

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) (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	STEFFEN 1-4
Doc ID	1725790

Tops

Name	Top	Datum
Top Anhydrite	1278'	+856
Base Anhydrite	1303'	+831
Herrington	2228'	-94
Heebner	3634'	-1500
LKC	3691'	-1557
BKC	3999'	-1865
Fort Scott	4180'	-2046
Cherokee Shale	4194'	-2060
Mississippi	4255'	-2121
Osage	4278'	-2144



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 36260

CUSTOMER: Downing + Nelson Oil
WELL: Steffen 1-4
DATE: 08/01/23
PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
325		2				Standard Cement	175	SKS			16.00	2800.00
284		2				Calseal	16	SKS			50.00	800.00
283		2				Salt	950	LBS			0.25	237.50
292		2				Halad 322	83	LBS			9.00	747.00
276		2				Flocele	44	LBS			4.00	176.00
582		2				Minimum Drayage Charge	1	EA			350.00	350.00
581		2				Cement	175	SKS			2.00	350.00

MILEAGE CHARGE: 183.27
TOTAL WEIGHT: 274.91
LOADED MILES: 30
CUBIC FEET: 274.91

CONTINUATION TOTAL: 5,460.50

JOB LOG

SWIFT Services, Inc.

DATE 08/01/23 PAGE NO. 1

CUSTOMER Downing + Nelson WELL NO. 1-4 LEASE Steffen JOB TYPE Long String TICKET NO. 36260

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	0005							On location w/Float Equipment
								RTD - 4283'
								Total Pipe Ran - 102 Jts 4283.6' of 5 1/2" x 14# Set at 4279'
								Shoe Jt - 21.28 Battle Plate - 4261.7
								Centralizers - 1, 3, 5, 7
								Basket - #6
	0215							Start Casing w/Float Equipment
	0400						800	Break Circulation on Bottom/Set shoe
	0500							Hook up to Swift
		2	7					Plug Rathole w/30 SKS
		2	5					Plug Mousehole w/20 SKS
		5	12				500	Pump Mud Flush
		5	20				500	Pump KCL Spacers
	0530	4					500	Start Cement
		4	36				1Kc	Finish Cement, Shut Down
		3	3					Drop Plug, Washout Pump & Lines
		9					400	Start Displacement
		8	80				600	Catch Pressure
		7	102				1100	Lift
	0600	6	104				1800	Land Plug
								Release Truck, Dry
								Wash up
								Rack up
	0615							Job Complete

Thanks
 Jon, Joe, Brett



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Steffen #1-4

4-21S-20W Pawnee, KS

Start Date: 2023.07.30 @ 02:15:00

End Date: 2023.07.30 @ 09:11:15

Job Ticket #: 70822 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.02 @ 11:44:43

Downing Nelson Oil Co
4-21S-20W Pawnee, KS
Steffen #1-4
DST # 1
Miss
2023.07.30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70822

DST#: 1

ATTN: Marc Downing

Test Start: 2023.07.30 @ 02:15:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:50:15

Time Test Ended: 09:11:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 4256.00 ft (KB) To 4264.00 ft (KB) (TVD)

Reference Elevations: 2134.00 ft (KB)

Total Depth: 4264.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 34.20 psig @ 4257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.07.30

End Date:

2023.07.30

Last Calib.:

2023.07.30

Start Time:

02:15:05

End Time:

09:11:14

Time On Btm:

2023.07.30 @ 04:47:30

Time Off Btm:

2023.07.30 @ 07:09:45

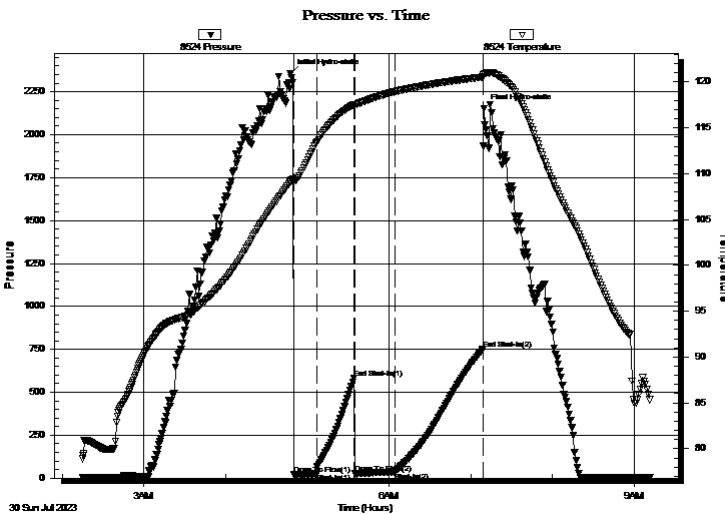
TEST COMMENT: IF-15- BOB in 9 min, built to 15"

SI1-30- No return

FF-30- BOB in 18 min, built to 14.36"

SI2-60- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2356.93	109.13	Initial Hydro-static
3	21.48	109.11	Open To Flow (1)
20	25.81	113.38	Shut-In(1)
47	583.25	117.56	End Shut-In(1)
48	26.05	117.47	Open To Flow (2)
77	34.20	118.95	Shut-In(2)
142	749.25	120.53	End Shut-In(2)
143	2151.19	120.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 10% gas 10% oil 80% mud	0.56
0.00	468' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70822

DST#: 1

ATTN: Marc Downing

Test Start: 2023.07.30 @ 02:15:00

Tool Information

Drill Pipe:	Length: 4231.00 ft	Diameter: 3.80 inches	Volume: 59.35 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.35 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4256.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	39.00 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			4226.00	
shut In Tool	5.00			4231.00	
hydraulic tool	5.00			4236.00	
Jars	5.00			4241.00	
EM Tool	3.00			4244.00	
Safety Joint	3.00			4247.00	
Packer	5.00			4252.00	31.00 Bottom Of Top Packer
Packer	4.00			4256.00	
Stubb	1.00			4257.00	
Recorder	0.00	6625	Inside	4257.00	
Recorder	0.00	8524	Outside	4257.00	
perforations	3.00			4260.00	
Bullnose	4.00			4264.00	8.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70822

DST#: 1

ATTN: Marc Downing

Test Start: 2023.07.30 @ 02:15:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	GOCM 10% gas 10% oil 80% mud	0.561
0.00	468' GIP	0.000

Total Length: 40.00 ft

Total Volume: bbl

Num Fluid Samples: 0

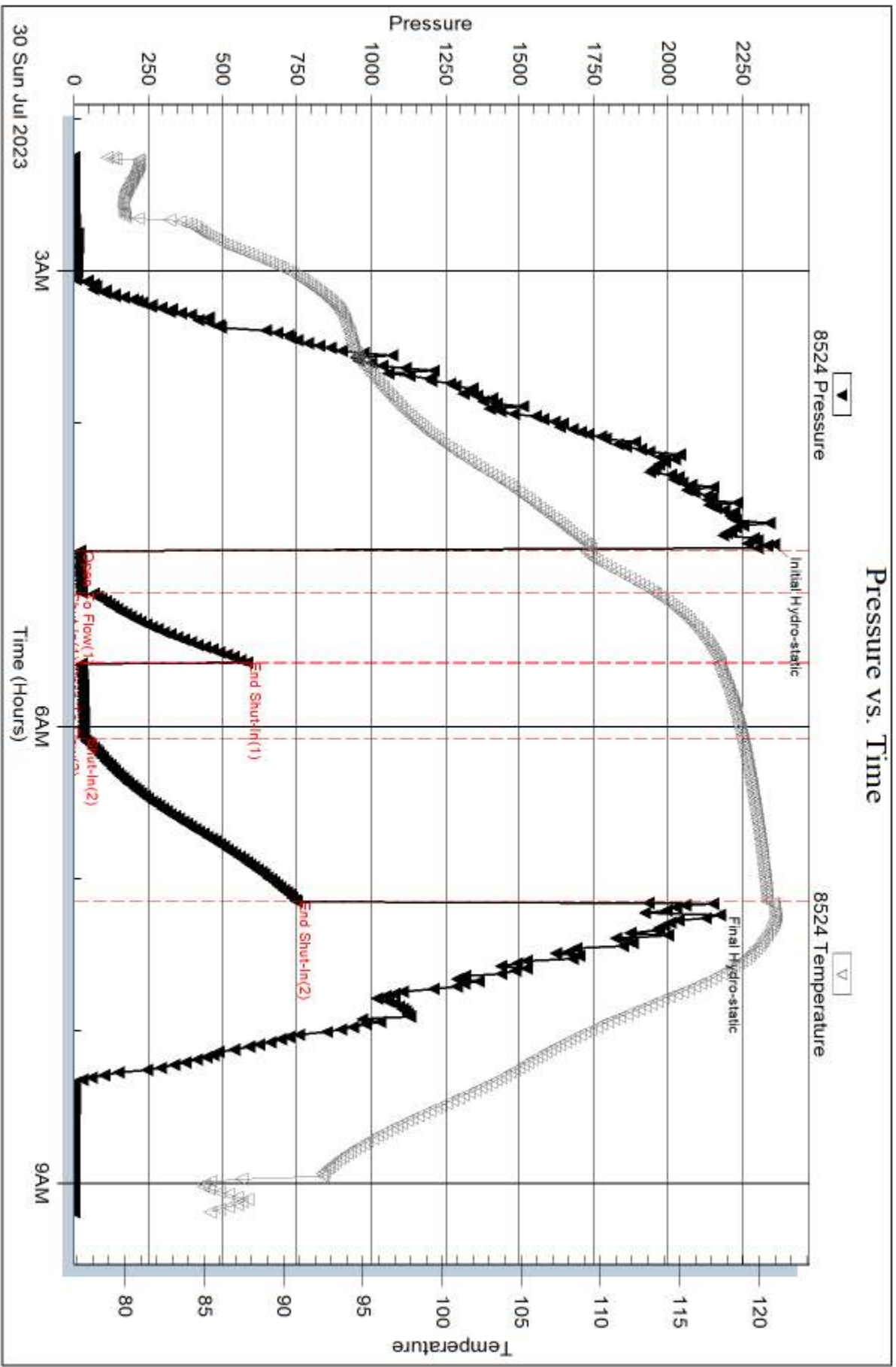
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM



