

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	HFI 4-24
Doc ID	1806634

Tops

Name	Top	Datum
Top Anhydrite	3092'	272
Base Anhydrite	3130'	234
Foraker	3758'	-394
Topeka	4036'	-672
Heebner	4203'	-839
LKC	4248'	-884
Stark	4444'	-1080
BKC	4496'	-1132
Pawnee	4616'	-1252
Cherokee Shale	4692'	-1328

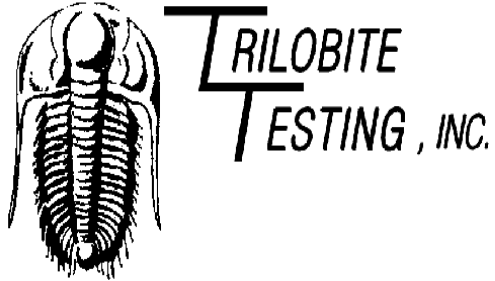
Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	HFI 4-24
Doc ID	1806634

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	23	475	H-325	325	-
Production	7.875	5.5	14	4819	H-Long	200	-

CEMENT TREATMENT REPORT

[illegible]



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

P.O. Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI # 4-27

27-4S.-36W. Rawlins,KS

Start Date: 2024.11.19 @ 20:25:00

End Date: 2024.11.20 @ 04:11:50

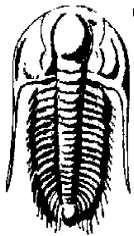
Job Ticket #: 71926 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.25 @ 16:30:20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71926

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.11.19 @ 20:25:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:30

Time Test Ended: 04:11:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4201.00 ft (KB) To 4245.00 ft (KB) (TVD)

Reference Elevations: 3364.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

3353.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8734 Outside

Press@RunDepth: 75.06 psig @ 4202.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.19

End Date:

2024.11.20

Last Calib.: 2024.11.20

Start Time: 20:25:01

End Time:

04:11:50

Time On Btm: 2024.11.19 @ 22:44:20

Time Off Btm: 2024.11.20 @ 01:18:30

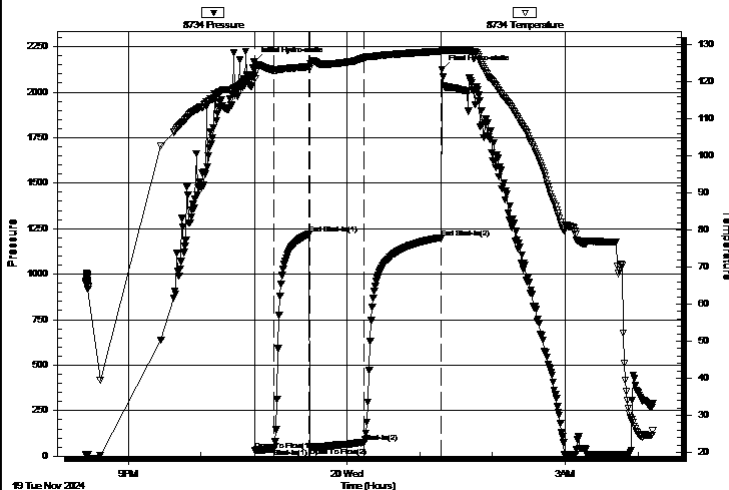
TEST COMMENT: 15-IF-Blow built to 2 1/2"

30-ISI-No return

45-FF-Blow built to 2"

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.63	121.55	Initial Hydro-static
1	32.42	120.85	Open To Flow (1)
16	40.58	123.09	Shut-In(1)
45	1220.01	124.04	End Shut-In(1)
45	50.06	123.49	Open To Flow (2)
91	75.06	126.48	Shut-In(2)
154	1200.94	128.21	End Shut-In(2)
155	2122.09	128.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMO 10%G, 45%M, 45%O	0.30
117.00	GO 64%G, 36%O	0.58

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Dow ning Nelson Oil Co

27-4S.-36W. Rawlins.KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71926

DST#: 1

ATTN: Marc Downing

Test Start: 2024.11.19 @ 20:25:00

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:30

Time Test Ended: 04:11:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4201.00 ft (KB) To 4245.00 ft (KB) (TVD)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3364.00 ft (KB)

3353.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4202.00 ft (KB)

Start Date: 2024.11.19

End Date:

2024.11.20

Start Time: 20:25:01

End Time:

04:11:50

Capacity: 8000.00 psig

Last Calib.: 2024.11.20

Time On Btm:

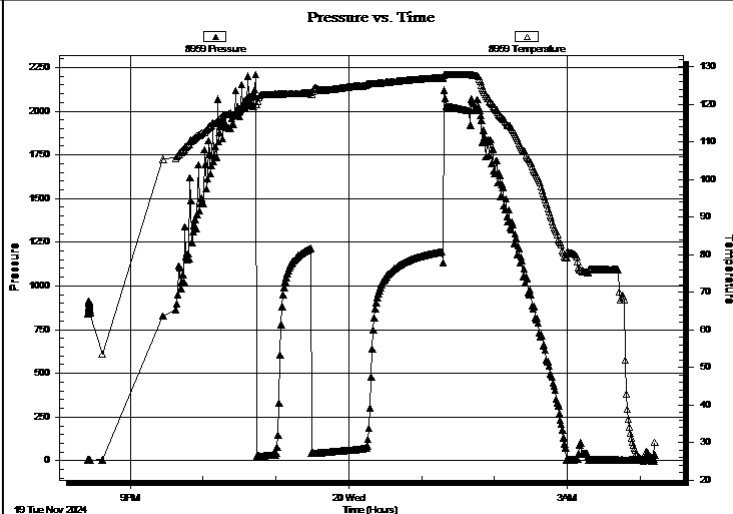
Time Off Btm:

TEST COMMENT: 15-IF-Blow built to 2 1/2"

30-ISI-No return

45-FF-Blow built to 2"

60-FSI-No return



PRESSURE SUMMARY

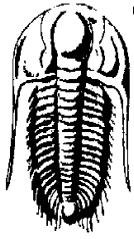
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMO 10%G, 45%M, 45%O	0.30
117.00	GO 64%G, 36%O	0.58

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

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71926

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.11.19 @ 20:25:00

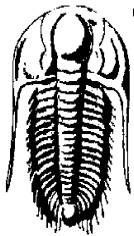
Tool Information

Drill Pipe:	Length:	4005.00 ft	Diameter:	3.80 inches	Volume:	56.18 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	177.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	Weight to Pull Loose:	62000.00 lb
					Total Volume:	57.05 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		4201.00 ft					Final	54000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		44.00 ft						
Tool Length:		77.00 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		4169.00	
Shut In Tool	5.00		4174.00	
Hydraulic tool	5.00	1113	4179.00	
Jars	5.00	01-07	4184.00	
EM Tool	5.00		4189.00	
Safety Joint	3.00	-001	4192.00	
Packer	5.00		4197.00	33.00 Bottom Of Top Packer
Packer	4.00		4201.00	
Stubb	1.00		4202.00	
Recorder	0.00	8959 Inside	4202.00	
Recorder	0.00	8734 Outside	4202.00	
Perforations	5.00		4207.00	
Change Over Sub	1.00		4208.00	
Drill Pipe	31.00		4239.00	
Change Over Sub	1.00		4240.00	
Bullnose	5.00		4245.00	44.00 Bottom Packers & Anchor
Total Tool Length:	77.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71926

DST#: 1

ATTN: Marc Dow ning

Test Start: 2024.11.19 @ 20:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMO 10%G, 45%M, 45%O	0.295
117.00	GO 64%G, 36%O	0.575

Total Length: 177.00 ft

Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 24.4 @ 40 degs corrected to 26.4 @ 60 degs

