

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	MARY PEARSON 2-25
Doc ID	1415685

Tops

Name	Top	Datum
Top Anhydrite	1676'	+587
Base Anhydrite	1724'	+539
Topeka	3346'	-1083
Heebner	3576'	-1313
Toronto	3594'	-1331
LKC	3610'	-1347
BKC	3856'	-1593
Marmaton	3958'	-1695
Cherokee Shale	4001'	-1738
Cherokee Sand	4033'	-1770
Arbuckle	4094'	-1831



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Mary Pearson #2-25

25-13S-22W Trego,KS

Start Date: 2018.07.04 @ 14:06:00

End Date: 2018.07.04 @ 19:55:45

Job Ticket #: 63914 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 11:08:06

Downing Nelson Oil Co
25-13S-22W Trego,KS
Mary Pearson #2-25
DST # 1
LKC 'C - D'
2018.07.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

ATTN: Marc Dow ning

Job Ticket: 63914

DST#: 1

Test Start: 2018.07.04 @ 14:06:00

GENERAL INFORMATION:

Formation: **LKC 'C - D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:30

Time Test Ended: 19:55:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3632.00 ft (KB) To 3676.00 ft (KB) (TVD)

Reference Elevations: 2263.00 ft (KB)

Total Depth: 3676.00 ft (KB) (TVD)

2255.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 17.31 psig @ 3640.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.04

End Date:

2018.07.04

Last Calib.: 2018.07.04

Start Time: 14:06:15

End Time:

19:55:45

Time On Btm: 2018.07.04 @ 16:27:15

Time Off Btm: 2018.07.04 @ 18:29:00

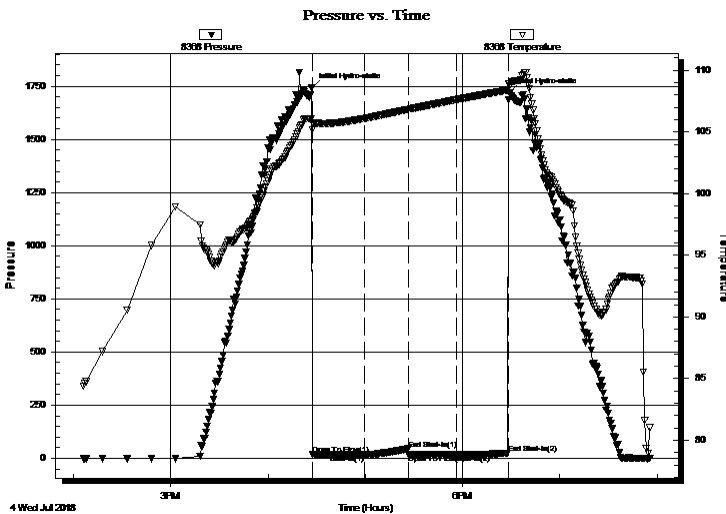
TEST COMMENT: 30-IF-Weak Blow ; Built to 1/4"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.43	106.10	Initial Hydro-static
1	18.68	105.19	Open To Flow (1)
32	16.60	106.08	Shut-In(1)
60	43.90	106.83	End Shut-In(1)
60	18.09	106.83	Open To Flow (2)
89	17.31	107.61	Shut-In(2)
121	23.85	108.39	End Shut-In(2)
122	1721.52	108.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 100%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63914

DST#: 1

ATTN: Marc Downing

Test Start: 2018.07.04 @ 14:06:00

Tool Information

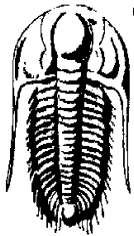
Drill Pipe:	Length: 3613.00 ft	Diameter: 3.82 inches	Volume: 51.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3632.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3613.00	
Shut In Tool	5.00			3618.00	
Hydraulic tool	5.00			3623.00	
Packer	5.00			3628.00	20.00 Bottom Of Top Packer
Packer	4.00			3632.00	
Stubb	1.00			3633.00	
Perforations	6.00			3639.00	
Change Over Sub	1.00			3640.00	
Recorder	0.00	8368	Inside	3640.00	
Recorder	0.00	9120	Inside	3640.00	
Drill Pipe	32.00			3672.00	
Change Over Sub	1.00			3673.00	
Bullnose	3.00			3676.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63914

DST#: 1

ATTN: Marc Downing

Test Start: 2018.07.04 @ 14:06:00

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: 6.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OSM 100%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2#LCM