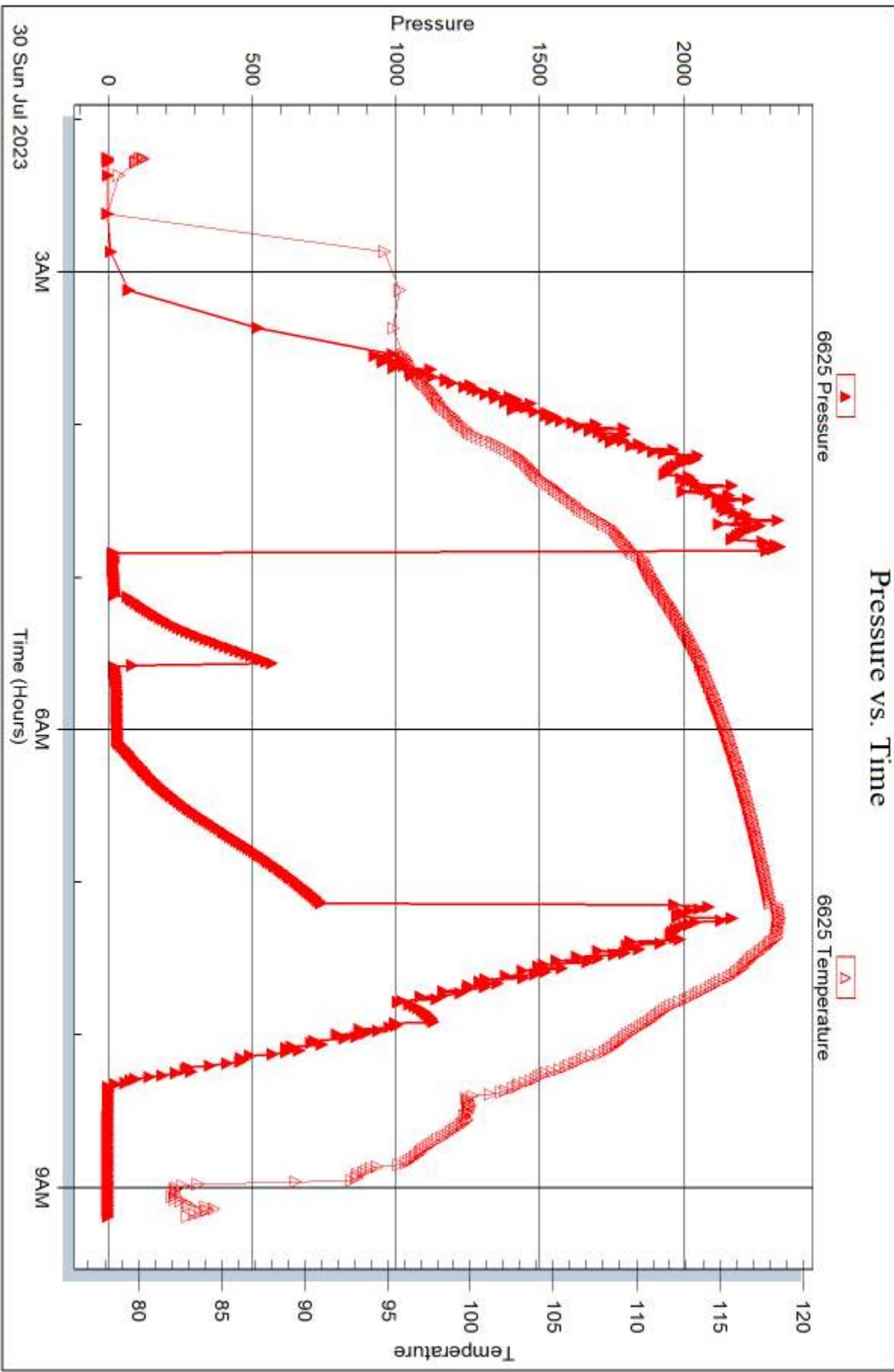
Serial #: 6625

Inside

Dow n ing Nelson Oil Co

Steffen #1-4

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Steffen #1-4

4-21S-20W Pawnee, KS

Start Date: 2023.07.30 @ 16:56:00

End Date: 2023.07.31 @ 00:01:15

Job Ticket #: 70823 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.02 @ 11:43:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70823

DST#: 2

ATTN: Marc Downing

Test Start: 2023.07.30 @ 16:56:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:29:00
 Time Test Ended: 00:01:15
 Interval: **4264.00 ft (KB) To 4277.00 ft (KB) (TVD)**
 Total Depth: 4277.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2134.00 ft (KB)
 2126.00 ft (CF)
 KB to GR/CF: 8.00 ft

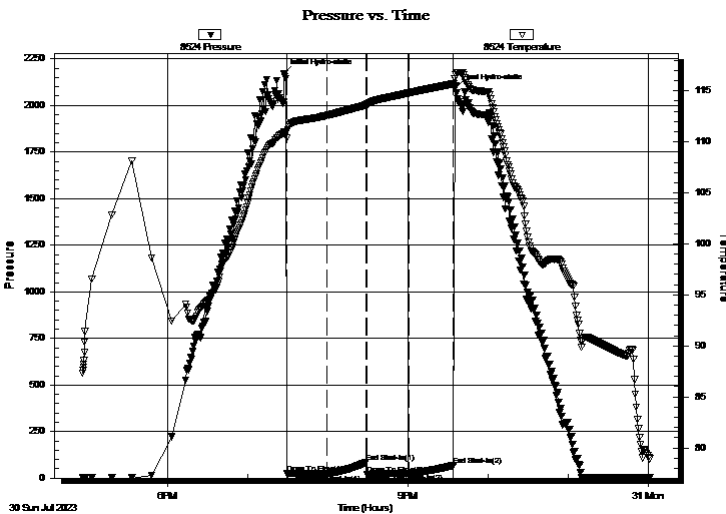
Serial #: 8524

Outside

Press@RunDepth: 23.91 psig @ 4265.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.07.30 End Date: 2023.07.31 Last Calib.: 2023.07.31
 Start Time: 16:56:05 End Time: 00:01:14 Time On Btm: 2023.07.30 @ 19:27:15
 Time Off Btm: 2023.07.30 @ 21:35:00

TEST COMMENT: IF-30- Built to 3/4"
 SI1-30- No return
 FF-30- WSB
 SI2-30- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.04	110.97	Initial Hydro-static
2	23.83	110.35	Open To Flow (1)
33	22.62	112.60	Shut-In(1)
62	84.71	113.60	End Shut-In(1)
62	18.93	113.60	Open To Flow (2)
94	23.91	114.79	Shut-In(2)
127	68.78	115.70	End Shut-In(2)
128	2090.67	116.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100%	0.56

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70823

DST#: 2

ATTN: Marc Dow ning

Test Start: 2023.07.30 @ 16:56:00

GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:00

Time Test Ended: 00:01:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4264.00 ft (KB) To 4277.00 ft (KB) (TVD)

Reference Elevations: 2134.00 ft (KB)

