

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

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i>	PRODUCTION INTERVAL: <table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </tbody> </table>	Top	Bottom				
Top	Bottom							

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	HFI 3-27
Doc ID	1788997

Tops

Name	Top	Datum
Top Anhydrite	3094'	271
Base Anhydrite	3132'	233
Foraker	3759'	-394
Topeka	4039'	-674
Heebner	4206'	-841
LKC	4251'	-886
Stark	4448'	-1083
BKC	4501'	-1136
Pawnee	4626'	-1261
Cherokee Shale	4702'	-1337

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	HFI 3-27
Doc ID	1788997

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	475	H-325	325	-
Production	7.875	5.5	14	4777	H-Long	250	-



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI #3-27

27-4s-36w Rawlins,KS

Start Date: 2024.06.30 @ 07:07:00

End Date: 2024.06.30 @ 13:09:15

Job Ticket #: 71845 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.07.08 @ 09:30:55



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71845

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.06.30 @ 07:07:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:22:45

Time Test Ended: 13:09:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 85

Interval: **4501.00 ft (KB) To 4532.00 ft (KB) (TVD)**

Total Depth: 4532.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3365.00 ft (KB)

3354.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8874** Outside

Press@RunDepth: 18.34 psig @ 4502.00 ft (KB)

Start Date: 2024.06.30

End Date:

2024.06.30

Start Time: 07:07:05

End Time:

13:09:14

Capacity: 8000.00 psig

Last Calib.: 2024.06.30

Time On Btm: 2024.06.30 @ 09:22:30

Time Off Btm: 2024.06.30 @ 10:45:15

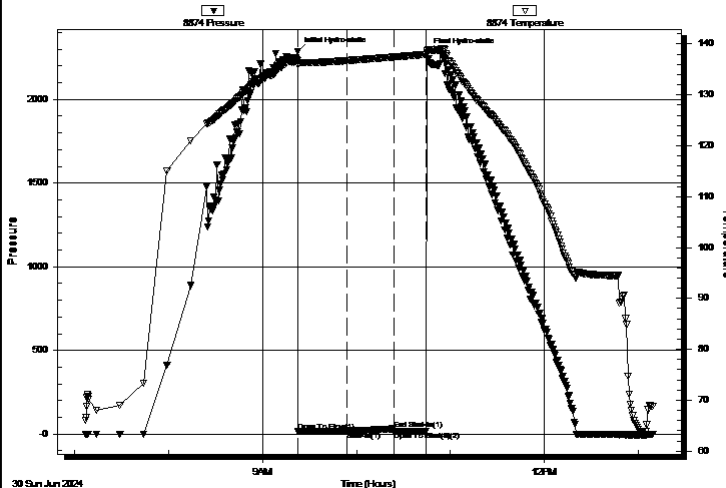
TEST COMMENT: IF: 1/4" blow , died @ 20 min.

IS: No return.

FF: Surface blow .

Pulled test

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.00	136.67	Initial Hydro-static
1	17.82	135.83	Open To Flow (1)
32	18.34	136.70	Shut-In(1)
62	31.04	137.42	End Shut-In(1)
62	18.60	137.43	Open To Flow (2)
82	17.67	137.92	Shut-In(2)
83	2276.44	138.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil spots)	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71845

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Tester: Bradley Walter

Unit No: 85

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Total Depth: 4532.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3365.00 ft (KB)

3354.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8319** Inside

Press@RunDepth: psig @ 4502.00 ft (KB)

Start Date: 2024.06.30

End Date:

2024.06.30

Start Time: 07:07:05

End Time:

13:09:14

Capacity: 8000.00 psig

Last Calib.: 2024.06.30

Time On Btm:

Time Off Btm:

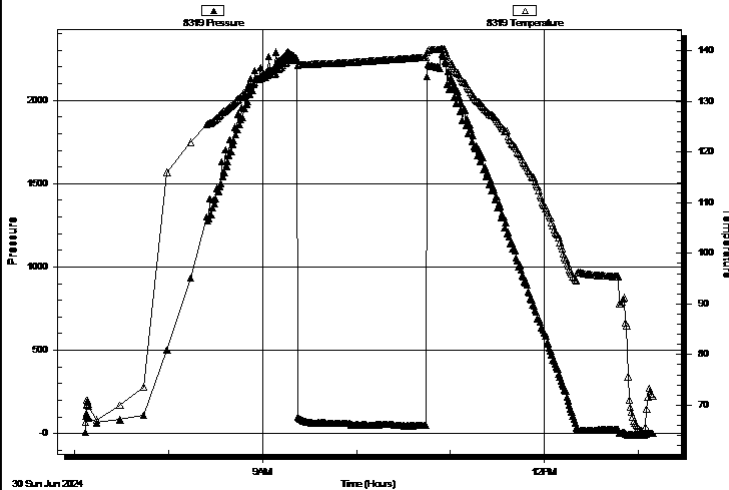
TEST COMMENT: IF: 1/4" blow , died @ 20 min.

IS: No return.

FF: Surface blow .

