

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
--	---

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) (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	FISHER FAMILY 1-3
Doc ID	1720073

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	FISHER FAMILY 1-3
Doc ID	1720073

Tops

Name	Top	Datum
Top Anhydrite	2946'	+287
Base Anhydrite	2984'	+249
Foraker	3615'	-382
Topeka	3900'	-667
Heebner	4071'	-838
LKC	4113'	-885
Stark	4313'	-1080
BKC	4364'	-1131
Pawnee	4490'	-1257
Cherokee Shale	4566'	-1333
Mississippi	4785'	-1552



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

111 W. 10th,
Hays, KS 67601

ATTN: Marc Downing

Fisher #1-3

3-5s-36w, Rawlins,KS

Start Date: 2023.06.17 @ 13:50:00

End Date: 2023.06.17 @ 21:42:00

Job Ticket #: 70953 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.06.22 @ 16:36:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70953

DST#: 1

ATTN: Marc Dow ning

Test Start: 2023.06.17 @ 13:50:00

GENERAL INFORMATION:

Formation: **LKC, J**

Deviated: No Whipstock: 3233.00 ft (KB)

Time Tool Opened: 16:23:00

Time Test Ended: 21:42:00

Test Type: Conventional Bottom Hole (Initial)

Tester: David Urban

Unit No: 67

Interval: 4308.00 ft (KB) To 4320.00 ft (KB) (TVD)

Reference Elevations: 3233.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

3222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8677 Outside

Press@RunDepth: 72.12 psig @ 4309.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.17

End Date:

2023.06.17

Last Calib.:

2023.06.17

Start Time: 13:50:05

End Time:

21:41:59

Time On Btm:

2023.06.17 @ 16:22:30

Time Off Btm:

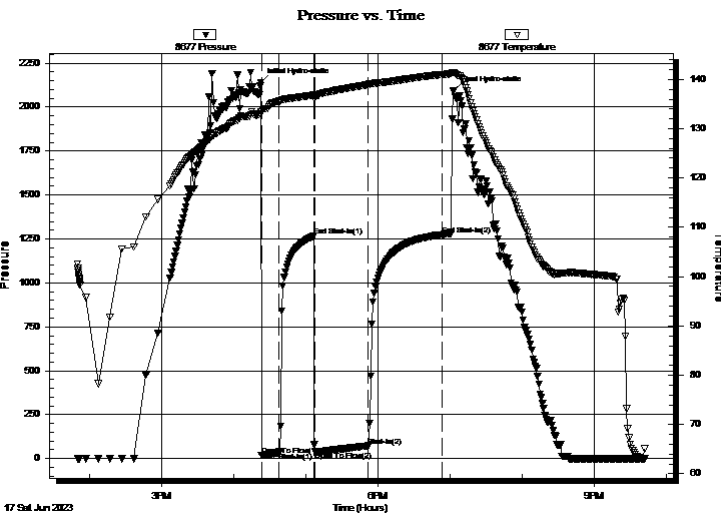
2023.06.17 @ 19:03:00

TEST COMMENT: IF- Weak surface blow , Built to 3" in 10 minutes; Final built to 3 1/4".

IS- Very weak surface blow , Died after 4 minutes.

FF- Weak surface blow , Built to 2" in 10 minutes; Final built to 8".

FS- Very weak surface blow , Built to weak surface in 2 minutes; Final died in 15 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.82	133.47	Initial Hydro-static
1	20.19	133.35	Open To Flow (1)
15	33.93	135.56	Shut-In(1)
44	1265.65	136.81	End Shut-In(1)
45	39.78	136.61	Open To Flow (2)
90	72.12	138.94	Shut-In(2)
151	1274.57	140.97	End Shut-In(2)
161	2091.69	141.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	OCWM- 50%O, 5%W, 45%M	0.29
58.00	GOCM- 10%G, 80%O, 10%M	0.29
10.00	GO- 10%G, 90%O	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70953

DST#: 1

ATTN: Marc Downing

Test Start: 2023.06.17 @ 13:50:00

Tool Information

Drill Pipe:	Length: 4108.00 ft	Diameter: 3.80 inches	Volume: 57.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 58.48 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4308.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4277.00	
Shut In Tool	5.00			4282.00	
Hydraulic tool	5.00			4287.00	
Jars	5.00			4292.00	
EM Tool	4.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	32.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Recorder	0.00	8677	Outside	4309.00	
Recorder	0.00	8018	Inside	4309.00	
Perforations	8.00			4317.00	
Bullnose	3.00			4320.00	12.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70953

DST#: 1

ATTN: Marc Downing

Test Start: 2023.06.17 @ 13:50:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
58.00	OCWM- 50%O, 5%W, 45%M	0.285
58.00	GOCM- 10%G, 80%O, 10%M	0.285
10.00	GO- 10%G, 90%O	0.049

Total Length: 126.00 ft

Total Volume: 0.619 bbl

Num Fluid Samples: 0

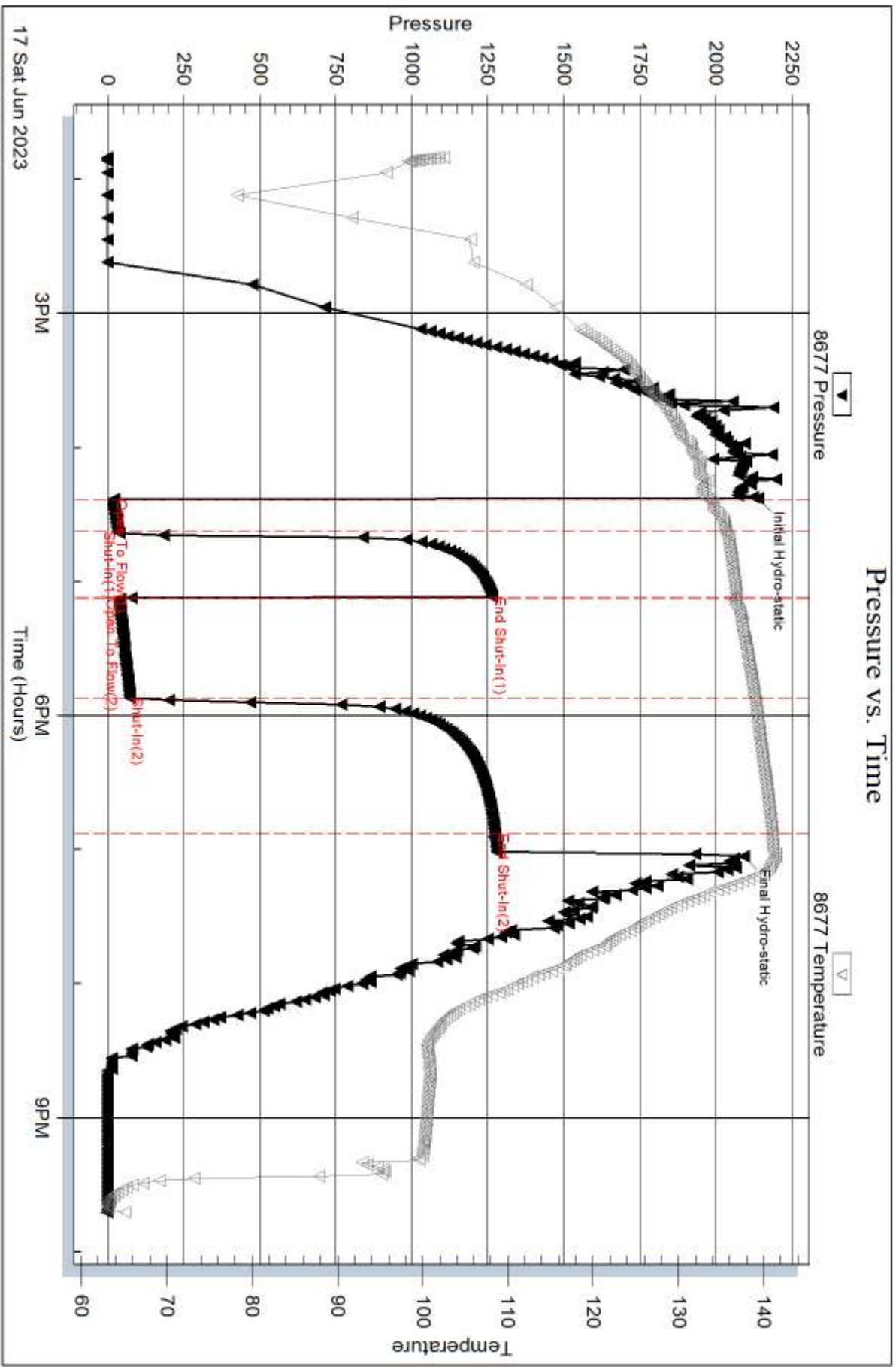
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 1#