Total Depth: 4277.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 4265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.07.30 End Date: 2023.07.30

Last Calib.: 2023.07.31

Start Time: 16:56:05 End Time: 23:57:26

Time On Btm:

Time Off Btm:

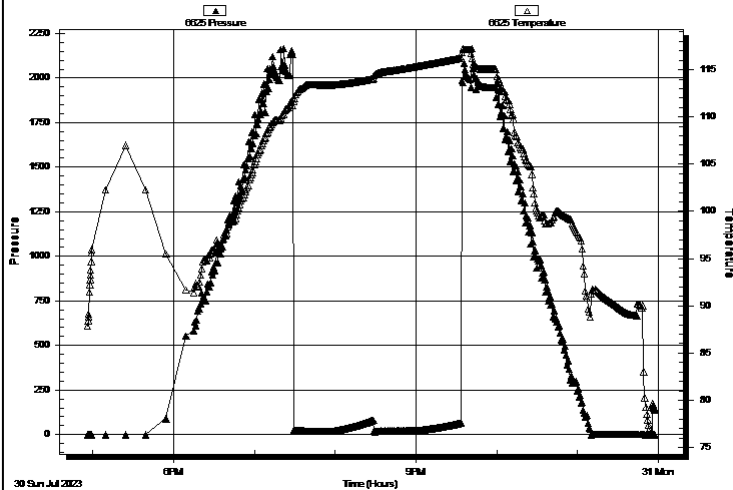
TEST COMMENT: IF-30- Built to 3/4"

SI1-30- No return

FF-30- WSB

SI2-30- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100%	0.56

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

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70823

DST#: 2

ATTN: Marc Dow ning

Test Start: 2023.07.30 @ 16:56:00

Tool Information

Drill Pipe:	Length: 4261.00 ft	Diameter: 3.80 inches	Volume: 59.77 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 59.77 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4264.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	13.00 ft				
Tool Length:	44.00 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
Change Over Sub	1.00			4234.00	
shut In Tool	5.00			4239.00	
hydraulic tool	5.00			4244.00	
Jars	5.00			4249.00	
EM Tool	3.00			4252.00	
Safety Joint	3.00			4255.00	
Packer	5.00			4260.00	31.00 Bottom Of Top Packer
Packer	4.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	6625	Inside	4265.00	
Recorder	0.00	8524	Outside	4265.00	
perforations	8.00			4273.00	
Bullnose	4.00			4277.00	13.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70823

DST#: 2

ATTN: Marc Downing

Test Start: 2023.07.30 @ 16:56:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100%	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