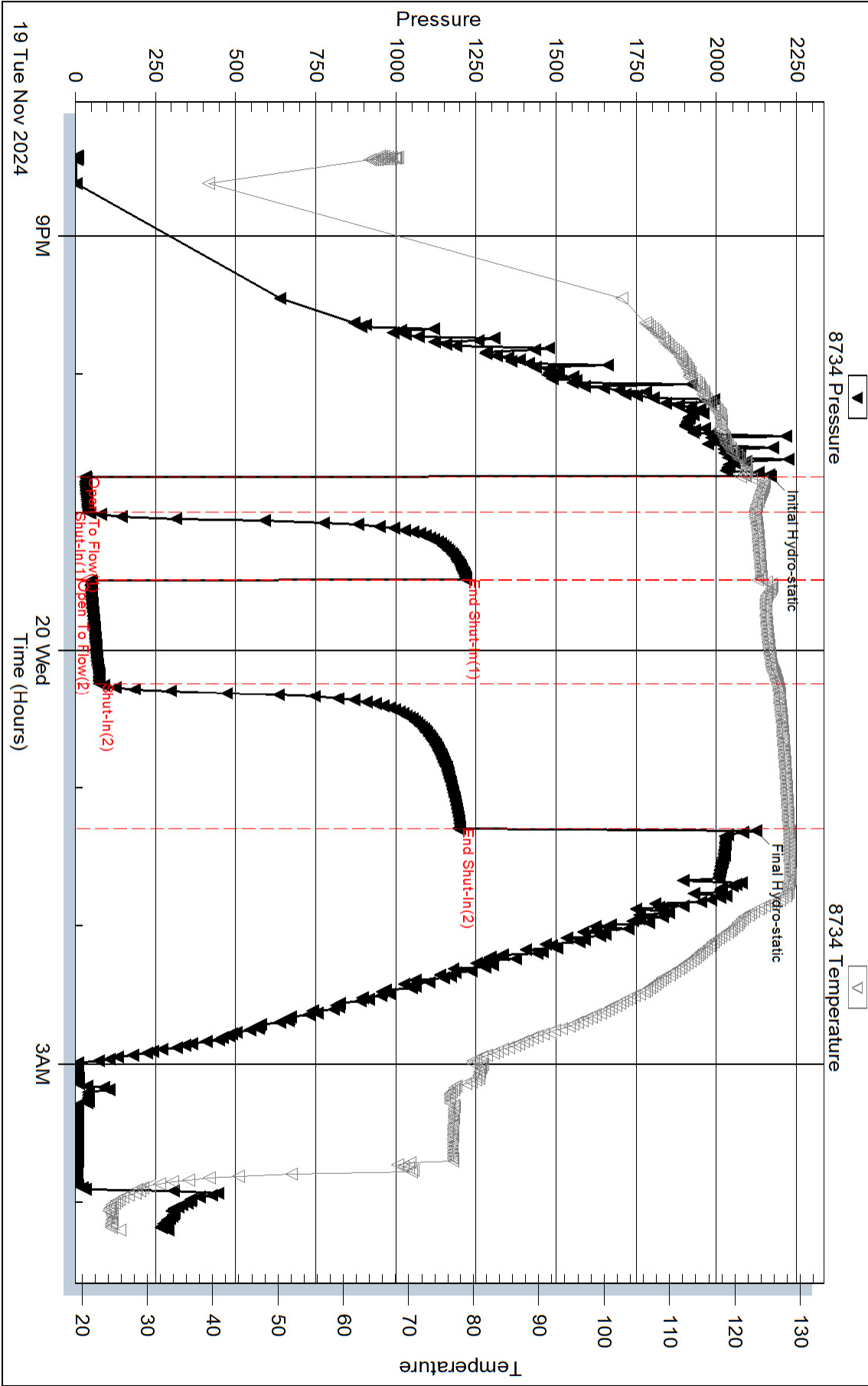
Serial #: 8734

Outside Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 71926

Printed: 2024.11.25 @ 16:30:21

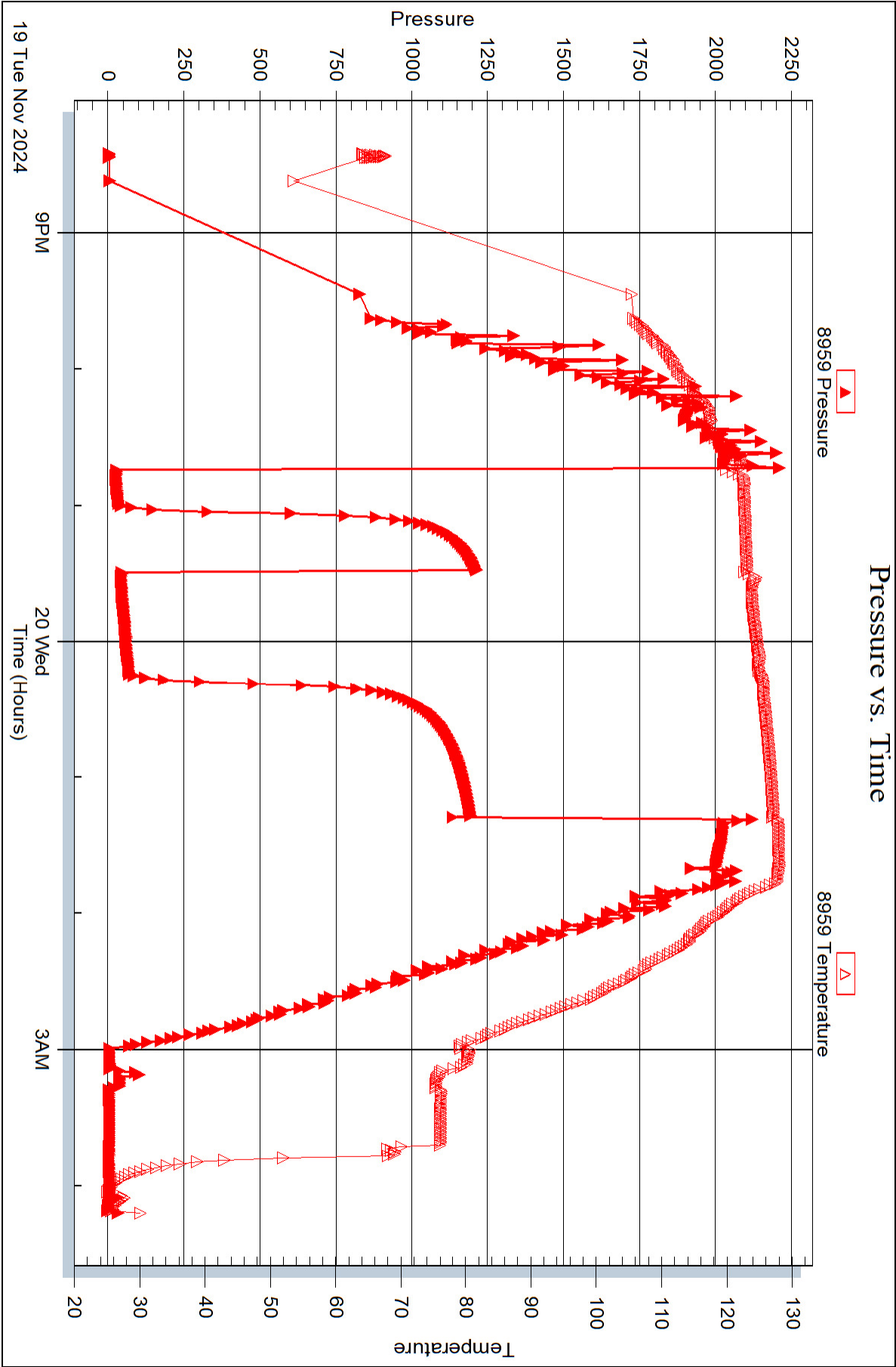
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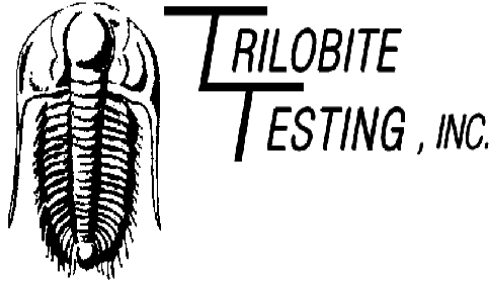
Inside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

P.O. Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI # 4-27

27-4S.-36W. Rawlins,KS

Start Date: 2024.11.20 @ 22:40:00

End Date: 2024.11.21 @ 06:53:09

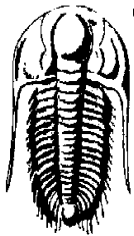
Job Ticket #: 71967 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.25 @ 16:29:51



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71967

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.11.20 @ 22:40:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:12:20

Time Test Ended: 06:53:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4396.00 ft (KB) To 4448.00 ft (KB) (TVD)

Reference Elevations: 3364.00 ft (KB)

Total Depth: 4448.00 ft (KB) (TVD)

3353.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8734 Outside

Press@RunDepth: 186.43 psig @ 4397.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.20

End Date: 2024.11.21

Last Calib.: 2024.11.21

Start Time: 22:40:01

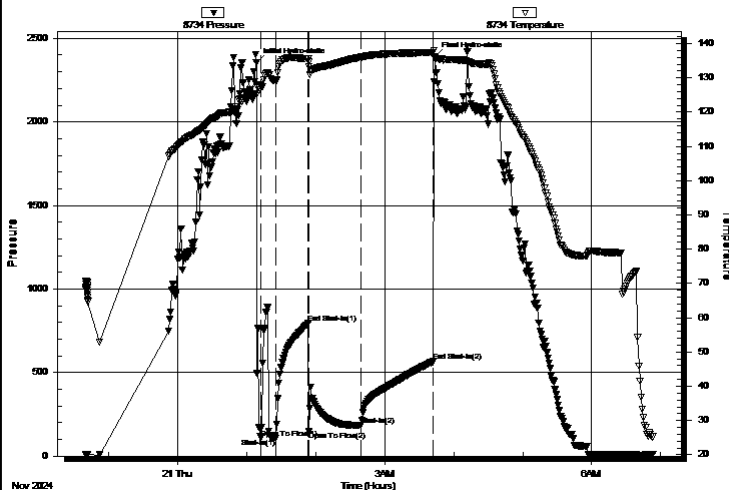
End Time: 06:53:10

Time On Btm: 2024.11.21 @ 01:08:30

Time Off Btm: 2024.11.21 @ 03:43:39

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 10 mins (blow built to 22 1/2")
30-ISI-Return ASASI built to 3 1/2"
45-FF-B.O.B @ 19 mins (blow built to 18")
60-FSI-Return ASASI built to 1 1/2" redxuced to surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.71	125.28	Initial Hydro-static
4	109.71	128.02	Open To Flow (1)
17	107.83	129.43	Shut-In(1)
45	795.45	135.50	End Shut-In(1)
46	145.97	133.30	Open To Flow (2)
91	186.43	136.02	Shut-In(2)
154	566.06	137.39	End Shut-In(2)
156	2391.43	135.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
295.00	GMCO 17%G, 23%M, 60%O	2.53
70.00	CGO 25%G, 75%O	0.98
0.00	565' GIP	0.00

Gas Rates

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



Dow ning Nelson Oil Co

27-4S.-36W. Rawlins.KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71967

DST#: 2

ATTN: Marc Downing

Test Start: 2024.11.20 @ 22:40:00

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 01:12:20

Tester: Martine Salinas

Time Test Ended: 06:53:09

Unit No: 82

Interval: 4396.00 ft (KB) To 4448.00 ft (KB) (TVD)

Reference Elevations: 3364.00 ft (KB)

Total Depth: 4448.00 ft (KB) (TVD)

3353.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4397.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.20

End Date: 2024.11.21

Last Calib.: 2024.11.21

Start Time: 22:40:01

End Time: 06:53:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 10 mins (blow built to 22 1/2")
30-ISI-Return ASASI built to 3 1/2"
45-FF-B.O.B @ 19 mins (blow built to 18")
60-FSI-Return ASASI built to 1 1/2" reduced to surface blow



PRESSURE SUMMARY

[illegible]

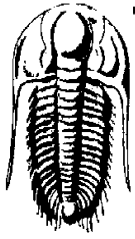
Recovery

Length (ft)	Description	Volume (bbl)
295.00	GMCO 17%G, 23%M, 60%O	2.53
70.00	CGO 25%G, 75%O	0.98
0.00	565' 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

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71967

DST#: 2

ATTN: Marc Dow ning

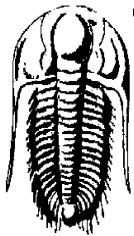
Test Start: 2024.11.20 @ 22:40:00

Tool Information

Drill Pipe:	Length: 4199.00 ft	Diameter: 3.80 inches	Volume: 58.90 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	59.77 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4396.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	52.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Severe plugging on IFP, Cleaned up
Bled off floor manifold 5 mins after each flow period

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00	1113		4374.00	
Jars	5.00	01-07		4379.00	
EM Tool	5.00			4384.00	
Safety Joint	3.00	-001		4387.00	
Packer	5.00			4392.00	33.00 Bottom Of Top Packer
Packer	4.00			4396.00	
Stubb	1.00			4397.00	
Recorder	0.00	8959	Inside	4397.00	
Recorder	0.00	8734	Outside	4397.00	
Perforations	13.00			4410.00	
Change Over Sub	1.00			4411.00	
Drill Pipe	31.00			4442.00	
Change Over Sub	1.00			4443.00	
Bullnose	5.00			4448.00	52.00 Bottom Packers & Anchor
Total Tool Length:		85.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71967

DST#: 2

ATTN: Marc Dow ning

Test Start: 2024.11.20 @ 22:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 10.58 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

38 deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
295.00	GMCO 17%G, 23%M, 60%O	2.526
70.00	CGO 25%G, 75%O	0.982
0.00	565' GIP	0.000

Total Length: 365.00 ft

Total Volume: 3.508 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 36.2 @ 42 degs corrected to 38.0 @ 60 degs