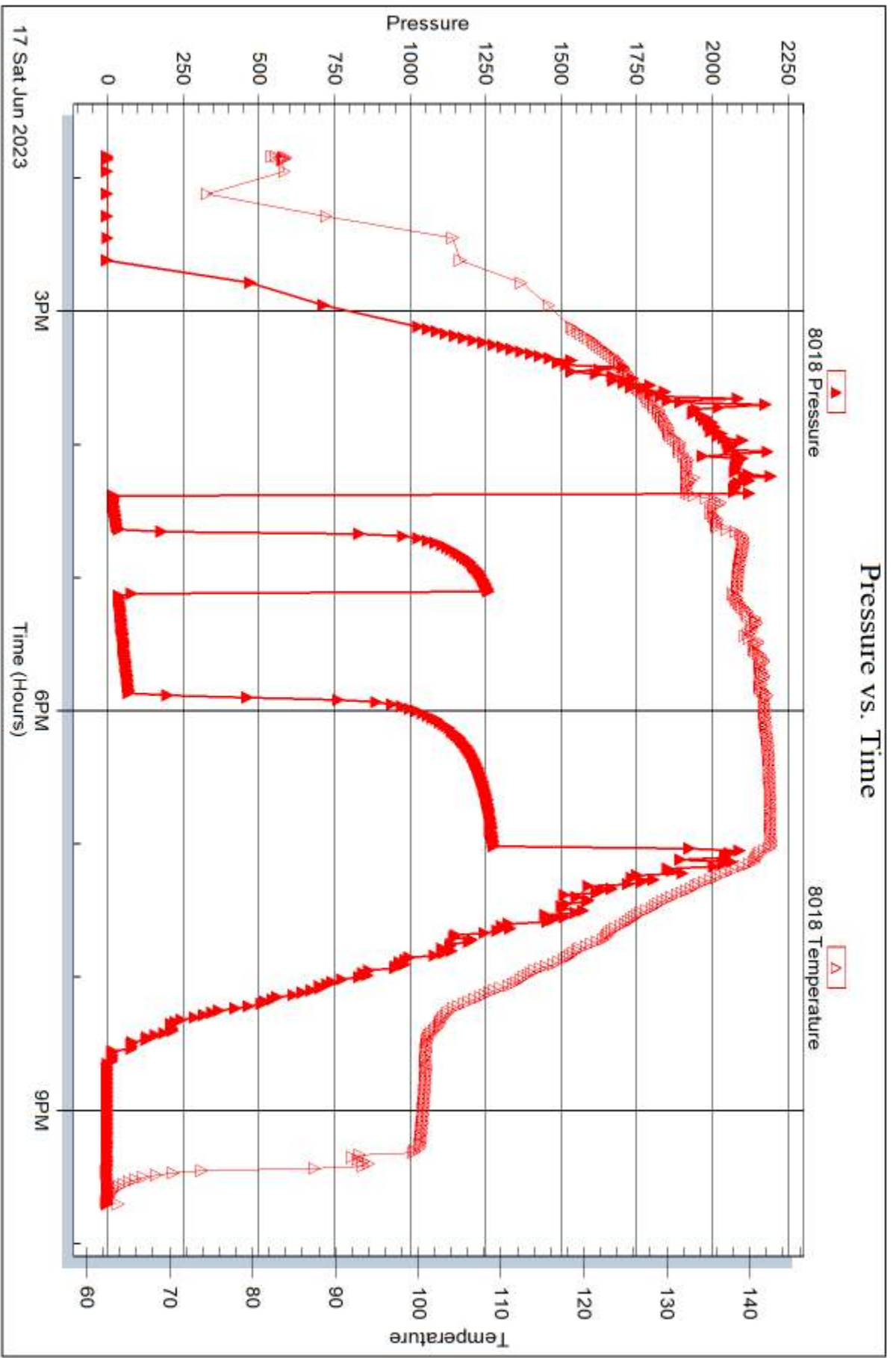
Serial #: 8018

Inside

Downing Nelson Oil Company

Fisher #1-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 70953

Printed: 2023.06.22 @ 16:36:07



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

111 W. 10th,
Hays, KS 67601

ATTN: Marc Downing

Fisher #1-3

3-5s-36w, Rawlins,KS

Start Date: 2023.06.18 @ 21:31:00

End Date: 2023.06.19 @ 05:23:30

Job Ticket #: 70954 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.06.22 @ 16:35:36



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70954

DST#: 2

ATTN: Marc Dow ning

Test Start: 2023.06.18 @ 21:31:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 3233.00 ft (KB)

Time Tool Opened: 00:04:00

Time Test Ended: 05:23:30

Test Type: Conventional Bottom Hole (Reset)

Tester: David Urban

Unit No: 67

Interval: 4470.00 ft (KB) To 4517.00 ft (KB) (TVD)

Reference Elevations: 3233.00 ft (KB)

Total Depth: 4517.00 ft (KB) (TVD)

3222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8677 Outside

Press@RunDepth: 297.11 psig @ 4471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.18

End Date:

2023.06.19

Last Calib.:

2023.06.19

Start Time: 21:31:05

End Time:

05:23:29

Time On Btm:

2023.06.19 @ 00:03:30

Time Off Btm:

2023.06.19 @ 02:36:30

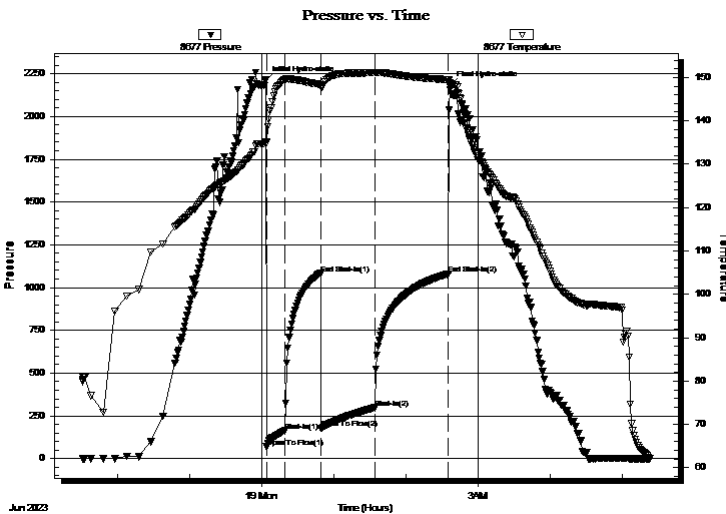
TEST COMMENT: IF- Strong surface blow , Built to BOB in 8" minutes; Final built to 15".

IS- Weak surface blow ; Final died after 7 minutes.

FF- Strong surface blow , Built to 7 1/2" in 10 minutes, BOB in 17 minutes; Final built to 15 1/2".

FS- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.04	135.19	Initial Hydro-static
1	68.53	135.10	Open To Flow (1)
16	162.19	149.47	Shut-In(1)
46	1082.04	148.30	End Shut-In(1)
46	176.94	147.80	Open To Flow (2)
91	297.11	151.09	Shut-In(2)
152	1080.24	149.45	End Shut-In(2)
153	2181.18	148.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	WM w / oil spots- 40%W, 60%M	0.29
367.00	MW w / oil spots- 90%W, 10%M	4.10
209.00	MW w / oil spots- 55%W, 45%M	2.93

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 Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70954

DST#: 2

ATTN: Marc Downing

Test Start: 2023.06.18 @ 21:31:00

Tool Information

Drill Pipe:	Length: 4295.00 ft	Diameter: 3.80 inches	Volume: 60.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 61.11 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4470.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	79.00 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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Stubb	1.00		Fluid	4439.00	
Shut In Tool	5.00			4444.00	
Hydraulic tool	5.00			4449.00	
Jars	5.00			4454.00	
EM Tool	4.00			4458.00	
Safety Joint	3.00			4461.00	
Packer	5.00			4466.00	32.00 Bottom Of Top Packer
Packer	4.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8677	Outside	4471.00	
Recorder	0.00	8018	Inside	4471.00	
Perforations	9.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Pipe	32.00			4513.00	
Change Over Sub	1.00			4514.00	
Bullnose	3.00			4517.00	47.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70954

DST#: 2

ATTN: Marc Downing

Test Start: 2023.06.18 @ 21:31:00

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:

36000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	WM w / oil spots- 40%W, 60%M	0.290
367.00	MW w / oil spots- 90%W, 10%M	4.100
209.00	MW w / oil spots- 55%W, 45%M	2.932