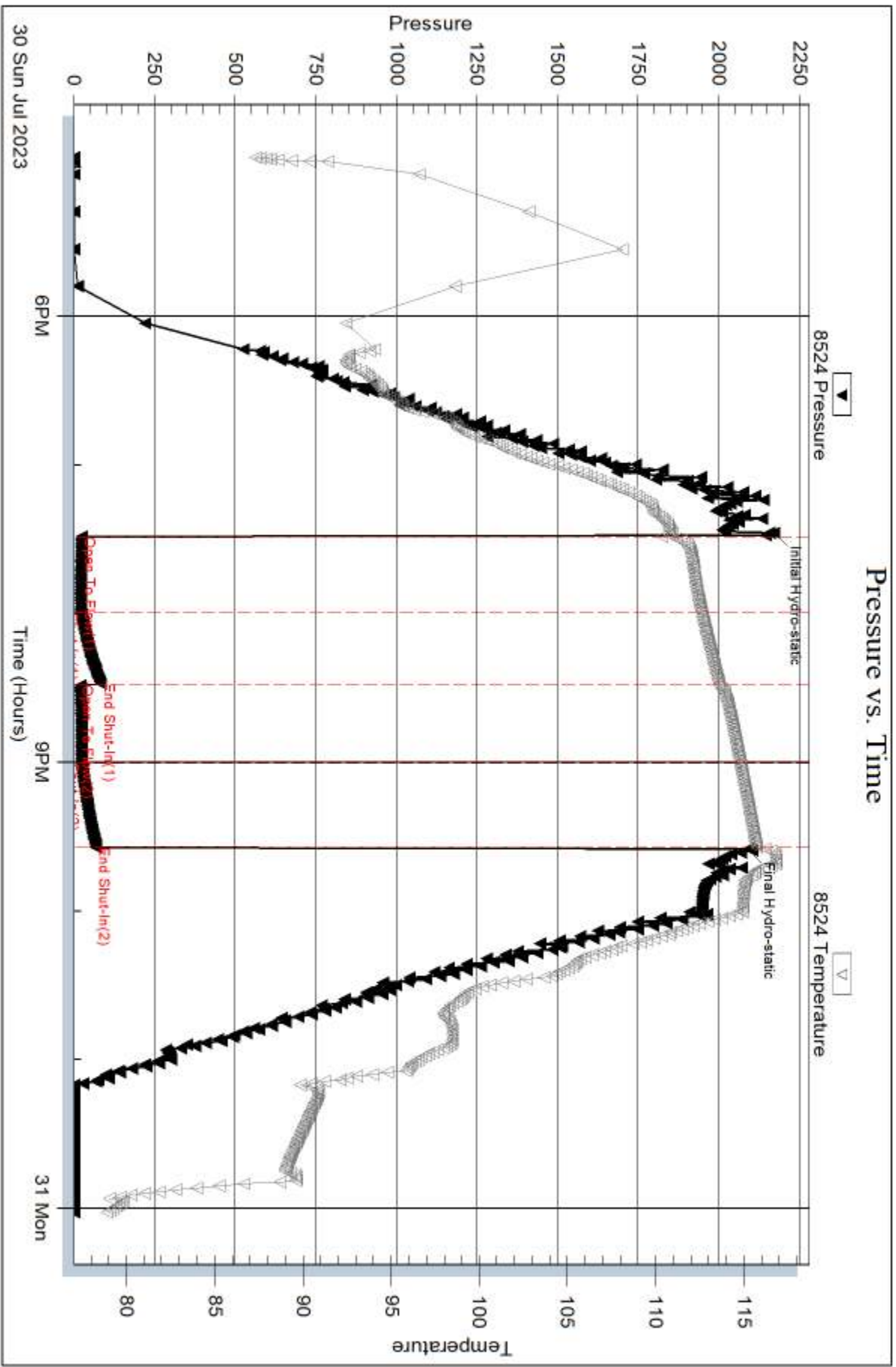
Recovery Comments: 1 1/2# LCM

Serial #: 8524

Outside Dow ning Nelson Oil Co

Steffen #1-4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 70823

Printed: 2023.08.02 @ 11:43:18

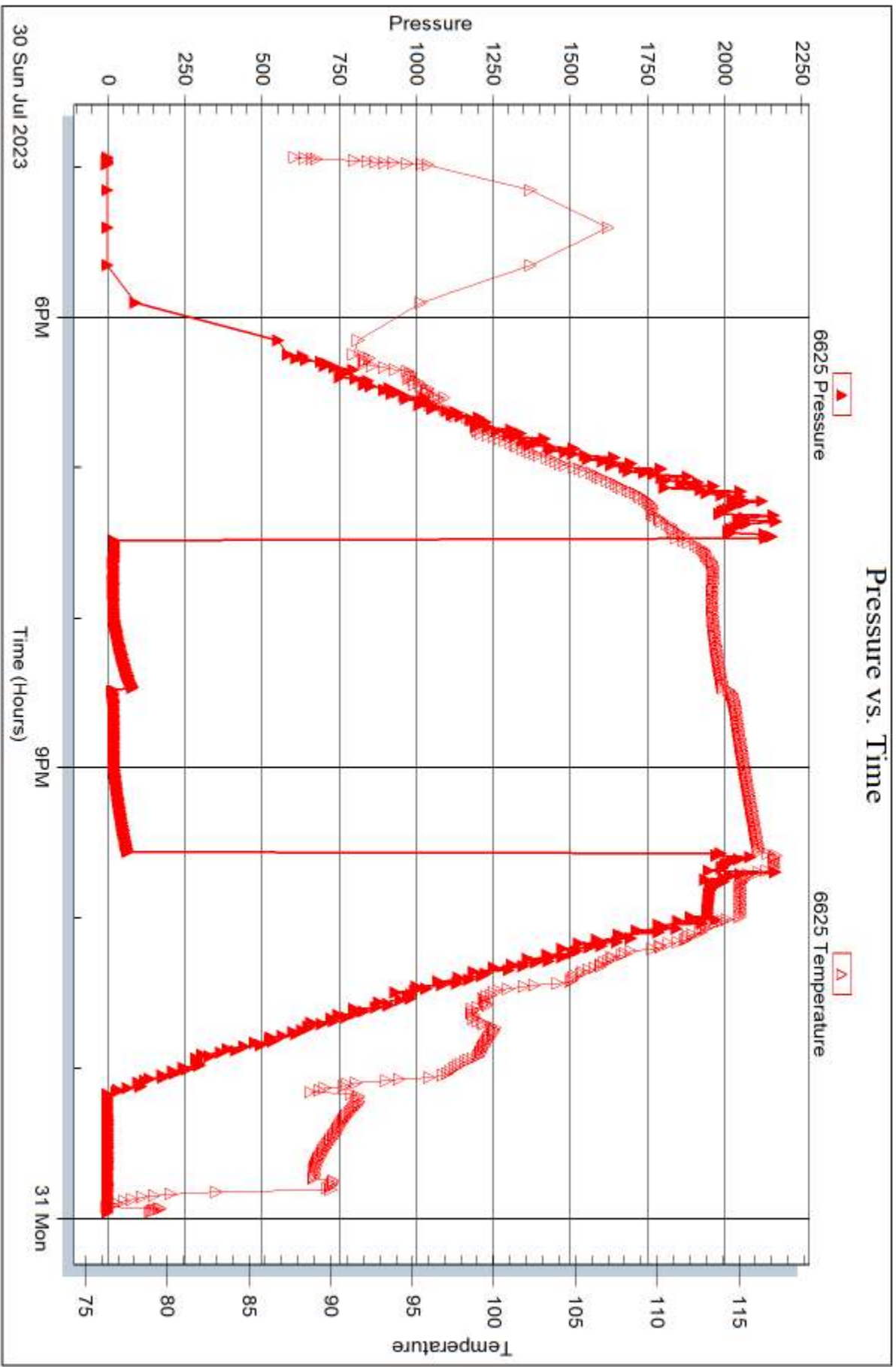
Serial #: 6625

Inside

Dow n ing Nelson Oil Co

Steffen #1-4

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Steffen #1-4

4-21S-20W Pawnee, KS

Start Date: 2023.07.31 @ 08:12:00

End Date: 2023.07.31 @ 14:28:23

Job Ticket #: 70824 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.02 @ 11:41:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70824

DST#: 3

ATTN: Marc Dow ning

Test Start: 2023.07.31 @ 08:12:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:59:38

Time Test Ended: 14:28:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4275.00 ft (KB) To 4283.00 ft (KB) (TVD)

Reference Elevations: 2134.00 ft (KB)

Total Depth: 4283.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: 134.83 psig @ 4276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.07.31

End Date:

2023.07.31

Last Calib.:

2023.07.31

Start Time:

08:12:05

End Time:

14:28:22

Time On Btm:

2023.07.31 @ 09:58:53

Time Off Btm:

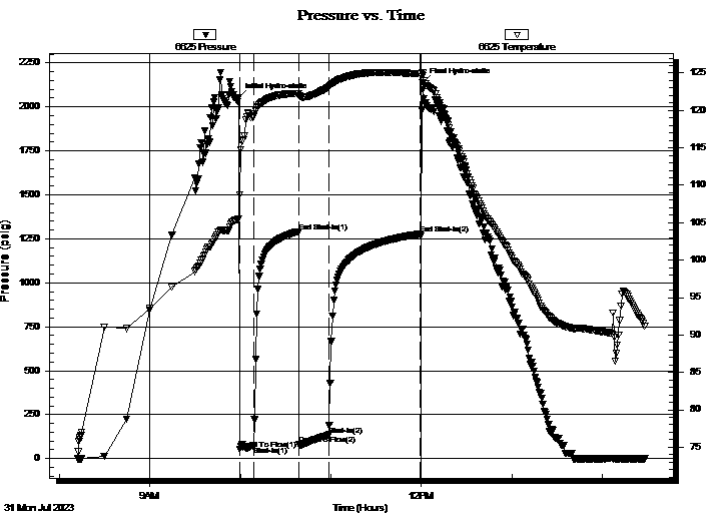
2023.07.31 @ 12:00:53

TEST COMMENT: IF-10- BOB in 2 min, built to 70.15" mud dropped 10' w hen tool opened

SI1-30- No return

FF-20- BOB in 1 min, built to 121.15"

SI2-60- 6 1/4" return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.78	105.54	Initial Hydro-static
1	54.69	108.71	Open To Flow (1)
10	72.87	119.15	Shut-In(1)
40	1290.93	122.26	End Shut-In(1)
41	81.91	121.98	Open To Flow (2)
60	134.83	123.11	Shut-In(2)
121	1276.74	124.88	End Shut-In(2)
122	2138.92	124.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GWHMCO 5% gas 50% oil 5% water	40.28d
120.00	GMWCO 40% gas 30% oil 15% water	51.68d
134.00	GMCW 10% gas 10% mud 80% water	1.88
0.00	932' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70824

DST#: 3

ATTN: Marc Dow ning

Test Start: 2023.07.31 @ 08:12:00

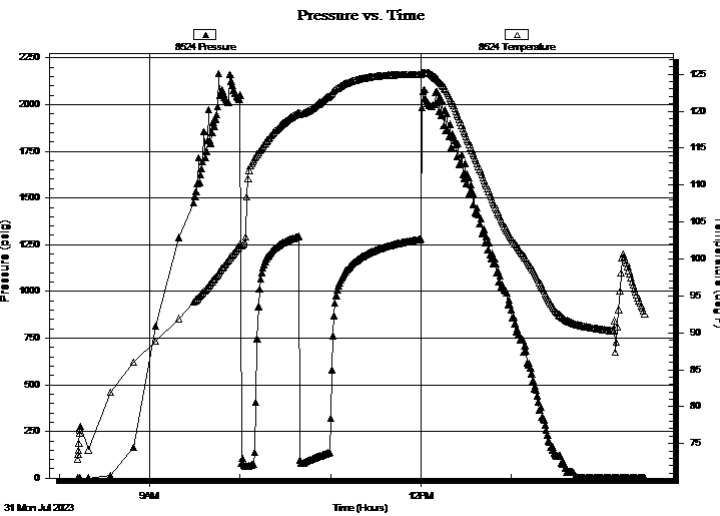
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:59:38
 Time Test Ended: 14:28:23
 Interval: **4275.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Total Depth: 4283.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2134.00 ft (KB)
 2126.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: psig @ 4276.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.07.31 End Date: 2023.07.31 Last Calib.: 2023.07.31
 Start Time: 08:12:05 End Time: 14:28:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-10- BOB in 2 min, built to 70.15" mud dropped 10' w hen tool opened
 SI1-30- No return
 FF-20- BOB in 1 min, built to 121.15"
 SI2-60- 6 1/4" return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GWHMCO 5% gas 50% oil 5% w ater 40% 0.28d	
120.00	GMWCO 40% gas 30% oil 15% w ater 51.68d	
134.00	GMCW 10% gas 10% mud 80% w ater 1.88	
0.00	932' 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

Downing Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70824

DST#: 3

ATTN: Marc Downing

Test Start: 2023.07.31 @ 08:12:00

Tool Information

Drill Pipe:	Length: 4261.00 ft	Diameter: 3.80 inches	Volume: 59.77 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.77 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4275.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4245.00	
shut In Tool	5.00			4250.00	
hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
EM Tool	3.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	31.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	6625	Inside	4276.00	
Recorder	0.00	8524	Outside	4276.00	
perforations	3.00			4279.00	
Bullnose	4.00			4283.00	8.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

4-21S-20W Pawnee, KS

PO Box 1019
Hays, KS 67601

Steffen #1-4

Job Ticket: 70824

DST#: 3

ATTN: Marc Dow ning

Test Start: 2023.07.31 @ 08:12:00

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:

9000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	GWHMCO 5% gas 50% oil 5% w ater 40% mu	0.281
120.00	GMWCO 40% gas 30% oil 15% w ater 15% m	1.683
134.00	GMCW 10% gas 10% mud 80% w ater	1.880
0.00	932' GIP	0.000

Total Length: 274.00 ft

Total Volume: 3.844 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1 1/2# LCM

