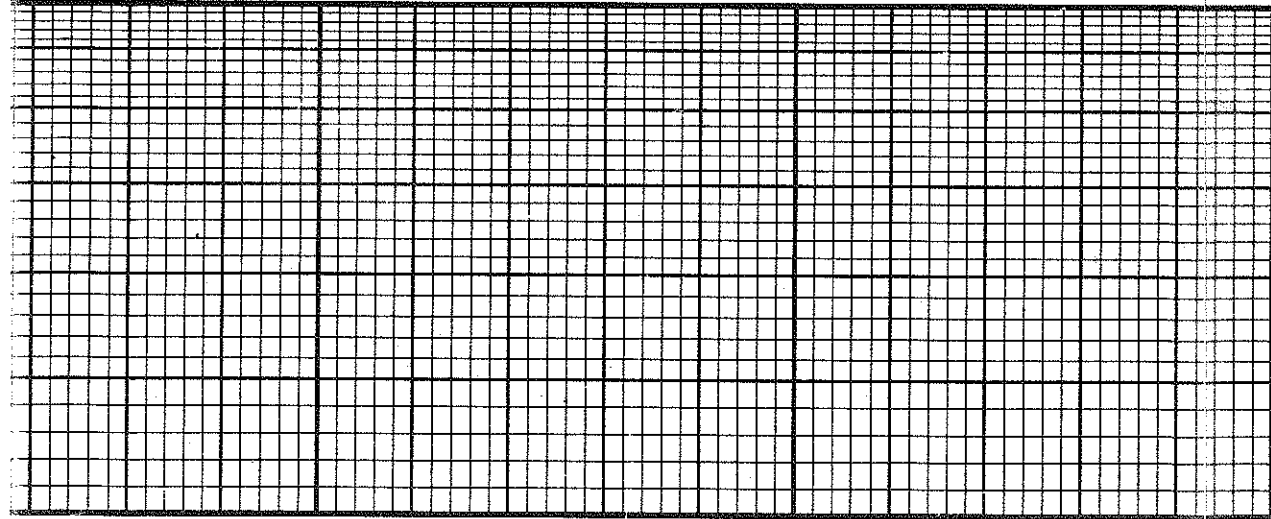
3400

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BASE MANHOLE TO
LOT 1334

TOP OF
LOT 1332



5" 10" 15" 20" 25"
 DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

OPERATOR DNOCI

LEASE NEWCOMER BROTHERS #1-12 IP MARION-KC

ELEVATION 2412 KB RTD 4170'

LOCATION 4170' EARL # 2450' FEE

SEC 12 TWP 12S RNG 23W

COUNTY TRIGO STATE KANSAS