Total Length: 635.00 ft

Total Volume: 7.322 bbl

Num Fluid Samples: 0

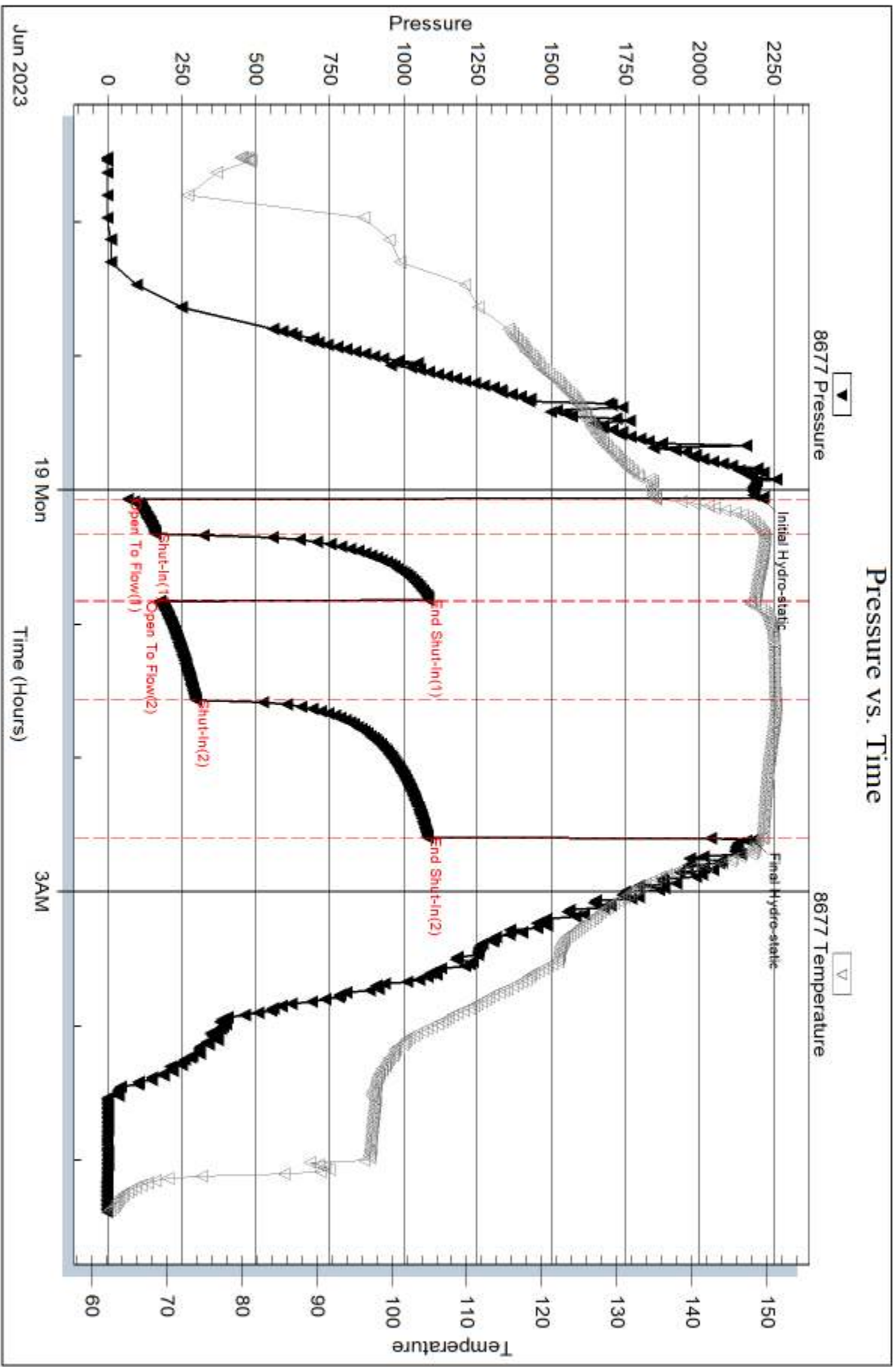
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 3#



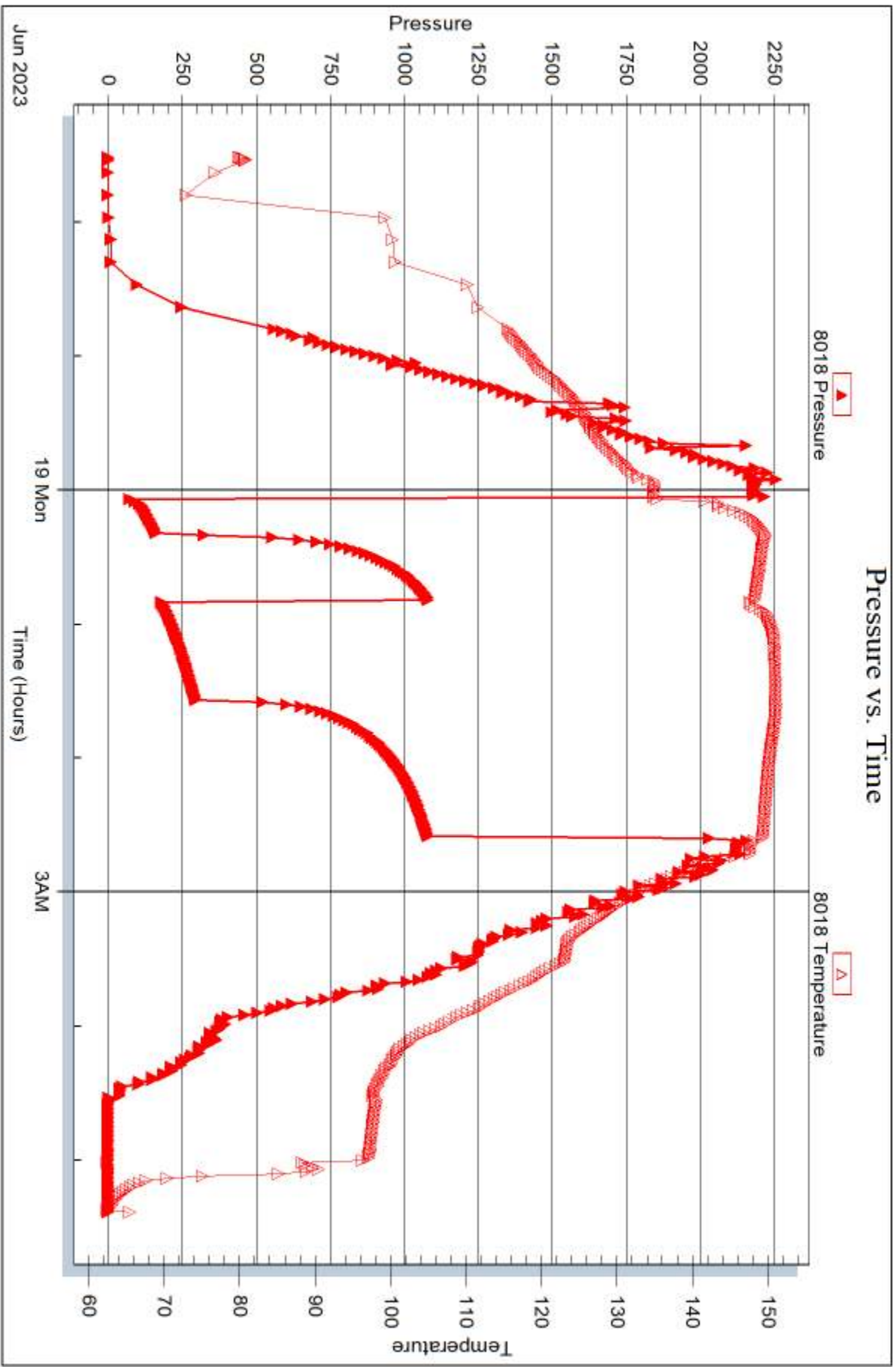
Serial #: 8018

Inside

Downing Nelson Oil Company

Fisher #1-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 70954

Printed: 2023.06.22 @ 16:35:36



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

111 W. 10th,
Hays, KS 67601

ATTN: Marc Downing

Fisher #1-3

3-5s-36w, Rawlins,KS

Start Date: 2023.06.19 @ 16:41:00

End Date: 2023.06.20 @ 00:24:30

Job Ticket #: 70955 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.06.22 @ 16:34:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70955

DST#: 3

ATTN: Marc Dow ning

Test Start: 2023.06.19 @ 16:41:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: 3233.00 ft (KB)

Time Tool Opened: 18:57:00

Time Test Ended: 00:24:30

Test Type: Conventional Bottom Hole (Reset)

Tester: David Urban

Unit No: 67

Interval: 4565.00 ft (KB) To 4593.00 ft (KB) (TVD)

Reference Elevations: 3233.00 ft (KB)

Total Depth: 4593.00 ft (KB) (TVD)

3222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8677 Outside

Press@RunDepth: 115.66 psig @ 4566.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.19

End Date:

2023.06.20

Last Calib.:

2023.06.20

Start Time: 16:41:05

End Time:

00:24:29

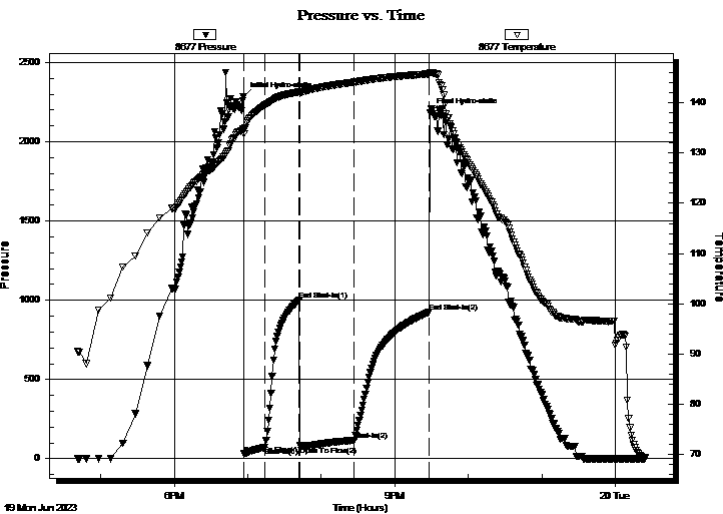
Time On Btm:

2023.06.19 @ 18:56:30

Time Off Btm:

2023.06.19 @ 21:29:00

TEST COMMENT: IF-Strong surface blow , Built to 8" in 10 minutes; Final BOB- 11".
IS- Weak surface blow , Built to 3/4" in 10 minutes; Final died to 1/2".
FF- Strong surface blow , Built to 6" in 10 minutes, BOB in 30 minutes; Final built to 13".
FS- Weak surface blow , Built to 3/4" in 10 minutes, Built to 2" in 35 minutes; Final 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.69	134.74	Initial Hydro-static
1	29.96	133.81	Open To Flow (1)
18	71.97	139.51	Shut-In(1)
46	1000.56	142.17	End Shut-In(1)
46	80.69	141.93	Open To Flow (2)
91	115.66	144.09	Shut-In(2)
152	924.65	145.73	End Shut-In(2)
153	2186.31	146.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOCM 20%G, 45%O, 35%M	0.29
58.00	GOCM 30%G, 65%O, 5%M	0.29
58.00	GO 35%G, 65%O	0.29
78.00	GO 20%G, 80%O	1.09
0.00	552' G	0.00

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 Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70955

DST#: 3

ATTN: Marc Downing

Test Start: 2023.06.19 @ 16:41:00

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose:	4000.00 lb
			<u>Total Volume: 62.44 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4565.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4534.00	
Shut In Tool	5.00			4539.00	
Hydraulic tool	5.00			4544.00	
Jars	5.00			4549.00	
EM Tool	4.00			4553.00	
Safety Joint	3.00			4556.00	
Packer	5.00			4561.00	32.00 Bottom Of Top Packer
Packer	4.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	8677	Outside	4566.00	
Recorder	0.00	8018	Inside	4566.00	
Perforations	24.00			4590.00	
Bullnose	3.00			4593.00	28.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70955

DST#: 3

ATTN: Marc Downing

Test Start: 2023.06.19 @ 16:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 70.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GOCM 20%G, 45%O, 35%M	0.285
58.00	GOCM 30%G, 65%O, 5%M	0.285
58.00	GO 35%G, 65%O	0.285
78.00	GO 20%G, 80%O	1.094
0.00	552' G	0.000

Total Length: 252.00 ft Total Volume: 1.949 bbl

Num Fluid Samples: 0

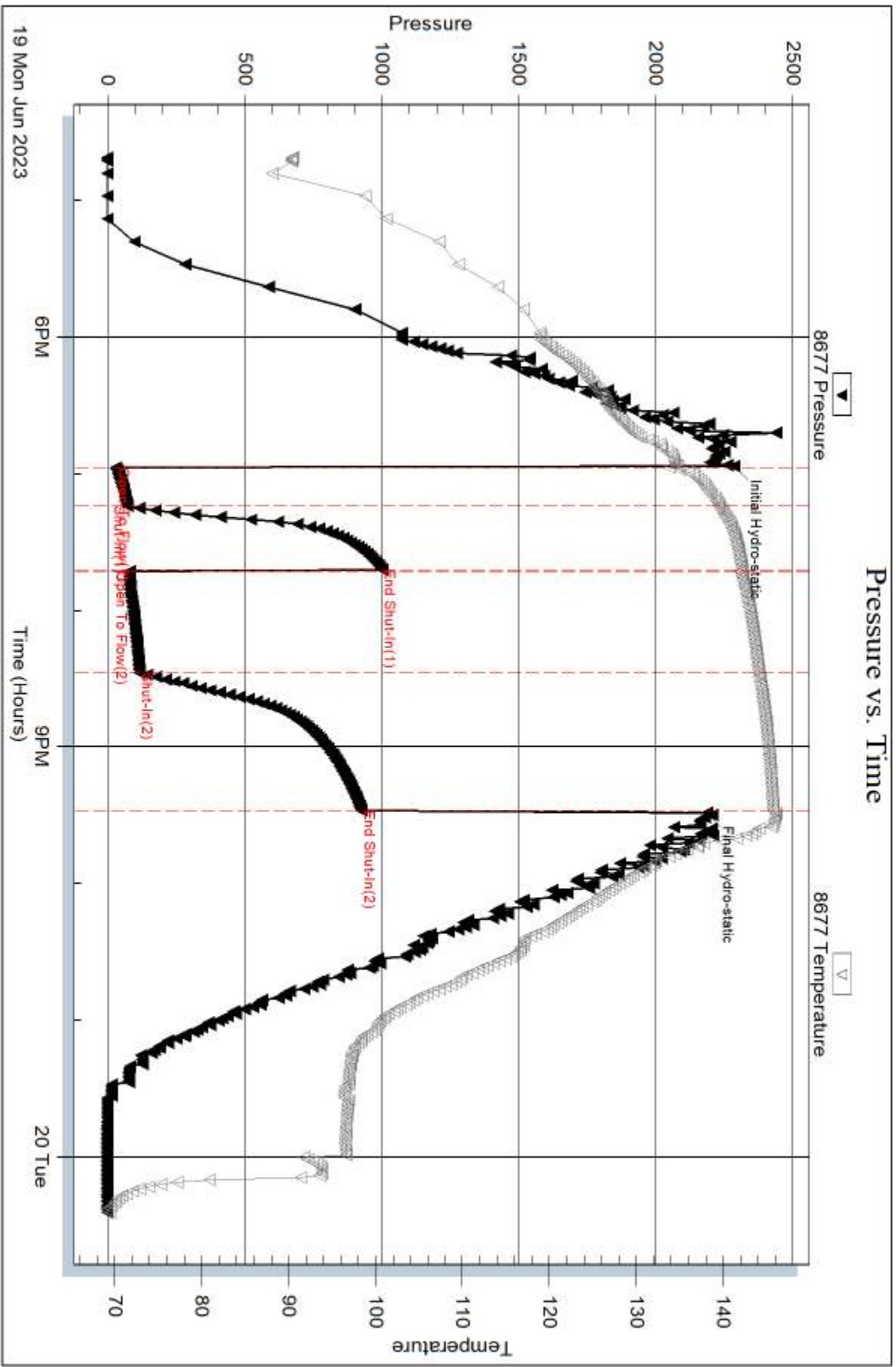
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 4#