Serial #: 6625

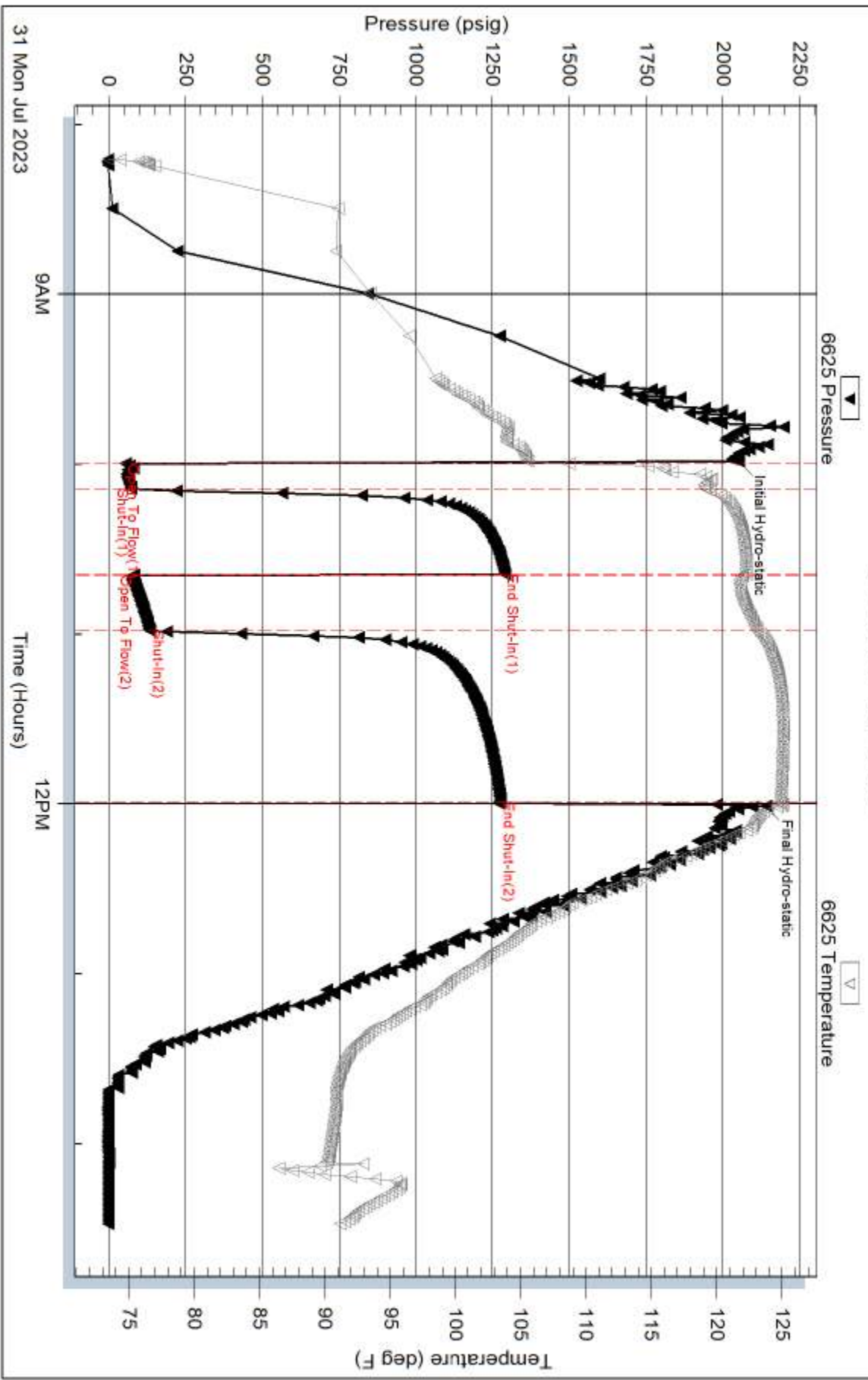
Inside

Downing Nelson Oil Co

Steffen #1-4

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 70824

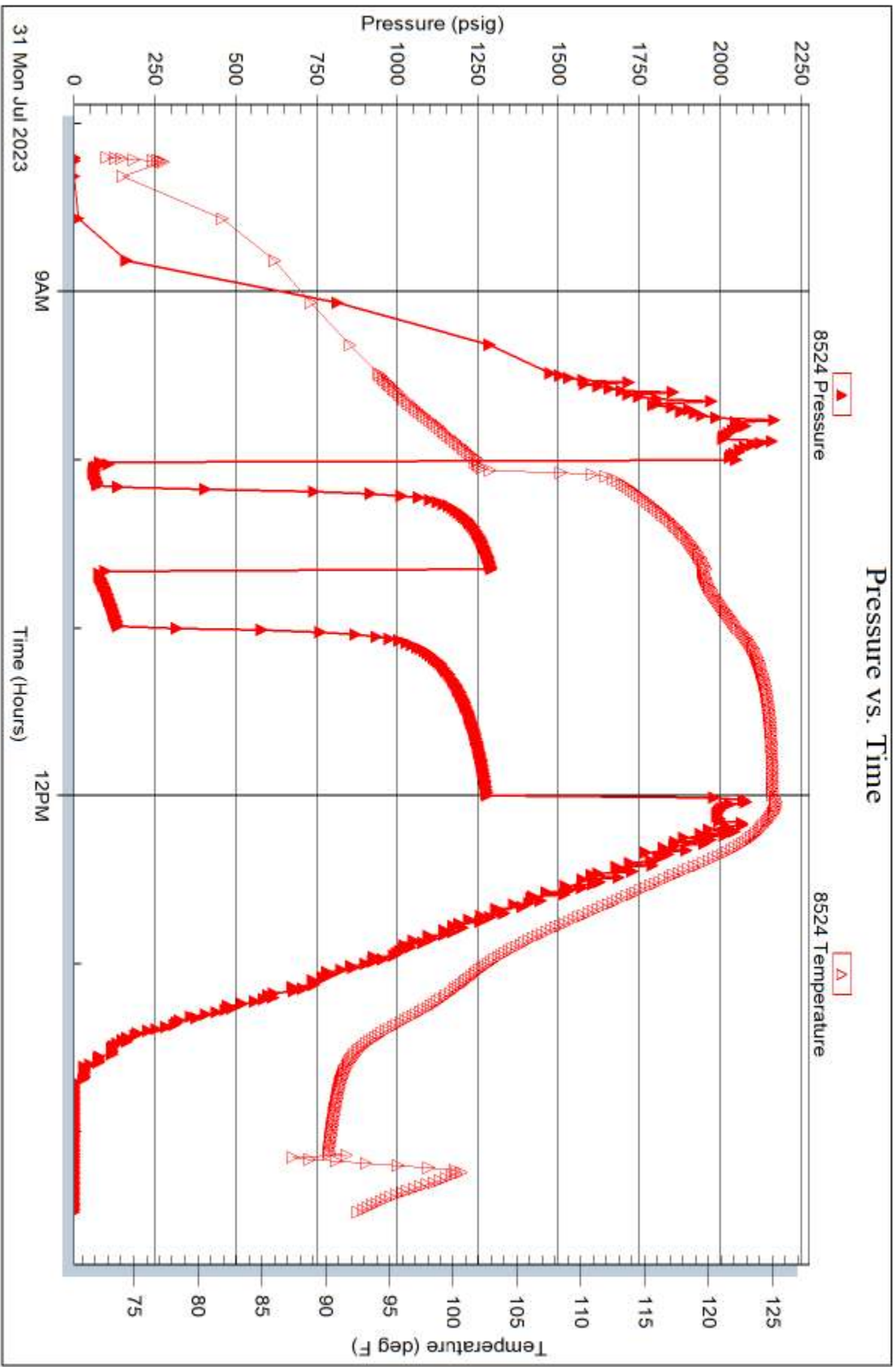
Printed: 2023.08.02 @ 11:41:59

Serial #: 8524

Outside Dow ning Nelson Oil Co

Steffen #1-4

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 70824

Printed: 2023.08.02 @ 11:41:59



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **70822**

Well Name & No. Steffan #1-4 Test No. 1 Date 7/30/23
 Company Downing Nelson Oil Company Inc Elevation 2134 KB 2126 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo Marc Downing Rig Discovery Rig #2
 Location: Sec. 4 Twp 21S Rge. 20W Co. Rush State KS

Interval Tested 4256-4264 Zone Tested MISS
 Anchor Length 8 Drill Pipe Run 4231 Mud Wt. 9.0
 Top Packer Depth 4251 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 4256 Wt. Pipe Run 0 WL 9.2
 Total Depth 4264 Chlorides 8600 ppm System LCM 2#

Blow Description IF-BOB in 9 min built to 15"
S12- No return
EF- BOB in 18 min built to 14.36"

S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>60CM</u>	<u>10%</u>	<u>10%</u>	<u>80%</u>	<u>mud</u>
Rec	Feet of <u>468 GIP</u>	%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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40' BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2357 Test 1950 Ruined Shale Packer _____
 Initial Flow 21 to 24 Jars 300 Ruined Packer _____
 Initial Shut-In 583 Circ Sub _____ Hotel _____
 Final Flow 24 to 34 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 749 Mileage 112 ¹⁹⁶ Accessibility _____
 Final Hydrostatic 2151 Sampler _____ Gas Sample _____
 T- On Location 7:00 7/29 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 02:45 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 04:50 Extra Packer _____ Total 2446
 Final Flow 30 T-Pulled 07:05 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 09:12 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative D. J. D. J.