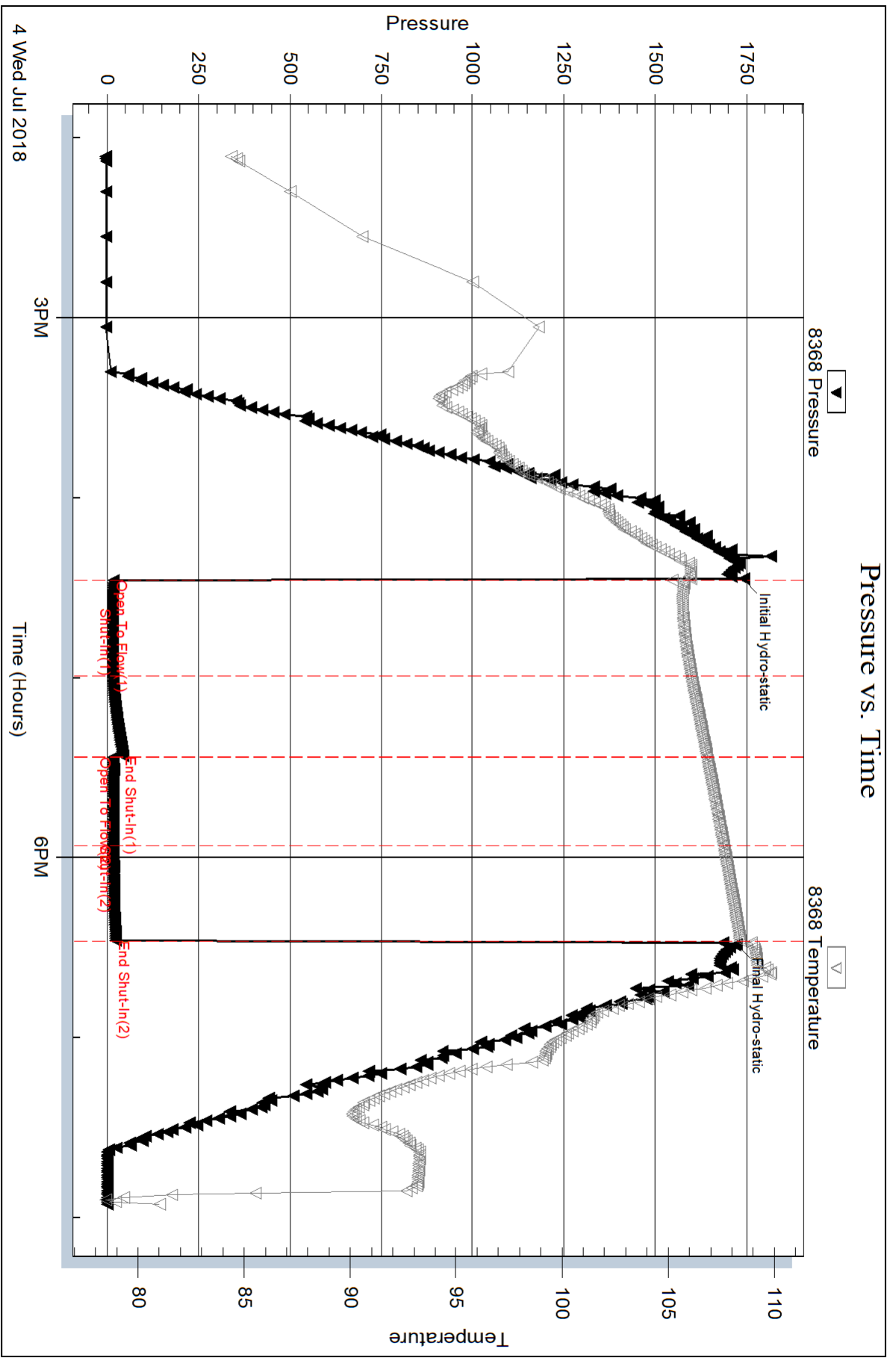
Serial #: 8368

Inside

Downing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63914

Printed: 2018.07.11 @ 11:08:07

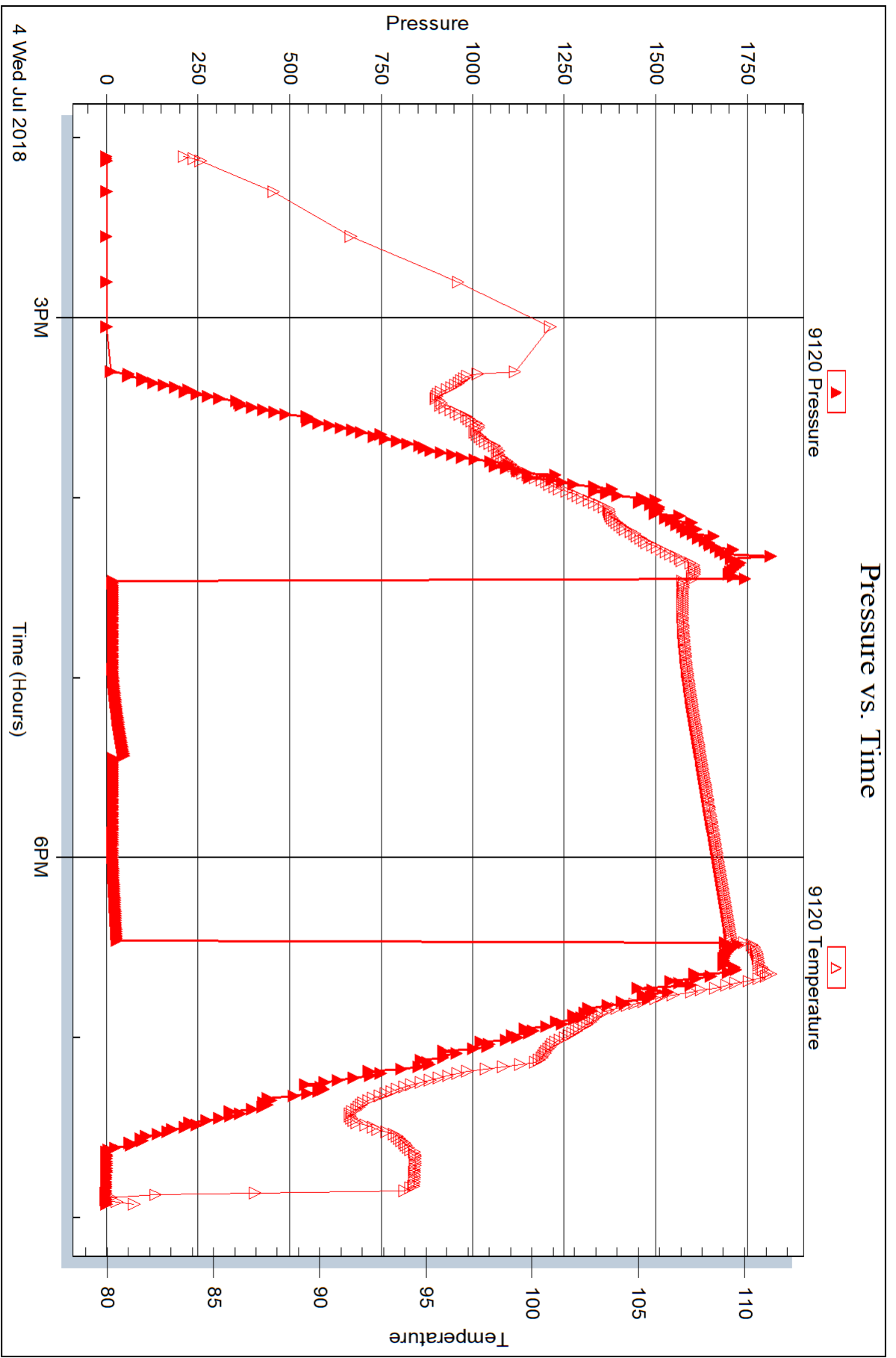
Serial #: 9120

Inside

Downing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63914

Printed: 2018.07.11 @ 11:08:07



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Mary Pearson #2-25

25-13S-22W Trego,KS

Start Date: 2018.07.05 @ 09:58:00

End Date: 2018.07.05 @ 15:34:15

Job Ticket #: 63915 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 11:07:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13S-22W Trego, KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

ATTN: Marc Downing

Job Ticket: 63915

DST#: 2

Test Start: 2018.07.05 @ 09:58:00

GENERAL INFORMATION:

Formation: **LKC 'H - J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:04:30

Time Test Ended: 15:34:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3736.00 ft (KB) To 3813.00 ft (KB) (TVD)

Reference Elevations: 2263.00 ft (KB)

Total Depth: 3676.00 ft (KB) (TVD)

2255.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 15.57 psig @ 3739.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.05

End Date:

2018.07.05

Last Calib.:

2018.07.05

Start Time: 09:58:15

End Time:

15:34:15

Time On Btm:

2018.07.05 @ 12:04:15

Time Off Btm:

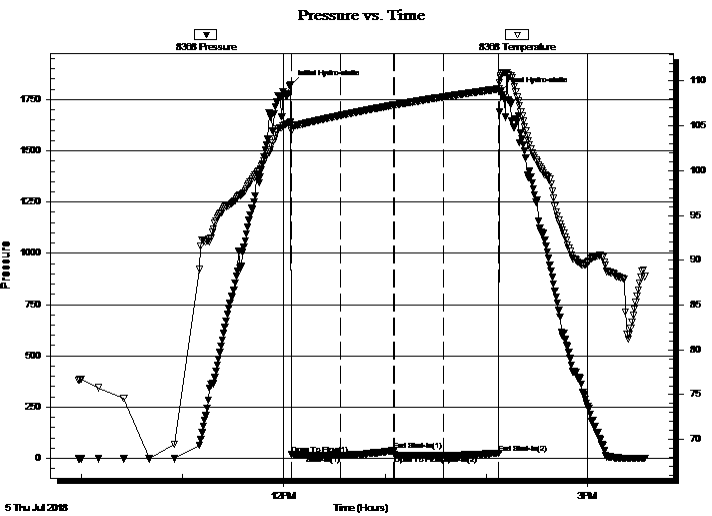
2018.07.05 @ 14:08:15

TEST COMMENT: 30-IF-Weak Blow ; Built to 1/4"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.94	105.42	Initial Hydro-static
1	19.19	104.39	Open To Flow (1)
29	14.15	106.15	Shut-In(1)
61	37.54	107.31	End Shut-In(1)
62	16.83	107.31	Open To Flow (2)
91	15.57	108.22	Shut-In(2)
124	25.83	109.11	End Shut-In(2)
124	1790.90	110.35	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2.00	OSM 100%M	0.01

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63915

DST#: 2

ATTN: Marc Downing

Test Start: 2018.07.05 @ 09:58:00

Tool Information

Drill Pipe:	Length: 3708.00 ft	Diameter: 3.82 inches	Volume: 52.56 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	55000.00 lb
Drill Pipe Above KB:	23.00 ft			Final	50000.00 lb
Depth to Top Packer:	3736.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	97.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3717.00	
Shut In Tool	5.00			3722.00	
Hydraulic tool	5.00			3727.00	
Packer	5.00			3732.00	20.00 Bottom Of Top Packer
Packer	4.00			3736.00	
Stubb	1.00			3737.00	
Perforations	1.00			3738.00	
Change Over Sub	1.00			3739.00	
Recorder	0.00	8368	Inside	3739.00	
Recorder	0.00	9120	Inside	3739.00	
Drill Pipe	63.00			3802.00	
Change Over Sub	1.00			3803.00	
Perforations	7.00			3810.00	
Bullnose	3.00			3813.00	77.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63915

DST#: 2

ATTN: Marc Downing

Test Start: 2018.07.05 @ 09:58:00

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OSM 100%M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2"LCM