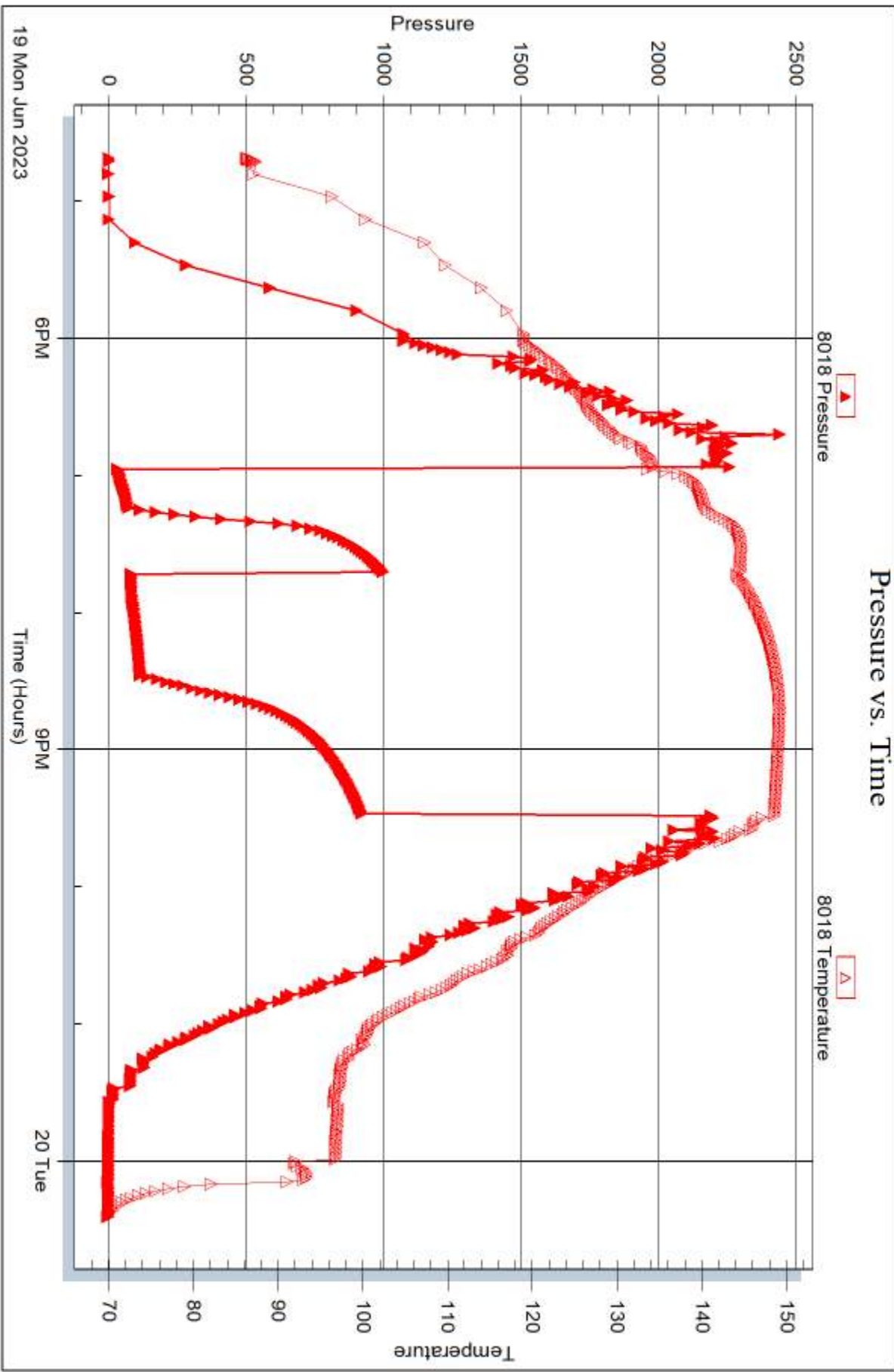
Serial #: 8018

Inside

Downing Nelson Oil Company

Fisher #1-3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 70955

Printed: 2023.06.22 @ 16:34:57



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

111 W. 10th,
Hays, KS 67601

ATTN: Marc Downing

Fisher #1-3

3-5s-36w, Rawlins,KS

Start Date: 2023.06.20 @ 09:09:00

End Date: 2023.06.20 @ 17:26:30

Job Ticket #: 70956 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.06.22 @ 16:34:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70956

DST#: 4

ATTN: Marc Dow ning

Test Start: 2023.06.20 @ 09:09:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: 3233.00 ft (KB)

Time Tool Opened: 11:39:30

Time Test Ended: 17:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: David Urban

Unit No: 67

Interval: 4591.00 ft (KB) To 4630.00 ft (KB) (TVD)

Reference Elevations: 3233.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

3222.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8677 Outside

Press@RunDepth: 309.28 psig @ 4592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.06.20

End Date: 2023.06.20

Last Calib.: 2023.06.20

Start Time: 09:09:05

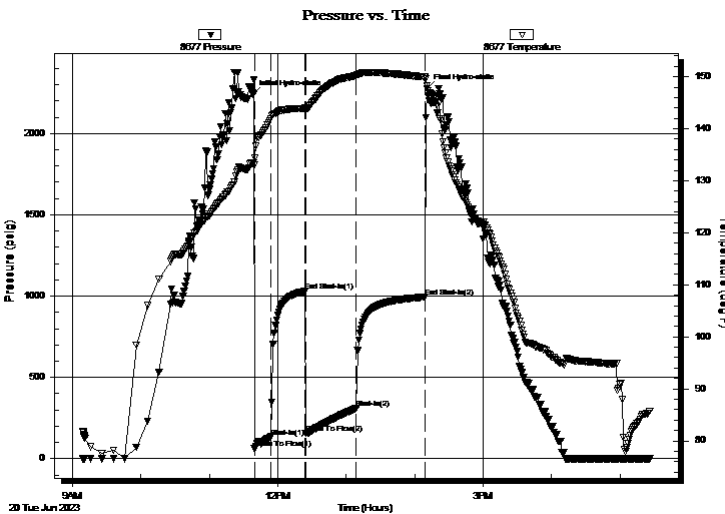
End Time: 17:26:29

Time On Btm: 2023.06.20 @ 11:38:30

Time Off Btm: 2023.06.20 @ 14:11:00

TEST COMMENT: IF- Strong surface blow , Built to BOB in 7" minutes; Final built to 18".
IS- Weak surface blow , Built to 3" in 9 minutes; Final built to 5".
FF- Strong surface blow , Built to BOB in 9 minutes; Final built to 22".
FS- Weak surface blow , Built to 1" on 10 minutes; Final built to 6 1/2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.21	133.42	Initial Hydro-static
1	61.54	133.04	Open To Flow (1)
16	133.88	141.96	Shut-In(1)
46	1028.78	143.94	End Shut-In(1)
46	155.21	143.72	Open To Flow (2)
91	309.28	150.28	Shut-In(2)
151	994.28	149.93	End Shut-In(2)
153	2273.79	148.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOCWM 10%G, 25%O, 15%W, 50%M	0.29
116.00	GOCWM 10%G, 50%O, 5%W, 35%M	0.57
189.00	GOCM 15%G, 70%O, 15%M	2.65
252.00	GOCM 30%G, 65%O, 5%M	3.53
252.00	GO 70%G, 30%O	3.53
0.00	693'-G 100%	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

Downing Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70956

DST#: 4

ATTN: Marc Downing

Test Start: 2023.06.20 @ 09:09:00

Tool Information

Drill Pipe:	Length: 4421.00 ft	Diameter: 3.80 inches	Volume: 62.02 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose:	2000.00 lb
			<u>Total Volume: 62.88 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	36.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4591.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4560.00	
Shut In Tool	5.00			4565.00	
Hydraulic tool	5.00			4570.00	
Jars	5.00			4575.00	
EM Tool	4.00			4579.00	
Safety Joint	3.00			4582.00	
Packer	5.00			4587.00	32.00 Bottom Of Top Packer
Packer	4.00			4591.00	
Stubb	1.00			4592.00	
Recorder	0.00	8677	Outside	4592.00	
Recorder	0.00	8018	Inside	4592.00	
Perforations	35.00			4627.00	
Bullnose	3.00			4630.00	39.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Company

3-5s-36w, Rawlins,KS

111 W. 10th,
Hays, KS 67601

Fisher #1-3

Job Ticket: 70956

DST#: 4

ATTN: Marc Dow ning

Test Start: 2023.06.20 @ 09:09:00

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:

15000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GOCWM 10%G, 25%O, 15%W, 50%M	0.285
116.00	GOCWM 10%G, 50%O, 5%W, 35%M	0.570
189.00	GOCM 15%G, 70%O, 15%M	2.651
252.00	GOCM 30%G, 65%O, 5%M	3.535
252.00	GO 70%G, 30%O	3.535
0.00	693'-G 100%	0.000

Total Length: 867.00 ft

Total Volume: 10.576 bbl

Num Fluid Samples: 0

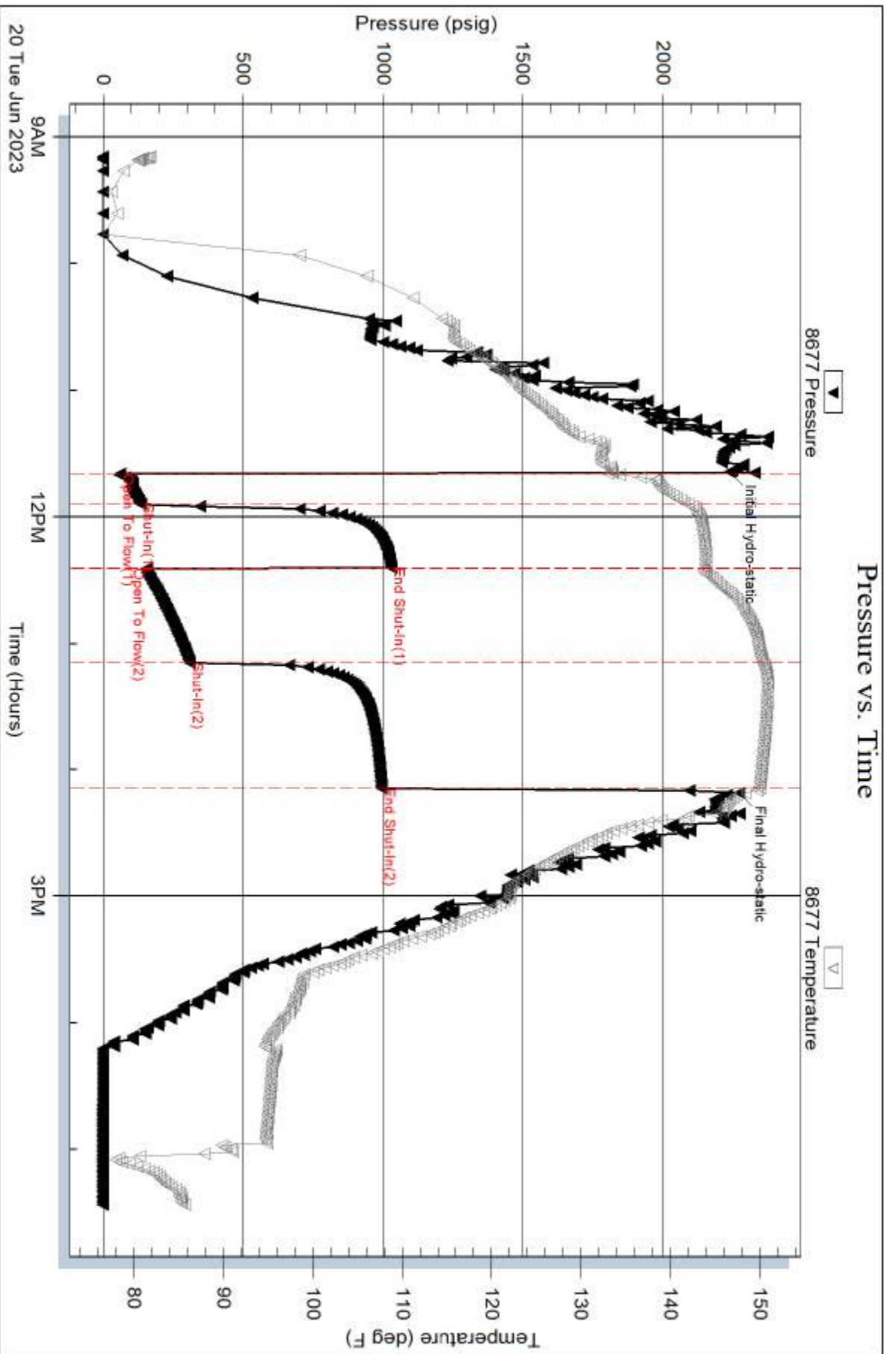
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 4#