Serial #: 8734

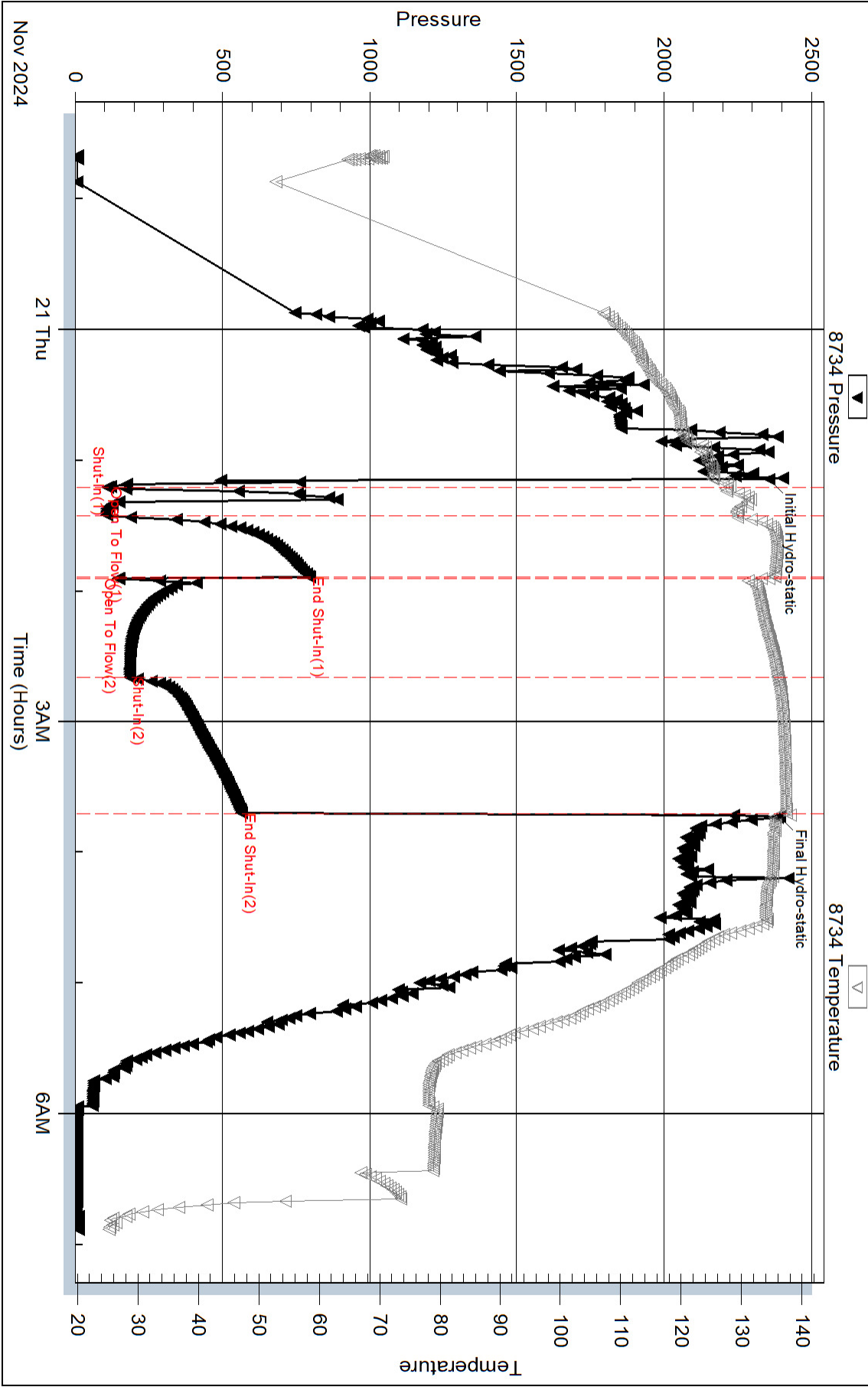
Outside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 2

Pressure vs. Time



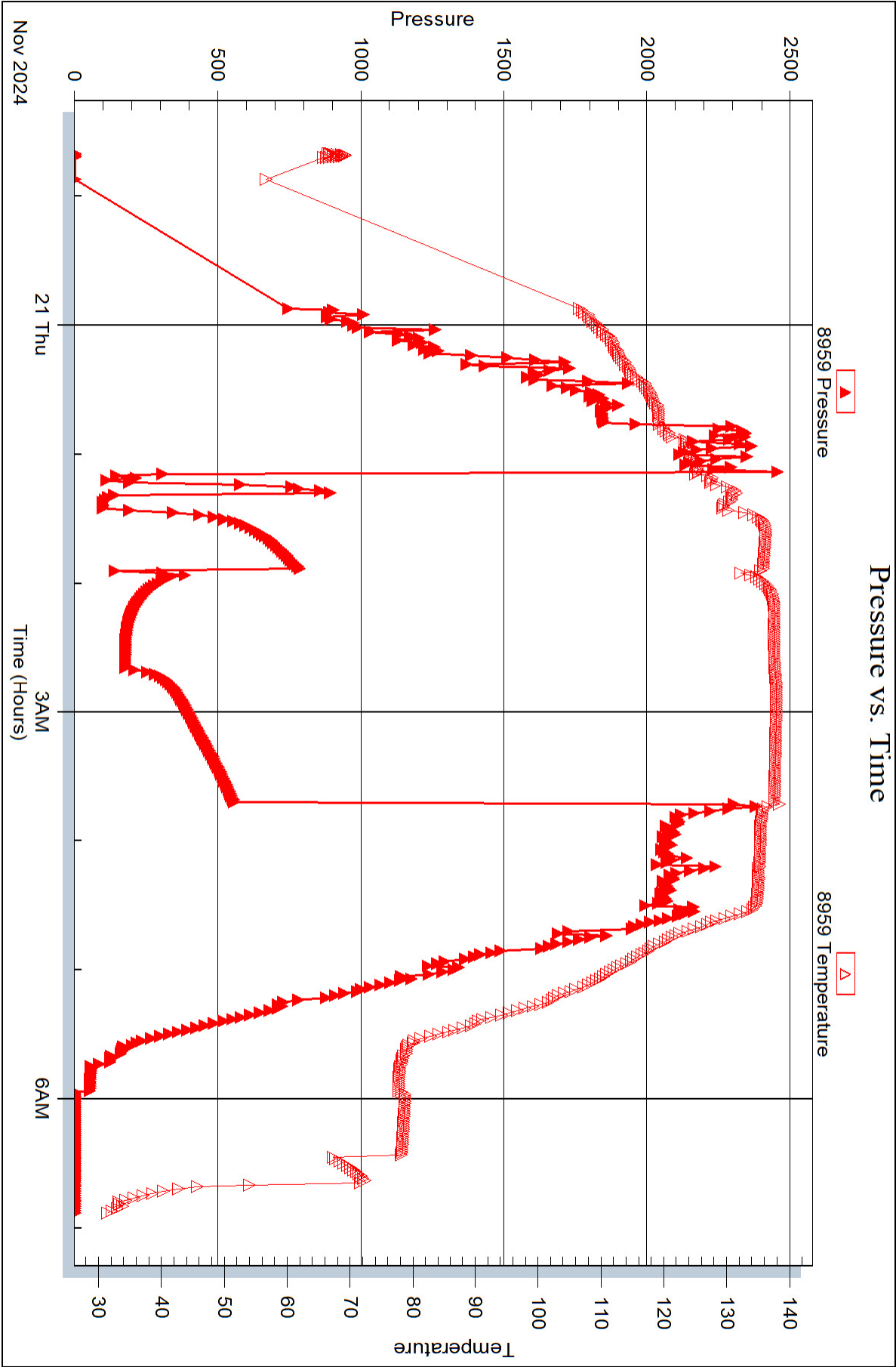
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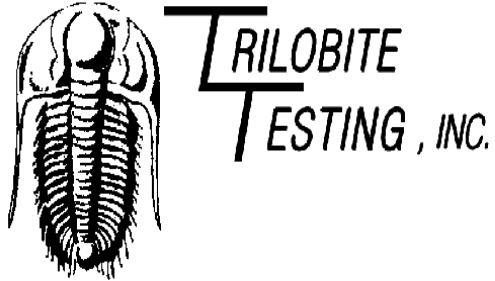
Inside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

P.O. Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI # 4-27

27-4S.-36W. Rawlins,KS

Start Date: 2024.11.21 @ 19:12:00

End Date: 2024.11.22 @ 03:10:20

Job Ticket #: 71968 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.25 @ 16:28:35

Downing Nelson Oil Co

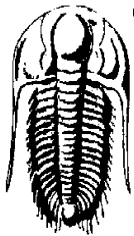
27-4S.-36W. Rawlins,KS

HFI # 4-27

DST # 3

LKC " L " - Marmaton

2024.11.21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71968

DST#: 3

ATTN: Marc Dow ning

Test Start: 2024.11.21 @ 19:12:00

GENERAL INFORMATION:

Formation: **LKC " L " - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:09:50

Time Test Ended: 03:10:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4475.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3364.00 ft (KB)

3353.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8734 Outside

Press@RunDepth: 195.18 psig @ 4476.00 ft (KB)

Start Date: 2024.11.21

End Date:

2024.11.22

Start Time: 19:12:01

End Time:

03:10:20

Capacity: 8000.00 psig

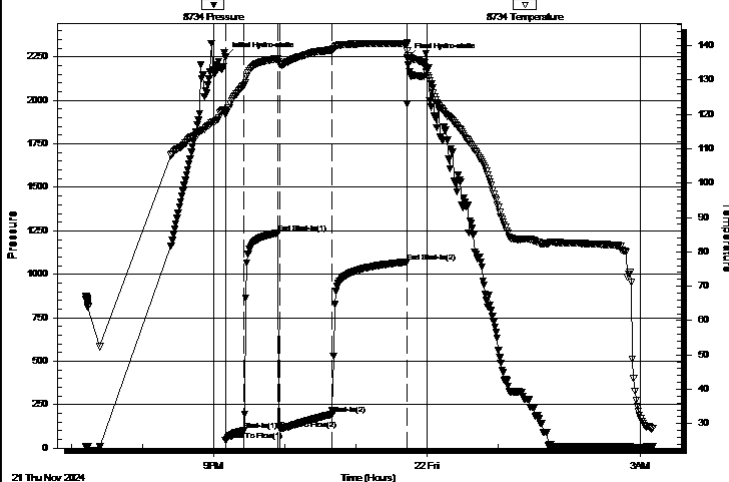
Last Calib.: 2024.11.22

Time On Btm: 2024.11.21 @ 21:09:40

Time Off Btm: 2024.11.21 @ 23:43:20

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 11 mins (blow built to 14 1/4")
30-ISI-Return @ 3 mins, maintained surface blow
45-FF-B.O.B @ 27 mins (blow built to 12 1/4")
60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.09	120.82	Initial Hydro-static
1	44.53	119.88	Open To Flow (1)
16	100.01	128.41	Shut-In(1)
45	1237.70	136.15	End Shut-In(1)
46	110.91	134.80	Open To Flow (2)
91	195.18	138.74	Shut-In(2)
153	1070.60	140.47	End Shut-In(2)
154	2243.19	138.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM 10%G,30%O, 60%M	0.07
605.00	CGO 35%G, 65%O	7.01
0.00	380' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Dow ning Nelson Oil Co