TriLOBITE TESTING INC. shall not be liable for damage of any kind of 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70823

Well Name & No. Steffan #14 Test No. 2 Date 7/30/23
 Company Downing Nelson Oil Company Elevation 2134 KB 2126 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo Marc Downing Rig Discovery Rig #2
 Location: Sec. 4 Twp 21S Rge. 20W Co. Pawnee State KS

Interval Tested 4264-4277 Zone Tested MISS
 Anchor Length 13 Drill Pipe Run 4261 Mud Wt. 9.1
 Top Packer Depth 4259 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4264 Wt. Pipe Run 0 WL 10.4
 Total Depth 4277 Chlorides 10000 ppm System LCM 1 1/2"

Blow Description IF Built to 3/4"
S12- No return
FF- WSB
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
10	Mud			100%	

Rec Total 10 BHT 116 Gravity _____ API RW _____ @ _____ *F Chlorides _____ ppm
 Initial Hydrostatic 2172 Test 1950 Ruined Shale Packer _____
 Initial Flow 24 to 23 Jars 300 Ruined Packer _____
 Initial Shut-In 85 Circ Sub _____ Hotel _____
 Final Flow 19 to 24 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 69 Mileage 112 ¹⁹⁶ Accessibility _____
 Final Hydrostatic 2091 Sampler _____ Gas Sample _____
 T- On Location 16:30 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 16:56 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 19:29 Extra Packer _____ Total 2446
 Final Flow 30 T-Pulled 21:29 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 30 T-Out 00:01 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative DWJ

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70824

Well Name & No. Steffan #1-4 Test No. 3 Date 7/31/23
 Company Downing Nelson Oil Company Elevation 2134 KB 2126 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo Marc Downing Rig Discovery Rig #2
 Location: Sec. 4 Twp 24S Rge. 20W Co. Pawnee State KS

Interval Tested ~~4200-4283~~ 4275-4283 Zone Tested Miss
 Anchor Length 8 Drill Pipe Run 4261 Mud Wt. 9.1
 Top Packer Depth ~~4270~~ 4270 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4275 Wt. Pipe Run 0 WL 10.4
 Total Depth ~~4283~~ 4283 Chlorides 10000 ppm System LCM 1/2#

Blow Description FF-BOB in 2 min built to 70.15"
S12- No return
FF-BOB in 1 min built to 121.15"
S12- 6 1/4" return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>AWHMC0</u>	<u>5</u>	<u>50</u>	<u>5</u>	<u>40</u>
<u>120</u>	<u>GMWCO</u>	<u>40</u>	<u>30</u>	<u>15</u>	<u>15</u>
<u>134</u>	<u>GMCW</u>	<u>10</u>	<u>0</u>	<u>80</u>	<u>10</u>
<u>932'</u>	<u>GIP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 274 BHT 125 Gravity _____ API RW .47 @ 103 °F Chlorides 9000 ppm
 Initial Hydrostatic 2051 Test 1950 Ruined Shale Packer _____
 Initial Flow 55 to 73 Jars 300 Ruined Packer _____
 Initial Shut-In 1291 Circ Sub _____ Hotel _____
 Final Flow 82 to 135 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 1277 Mileage 112 196 Accessibility _____
 Final Hydrostatic 2139 Sampler _____ Gas Sample _____
 T- On Location 07:30 Straddle _____ Oversized Hole _____
 Initial Flow 10 T-Started 08:12 Shale Packer _____ Sub Total -350
 Initial Shut-In 30 T-Open 10:00 Extra Packer _____ Total 2096
 Final Flow 20 T-Pulled 12:00 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 14:29 Day Standby _____ MP/DST Disc't _____

Comments _____

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	KB 2134
Lease Steffen	No. 1-4	DF 2132
API # 15-145-21889-0000	Surface	GL 2126
Field Wildcat	Casing Record	
Location 2161' FNL & 1155' FEL	Production	5 1/2" @ 4278'
Sec. 4 Twp. 21s Rge. 20w	Electrical Surveys	
County Pawnee State Kansas	None	
Formation	Sample tops	Log Tops
Top Anhydrite	1278	+856
Base Anhydrite	1303	+831
Herrington	2228	-94
Heebner	3634	-1500
LKC	3691	-1557
BKC	3999	-1865
Fort Scott	4180	-2046
Cherokee Sh	4194	-2060
Miss	4255	-2121
Oauge	4278	-2144
Total Depth	4283	-2149
Reference Well For Structural Comparison Falcon Exploration - Steffen #1		
C SW NE Sec. 4-21s-20w		

Drilling Contractor **Discovery Drilling, Rid #2**

Commenced **7-24-23** Completed **8-31-23**

Samples Saved From **3600** To **RTD**

Drilling Time Kept From **3550** To **RTD**

Samples Examined From **3600** To **RTD**

Geological Supervision From **3600** To **RTD**

Summary and Recommendations

Due to structural position, DST recovery, and good sample shows, it was decided to set 5 1/2" production casing for completion.