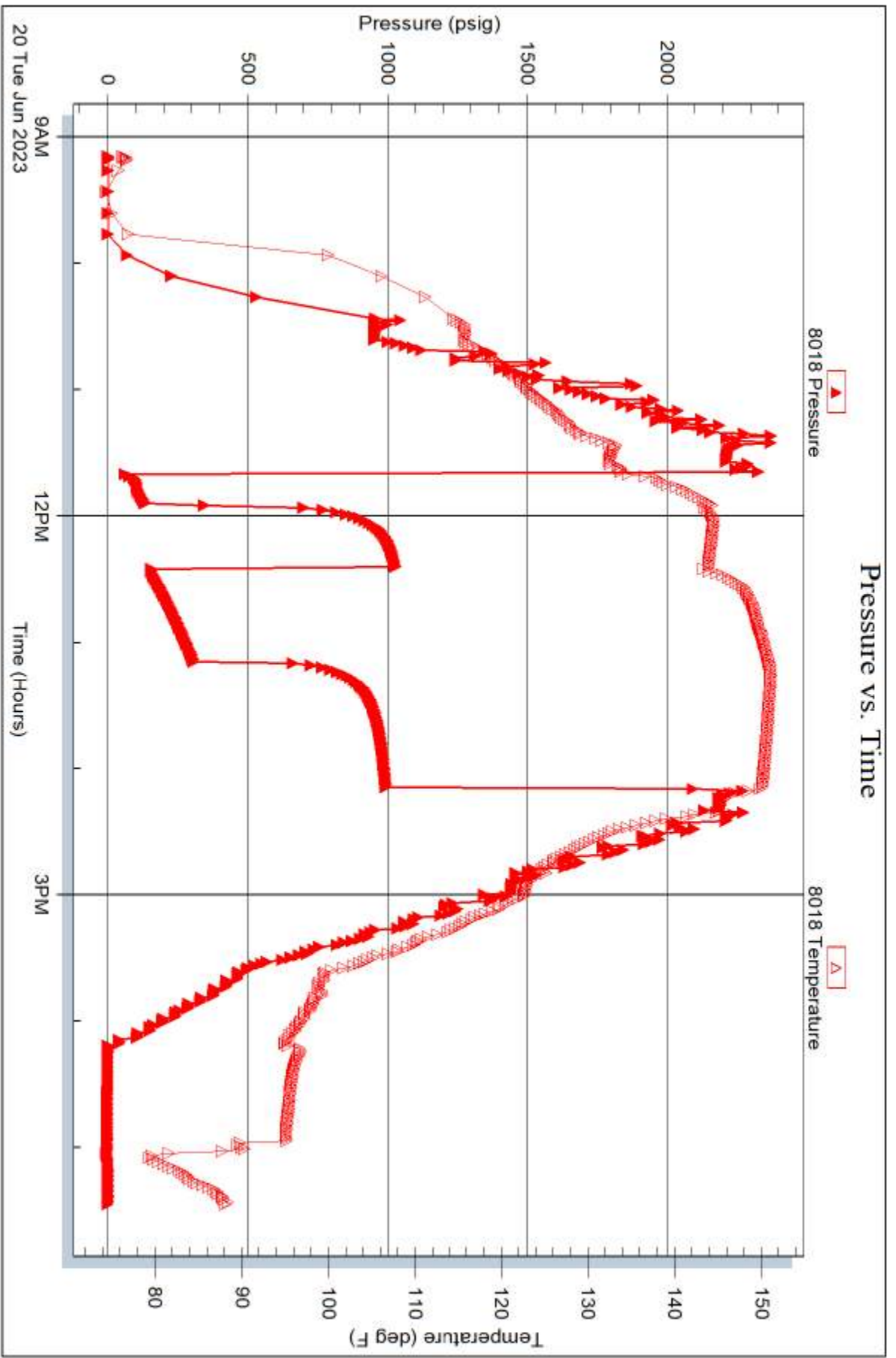
Serial #: 8018

Inside

Dow n ing Nelson Oil Company

Fisher #1-3

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 70956

Printed: 2023.06.22 @ 16:34:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70953

Well Name & No. Fisher #1-3 Test No. 1 Date 6/17/23
 Company Dunning Nelson Oil Company, Inc Elevation 3233 KB 3222 GL
 Address 111 W. 10th Hays, KS 67601
 Co. Rep / Geo Marc Downing Rig Duke #5
 Location: Sec. 3 Twp 5S Rge. 36W Co. Bawlings State KS

Interval Tested 4308-4320 Zone Tested LKC, J
 Anchor Length 12 Drill Pipe Run ~~4108~~ Mud Wt. 9.2
 Top Packer Depth 4303 Drill Collars Run 174 Vis 69
 Bottom Packer Depth 4308 Wt. Pipe Run 0 WL 8.8
 Total Depth 4320 Chlorides 500 ppm System LCM 1st

Blow Description IF - Weak surface blow, Built to 3" in 10 minutes; Final ~~3"~~ Built to 3 1/4"
ISI - Very weak surface blow, Died off after 5 minutes
FF - Weak surface blow, Built to 2" in 10 minutes; Final built to 8"
FSI - Very weak surface blow, Built to weak surface blow in 2 minutes; final died in 15 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>58</u>	<u>50CM</u>	<u>10</u>	<u>80</u>	<u>9</u>	<u>10</u>
<u>58</u>	<u>OCUM</u>		<u>50</u>	<u>5</u>	<u>45</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 126' / 300' G BHT 141°F Gravity _____ API RW 34 @ 66 °F Chlorides _____ ppm

Initial Hydrostatic 2139 Test 1950 Ruined Shale Packer _____
 Initial Flow 20 to 34 Jars 300 Ruined Packer _____
 Initial Shut-in 1266 Circ Sub _____ Hotel _____
 Final Flow 40 to 72 Hourly Standby _____ EM Tool Successful -175
 Final Shut-in 1275 Mileage 126 RT 220.50 Accessibility _____
 Final Hydrostatic 2092 Sampler _____ Gas Sample _____
 T-On Location 11:45 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 13:50 Shale Packer _____ Sub Total -175
 Initial Shut-in 30 T-Open 18:23 Extra Packer _____ Total 2295.50
 Final Flow 45 T-Pulled 19:01 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-in 60 T-Out 21:42 Day Standby _____ MP/DST Disc't _____

Comments Safety Joint Not enough water for salinity.