27-4S.-36W. Rawlins.KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71968

DST#: 3

ATTN: Marc Downing

Test Start: 2024.11.21 @ 19:12:00

Formation: **LKC " L " - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:09:50

Time Test Ended: 03:10:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4475.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3364.00 ft (KB)

3353.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4476.00 ft (KB)

Start Date: 2024.11.21

End Date:

2024.11.22

Start Time: 19:12:01

End Time:

03:10:20

Capacity: 8000.00 psig

Last Calib.: 2024.11.22

Time On Btm:

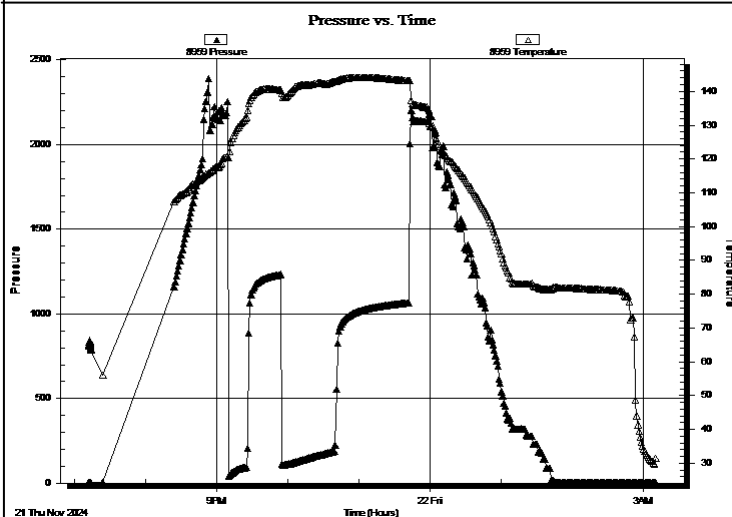
Time Off Btm:

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 11 mins (blow built to 14 1/4")

30-ISI-Return @ 3 mins, maintained surface blow

45-FF-B.O.B @ 27 mins (blow built to 12 1/4")

60-FSI-No return



PRESSURE SUMMARY

[illegible]

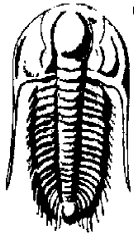
Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM 10%G,30%O, 60%M	0.07
605.00	CGO 35%G, 65%O	7.01
0.00	380' 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

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71968

DST#: 3

ATTN: Marc Dow ning

Test Start: 2024.11.21 @ 19:12:00

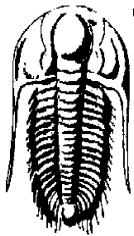
Tool Information

Drill Pipe:	Length:	4292.00 ft	Diameter:	3.80 inches	Volume:	60.21 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	177.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	61.08 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft						String Weight: Initial	59000.00 lb
Depth to Top Packer:	4475.00 ft						Final	59000.00 lb
Depth to Bottom Packer:	ft							
Interval betw een Packers:	45.00 ft							
Tool Length:	78.00 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		4443.00	
Shut In Tool	5.00		4448.00	
Hydraulic tool	5.00	1113	4453.00	
Jars	5.00	01-07	4458.00	
EM Tool	5.00		4463.00	
Safety Joint	3.00	-001	4466.00	
Packer	5.00		4471.00	33.00 Bottom Of Top Packer
Packer	4.00		4475.00	
Stubb	1.00		4476.00	
Recorder	0.00	8959 Inside	4476.00	
Recorder	0.00	8734 Outside	4476.00	
Perforations	5.00		4481.00	
Change Over Sub	1.00		4482.00	
Drill Pipe	32.00		4514.00	
Change Over Sub	1.00		4515.00	
Bullnose	5.00		4520.00	45.00 Bottom Packers & Anchor
Total Tool Length:		78.00		



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71968

DST#: 3

ATTN: Marc Dow ning

Test Start: 2024.11.21 @ 19:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GOCM 10%G,30%O, 60%M	0.074
605.00	CGO 35%G, 65%O	7.011
0.00	380' GIP	0.000

Total Length: 620.00 ft

Total Volume: 7.085 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

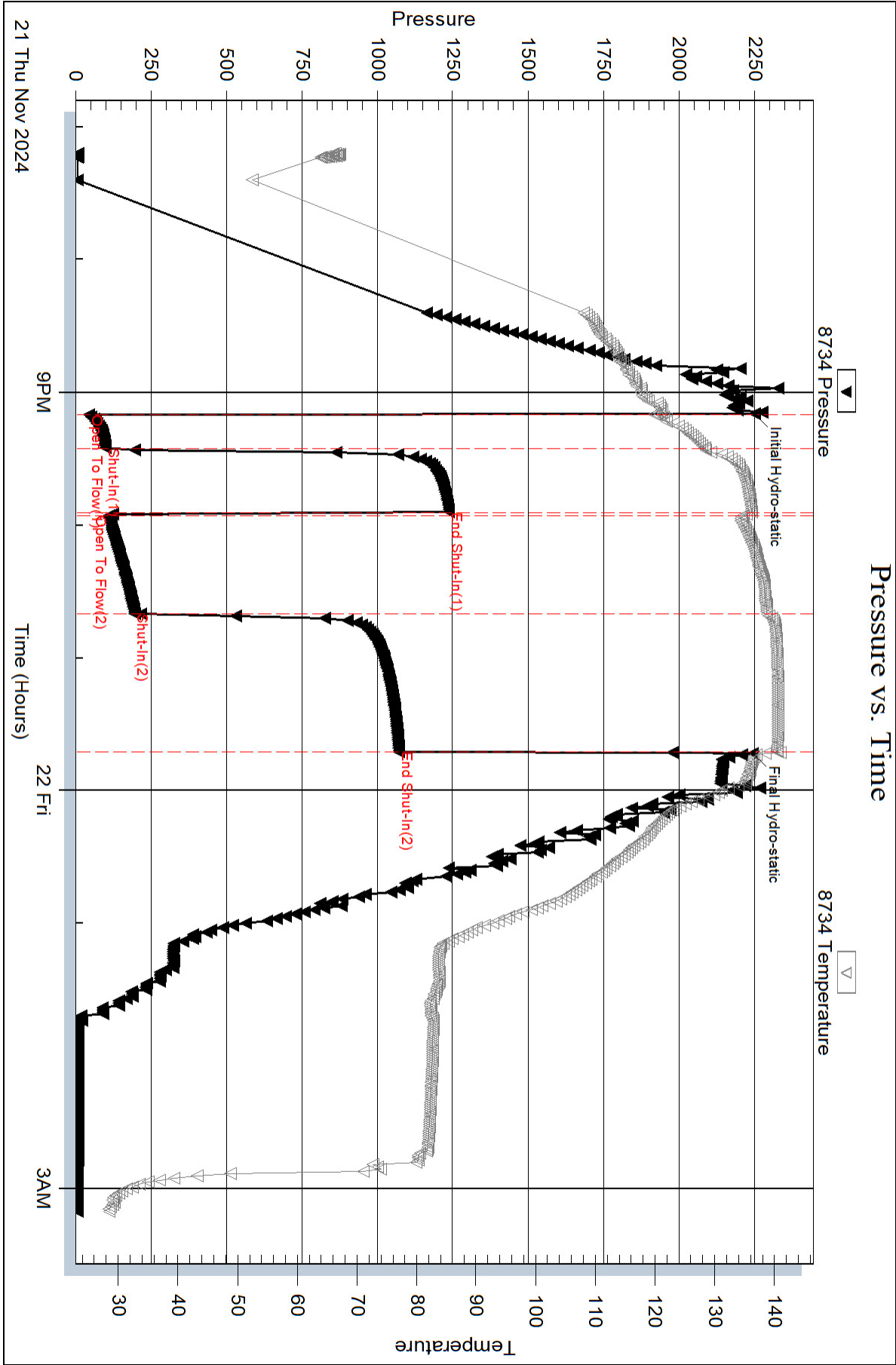
Recovery Comments: Gravity of oil = 22.8 @ 36 degs corrected to 25.7 @ 60 degs

Serial #: 8734

Outside Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 3



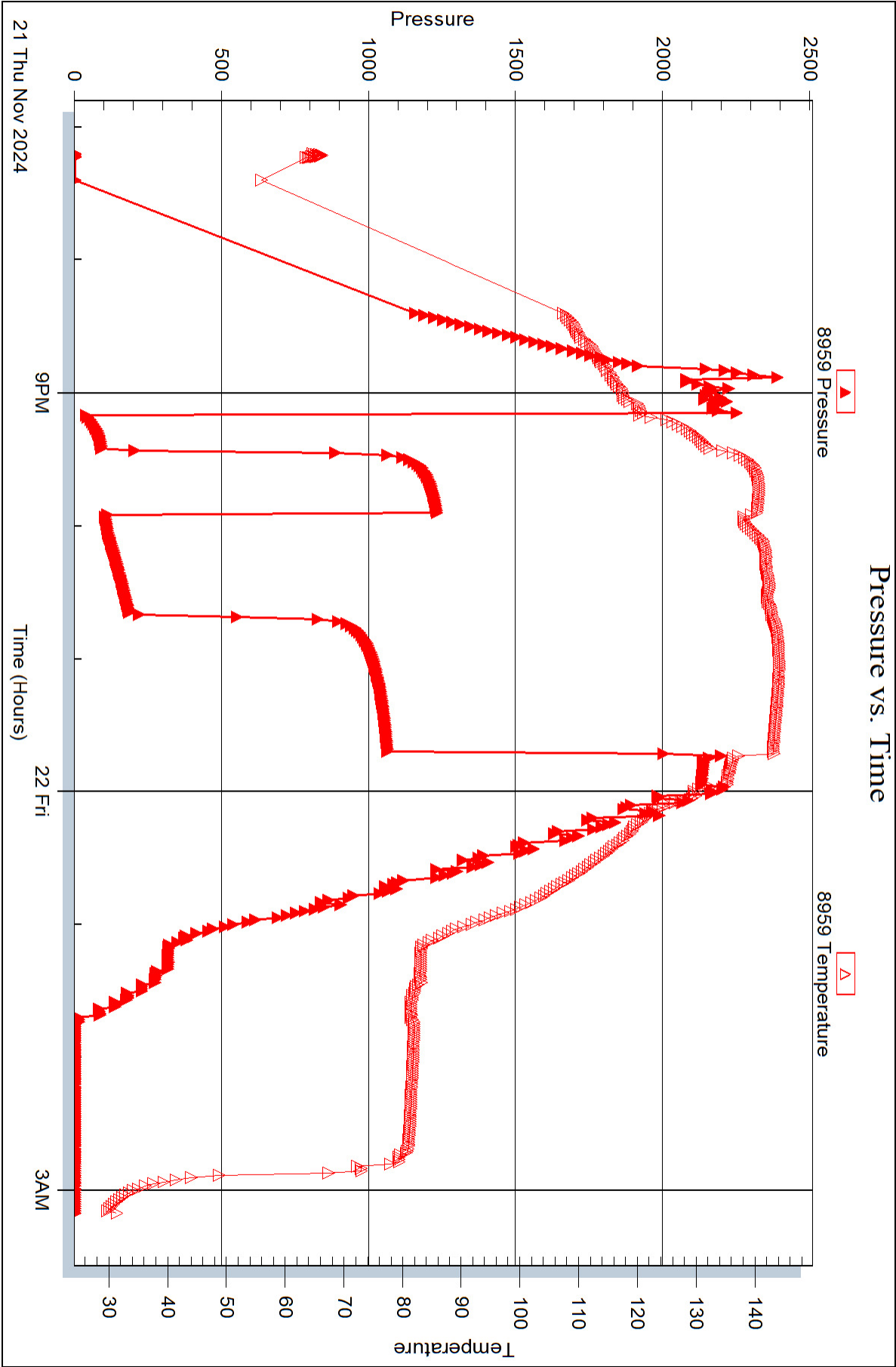
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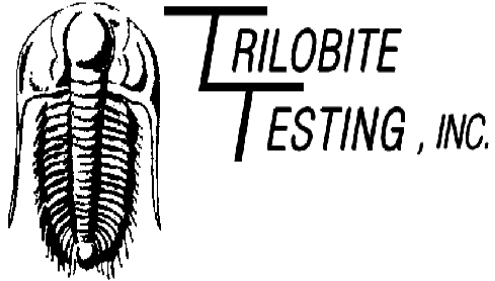
Inside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