Respectfully Submitted,

Marc A. Downing

ROCK TYPES

shale, grt
shale, sh
shale, red

ACCESSORIES

Sh: black Carb

MINERAL

● Chert White

OTHER SYMBOLS

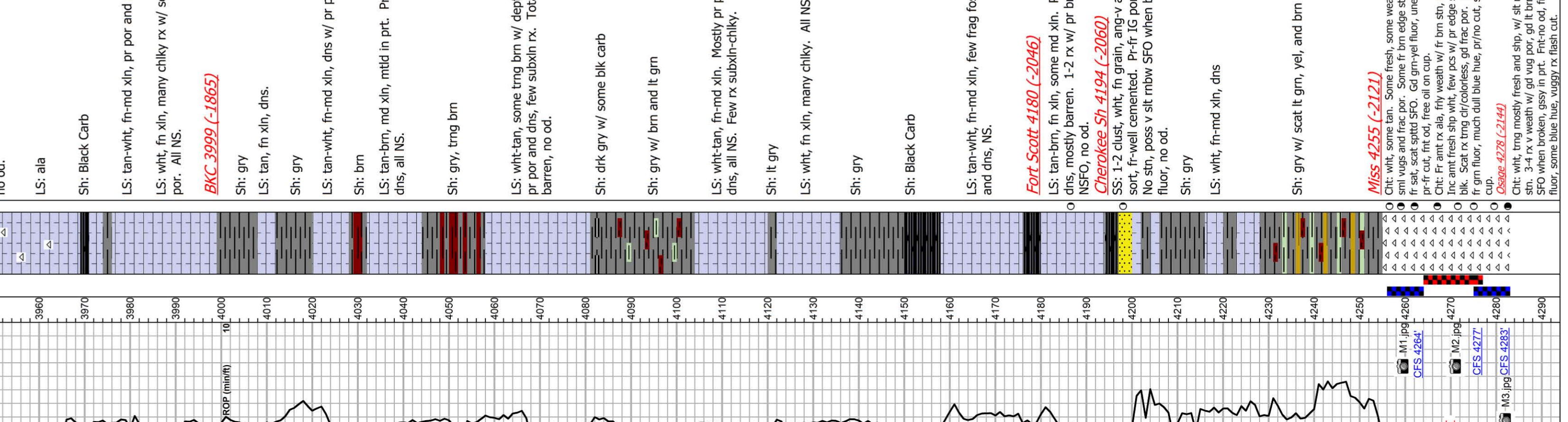
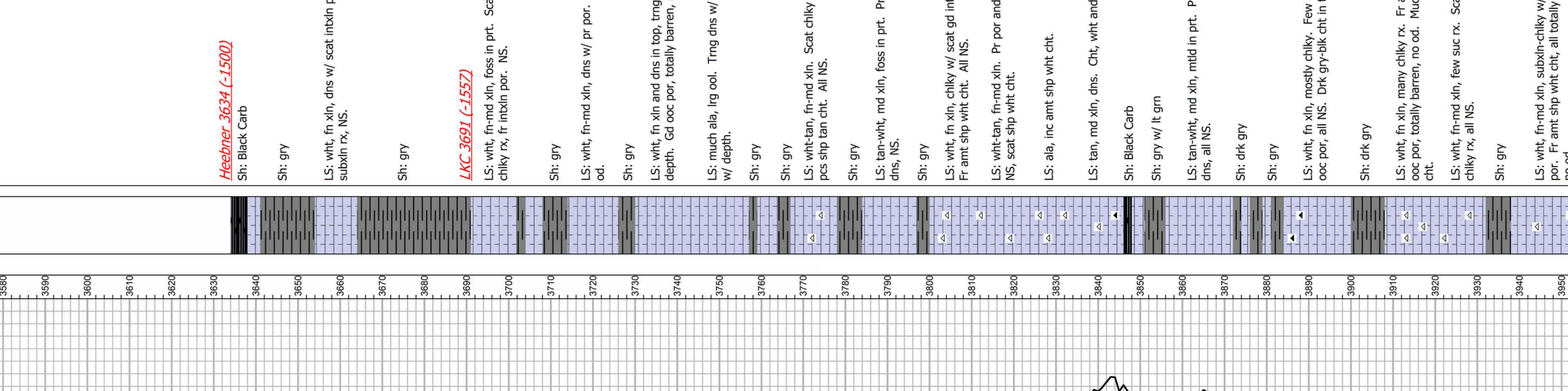
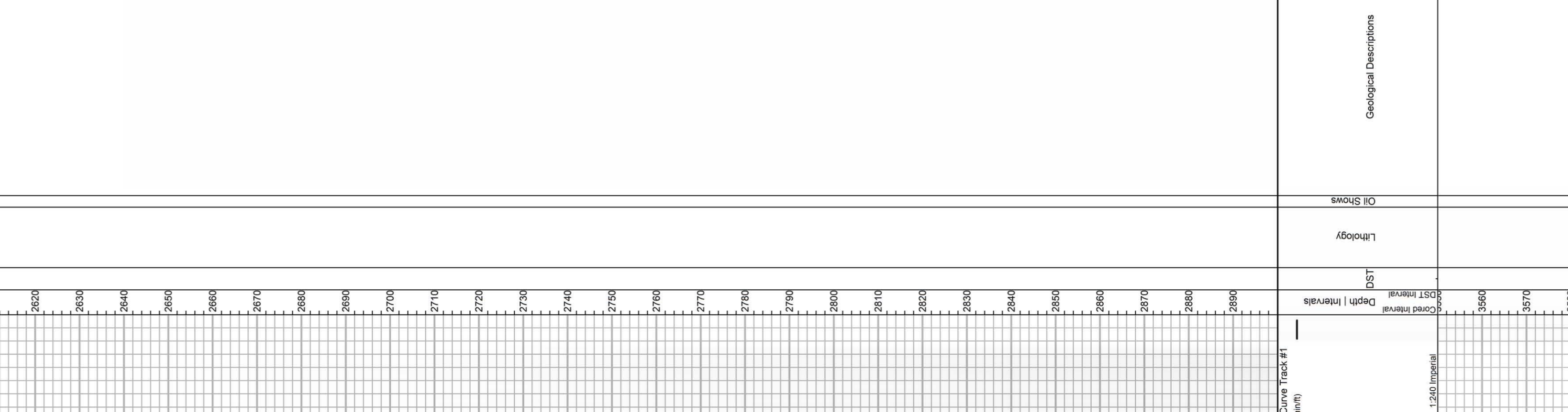
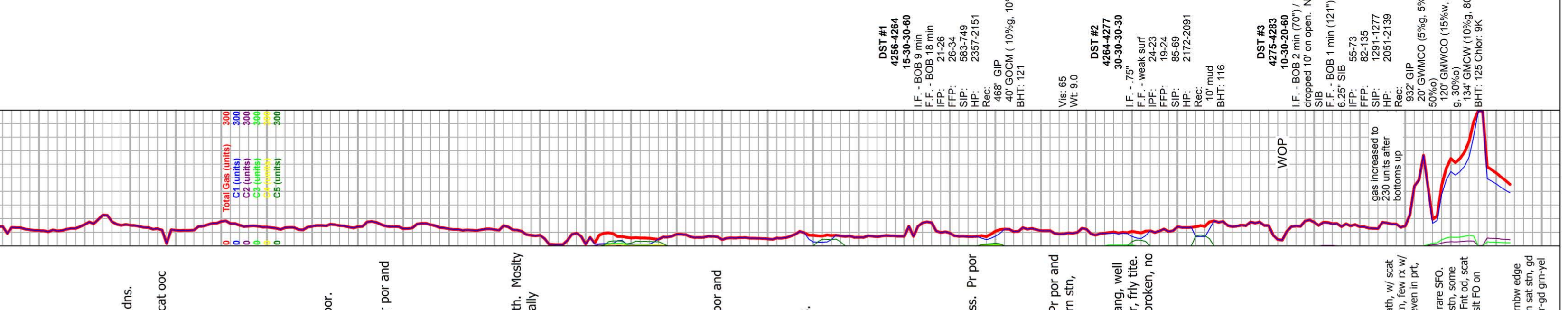
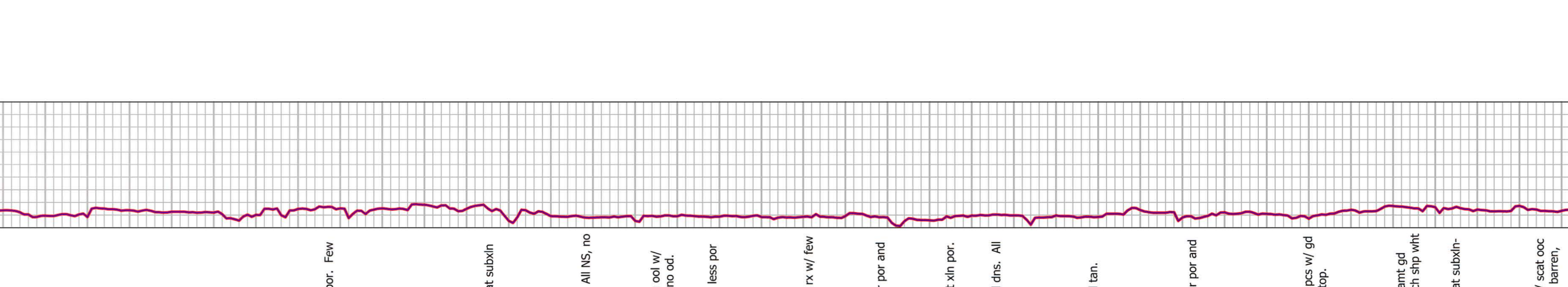
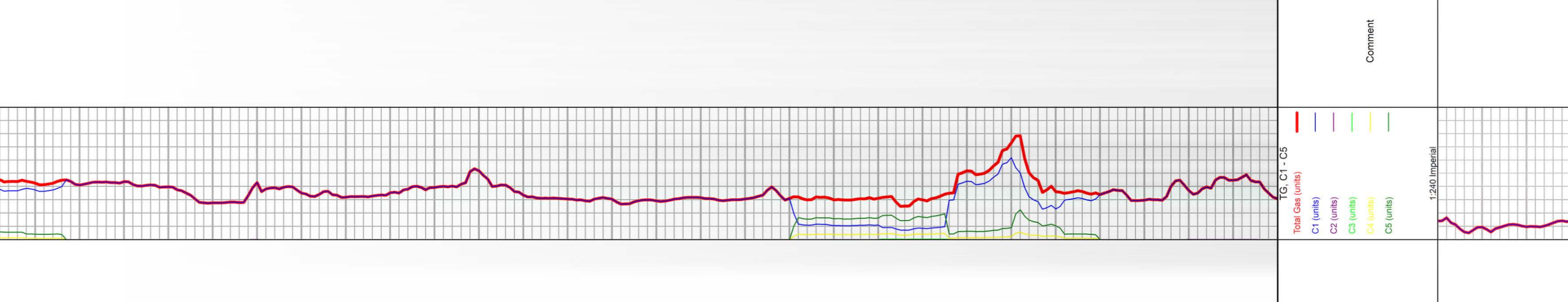
DST Int

DST Int
DST Int
DST Int
DST Int

MISC

☐ Daily Report
☐ Digital Photo
☐ Document
☐ Folder
☐ Link
☐ Vertical Log File
☐ Horizontal Log File
☐ Core Log File
☐ Drill Cuttings Rep

● Oil Shows
○ 50%
○ 75%
○ Spotted Shn - 25%
○ Spotted Shn - 50%
○ Spotted Shn - 75%
○ Spotted Shn - 100%
○ Spotted Shn - 125%
○ Spotted Shn - 150%
○ Spotted Shn - 175%
○ Spotted Shn - 200%
○ Spotted Shn - 225%
○ Spotted Shn - 250%
○ Spotted Shn - 275%
○ Spotted Shn - 300%
○ Spotted Shn - 325%
○ Spotted Shn - 350%
○ Spotted Shn - 375%
○ Spotted Shn - 400%
○ Spotted Shn - 425%
○ Spotted Shn - 450%
○ Spotted Shn - 475%
○ Spotted Shn - 500%