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70954

Well Name & No. Fisher #1-3 Test No. 2 Date 6/18/23
 Company Dawning-Nelson Oil Company, Inc. Elevation 3233 KB 3222 GL
 Address 111 W. 10th Hays, KS 67601
 Co. Rep / Geo Marc Dawning Rig Duke #5
 Location: Sec. 3 Twp 5s Rge. 36w Co. Rawlins State KS

Interval Tested 4470-4517 Zone Tested Pawnee
 Anchor Length 47 Drill Pipe Run 4295 Mud Wt. 9.2
 Top Packer Depth 4465 Drill Collars Run 174 Vis 67
 Bottom Packer Depth 4470 Wt. Pipe Run 0 WL 8.2
 Total Depth 4517 Chlorides 750 ppm System LCM 3#

Blow Description FF-Strong surface blow, Built to BOB in 8 minutes; Final Built to 15"
FSI-Weak surface blow; Final died after 7 minutes
FF-Strong surface blow, Built to 7 1/2" in 10 minutes; BOB in 17 minutes; Final built to 15 1/2"
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>209</u>	<u>MW w/oil spots</u>			<u>55</u>	<u>45</u>
<u>252</u>	<u>MW w/oil spots</u>			<u>90</u>	<u>10</u>
<u>115</u>	<u>MW w/oil spots</u>			<u>90</u>	<u>10</u>
<u>59</u>	<u>WM w/oil spots</u>			<u>40</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 635 BHT 149 Gravity — API RW — @ — °F Chlorides 36000 ppm

Initial Hydrostatic 2211 Test 1950 Ruined Shale Packer —
 Initial Flow 69 to 162 Jars 300 Ruined Packer 460
 Initial Shut-In 1082 Circ Sub — Hotel —
 Final Flow 177 to 297 Hourly Standby — EM Tool Successful -175
 Final Shut-In 1080 Mileage 126 RT 220.50 Accessibility —
 Final Hydrostatic 2181 Sampler — Gas Sample —
 T-On Location 20:55 Straddle — Oversized Hole —
 Initial Flow 15 T-Started 21:31 Shale Packer — Sub Total 460 - 175
 Initial Shut-In 30 T-Open 0:05 6/19 Extra Packer — Total 2755.50
 Final Flow 45 T-Pulled 2:36 6/19 Extra Recorder — Tool Loaded — @ —
 Final Shut-In 60 T-Out 5:25 6/19 Day Standby — MP/DST Disc't —

Comments Safety Joint

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70955

Well Name & No. Fisher #1-3 Test No. 3 Date 6/19/23
 Company Downing-Nelson Oil Company, Inc Elevation 3233 KB 3222 GL
 Address 111 W. 10th Hays, KS, 67601
 Co. Rep / Geo Marc Downing Rig Duke #5
 Location: Sec. 3 Twp 5S Rge. 36W Co. Rawlins State KS

Interval Tested 4565-4593 Zone Tested Cherokee Lime
 Anchor Length 28 Drill Pipe Run 4390 Mud Wt. 9.4
 Top Packer Depth 4560 Drill Collars Run 174 Vis 70
 Bottom Packer Depth 4565 Wt. Pipe Run 0 WL 8.8
 Total Depth 4593 Chlorides 900 ppm System LCM 4F

Blow Description IF-Strong surface blow, Built to 8" in 10 minutes; Final BOB-11"
ISI-Weak surface blow, Built to 3/4" in 10 minutes; Final died to 1/2"
FF-Strong surface blow, Built to 6" in 10 minutes; BOB in 30 minutes; Final built to 13"
BI-Weak surface blow, Built to 3/4" in 10 minutes; Built to 2" in 35 minutes; Final 2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>78</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>58</u>	<u>60</u>	<u>35</u>	<u>65</u>		
<u>58</u>	<u>GOCM</u>	<u>30</u>	<u>65</u>		<u>5</u>
<u>58</u>	<u>GOCM</u>	<u>20</u>	<u>45</u>		<u>35</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 252 / 552-G BHT 146 Gravity _____ API RW 27.2 @ 74 °F Chlorides _____ ppm
 Initial Hydrostatic 2287 Test 1950 Ruined Shale Packer _____
 Initial Flow 30 to 72 Jars 300 Ruined Packer _____
 Initial Shut-In 1001 Circ Sub _____ Hotel _____
 Final Flow 281 to 116 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 925 Mileage 126 RT 220.50 Accessibility _____
 Final Hydrostatic 2186 Sampler _____ Gas Sample _____
 T- On Location 16:25 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 16:41 Shale Packer _____ Sub Total -350
 Initial Shut-In 30 T-Open 18:58 Extra Packer _____ Total 2120.50
 Final Flow 45 T-Pulled 21:29 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 11:25 6/20 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative DWN

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70956

Well Name & No. Fisher #1-3 Test No. 4 Date 6/20/23
 Company Downing Nelson Oil Company, Inc Elevation 3233 KB 3222 GL
 Address 111 W 10th Hays, KS, 67601
 Co. Rep / Geo Marc Downing Rig Duke #5
 Location: Sec. 3 Twp 5s Rge. 36w Co. Rawlins State K5

Interval Tested 4591-4630 Zone Tested Cherokee Sand
 Anchor Length 39 Drill Pipe Run 4421 Mud Wt. 9.4
 Top Packer Depth 4586 Drill Collars Run 174 Vis 70
 Bottom Packer Depth 4591 Wt. Pipe Run 0 WL 8.8
 Total Depth 4630 Chlorides 900 ppm System LCM 4#

Blow Description IF-Strong surface blow, Built to BDB in 7 minutes; Final built to 18"
IS-Weak surface blow, Built to 3" in 9 minutes; Final built to 5"
FF-Strong surface blow, Built to BOB in 9 minutes; Final built to 22"
IS-Weak surface blow, Built to 1" in 10 minutes; Final built to ~~18"~~ 6 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>GO</u>	<u>70</u>	<u>30</u>		
<u>252</u>	<u>GOCM</u>	<u>30</u>	<u>65</u>		<u>5</u>
<u>189</u>	<u>GOCM</u>	<u>15</u>	<u>70</u>		<u>15</u>
<u>116</u>	<u>GOC WM</u>	<u>10</u>	<u>50</u>	<u>5</u>	<u>35</u>
<u>58</u>	<u>GOC WM</u>	<u>10</u>	<u>25</u>	<u>15</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 867/693'6 BHT 148 Gravity _____ API RW 27.4 @ 86 °F Chlorides 15000 ppm

Initial Hydrostatic 2239 Test 1950 Ruined Shale Packer _____
 Initial Flow 62 to 134 Jars 300 Ruined Packer _____
 Initial Shut-In 1029 Circ Sub _____ Hotel _____
 Final Flow 155 to 309 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 994 Mileage 126 220.50 Accessibility _____
 Final Hydrostatic 2274 Sampler _____ Gas Sample _____
 T-On Location 9:00 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 9:09 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 11:39 Extra Packer _____ Total 2470.50
 Final Flow 45 T-Pulled 14:09 Extra Recorder _____ Tool Loaded 6/20 @ 19:30
 Final Shut-In 60 T-Out 17:25 Day Standby _____ MP/DST Disc't _____

Comments Safety Joint, loaded tool after test.

Approved By _____ Our Representative [Signature]

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Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Downing-Nelson Oil Co., Inc.		Elevation 3233	
Lease Fisher		DF 3231	
API # 15-153-21312-0000		GL 3222	
Field Wildcat		Casing Record	
Location 1584' FSL & 330' FEL		Surface 8 5/8" @ 478'	
Sec. 3 Twp. 5s Rge. 36w		Production 5 1/2" @ 4819'	
County Rawlins State Kansas		Electrical Surveys	
Formation		CNDL, DIL	
Sample tops		MEL, Sonic	
Log Tops		Datum	
Strat Comp		Struct Comp	
Top Anhydrite	2948	2946	+287
Base Anhydrite	2987	2984	+249
Foraker	3623	3615	-382
Topeka	3908	3900	-667
Heebner	4078	4071	-838
LKC	4123	4118	-885
Stark	4318	4313	-1080
BKC	4371	4364	-1131
Pawnee	4495	4490	-1257
Cherokee Sh	4572	4566	-1333
Miss	4792	4785	-1552
			+74
Total Depth	4850	4845	-1612
Reference Well For Structural Comparison		McCoy Petroleum Corp - Fisher 'A' #1-3	
710' FSL & 735' FEL		Sec. 3-5s-36w	

Drilling Contractor	Duke Drilling, Rig #5
Commenced	6-9-23
Completed	6-21-23
Samples Saved From	3900 To
Drilling Time Kept From	3500 To
Samples Examined From	3900 To
Geological Supervision From	3900 To

KB	Elevation
DF	3233
GL	3222

Surface	8 5/8" @ 478'
Production	5 1/2" @ 4819'
Electrical Surveys	CNDL, DIL
MEL, Sonic	