P.O. Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI # 4-27

27-4S.-36W. Rawlins,KS

Start Date: 2024.11.22 @ 18:41:00

End Date: 2024.11.23 @ 02:23:39

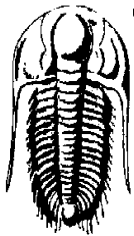
Job Ticket #: 71969 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.25 @ 16:27:52



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71969

DST#: 4

ATTN: Marc Dow ning

Test Start: 2024.11.22 @ 18:41:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:56:20

Time Test Ended: 02:23:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4594.00 ft (KB) To 4640.00 ft (KB) (TVD)

Reference Elevations: 3364.00 ft (KB)

Total Depth: 4640.00 ft (KB) (TVD)

3353.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8734 Outside

Press@RunDepth: 120.45 psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.22

End Date:

2024.11.23

Last Calib.:

2024.11.23

Start Time: 18:41:01

End Time:

02:23:40

Time On Btm:

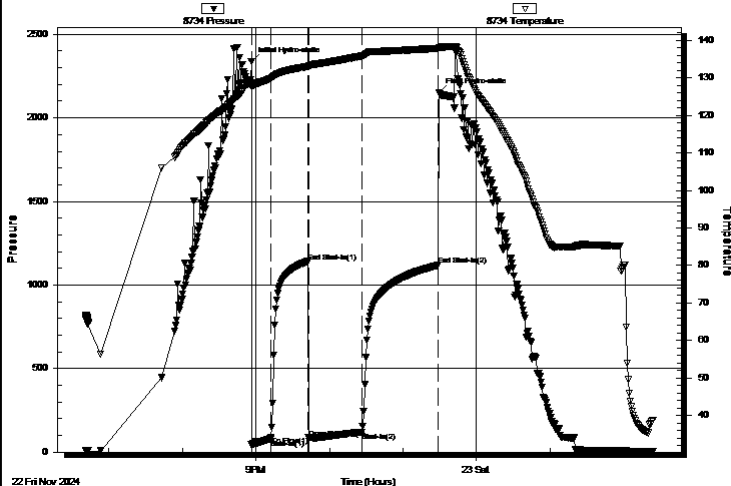
2024.11.22 @ 20:56:10

Time Off Btm:

2024.11.22 @ 23:29:39

TEST COMMENT: 15-IF-Blow built to 7 1/2"
30-ISI-Return ASASI built to 1/2" dead @ 13 mins
45-FF-B.O.B (11 inches) @ 26 mins (blow built to 13 1/4")
60-FSI-Return @ 14 mins built to 1/2"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.97	128.59	Initial Hydro-static
1	43.80	127.66	Open To Flow (1)
16	79.01	129.87	Shut-In (1)
46	1140.67	132.99	End Shut-In (1)
47	84.81	133.04	Open To Flow (2)
91	120.45	135.81	Shut-In (2)
153	1118.12	137.86	End Shut-In (2)
154	2151.91	138.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GMO 23%G, 35%M, 42%O	0.34
230.00	CGO 23% G, 77%O	2.25
0.00	380' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Dow ning Nelson Oil Co

27-4S.-36W. Rawlins.KS

HFI # 4-27

DST#: 4

Test Start: 2024.11.22 @ 18:41:00

Formation: **Paw nee**

Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:56:20
Time Test Ended: 02:23:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4594.00 ft (KB) To 4640.00 ft (KB) (TVD)
Total Depth: 4640.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 3364.00 ft (KB)
3353.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.22 End Date: 2024.11.23

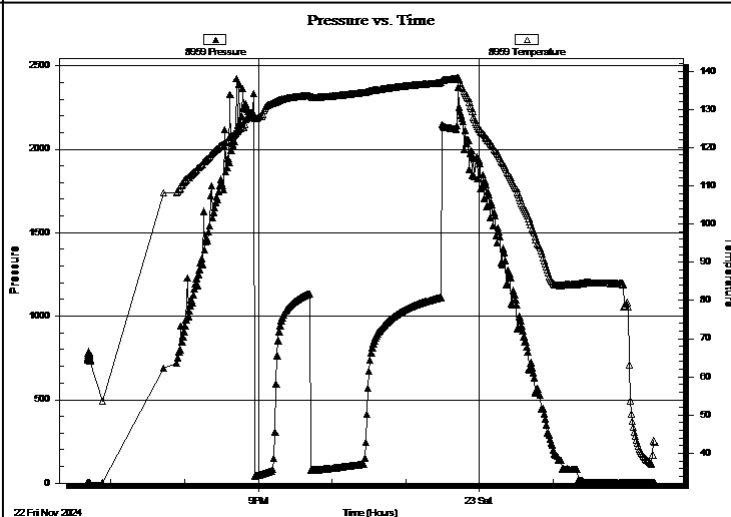
Last Calib.: 2024.11.23

Start Time: 18:41:01 End Time: 02:23:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-Blow built to 7 1/2"
30-ISI-Return ASASI built to 1/2" dead @ 13 mins
45-FF-B.O.B (11 inches) @ 26 mins (blow built to 13 1/4")
60-FSI-Return @ 14 mins built to 1/2"



PRESSURE SUMMARY

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

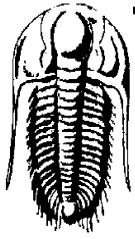
Recovery

Length (ft)	Description	Volume (bbl)
70.00	GMO 23%G, 35%M, 42%O	0.34
230.00	CGO 23% G, 77%O	2.25
0.00	380' 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

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71969

DST#: 4

ATTN: Marc Dow ning

Test Start: 2024.11.22 @ 18:41:00

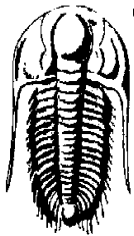
Tool Information

Drill Pipe:	Length:	4418.00 ft	Diameter:	3.80 inches	Volume:	61.97 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	177.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	Weight to Pull Loose:	66000.00 lb
					Total Volume:	62.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		34.00 ft					String Weight: Initial	59000.00 lb
Depth to Top Packer:		4594.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		46.00 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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Change Over Sub	1.00		4562.00	
Shut In Tool	5.00		4567.00	
Hydraulic tool	5.00	1113	4572.00	
Jars	5.00	01-07	4577.00	
EM Tool	5.00		4582.00	
Safety Joint	3.00	-001	4585.00	
Packer	5.00		4590.00	33.00 Bottom Of Top Packer
Packer	4.00		4594.00	
Stubb	1.00		4595.00	
Recorder	0.00	8959 Inside	4595.00	
Recorder	0.00	8734 Outside	4595.00	
Perforations	6.00		4601.00	
Change Over Sub	1.00		4602.00	
Drill Pipe	32.00		4634.00	
Change Over Sub	1.00		4635.00	
Bullnose	5.00		4640.00	46.00 Bottom Packers & Anchor
Total Tool Length:	79.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71969

DST#: 4

ATTN: Marc Dow ning

Test Start: 2024.11.22 @ 18:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GMO 23%G, 35%M, 42%O	0.344
230.00	CGO 23% G, 77%O	2.252
0.00	380' GIP	0.000

Total Length: 300.00 ft

Total Volume: 2.596 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 24.4 @ 38 degs corrected to 27.2 @ 60 degs