Pulled test

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil spots)	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71845

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.06.30 @ 07:07:00

Tool Information

Drill Pipe:	Length:	4260.00 ft	Diameter:	3.80 inches	Volume:	59.76 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:	25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	60.94 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.00 ft					String Weight: Initial	65000.00 lb
Depth to Top Packer:		4501.00 ft					Final	65000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		31.00 ft						
Tool Length:		61.00 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			4472.00	
Shut In Tool	5.00			4477.00	
Hydraulic tool	5.00			4482.00	
Jars	5.00			4487.00	
EM Tool	3.00			4490.00	
Safety Joint	2.00			4492.00	
Packer	5.00			4497.00	30.00 Bottom Of Top Packer
Packer	4.00			4501.00	
Stubb	1.00			4502.00	
Recorder	0.00	8319	Inside	4502.00	
Recorder	0.00	8874	Outside	4502.00	
Perforations	27.00			4529.00	
Bullnose	3.00			4532.00	31.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71845

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.06.30 @ 07:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (oil spots)	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:

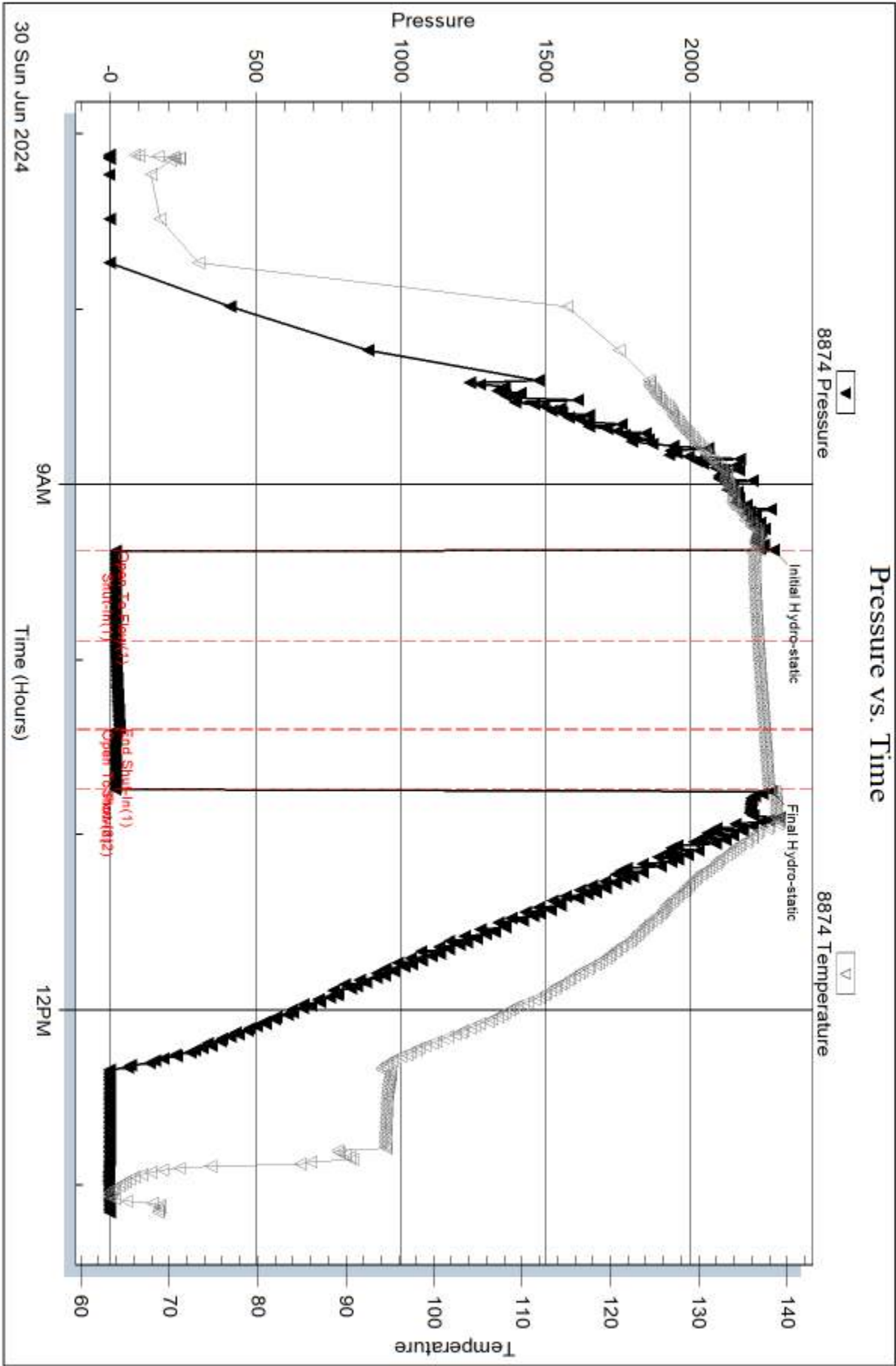
Recovery Comments:

Serial #: 8874

Outside Downing-Nelson Oil Co., Inc.