ROCK TYPES

shale, grt
shale, sh
shale, red

ACCESSORIES

Sh: black Carb

MINERAL

● Chert White

OTHER SYMBOLS

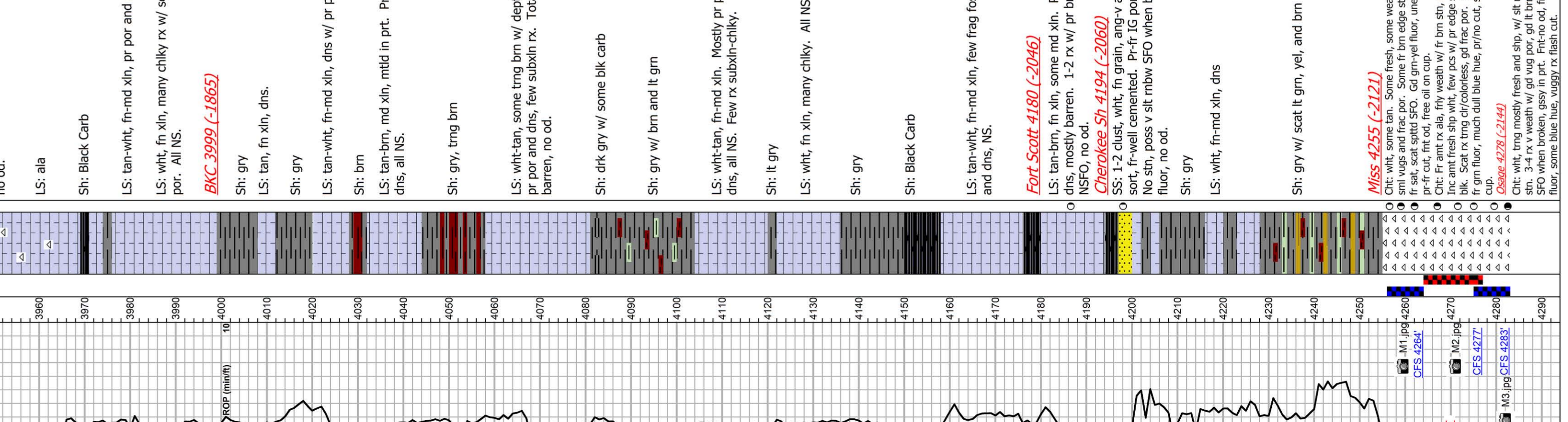
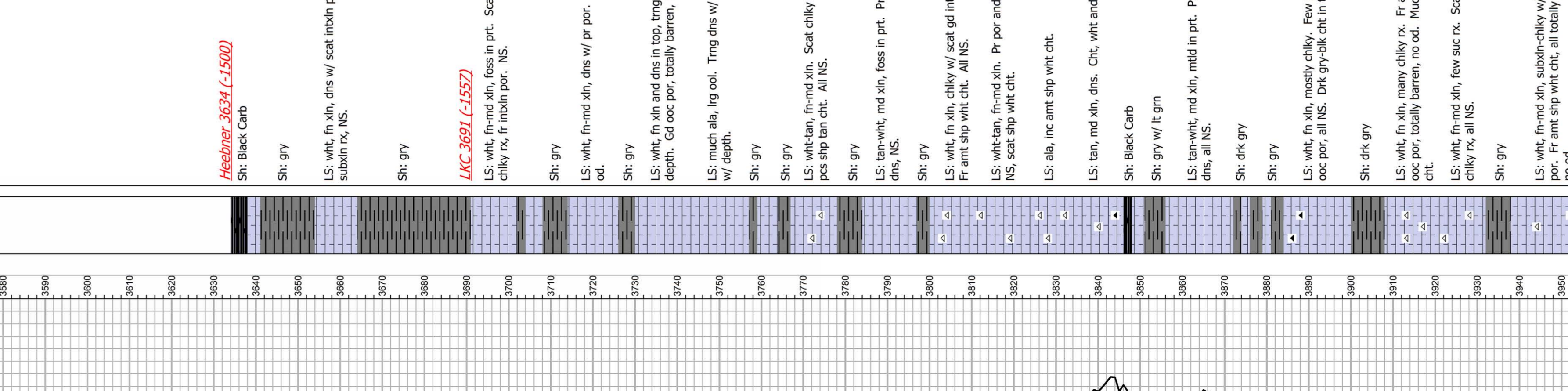
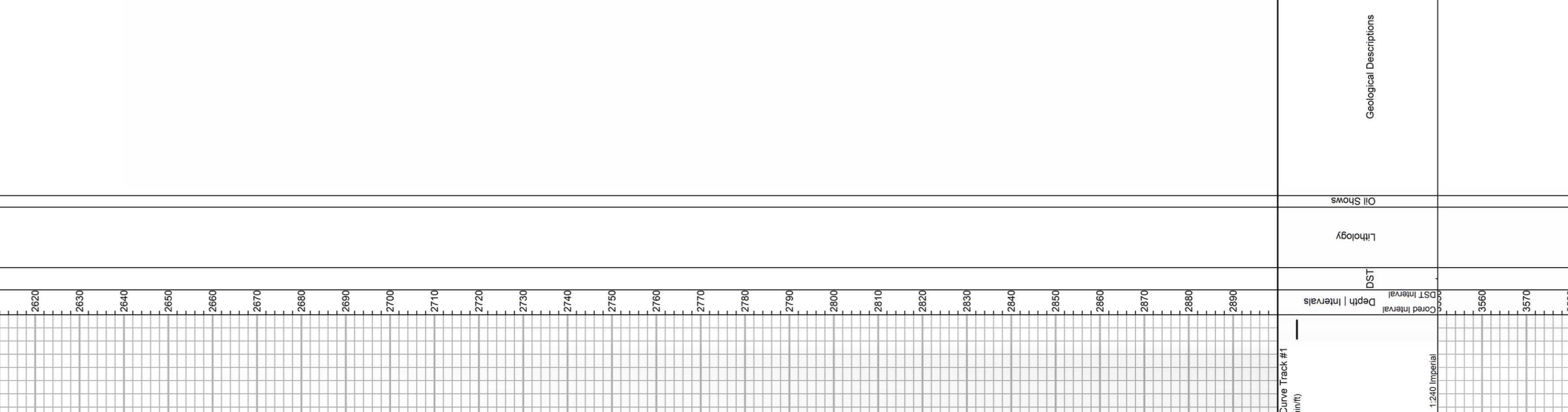
DST Int

DST Int
DST Int
DST Int

MISC

☐ Daily Report
☐ Digital Photo
☐ Document
☐ Folder
☐ Link
☐ Vertical Log File
☐ Horizontal Log File
☐ Core Log File
☐ Drill Cuttings Rep

● Oil Shows
○ 50%
○ 75%
○ Spotted Shn - 25%
○ Spotted Shn - 50%
○ Spotted Shn - 75%
○ Spotted Shn - 100%
○ Spotted Shn - 125%
○ Spotted Shn - 150%
○ Spotted Shn - 175%
○ Spotted Shn - 200%
○ Spotted Shn - 225%
○ Spotted Shn - 250%
○ Spotted Shn - 275%
○ Spotted Shn - 300%
○ Spotted Shn - 325%
○ Spotted Shn - 350%
○ Spotted Shn - 375%
○ Spotted Shn - 400%
○ Spotted Shn - 425%
○ Spotted Shn - 450%
○ Spotted Shn - 475%
○ Spotted Shn - 500%



DST #1

4284-4864
6.25' BOP 9 min
FF: 808 15 min
FFF: 26-34
SIP: 65:7-49
Rec: 239-7-51
489 GIP
BHT: 121'

DST #2

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #3

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #4

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #5

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #6

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #7

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #8

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #9

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #10

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #11

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #12

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'

DST #13

4275-4883
6.25' BOP 1 min (121')
FF: weak surf
IFF: 24-23
SIP: 129 1-1277
HP: 205 1-2139
Rec: 55-73
832 GIP
20' GWACO (5%w, 5%w, 40%
9-30%
420' GWACO (15%w, 40%
BHT: 125 Chbr, 3K

DST #14

4254-4477
30-30-30-30
FF: weak surf
IFF: 24-23
SIP: 85-69
HP: 2172-2091
Rec: 10' mud
BHT: 116'