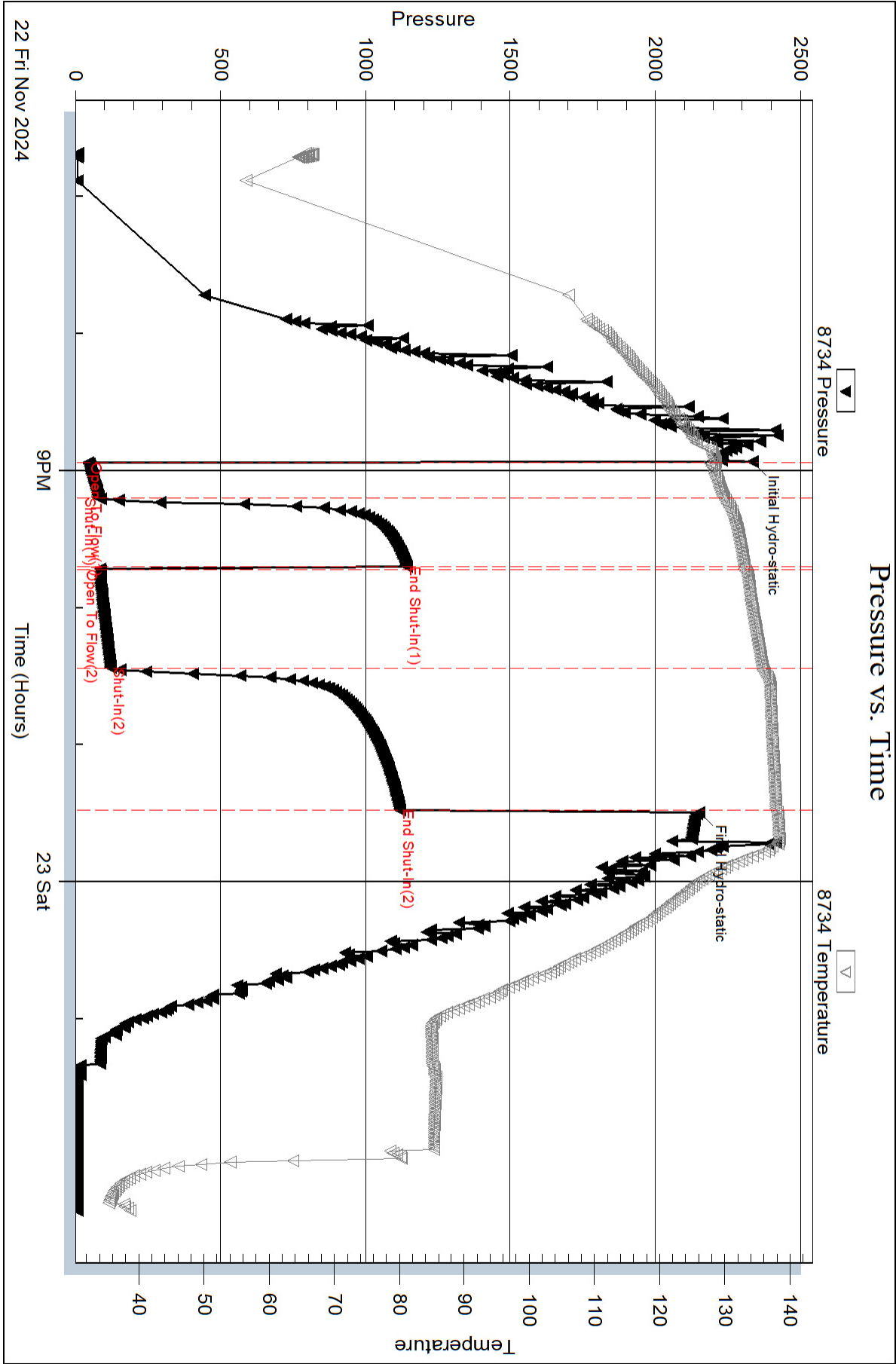
Serial #: 8734

Outside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 71969

Printed: 2024.11.25 @ 16:27:52

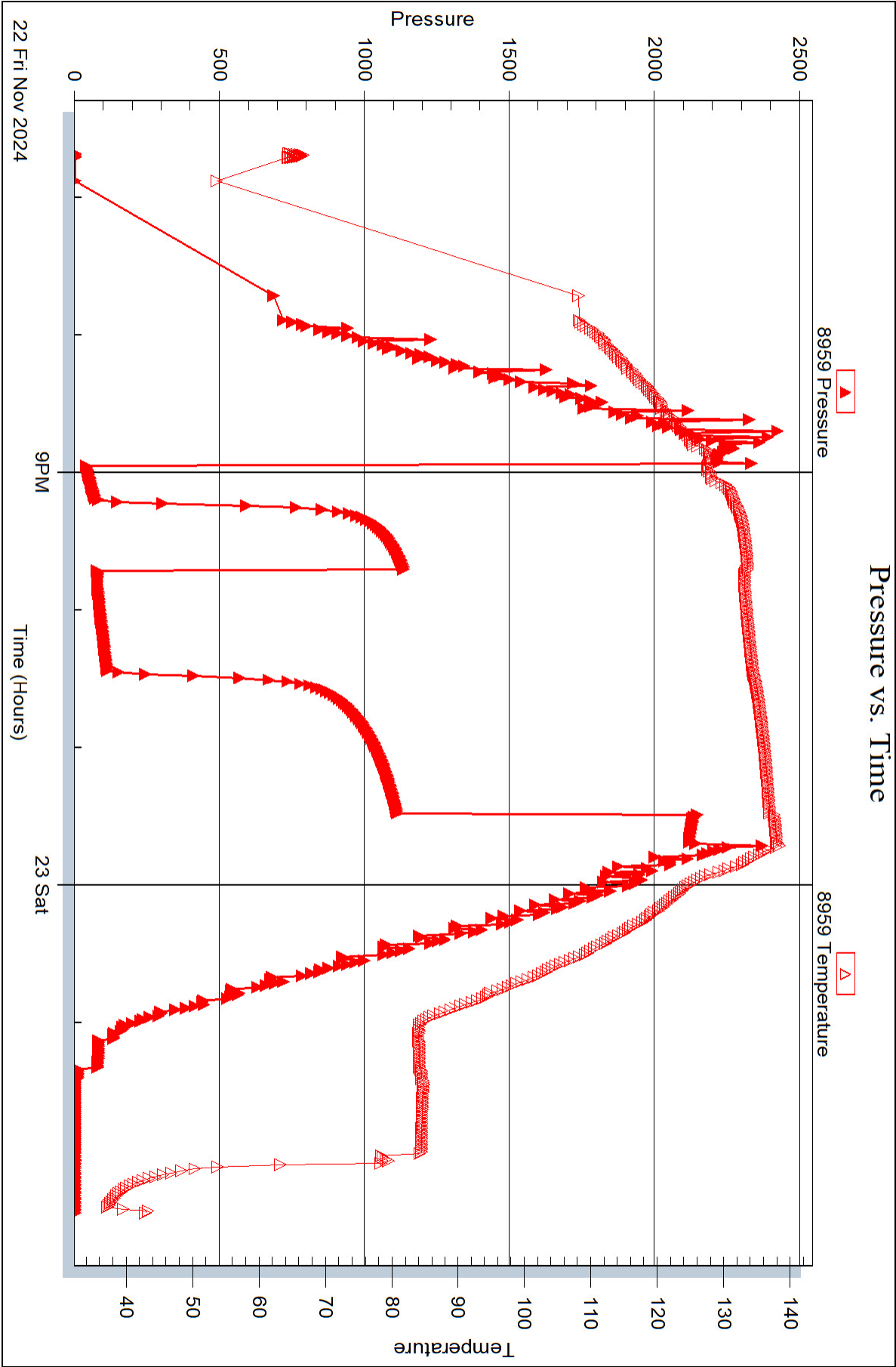
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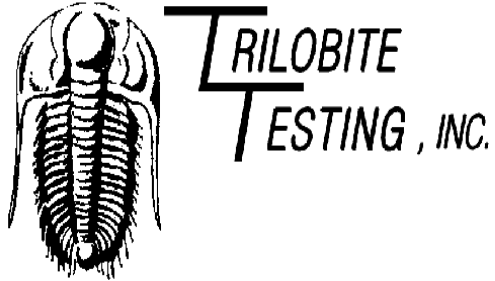
Inside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

P.O. Box 1019
Hays, KS 67601

ATTN: Marc Downing

HFI # 4-27

27-4S.-36W. Rawlins,KS

Start Date: 2024.11.23 @ 16:05:00

End Date: 2024.11.23 @ 22:23:50

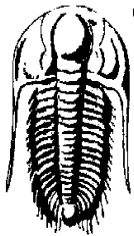
Job Ticket #: 71970 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.25 @ 16:27:19



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71970

DST#: 5

ATTN: Marc Dow ning

Test Start: 2024.11.23 @ 16:05:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:16:30

Time Test Ended: 22:23:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4693.00 ft (KB) To 4737.00 ft (KB) (TVD)

Reference Elevations: 3364.00 ft (KB)

Total Depth: 4737.00 ft (KB) (TVD)

3353.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8734 Outside

Press@RunDepth: 40.88 psig @ 4694.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.11.23

End Date:

2024.11.23

Last Calib.: 2024.11.23

Start Time: 16:05:01

End Time:

22:23:50

Time On Btm: 2024.11.23 @ 18:14:20

Time Off Btm: 2024.11.23 @ 20:01:00

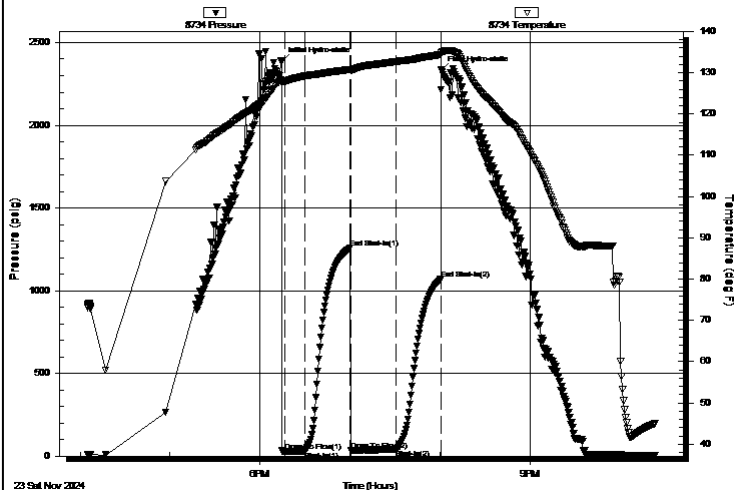
TEST COMMENT: 15-IF-Blow built to 1/4"

30-ISI-No return

30-FF-No blow

30-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2386.78	128.17	Initial Hydro-static
3	28.89	127.86	Open To Flow (1)
16	30.74	129.18	Shut-In(1)
46	1256.58	130.77	End Shut-In(1)
47	34.72	130.59	Open To Flow (2)
77	40.88	132.68	Shut-In(2)
107	1070.54	134.38	End Shut-In(2)
107	2332.56	134.92	Final Hydro-static

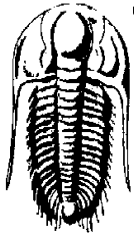
Recovery

Length (ft)	Description	Volume (bbl)
5.00	HOCM 45%O, 55%M	0.02
5.00	CGO 12%G, 88%O	0.02

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

TOOL DIAGRAM

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71970

DST#: 5

ATTN: Marc Dow ning

Test Start: 2024.11.23 @ 16:05:00

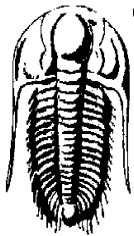
Tool Information

Drill Pipe:	Length: 4512.00 ft	Diameter: 3.80 inches	Volume: 63.29 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	78000.00 lb
		Total Volume:	64.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4693.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	44.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

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

Change Over Sub	1.00		4661.00	
Shut In Tool	5.00		4666.00	
Hydraulic tool	5.00	1113	4671.00	
Jars	5.00	01-07	4676.00	
EM Tool	5.00		4681.00	
Safety Joint	3.00	-001	4684.00	
Packer	5.00		4689.00	33.00 Bottom Of Top Packer
Packer	4.00		4693.00	
Stubb	1.00		4694.00	
Recorder	0.00	8959 Inside	4694.00	
Recorder	0.00	8734 Outside	4694.00	
Perforations	5.00		4699.00	
Change Over Sub	1.00		4700.00	
Drill Pipe	31.00		4731.00	
Change Over Sub	1.00		4732.00	
Bullnose	5.00		4737.00	44.00 Bottom Packers & Anchor
Total Tool Length:	77.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

27-4S.-36W. Rawlins,KS

P.O. Box 1019
Hays, KS 67601

HFI # 4-27

Job Ticket: 71970

DST#: 5

ATTN: Marc Dow ning

Test Start: 2024.11.23 @ 16:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	HOCM 45%O, 55%M	0.025
5.00	CGO 12%G, 88%O	0.025