HFI #3-27

DST Test Number: 1



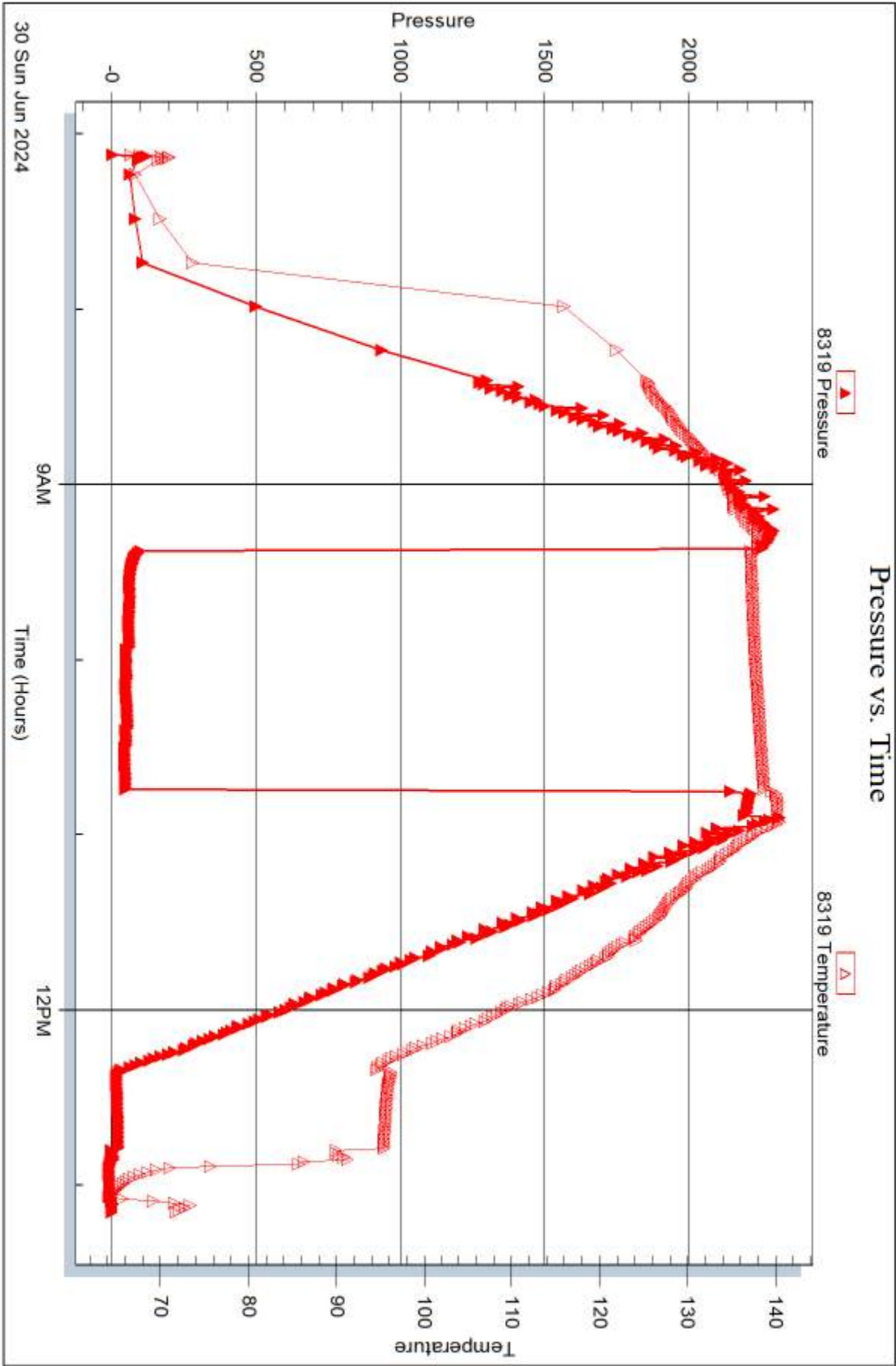
Serial #: 8319

Inside

Dow nign-Nelson Oil Co, Inc.

HFI #3-27

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI #3-27

27-4s-36w Rawlins,KS

Start Date: 2024.07.01 @ 22:19:00

End Date: 2024.07.02 @ 07:16:30

Job Ticket #: 71846 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.07.08 @ 09:30:13



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71846

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.07.01 @ 22:19:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:30:00

Time Test Ended: 07:16:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 85

Interval: **4600.00 ft (KB) To 4636.00 ft (KB) (TVD)**

Total Depth: 4800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3365.00 ft (KB)

3354.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8874** Below (Straddle)

Press@RunDepth: 117.17 psig @ 4637.00 ft (KB)

Start Date: 2024.07.01

End Date:

2024.07.02

Start Time: 22:19:05

End Time:

07:16:30

Capacity: 8000.00 psig

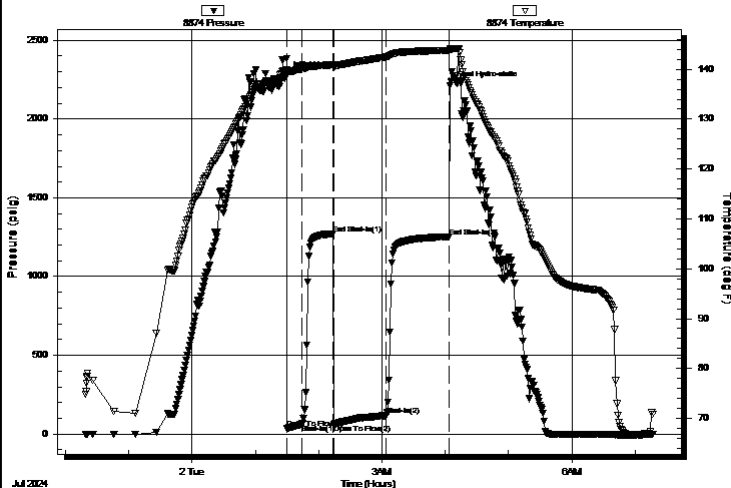
Last Calib.: 2024.07.02

Time On Btm: 2024.07.02 @ 01:29:15

Time Off Btm: 2024.07.02 @ 04:04:30

TEST COMMENT: IF: 4 1/2" blow .
IS: No return.
FF: 18" blow .
FS: 1/2" return. 15-30-45-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.09	139.85	Initial Hydro-static
1	33.25	139.13	Open To Flow (1)
15	61.00	140.01	Shut-In(1)
45	1272.24	140.91	End Shut-In(1)
45	62.75	140.56	Open To Flow (2)
95	117.17	142.47	Shut-In(2)
155	1253.47	143.81	End Shut-In(2)
156	2212.47	144.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 20g 40m 40o	1.18
30.00	oil 100o	0.42
0.00	90' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71846

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.07.01 @ 22:19:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:30:00

Time Test Ended: 07:16:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 85

Interval: 4600.00 ft (KB) To 4636.00 ft (KB) (TVD)

Total Depth: 4800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3365.00 ft (KB)

3354.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8319 Inside

Press@RunDepth: psig @ 4601.00 ft (KB)

Start Date: 2024.07.01

End Date:

2024.07.02

Start Time: 22:19:05

End Time:

07:16:30

Capacity: 8000.00 psig

Last Calib.:

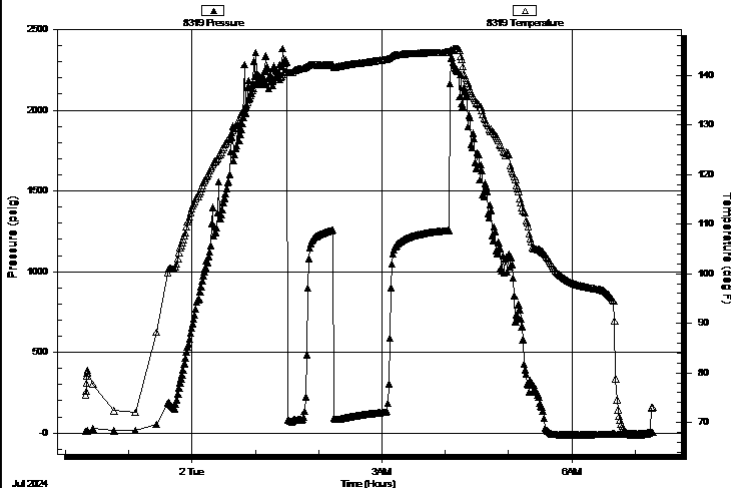
2024.07.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4 1/2" blow .
IS: No return.
FF: 18" blow .
FS: 1/2" return. 15-30-45-60

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
240.00	gmco 20g 40m 40o	1.18
30.00	oil 100o	0.42
0.00	90' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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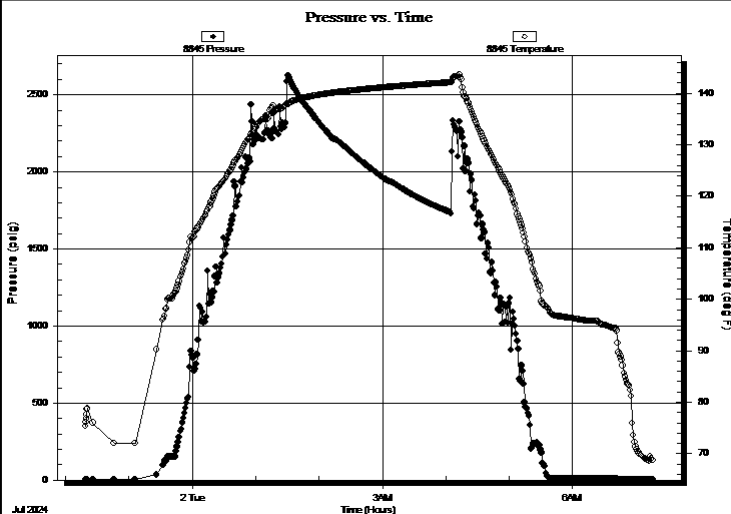
* Recovery from multiple tests