Serial #: 8368

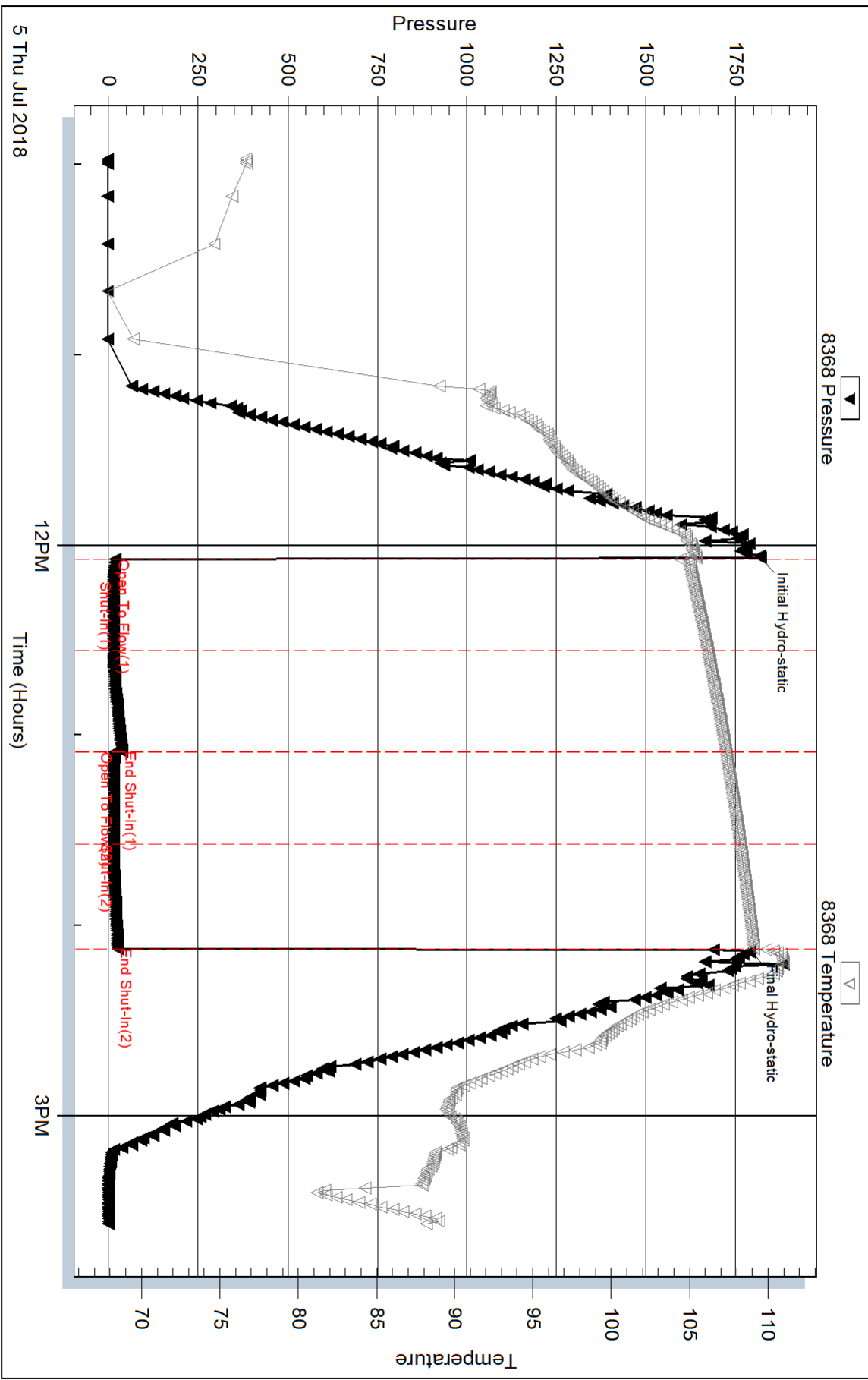
Inside

Downing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 2

Pressure vs. Time



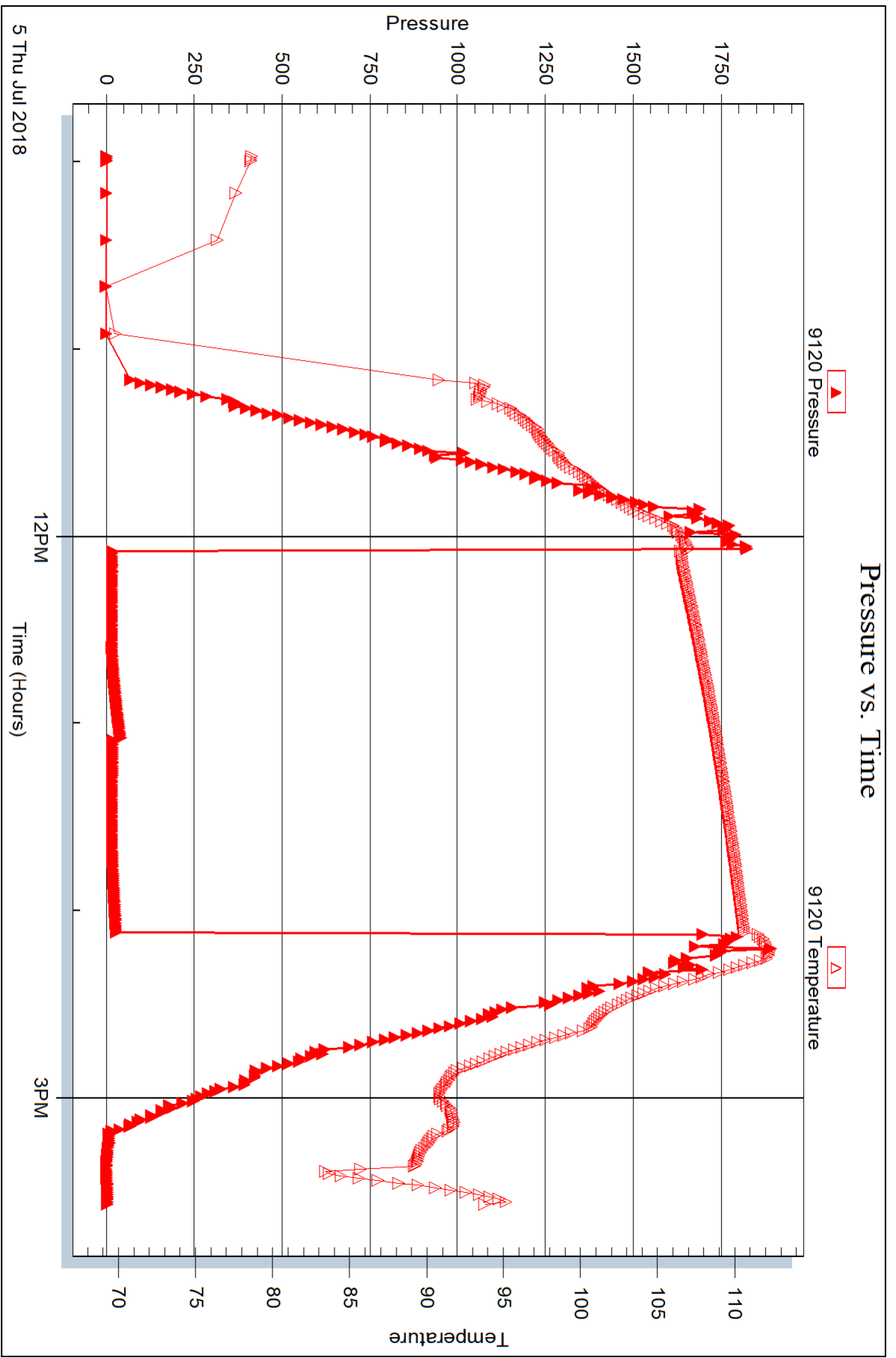
Serial #: 9120

Inside

Dow n ing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63915

Printed: 2018.07.11 @ 11:07:48



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Mary Pearson #2-25

25-13S-22W Trego,KS

Start Date: 2018.07.06 @ 13:32:00

End Date: 2018.07.06 @ 19:06:45

Job Ticket #: 63916 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 11:07:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13S-22W Trego, KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63916

DST#: 3

ATTN: Marc Downing

Test Start: 2018.07.06 @ 13:32:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:15

Time Test Ended: 19:06:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3990.00 ft (KB) To 4045.00 ft (KB) (TVD)**

Reference Elevations: 2263.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

2255.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 21.30 psig @ 3993.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.06

End Date:

2018.07.06

Last Calib.:

2018.07.06

Start Time: 13:32:15

End Time:

19:06:45

Time On Btm:

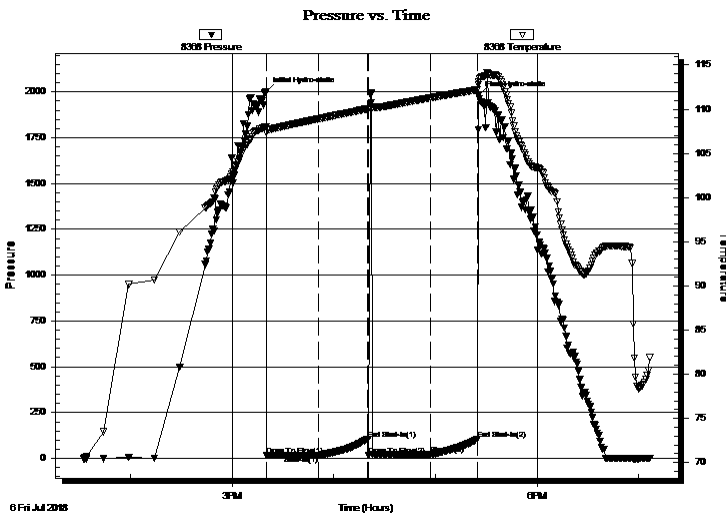
2018.07.06 @ 15:20:00

Time Off Btm:

2018.07.06 @ 17:25:30

TEST COMMENT: 30-IF-Weak Surface Blow
30-ISI-No Return
30-FF-No Blow ; Flushed tool; Built to 1/4"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.54	108.04	Initial Hydro-static
1	17.25	107.33	Open To Flow (1)
31	16.15	108.91	Shut-In(1)
60	105.73	110.05	End Shut-In(1)
61	18.53	110.02	Open To Flow (2)
98	21.30	111.30	Shut-In(2)
125	104.87	112.20	End Shut-In(2)
126	1978.93	113.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 5%O 95%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63916

DST#: 3

ATTN: Marc Downing

Test Start: 2018.07.06 @ 13:32:00

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.82 inches	Volume: 56.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3990.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3971.00	
Shut In Tool	5.00			3976.00	
Hydraulic tool	5.00			3981.00	
Packer	5.00			3986.00	20.00 Bottom Of Top Packer
Packer	4.00			3990.00	
Stubb	1.00			3991.00	
Perforations	1.00			3992.00	
Change Over Sub	1.00			3993.00	
Recorder	0.00	8368	Inside	3993.00	
Recorder	0.00	9120	Inside	3993.00	
Drill Pipe	32.00			4025.00	
Change Over Sub	1.00			4026.00	
Perforations	16.00			4042.00	
Bullnose	3.00			4045.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63916

DST#: 3

ATTN: Marc Downing

Test Start: 2018.07.06 @ 13:32:00

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: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM 5%O 95%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

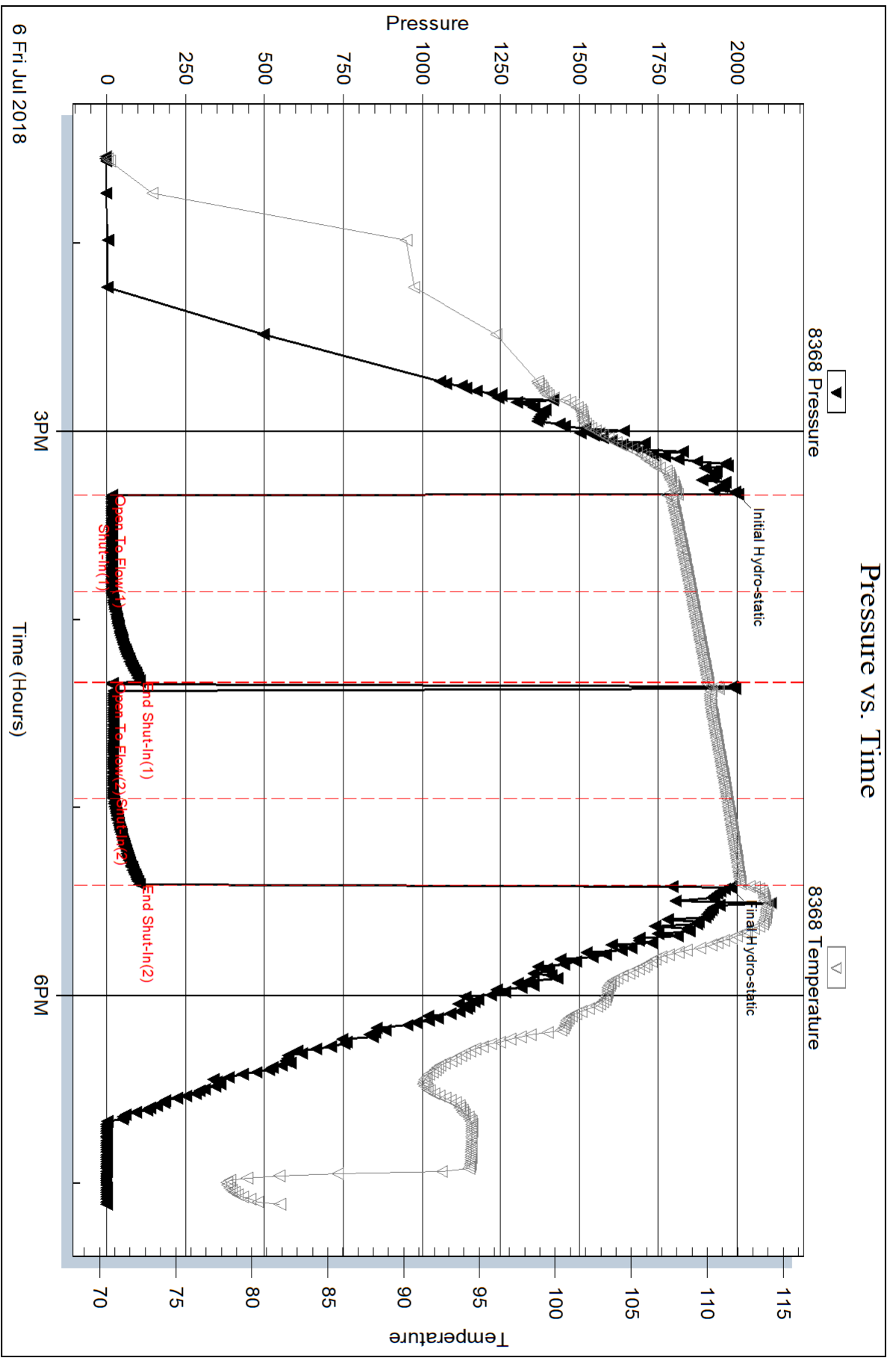
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