Total Length: 10.00 ft

Total Volume: 0.050 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

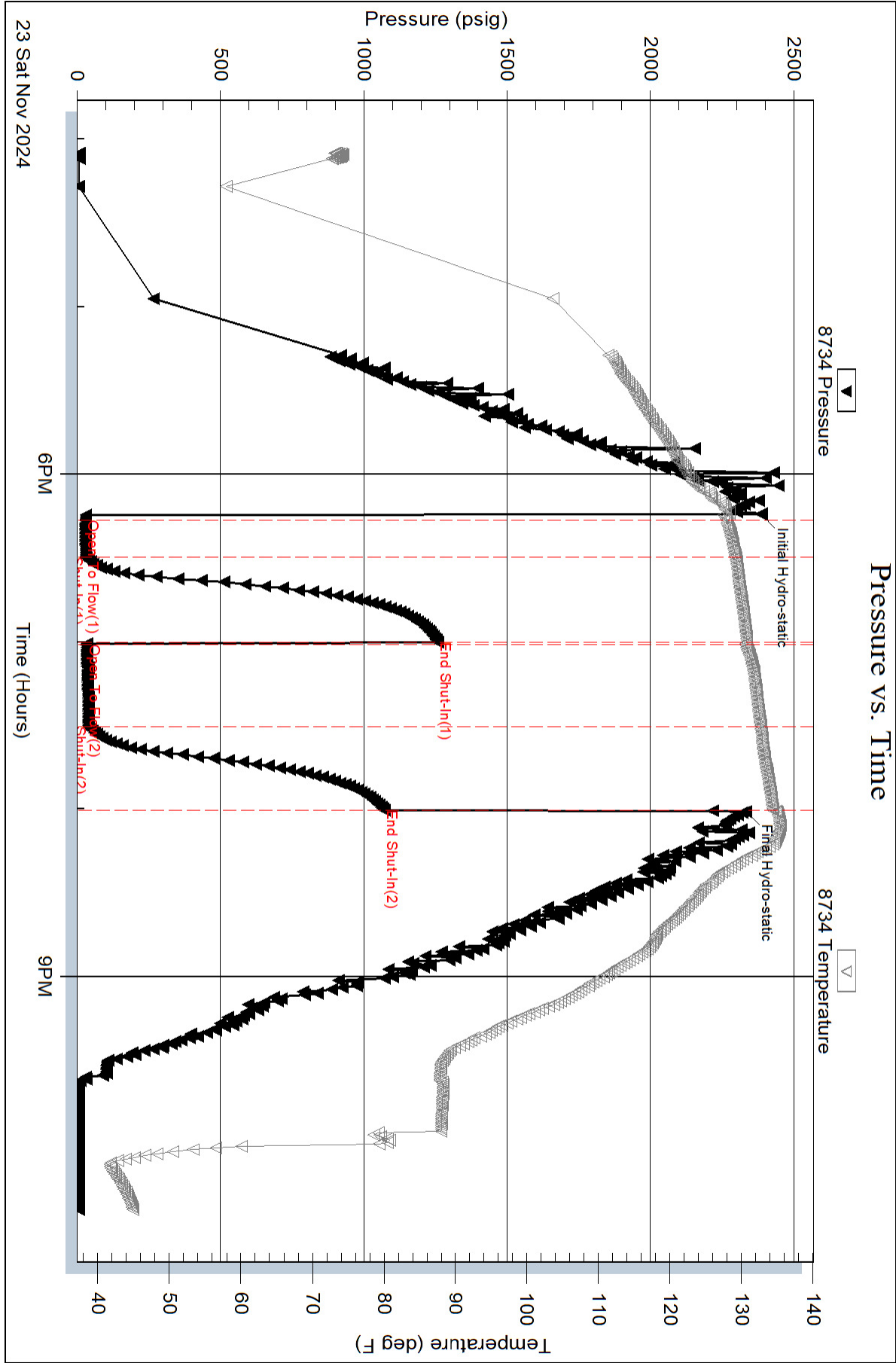
Recovery Comments: Gravity of oil = 23.8 @ 50 degs corrected to 24.8 @ 60 degs

Serial #: 8734

Outside Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 5



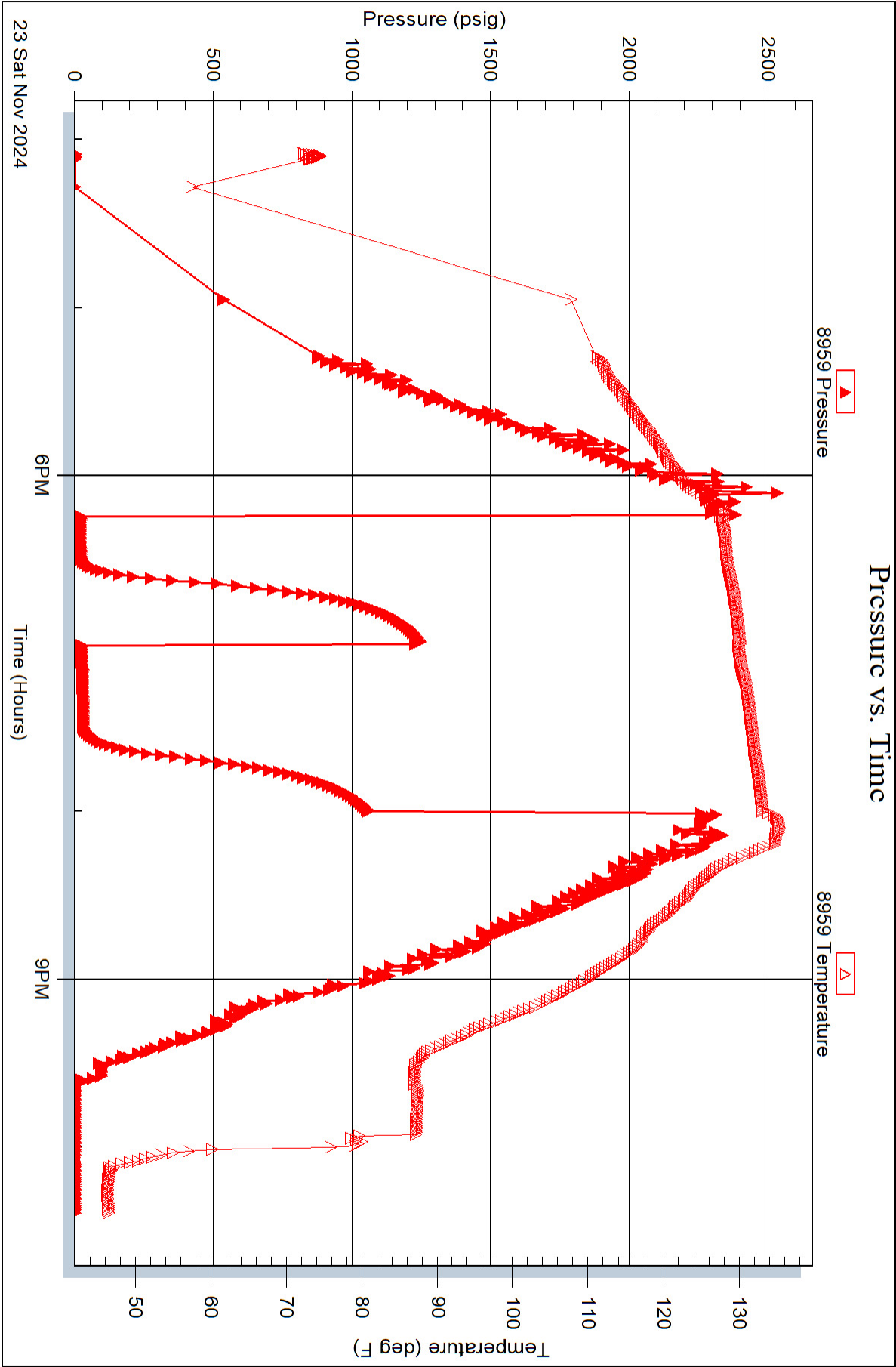
Serial #: 8959

Inside

Dow n ing Nelson Oil Co

HFI # 4-27

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71926

Well Name & No. <u>HFI #4-27</u>	Test No. <u>1</u>	Date <u>11-19-24</u>
Company <u>DNCT</u>	Elevation <u>3364</u>	KB <u>3353</u> GL
Address <u>P.O. Box 1019 Hays, KS 67601</u>		
Co. Rep / Geo <u>Marc Downing</u>	Rig <u>Duke #5</u>	
Location: Sec. <u>27</u> Twp <u>4 S.</u> Rge. <u>36 W.</u>	Co. <u>Rawlins</u>	State <u>KS</u>

Interval Tested <u>4201 - 4245</u>	Zone Tested <u>Toronto</u>	
Anchor Length <u>44'</u>	Drill Pipe Run <u>4011</u>	Mud Wt. <u>9.2</u>
Top Packer Depth <u>4196</u>	Drill Collars Run <u>177</u>	Vis <u>60</u>
Bottom Packer Depth <u>4201</u>	Wt. Pipe Run <u>—</u>	WL <u>9.4</u>
Total Depth <u>4245</u>	Chlorides <u>900</u> ppm System	LCM <u>24</u>

Blow Description IF - Blow built to 2 1/2"

ISF - No return.

FF - Blow built to 2"

FIS - No return.

Rec <u>60</u>	Feet of <u>GMD</u>	<u>10</u> %gas <u>45</u> %oil	%water <u>45</u> %mud
Rec <u>117</u>	Feet of <u>GO</u>	<u>64</u> %gas <u>36</u> %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 177 BHT 128 Gravity 26.4 API RW — @ — °F Chlorides — ppm

Initial Hydrostatic 2170 ☒ Test 1950 ☐ Ruined Shale Packer

Initial Flow 38 to 41 ☒ Jars 300 ☐ Ruined Packer

Initial Shut-In 1220 ☐ Circ Sub ☒ Hotel

Final Flow 50 to 75 ☐ Hourly Standby ☒ EM Tool Successful N/L -350

Final Shut-In 1261 ☒ Mileage 110 RT F/oberlin ☐ Accessibility

Final Hydrostatic 2122 ☐ Sampler 96.25 + 78.75 ☐ Gas Sample

18:45 ☐ Straddle ☐ Oversized Hole

Initial Flow 15 T-Started 20:25 ☐ Shale Packer ☐ Sub Total -350

Initial Shut-In 30 T-Open 22:45 ☐ Extra Packer ☐ Total 2075

Final Flow 45 T-Pulled 01:15 ☐ Extra Recorder ☐ Tool Loaded @

Final Shut-In 60 T-Out 04:13 ☐ Day Standby ☐ MP/DST Disc't

Comments

Approved By _____ Our Representative A. J. Johnson

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. **71967**

Well Name & No. HFI #4-27 Test No. 2 Date 11-20-24
 Company DNOGI Elevation 3364 KB 3353 GL
 Address P.O. 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 4396-4448 Zone Tested LKC" 5"
 Anchor Length 52' Drill Pipe Run 4199 Mud Wt. 9.5
 Top Packer Depth 4391 Drill Collars Run 177 Vis SS
 Bottom Packer Depth 4396 Wt. Pipe Run --- WL 10.6
 Total Depth 4448 Chlorides 1800 ppm System LCM 2#