Test Start: 2024.07.01 @ 22:19:00

KB to GR/CF: 11.00 ft

TEST COMMENT: IF: 4 1/2" blow .
IS: No return.
FF: 18" blow .
FS: 1/2" return. 15-30-45-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 20g 40m 40o	1.18
30.00	oil 100o	0.42
0.00	90° GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71846

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.07.01 @ 22:19:00

Tool Information

Drill Pipe:	Length:	4355.00 ft	Diameter:	3.80 inches	Volume:	61.09 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:	25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	62.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft					String Weight: Initial	60000.00 lb	
Depth to Top Packer:	4600.00 ft					Final	64000.00 lb	
Depth to Bottom Packer:	ft							
Interval betw een Packers:	200.00 ft							
Tool Length:	230.00 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		4571.00	
Shut In Tool	5.00		4576.00	
Hydraulic tool	5.00		4581.00	
Jars	5.00		4586.00	
EM Tool	3.00		4589.00	
Safety Joint	2.00		4591.00	
Packer	5.00		4596.00	30.00 Bottom Of Top Packer
Packer	4.00		4600.00	
Stubb	1.00		4601.00	
Recorder	0.00	8319 Inside	4601.00	
Recorder	0.00	8845 Outside	4601.00	
Perforations	31.00		4632.00	
Blank Off Sub	1.00		4633.00	200.00 Tool Interval
Packer	3.00		4636.00	
Blank Spacing	1.00		4637.00	
Recorder	0.00	8874 Below	4637.00	
Perforations	1.00		4638.00	
Change Over Sub	1.00		4639.00	
Drill Pipe	157.00		4796.00	
Change Over Sub	1.00		4797.00	
Bullnose	3.00		4800.00	1000229.00 Bottom Packers & Anchor

Total Tool Length: 230.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co, Inc.

27-4s-36w Rawlins,KS

PO Box 1019
Hays, KS 67601

HFI #3-27

Job Ticket: 71846

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.07.01 @ 22:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

24 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	gmco 20g 40m 40o	1.180
30.00	oil 100o	0.421
0.00	90' GIP	0.000

Total Length: 270.00 ft

Total Volume: 1.601 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

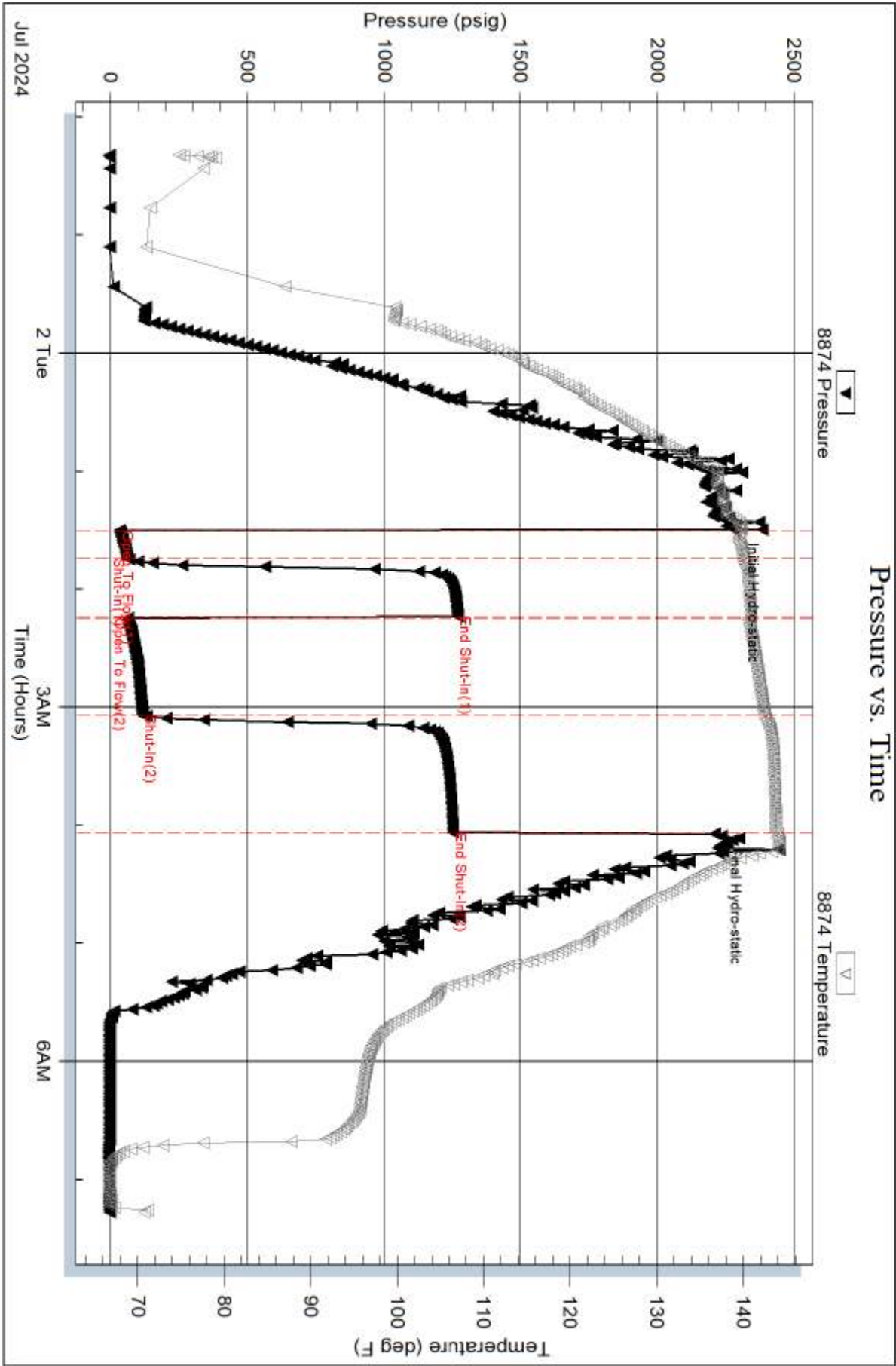
Recovery Comments:

Serial #: 8874

Below (Stratton)ng-Nelson Oil Co, Inc.

HFI #3-27

DST Test Number: 2



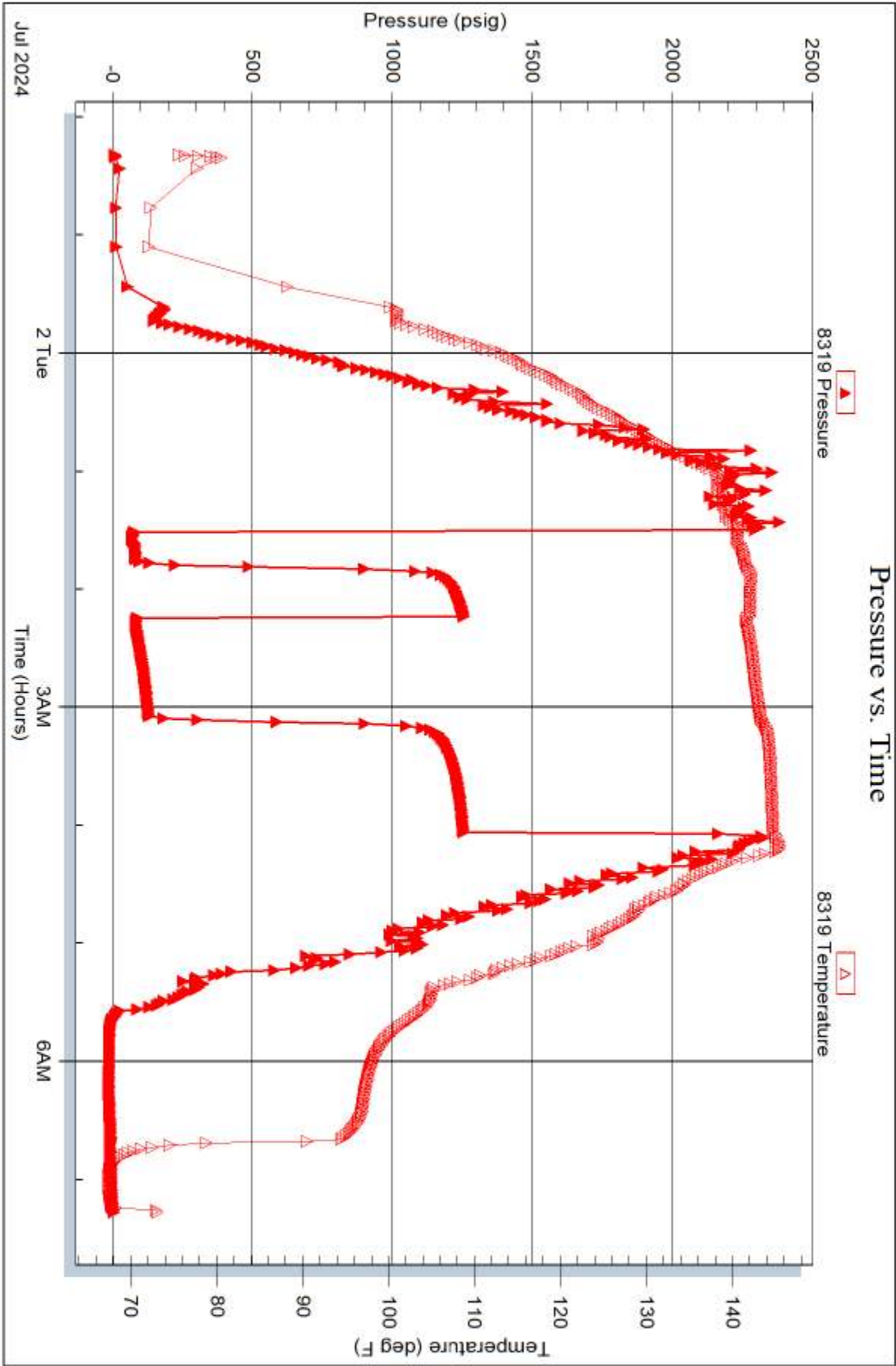
Serial #: 8319

Inside

Dow n/g-Nelson Oil Co., Inc.