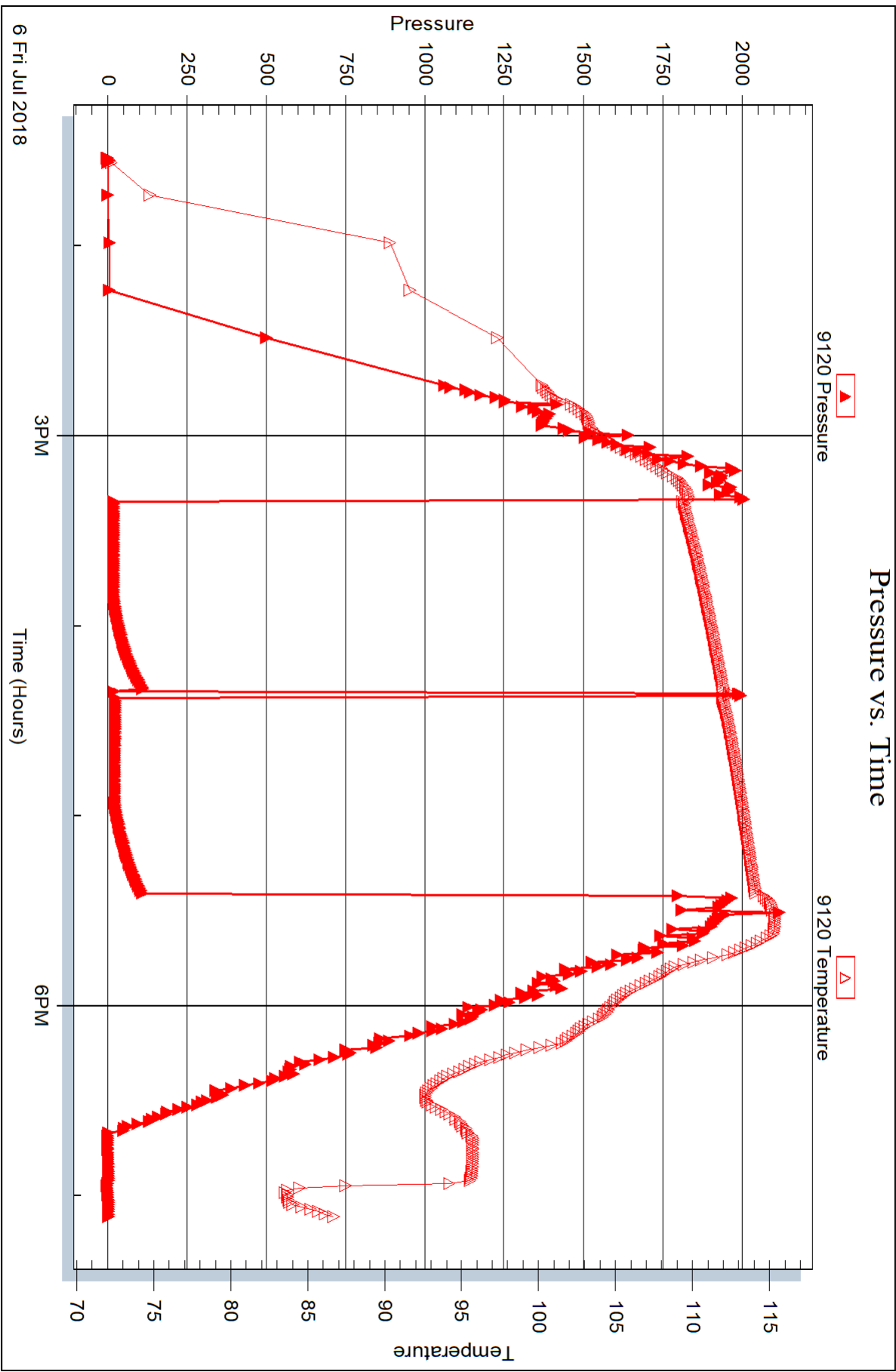
Serial #: 9120

Inside

Dow n/ing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63916

Printed: 2018.07.11 @ 11:07:19



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Mary Pearson #2-25

25-13S-22W Trego,KS

Start Date: 2018.07.07 @ 09:56:13

End Date: 2018.07.07 @ 16:51:34

Job Ticket #: 63129 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.11 @ 11:05:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13S-22W Trego, KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

ATTN: Marc Downing

Job Ticket: 63129

DST#: 4

Test Start: 2018.07.07 @ 09:56:13

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:47:49

Time Test Ended: 16:51:34

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3987.00 ft (KB) To 4056.00 ft (KB) (TVD)

Reference Elevations: 2263.00 ft (KB)

Total Depth: 4134.00 ft (KB) (TVD)

2255.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: 42.48 psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.07

End Date:

2018.07.07

Last Calib.:

2018.07.07

Start Time: 09:56:14

End Time:

16:51:34

Time On Btm:

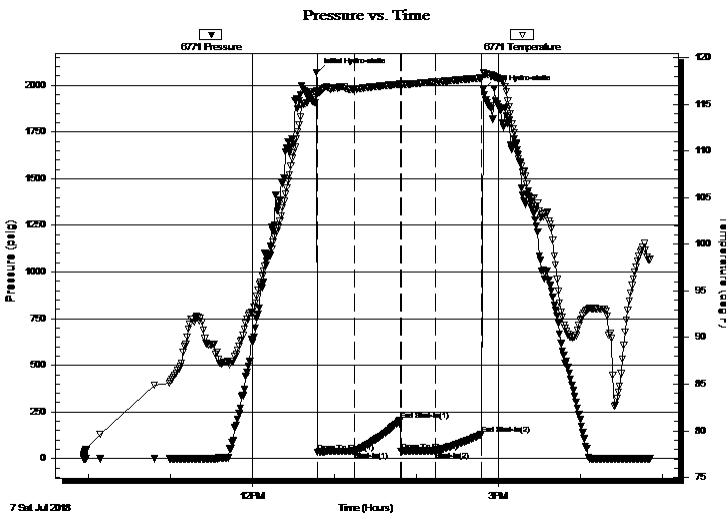
2018.07.07 @ 12:47:19

Time Off Btm:

2018.07.07 @ 14:49:04

TEST COMMENT: 30- IF- 1/4" blow
30- IS- No blow
30- FF- No blow
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.11	116.41	Initial Hydro-static
1	35.74	116.14	Open To Flow (1)
28	40.06	116.61	Shut-In(1)
61	206.20	117.14	End Shut-In(1)
62	40.80	117.06	Open To Flow (2)
87	42.48	117.39	Shut-In(2)
121	129.99	117.80	End Shut-In(2)
122	1977.91	118.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13S-22W Trego,KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

ATTN: Marc Downing

Job Ticket: 63129

DST#: 4

Test Start: 2018.07.07 @ 09:56:13

Tool Information

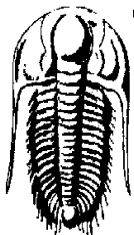
Drill Pipe:	Length: 3963.00 ft	Diameter: 3.82 inches	Volume: 56.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3987.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	4056.00 ft				
Interval between Packers:	69.00 ft				
Tool Length:	167.00 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			3968.00	
Shut In Tool	5.00			3973.00	
Hydraulic tool	5.00			3978.00	
Packer	5.00			3983.00	20.00 Bottom Of Top Packer
Packer	4.00			3987.00	
Stubb	1.00			3988.00	
Recorder	0.00	6771	Inside	3988.00	
Recorder	0.00	6753	Outside	3988.00	
Perforations	5.00			3993.00	
Change Over Sub	1.00			3994.00	
Drill Pipe	32.00			4026.00	
Change Over Sub	1.00			4027.00	
Perforations	25.00			4052.00	
Blank Off Sub	1.00			4053.00	
Blank Spacing	3.00			4056.00	69.00 Tool Interval
Packer	1.00			4057.00	
Stubb	1.00			4058.00	
Recorder	0.00	8367	Below	4058.00	
Perforations	8.00			4066.00	
Change Over Sub	1.00			4067.00	
Drill Pipe	63.00			4130.00	
Change Over Sub	1.00			4131.00	
Bullnose	3.00			4134.00	78.00 Bottom Packers & Anchor
Total Tool Length:	167.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13S-22W Trego, KS

PO Box 1019
Hays KS 67601

Mary Pearson #2-25

Job Ticket: 63129

DST#: 4

ATTN: Marc Downing

Test Start: 2018.07.07 @ 09:56:13

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: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

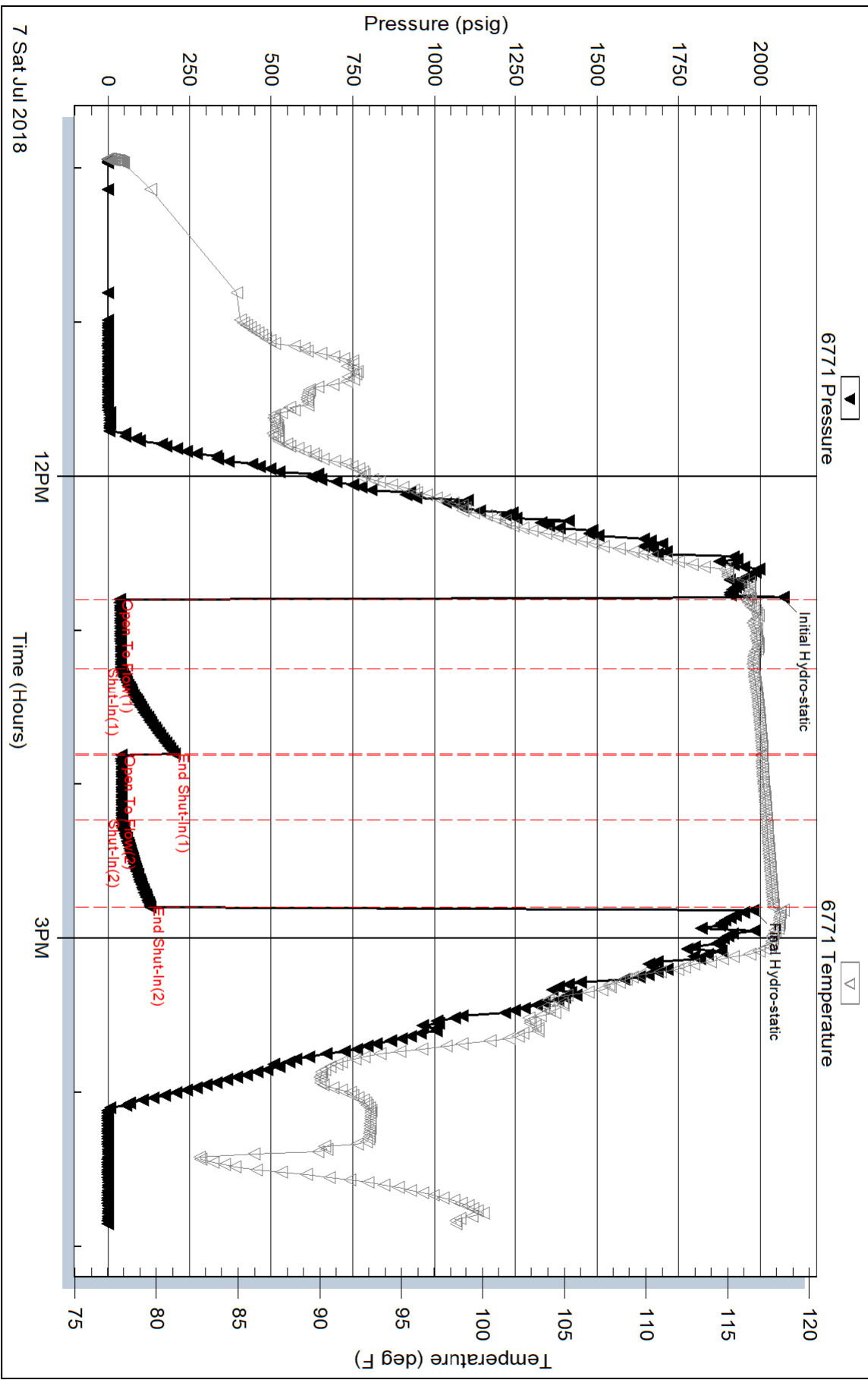
Inside

Downing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 4

Pressure vs. Time

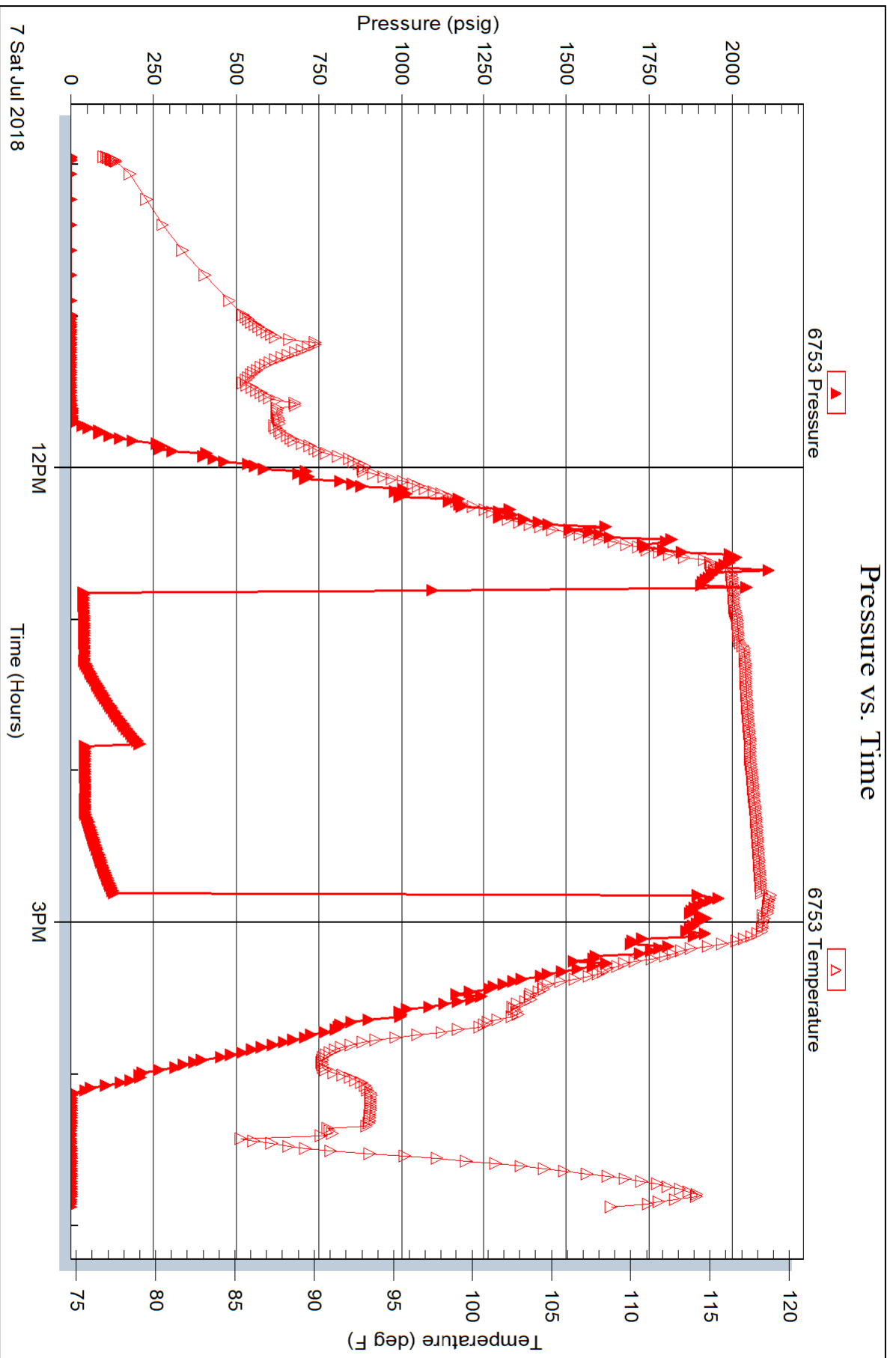


Serial #: 6753

Outside Dow n ing Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 4

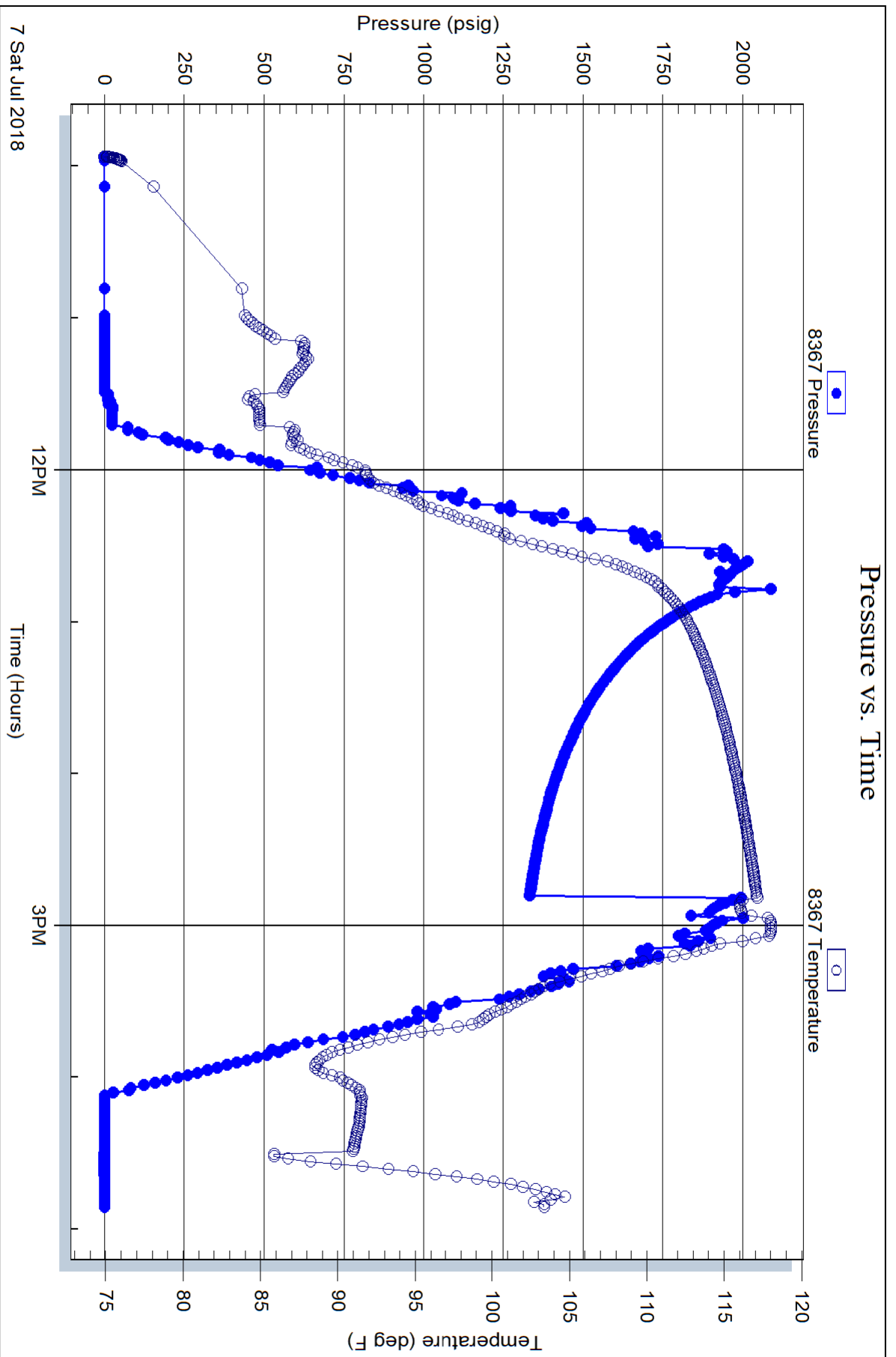


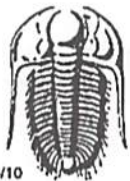
Serial #: 8367

Below (Stratton)ng Nelson Oil Co

Mary Pearson #2-25

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63914

4/10

Well Name & No. Mary Pearson #2-25 Test No. 1 Date 07/01/2018
 Company DMOC Elevation 2263 KB 2255 GL
 Address PO BOX 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp Bs Rge. 22w Co. Trego State Ks

Interval Tested 3632'-3676' Zone Tested LHC 'C+D'
 Anchor Length 44' Drill Pipe Run 3613' Mud Wt. 9.0
 Top Packer Depth 3627' Drill Collars Run 31' Vis 6.0
 Bottom Packer Depth 3632' Wt. Pipe Run - WL 8.8
 Total Depth 3676' Chlorides 2000 ppm System LCM 1 1/2#

Blow Description 77-Weak Blow; Built to 1/4"
75L-No Return
77-No Blow
75L-No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3' BHT 108° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1741 Test 1050 T-On Location 13:40
 (B) First Initial Flow 18 Jars _____ T-Started 14:06
 (C) First Final Flow 16 Safety Joint _____ T-Open 16:25
 (D) Initial Shut-In 43 Circ Sub _____ T-Pulled 18:25
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 19:53
 (F) Second Final Flow 17 Mileage 70.87 70 Comments _____
 (G) Final Shut-In 23 Sampler _____
 (H) Final Hydrostatic 1721 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 0 Total 1120 MP/DST Disc't _____
 Sub Total 1120

Approved By _____ Our Representative Spencer J. Staab Thanks!

Triobite 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63915

Well Name & No. Mary Pearson #2-25 Test No. 2 Date 07/05/2018
 Company DNOC Elevation 2263 KB 2255 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp 33s Rge. 22w Co. Trigo State KS

Interval Tested 3736'-3813' Zone Tested LRC 'H-D-J'
 Anchor Length 77' Drill Pipe Run 3708' Mud Wt. 9.1
 Top Packer Depth 3731' Drill Collars Run 31' Vis 52
 Bottom Packer Depth 3736' Wt. Pipe Run - WL 8.0
 Total Depth 3813' Chlorides 3000 ppm System LCM 1 1/2#

Blow Description 17-Weak Blow Built to
151-No Return
77-No Blow
751-No Return

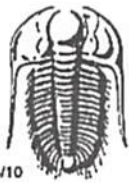
Rec	Feet of	%gas	%oil	%water	%mud
2'	OSM			120	

Rec Total 2' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1820 Test 1050 T-On Location 09:30
 (B) First Initial Flow 19 Jars _____ T-Started 09:58
 (C) First Final Flow 14 Safety Joint _____ T-Open 12:03
 (D) Initial Shut-In 37 Circ Sub _____ T-Pulled 14:03
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 15:32
 (F) Second Final Flow 15 Mileage 7027 70 Comments _____
 (G) Final Shut-In 25 Sampler _____
 (H) Final Hydrostatic 1790 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 30 Accessibility _____
 Sub Total 1120 Sub Total _____
 Total 1120 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Paul Thanks!
 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.
 785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63916

Well Name & No. Mary Pearson #2-25 Test No. 3 Date 07/06/2018
 Company DNOCA Elevation 2263 KB 2255 GL
 Address PO BOX 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp 13s Rge. 22w Co. Trego State Ks

Interval Tested 3990 - 4045' Zone Tested Cherokee Sand
 Anchor Length 55' Drill Pipe Run 3963' Mud Wt. 9.2
 Top Packer Depth 3985' Drill Collars Run 32' Vis 53
 Bottom Packer Depth 3990' Wt. Pipe Run - WL 8.4
 Total Depth 4045' Chlorides 3000 ppm System LCM 1#

Blow Description 07- Weak Surface Blow
150- No Return
47- No Blow, Flushed tool ~~and~~ Built to 1/4"
750 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>SOCM</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 15' BHT 112° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2002</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>13:00</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>13:32</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint	T-Open <u>15:18</u>
(D) Initial Shut-In <u>105</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:18</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:05</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>70 RM 70</u>	Comments <u>Loaded tools after test</u>
(G) Final Shut-In <u>104</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1978</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1220</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1220</u>	

Approved By _____ Our Representative Spencer J. Staal Thanks!
 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.
 785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63129**

Well Name & No. Mary Pearson #2-25 Test No. 4 Date 7/7/18
 Company Downing-Nelson Oil Co., Inc. Elevation 2263KB 2255GL
 Address PO Box 019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp. 13 S Rge. 22 W Co. Trego State KS

Interval Tested 3987-4056 Zone Tested _____
 Anchor Length 69' Tail: 78' Drill Pipe Run 3963 Mud Wt. 9.2
 Top Packer Depth 3982-3987 Drill Collars Run 32 Vis 53
 Bottom Packer Depth 4056 Wt. Pipe Run _____ WL 8.4
 Total Depth 4134 Chlorides 3,000ppm System LCM 1#
 Blow Description IF - 1/4" blow
ISI - No blow
FF - No blow
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</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 10' BHT 1180 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2069 Test 1150 T-On Location 0930
 (B) First Initial Flow 36 Jars _____ T-Started 0956
 (C) First Final Flow 40 Safety Joint _____ T-Open 1248
 (D) Initial Shut-In 206 Circ Sub _____ T-Pulled 1448
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 1652
 (F) Second Final Flow 42 Mileage 70 RT 70 Comments _____
 (G) Final Shut-In 130 Sampler _____
 (H) Final Hydrostatic 1978 Straddle 600
 Shale Packer _____
 Ruined Shale Packer _____
 Extra Packer _____
 Ruined Packer _____
 Extra Recorder _____
 Extra Copies _____
 Day Standby _____
 Accessibility _____
 Sub Total 1820 Sub Total 0
 Total 1820 MP/DST Disc't _____

Approved By _____

Our Representative
Brannan Lonsdale

Marc A. Downing
Geologic Report

Consulting Petroleum Geologist
Drilling Time and Sample Log

Operator **Downing-Nelson Oil Co., Inc.** Elevation
 KB 2263
 DF 2261
 GL 2258

Lease **Mary Pearson** No. **2-25**

API # **15-195-23047-0000**

Field **Pearson** Casing Record
 Surface **8 5/8" @ 221'**
 Production **None**

Location **1374' FNL & 335' FWL** Electrical Surveys
CNDL, DIL
Micro

Sec. **25** Twp. **13s** Rge. **22w**

County **Trego** State **Kansas**

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1678	1676	+587	+6
Base Anhydrite	1727	1724	+539	-1
Topeka	3349	3346	-1083	+1
Heebner	3579	3576	-1313	-1
Toronto	3599	3594	-1331	FL
LKC	3612	3610	-1347	-1
BKC	3858	3856	-1593	+2
Marmaton	3961	3958	-1695	+2
Cherokee Sh	4004	4001	-1738	+2
Cherokee Sand	4036	4033	-1770	+2
Arbuckle	4096	4094	-1831	+3
Total Depth	4135	4134	-1868	

Reference Well For Structural Comparison **DNOCI**
Mary Pearson #1-25 746' FNL & 714' FWL Sec. 25-13s-22w

Drilling Contractor **Discovery Drilling, Rig #4**
 Commenced **7-1-18** Completed **7-7-18**
 Samples Saved From **3550** To **RTD**
 Drilling Time Kept From **3250** To **RTD**
 Samples Examined From **3250** To **RTD**
 Geological Supervision From **3250** To **RTD**

Summary and Recommendations

The Mary Pearson #2-25 ran structurally similar to nearby production. Due to poor development/depletion, it was decided by all concerned parties to plug and abandon the well.

Respectfully Submitted,
 Marc A. Downing

ROCK TYPES

shale, grn shale, gry Carbon Sh

ACCESSORIES

Dolsec sdy lmsst Lmsst lwr>

STRINGER

green shale red shale

MINERAL

Varicolored chert Chert White

CHIT VARI

Chit vari Chitcong! Dolprtm

DST

DST Int DST all Core Tail pipe

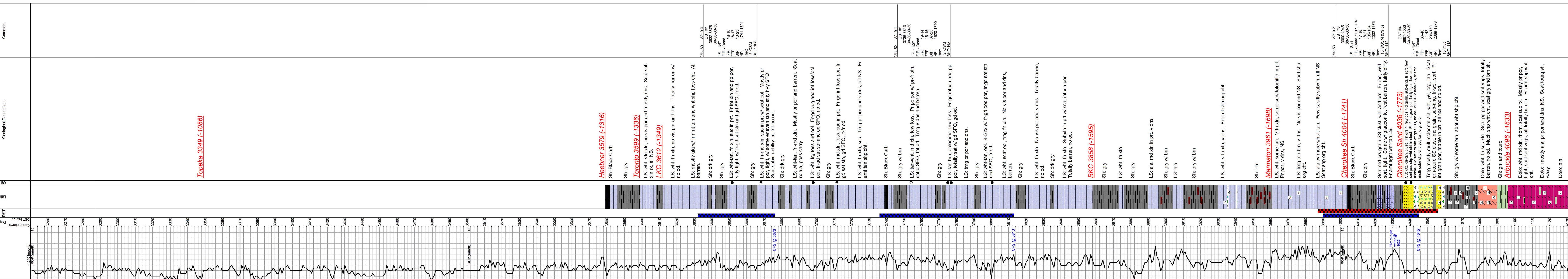
OIL SHOWS

Even Sh Spotted Sh 50 - 75 % Spotted Sh 25 - 50 % Spotted Sh 1 - 25 % Oils in shale Sh Oil Sh Fluorescence

OTHER SYMBOLS

Oil Shows Lithology DST

Printed by GEOSTrip VC Striplog version 4.0.8.15 (www.gstripc.com)



ROP (min/ft) 10 0

Depth (ft) 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140

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. 492

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-30-18	25	13	22	Trego	KS		9:15 PM

Location Ogallah S to Q Rd 3/4 E Sinto

Lease Mary Pearso Well No. 2-25 Owner

Contractor Discovery #4 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.

Type Job Surface Charge To Downing Nelson

Hole Size 12 1/4 T.D. 222' Street

Csg. 8 5/8 Depth 222' City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 150 40/20 3% cc 2% bol

Cement Left in Csg. 20' Shoe Joint

Meas Line Displace 12 3/4 bbl

EQUIPMENT

Pumptrk 20 No. Cementer Brent Common 120

Bulktrk 15 No. Helper Jordan Poz. Mix 30

Bulktrk 7 No. Driver Doug Gel. 3

JOB SERVICES & REMARKS

Remarks: Halls

Rat Hole Salt

Mouse Hole Flowseal

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Handling 159

Ran 221' 8 5/8 + Est air Mileage

Mixed 150 sx **FLOAT EQUIPMENT**

Displaced 12 3/4 bbl Guide Shoe

Cement circular all! Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 33

Tax

Discount

Total Charge

X Signature John Joseph

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. 798
7-8-18

Date	7-7-18	Sec.	25	Twp.	13	Range	22	County	Trego	State	Ks	On Location		Finish	12:30 AM
------	--------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	----------

Lease Mary Pearson Well No. 2-25 Location Ogallah - 95 to Q Rd, 3/4 E, 5/4 W

Contractor Discovery #4 Owner To Quality Oilwell Cementing, Inc.
Type Job Plug 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 7 7/8" T.D. 4135' Charge To Downing - Nelson
Csg. Depth 4075' Street

Tbg. Size 4 1/2" D.P. Depth 4075' City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered 305 60/40 4 1/2 Gel 1/4# Flowseal

Meas Line Displace 420/mud

EQUIPMENT

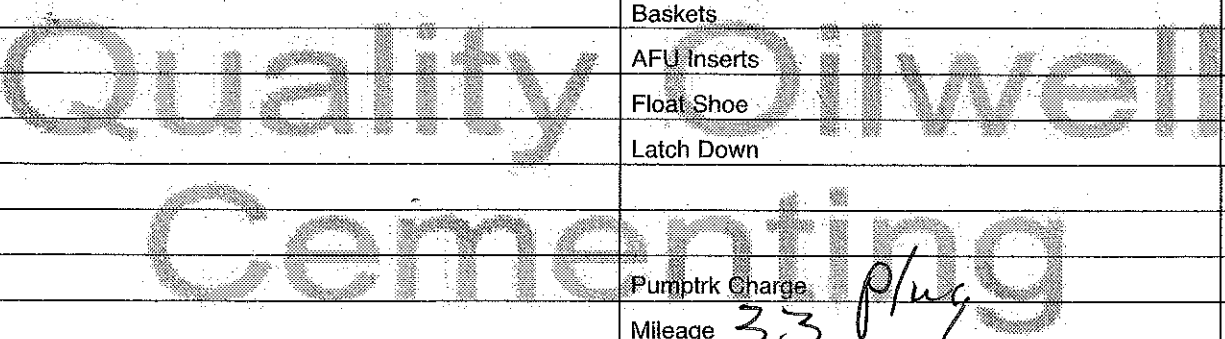
Pumptrk <u>17</u> No. <u>17</u> Cementer <u>David</u>	Common <u>183</u>
Bulktrk <u>19</u> No. <u>19</u> Driver <u>Jordan</u>	Poz. Mix <u>122</u>
Bulktrk <u>p.u.</u> No. <u>p.u.</u> Driver <u>Rick</u>	Gel. <u>11</u>
	Calcium

JOB SERVICES & REMARKS

Remarks: <u>4075' - 505x</u>	Hulls
Rat Hole <u>1700' - 505x</u>	Salt
Mouse Hole <u>860' - 1005x</u>	Flowseal <u>50tl</u>
Centralizers <u>280' - 505x</u>	Kol-Seal
Baskets <u>40' - 105x w/ plug</u>	Mud CLR 48
D/V or Port Collar <u>Rathole w/ 305x</u>	CFL-117 or CD110 CAF 38
<u>Mousehole w/ 153x</u>	Sand
	Handling <u>3/6</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe <u>Dry hole plug</u>
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down



Pumptrk Charge Plug
Mileage 33

Signature <u>[Signature]</u>	Tax
	Discount
	Total Charge