Blow Description IF - R.O.B (11 inches) @ 10 mins (built to 22 1/2")
ISI - Return ASASI built to 3 1/2"
FF - R.O.B @ 19 mins (blow built to 18")
FSI - Return ASASI built to 1 1/2 reduced to surface blow

Rec <u>295</u>	Feet of <u>G.M.C.D</u>	<u>17</u>	%gas <u>60</u>	%oil <u>---</u>	%water <u>23</u>	%mud <u>---</u>
Rec <u>70</u>	Feet of <u>CGO</u>	<u>25</u>	%gas <u>75</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>
Rec <u>0</u>	Feet of <u>565' GIP</u>		%gas <u>---</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>
Rec <u>---</u>	Feet of <u>---</u>		%gas <u>---</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>
Rec <u>---</u>	Feet of <u>---</u>		%gas <u>---</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>
Rec <u>---</u>	Feet of <u>---</u>		%gas <u>---</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>
Rec <u>---</u>	Feet of <u>---</u>		%gas <u>---</u>	%oil <u>---</u>	%water <u>---</u>	%mud <u>---</u>

Rec Total 365 BHT 136 Gravity 38.0 API RW --- @ --- °F Chlorides --- ppm

Initial Hydrostatic 2356 ☒ Test 1950 ☐ Ruined Shale Packer ---
 Initial Flow 110 to 108 ☒ Jars 300 ☐ Ruined Packer ---
 Initial Shut-In 795 ☐ Circ Sub --- ☒ Hotel ---
 Final Flow 146 to 186 ☐ Hourly Standby --- ☒ EM Tool Successful N/C -350
 Final Shut-In 566 ☒ Mileage 110 RT Fiberlin ☐ Accessibility ---
 Final Hydrostatic 2391 ☐ Sampler 90 mi 157.50 ☐ Gas Sample ---

T- On Location 22:00 ☐ Straddle --- ☐ Oversized Hole ---
 Initial Flow 15 T-Started 22:40 ☐ Shale Packer --- ☐ Sub Total -350
 Initial Shut-In 30 T-Open 01:09 ☐ Extra Packer --- ☐ Total 2057.50
 Final Flow 45 T-Pulled 03:39 ☐ Extra Recorder --- ☐ Tool Loaded --- @ ---
 Final Shut-In 60 T-Out 06:53 ☐ Day Standby --- ☐ MP/DST Disc't ---

Comments * Bled down 5 mins after IFP
* Bled down 5 mins after FFP
Severe plugging on IFP, cleaned up

Approved By --- Our Representative A. Martin Johnson

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71968**

Well Name & No. <u>HFI #4-27</u>	Test No. <u>3</u>	Date <u>11-21-24</u>
Company <u>DNOCS</u>	Elevation <u>3364</u>	KB <u>3353</u> GL
Address <u>P.O. Box 1019 Hays, KS 67601</u>		
Co. Rep / Geo <u>Mark Downing</u>	Rig <u>Duke #5</u>	
Location: Sec. <u>27</u> Twp <u>4S.</u> Rge. <u>36W.</u> Co. <u>Rawlins</u> State <u>KS</u>		

Interval Tested <u>4475 - 4520</u>	Zone Tested <u>UKL "L" + Marmaton</u>
Anchor Length <u>45'</u>	Drill Pipe Run <u>4292</u> Mud Wt. <u>9.3</u>
Top Packer Depth <u>4470</u>	Drill Collars Run <u>177</u> Vis <u>56</u>
Bottom Packer Depth <u>4475</u>	Wt. Pipe Run <u> </u> WL <u>10.8</u>
Total Depth <u>4520</u>	Chlorides <u>1000</u> ppm System LCM <u>34</u>

Blow Description IF - B.O.B (11 inches) @ 11 mins (blow built to 14 1/4")
ISI - Return @ 3 mins, maintained surface blow
EF - B.O.B @ 27 mins (blow built to 12 1/4")
FSI - No return.

Rec <u>15</u>	Feet of <u>GOCM</u>	<u>10</u> %gas <u>30</u> %oil %water <u>60</u> %mud
Rec <u>605</u>	Feet of <u>C90</u>	<u>35</u> %gas <u>65</u> %oil %water %mud
Rec <u>0</u>	Feet of <u>380' GIP</u>	%gas %oil %water %mud
Rec <u> </u>	Feet of <u> </u>	%gas %oil %water %mud
Rec <u> </u>	Feet of <u> </u>	%gas %oil %water %mud
Rec <u> </u>	Feet of <u> </u>	%gas %oil %water %mud
Rec <u> </u>	Feet of <u> </u>	%gas %oil %water %mud

Rec Total 620 BHT 139 Gravity 25.7 API RW @ °F Chlorides ppm

Initial Hydrostatic <u>2249</u>	☒ Test 1950	☐ Ruined Shale Packer
Initial Flow <u>45</u> to <u>100</u>	☒ Jars 300	☐ Ruined Packer
Initial Shut-In <u>1238</u>	☐ Circ Sub	☒ Hotel
Final Flow <u>111</u> to <u>195</u>	☐ Hourly Standby	☒ EM Tool Successful <u>N/C</u> -350
Final Shut-In <u>1071</u>	☒ Mileage <u>110 RT</u> 157.50	☐ Accessibility
Final Hydrostatic <u>2243</u>	☐ Sampler	☐ Gas Sample
T- On Location <u>19:00</u>	☐ Straddle	☐ Oversized Hole
Initial Flow <u>15</u> T-Started <u>19:12</u>	☐ Shale Packer	☐ Sub Total -350
Initial Shut-In <u>30</u> T-Open <u>21:10</u>	☐ Extra Packer	☐ Total 2057.50
Final Flow <u>45</u> T-Pulled <u>23:40</u>	☐ Extra Recorder	☐ Tool Loaded @
Final Shut-In <u>60</u> T-Out <u>03:10</u>	☐ Day Standby	☐ MP/DST Disc't

Comments

Approved By Our Representative *Mark Downing*

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71969**

Well Name & No. HFI #4-27 Test No. 4 Date 11-22-24
Company DNOCT Elevation 3364 KB 3353 GL
Address P.O. Box 1019 Hays, KS 67601
Co. Rep / Geo Marc Downing Rig Duke #5
Location: Sec. 27 Twp 4S. Rge. 36W. Co. Randolph State KS.

Interval Tested 4594-4640 Zone Tested Pawnee
Anchor Length 46' Drill Pipe Run 4418 Mud Wt. 9.3
Top Packer Depth 4589 Drill Collars Run 177 Vis 58
Bottom Packer Depth 4594 Wt. Pipe Run — WL 8.8
Total Depth 4640 Chlorides 1200 ppm System LCM 3#

Blow Description IF - Blow built to 7 1/2"

ISI - Return ASAST built to 1/2" dead @ 13mins

FF - B.O.B (11 inches) @ 26 mins (blow built to 13 1/4")

FST - Return @ 14mins built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GMO</u>	<u>23</u>	<u>42</u>	<u>35</u>	<u>—</u>
<u>230</u>	<u>CGO</u>	<u>23</u>	<u>7700</u>	<u>—</u>	<u>—</u>
<u>0</u>	<u>380' GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 300 BHT 138 Gravity 27.2 API RW — @ — °F Chlorides — ppm

Initial Hydrostatic 2335 ☒ Test 1950 ☐ Ruined Shale Packer —

Initial Flow 44 to 79 ☒ Jars 300 ☐ Ruined Packer —

Initial Shut-In 1141 ☐ Circ Sub — ☒ Hotel —

Final Flow 85 to 120 ☐ Hourly Standby — ☒ EM Tool Successful N/C -350

Final Shut-In 1118 ☒ Mileage 110 RT 157.50 ☐ Accessibility —

Final Hydrostatic 2152 ☐ Sampler — ☐ Gas Sample —

T- On Location 18:05 ☐ Straddle — ☐ Oversized Hole —

Initial Flow 15 T-Started 18:41 ☐ Shale Packer — ☐ Sub Total -350

Initial Shut-In 30 T-Open 20:57 ☐ Extra Packer — ☐ Total 2057.50

Final Flow 45 T-Pulled 23:27 ☐ Extra Recorder — ☐ Tool Loaded — @ —

Final Shut-In 60 T-Out 02:23 ☐ Day Standby — ☐ MP/DST Disc't —

Comments —

Approved By — Our Representative Mark Downing

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71970

Well Name & No. HFI #4-27 Test No. 5 Date 11-23-24
Company DNOXI Elevation 3364 KB 3353 GL
Address P.O. 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 4693-4737 Zone Tested Cherokee Lime.
Anchor Length 44' Drill Pipe Run 4512 Mud Wt. 9.3
Top Packer Depth 4688 Drill Collars Run 177 Vis 58
Bottom Packer Depth 4693 Wt. Pipe Run — WL 8.0
Total Depth 4737 Chlorides 1000 ppm System LCM 3#
Blow Description IF - Blow built to '4"

ISI - No return.

FF - No blow

FSI - No return.

Rec <u>5</u>	Feet of <u>HOCIM</u>	%gas <u>45</u>	%oil	%water <u>55</u>	%mud
Rec <u>5</u>	Feet of <u>CGO</u>	<u>12</u>	%gas <u>88</u>	%oil	%water
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 10 BHT 135 Gravity 24.8 API RW — @ — °F Chlorides — ppm

Initial Hydrostatic 2387 ☒ Test 1950 ☐ Ruined Shale Packer
Initial Flow 29 to 31 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 1257 ☐ Circ Sub ☒ Hotel
Final Flow 35 to 41 ☐ Hourly Standby ☒ EM Tool Successful N/C -350
Final Shut-In 1071 ☒ Mileage 110RT 96.25 + 78.75 ☐ Accessibility
Final Hydrostatic 2333 ☐ Sampler ☐ Gas Sample

T- On Location 14:41 ☐ Straddle ☐ Oversized Hole
Initial Flow 15 T-Started 16:05 ☐ Shale Packer ☐ Sub Total -350
Initial Shut-In 30 T-Open 18:15 ☐ Extra Packer ☐ Total 2075
Final Flow 30 T-Pulled 20:00 ☐ Extra Recorder ☒ Tool Loaded 11-29 @ 23:00
Final Shut-In 30 T-Out 22:24 ☐ Day Standby ☐ MP/DST Disc't

Comments

Approved By _____ Our Representative [Signature]

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Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Andrew J. French, Chairperson
Dwight D. Keen, Commissioner
Annie Kuether, Commissioner

Laura Kelly, Governor

March 24, 2025

Alan Downing
Downing-Nelson Oil Co Inc
PO BOX 1019
HAYS, KS 67601-1019

Re: ACO-1
API 15-153-21344-00-00
HFI 4-24
NE/4 Sec.27-04S-36W
Rawlins County, Kansas

Dear Alan Downing:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/14/2024 and the ACO-1 was received on March 24, 2025 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department