HFI #3-27

DST Test Number: 2

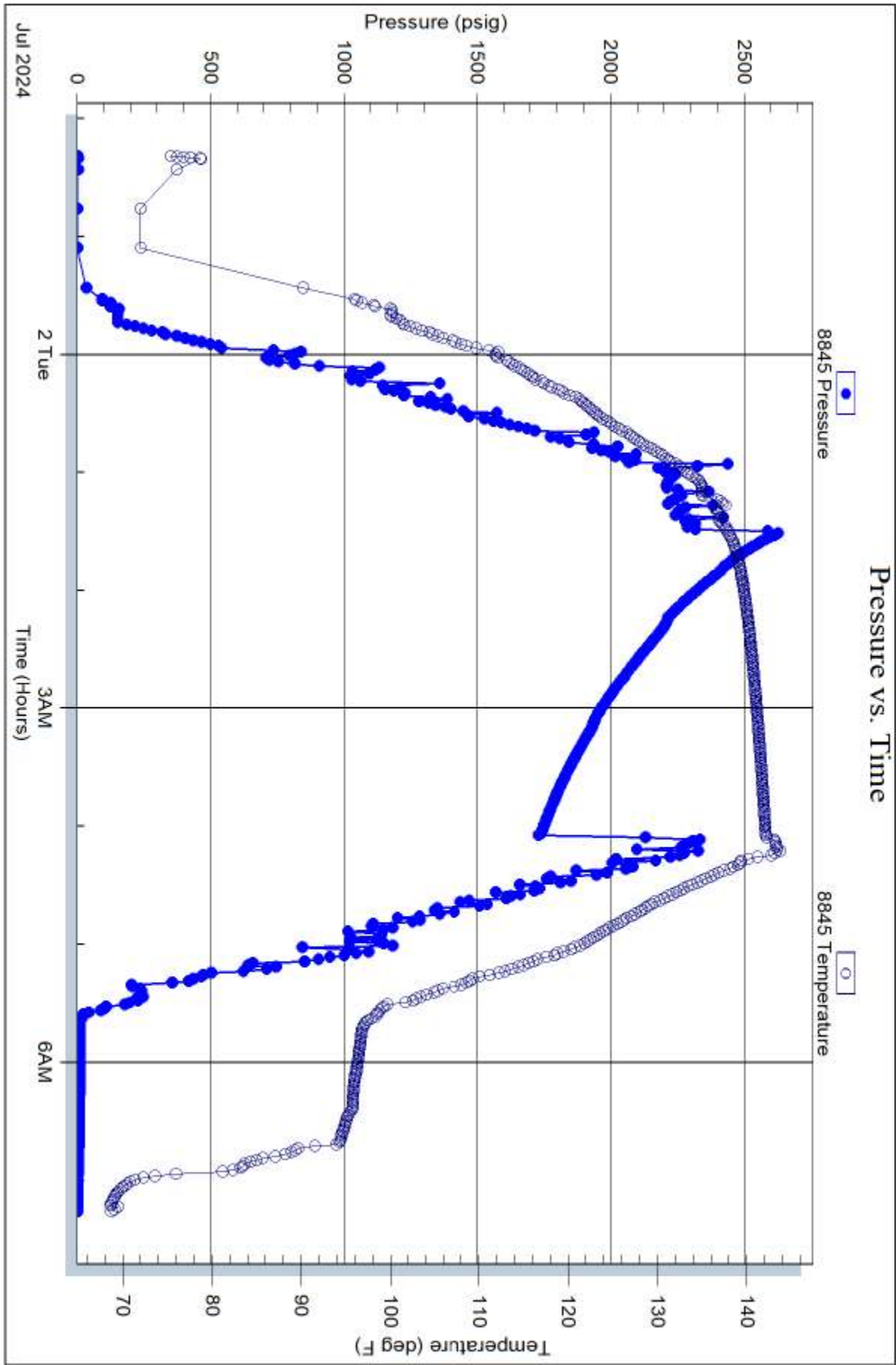


Serial #: 8845

Outside Dow n ing- Nelson Oil Co, Inc.

HFI #3-27

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71845

Well Name & No. HFI #3-27 Test No. 1 Date 6/30/2024
Company Downing-Nelson Oil Co Inc Elevation 3365 KB 3354 GL
Address PO Box 1019 Hays KS 67601
Co. Rep / Geo Marc Downing Rig Duke #5
Location: Sec. 27 Twp 4s Rge. 36W Co. Rawlins State Ks

Interval Tested 4501-4532 Zone Tested Marmaton
Anchor Length 31' Drill Pipe Run 4260 Mud Wt. 9.3
Top Packer Depth 4496 Drill Collars Run 240 Vis 53
Bottom Packer Depth 4501 Wt. Pipe Run — WL 9
Total Depth 4532 Chlorides 800 ppm System LCM 1/2#
Blow Description IF 4" blow died @ 20 min

ISI No return.
FF Surface flow
FSI Pulled test

Rec <u>3</u>	Feet of <u>mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of <u>oil spots</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 3 BHT 138 Gravity — API RW — @ — °F Chlorides — ppm
Initial Hydrostatic 2284 ☒ Test 1950 ☐ Ruined Shale Packer
Initial Flow 17 to 18 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 31 ☐ Circ Sub — ☒ Hotel Benkleman
Final Flow 18 to 17 ☐ Hourly Standby — ☒ EM Tool Successful NO -350
Final Shut-In — ☒ Mileage 55mi 96.25 40mi 70 ☐ Accessibility —
Final Hydrostatic 2276 ☐ Sampler — ☐ Gas Sample —
T-On Location 0600 ☐ Straddle — ☐ Oversized Hole —
Initial Flow 30 T-Started 0707 ☐ Shale Packer — ☐ Sub Total -350
Initial Shut-In 30 T-Open 0923 ☐ Extra Packer — ☐ Total 2066.25
Final Flow 20 T-Pulled 1044 ☐ Extra Recorder — ☐ Tool Loaded — @ —
Final Shut-In — T-Out 1309 ☐ Day Standby — ☐ MP/DST Disc't —
Comments —

Approved By — Our Representative [Signature]

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. 71846

Well Name & No. HFI #3-27 Test No. 2 Date 7/02/2024
Company Downing-Nelson Oil Co., Inc Elevation 3368 KB 3354 GL
Address Hays KS
Co. Rep / Geo Marc Downing Rig Duke 5
Location: Sec. 27 Twp 4s Rge. 36w Co. Rawlins State Ks

Interval Tested 4600-4636 Zone Tested Pawnee
Anchor Length 36' Tail 164 Drill Pipe Run 4355 Mud Wt. 9.6
Top Packer Depth 4595/4600 Drill Collars Run 240 Vis 56
~~Bottom Packer Depth~~ 4636 Wt. Pipe Run — WL 8.8
Total Depth 4800 Chlorides 1000 ppm System LCM 3#

Blow Description TF 4 1/2" blow
TSI No return.
FF 18" blow
PSI No return. 1/2" return.

Rec <u>30</u>	Feet of <u>oil</u>	%gas <u>100</u>	%oil	%water	%mud
Rec <u>240</u>	Feet of <u>G mco</u>	<u>20</u> %gas	<u>40</u> %oil	%water	<u>40</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>90' 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 Total 270 BHT 148 Gravity 24 API RW — @ — °F Chlorides — ppm
Initial Hydrostatic 2275 ☒ Test 1950 ☒ Ruined Shale Packer 750
Initial Flow 33 to 61 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 1272 ☐ Circ Sub ☐ Hotel
Final Flow 62 to 117 ☐ Hourly Standby ☒ EM Tool Successful yes
Final Shut-In 1253 ☒ Mileage 70 + 96.25 ☐ Accessibility
Final Hydrostatic 2212 ☐ Sampler ☐ Gas Sample
T-On Location 2045 ☒ Straddle 800 ☐ Oversized Hole
Initial Flow 15 T-Started 2220 ☒ Shale Packer 250 ☐ Sub Total 750 +233.33
Initial Shut-In 30 T-Open 0130 ☐ Extra Packer ☐ Total 4449.58
Final Flow 145 T-Pulled 0400 ☐ Extra Recorder ☐ Tool Loaded 1800 @ 07p2
Final Shut-In 60 T-Out 0716 ☒ Day Standby 1d 7h ☐ MP/DST Disc't
Comments

Approved By _____ Our Representative [Signature]

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Marc A. Downing Consulting Petroleum Geologist		Geological Report Drilling Time and Sample Log	
Operator		Downing-Nelson Oil Co., Inc.	
Lease		HFI #3-27	
API #		15-153-21330-0000	
Field		Wildcat	
Elevation			
Location		2031' FSL & 2288' FEL	
Sec.	Twp.	Rge.	Casing Record
27	4s	36w	Surf. 8 5/8" @ 475'
County		State	
Rawlins		Kansas	
Electrical Surveys		CNDL, DIL, MEL	
Formation	Sample Tops	Log Tops	Datum
Top Anhydrite	3099	3094	271
Base Anhydrite	3136	3132	233
			+1
Foraker	3765	3759	-394
Topeka	4044	4039	-674
Heebner	4210	4206	-841
LKC	4256	4251	-886
Stark	4454	4448	-1083
BKC	4506	4501	-1136
Pawnee	4631	4626	-1261
Cherokee Sh	4707	4702	-1337
			-2
Total Depth	4803	4800	-1435
Refrence Well for Structural Comparison: DNOCI - HFI #2-27 1549' FSL & 1459' FWL Sec. 27-4s-36w			

Drilling Contractor Duke Drilling, Rig #5

Commenced 6/24/2024

Completed 7/2/2024

Samples Saved From 4000 To RTD

Drilling Time Kept From 3650 To RTD

Samples Examined From 4000 To RTD

Geological Supervision From 3650 To RTD

Summary and Recommendations

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

Perforate H and J before abandonment.

Respectfully Submitted

Marc A. Downing

[illegible][illegible]