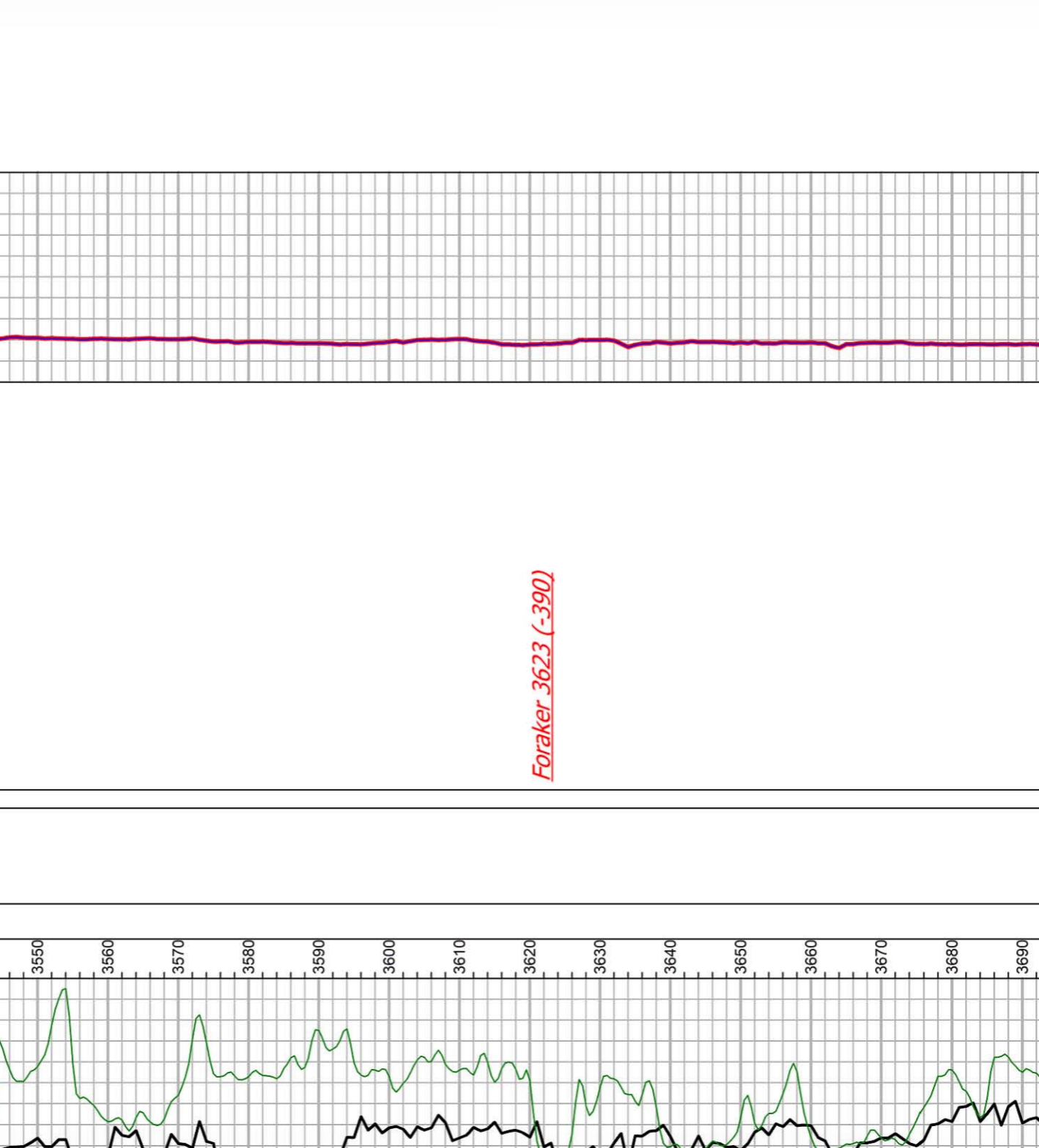
Top Anhydrite	2948	2946	+287
Base Anhydrite	2987	2984	+249
Foraker	3623	3615	-382
Topeka	3908	3900	-667
Heebner	4078	4071	-838
LKC	4123	4118	-885
Stark	4318	4313	-1080
BKC	4371	4364	-1131
Pawnee	4495	4490	-1257
Cherokee Sh	4572	4566	-1333
Miss	4792	4785	-1552
Total Depth	4850	4845	-1612

ROCK TYPES	shale, gm	Carbon Sh	Sh
	shale, red	anhydrite	Sh

ACCESSORIES	STRONGER	Dolomite	Shale
	Shale	Shale	Shale

MISC	DST Int	DST alt	Oil Pipe
	Daily Report	Digital Photo	Document
	Folder	Link	Vertical Log File
	Horizontal Log File	Core Log File	Drill Cuttings Rpt

OIL SHOWS	Even Sh	Spotted Sh - 75%	Spotted Sh - 25%	Questionable Sh	Fluorescence
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Depth (ft)	Geological Descriptions
3900	LS: tan, f-m-xin, f-m-xin, f-m-xin. No vis por and v dms. Totally barren, no od.
3910	LS: ala
3920	Sh: Black Carb
3930	Sh: gry
3940	Sh: gry
3950	Sh: gry
3960	Sh: gry
3970	Sh: gry
3980	Sh: gry
3990	Sh: gry
4000	Sh: gry
4010	Sh: gry
4020	Sh: gry
4030	Sh: gry
4040	Sh: gry
4050	Sh: gry
4060	Sh: gry
4070	Sh: gry
4080	Sh: gry
4090	Sh: gry
4100	Sh: gry
4110	Sh: gry
4120	Sh: gry
4130	Sh: gry
4140	Sh: gry
4150	Sh: gry
4160	Sh: gry
4170	Sh: gry
4180	Sh: gry
4190	Sh: gry
4200	Sh: gry
4210	Sh: gry
4220	Sh: gry
4230	Sh: gry
4240	Sh: gry
4250	Sh: gry
4260	Sh: gry
4270	Sh: gry
4280	Sh: gry
4290	Sh: gry
4300	Sh: gry
4310	Sh: gry
4320	Sh: gry
4330	Sh: gry
4340	Sh: gry
4350	Sh: gry
4360	Sh: gry
4370	Sh: gry
4380	Sh: gry
4390	Sh: gry
4400	Sh: gry
4410	Sh: gry
4420	Sh: gry
4430	Sh: gry
4440	Sh: gry
4450	Sh: gry
4460	Sh: gry
4470	Sh: gry
4480	Sh: gry
4490	Sh: gry
4500	Sh: gry
4510	Sh: gry
4520	Sh: gry
4530	Sh: gry
4540	Sh: gry
4550	Sh: gry
4560	Sh: gry
4570	Sh: gry
4580	Sh: gry
4590	Sh: gry
4600	Sh: gry
4610	Sh: gry
4620	Sh: gry
4630	Sh: gry
4640	Sh: gry
4650	Sh: gry
4660	Sh: gry
4670	Sh: gry
4680	Sh: gry
4690	Sh: gry
4700	Sh: gry
4710	Sh: gry
4720	Sh: gry
4730	Sh: gry
4740	Sh: gry
4750	Sh: gry
4760	Sh: gry
4770	Sh: gry
4780	Sh: gry
4790	Sh: gry
4800	Sh: gry
4810	Sh: gry
4820	Sh: gry
4830	Sh: gry
4840	Sh: gry
4850	Sh: gry

Depth (ft)	Geological Descriptions
4850	Sh: red, washes red, arg in prt.
4840	LS: wht, f-m-xin, fr amt qtz and pyt inclusions. Gd vug por w/ scat fr-gd sat stn w/ fr-gd SFO in por, invy. No od. Trng less show w/ depth.
4830	LS: trng wht-tan, f-m-xin. Mostly all pr por and dms, scat show ala, poss carry.
4820	LS: trng tan-bm, f-m-xin. No vis por and v dms. Totally barren, no od.
4810	LS: ala
4800	Sh: Black Carb
4790	Sh: gry
4780	Sh: gry
4770	Sh: gry
4760	Sh: gry
4750	Sh: gry
4740	Sh: gry
4730	Sh: gry
4720	Sh: gry
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4690	Sh: gry
4680	Sh: gry
4670	Sh: gry
4660	Sh: gry
4650	Sh: gry
4640	Sh: gry
4630	Sh: gry
4620	Sh: gry
4610	Sh: gry
4600	Sh: gry
4590	Sh: gry
4580	Sh: gry
4570	Sh: gry
4560	Sh: gry
4550	Sh: gry
4540	Sh: gry
4530	Sh: gry
4520	Sh: gry
4510	Sh: gry
4500	Sh: gry
4490	Sh: gry
4480	Sh: gry
4470	Sh: gry
4460	Sh: gry
4450	Sh: gry
4440	Sh: gry
4430	Sh: gry
4420	Sh: gry
4410	Sh: gry
4400	Sh: gry
4390	Sh: gry
4380	Sh: gry
4370	Sh: gry
4360	Sh: gry
4350	Sh: gry
4340	Sh: gry
4330	Sh: gry
4320	Sh: gry
4310	Sh: gry
4300	Sh: gry
4290	Sh: gry
4280	Sh: gry
4270	Sh: gry
4260	Sh: gry
4250	Sh: gry
4240	Sh: gry
4230	Sh: gry
4220	Sh: gry
4210	Sh: gry
4200	Sh: gry
4190	Sh: gry
4180	Sh: gry
4170	Sh: gry
4160	Sh: gry
4150	Sh: gry
4140	Sh: gry
4130	Sh: gry
4120	Sh: gry
4110	Sh: gry
4100	Sh: gry
4090	Sh: gry
4080	Sh: gry
4070	Sh: gry
4060	Sh: gry
4050	Sh: gry
4040	Sh: gry
4030	Sh: gry
4020	Sh: gry
4010	Sh: gry
4000	Sh: gry
3990	Sh: gry
3980	Sh: gry
3970	Sh: gry
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4490	Sh: gry
4480	Sh: gry
4470	Sh: gry
4460	Sh: gry
4450	Sh: gry
4440	Sh: gry
4430	Sh: gry
4420	Sh: