

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	HFI 5-27
Doc ID	1885639

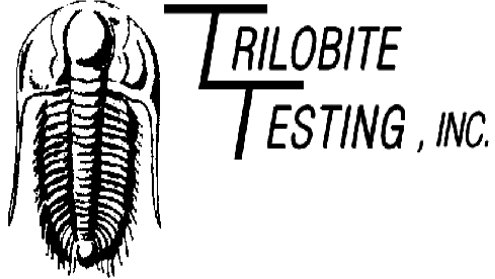
Tops

Name	Top	Datum
Top Anhydrite	3100'	270
Base Anhydrite	3140'	230
Foraker	3764'	-394
Topeka	4042'	-672
Heebner	4207'	-837
LKC	4253'	-883
Stark	4454'	-1084
BKC	4505'	-1135
Pawnee	4626'	-1256
Cherokee Shale	4702'	-1332









## DRILL STEM TEST REPORT

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

111 W 10th  
Hays, KS 67601

ATTN: Marc Downing

**HFI #5-27**

**27-4s-36w Rawlins, KS**

Start Date: 2025.11.28 @ 05:55:00

End Date: 2025.11.28 @ 13:49:36

Job Ticket #: 73251                      DST #: 1

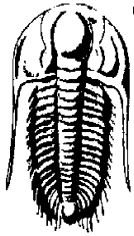
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.12.04 @ 14:59:14

Downing - Nelson Oil Co., Inc.  
27-4s-36w Rawlins, KS  
HFI #5-27  
DST # 1  
LKC "L"  
2025.11.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73251

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2025.11.28 @ 05:55:00

## GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:06

Time Test Ended: 13:49:36

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

**Interval: 4480.00 ft (KB) To 4508.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4508.00 ft (KB) (TVD)

3359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 73.09 psig @ 4481.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2025.11.28

End Date: 2025.11.28

Last Calib.: 2025.11.28

Start Time: 05:55:01

End Time: 13:49:36

Time On Btm: 2025.11.28 @ 08:40:36

Time Off Btm: 2025.11.28 @ 11:12:36

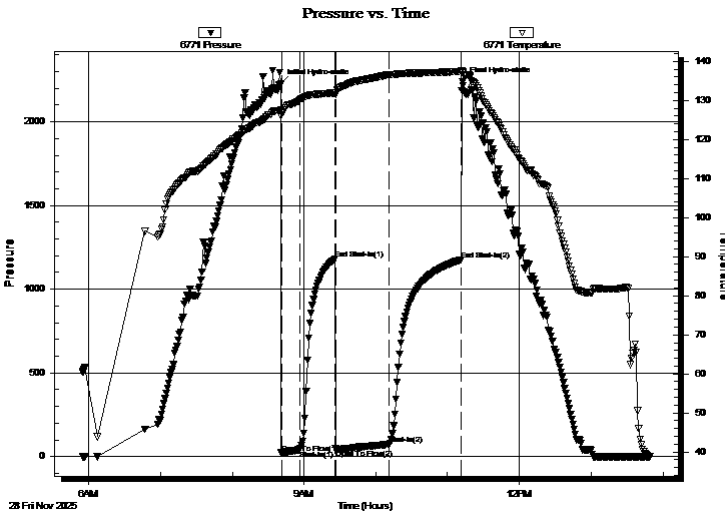
**TEST COMMENT:** 15 - IF: 1/4" Blow at open, built to 1 1/4"

30 - IS: No blow

45 - FF: Blow built to just over 4"

60 - FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.44	127.51	Initial Hydro-static
1	20.06	127.09	Open To Flow (1)
16	40.23	129.94	Shut-In(1)
46	1184.02	131.92	End Shut-In(1)
46	45.88	131.49	Open To Flow (2)
91	73.09	136.63	Shut-In(2)
151	1174.78	137.40	End Shut-In(2)
152	2239.32	137.41	Final Hydro-static

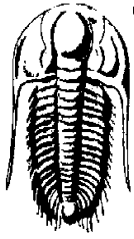
## Recovery

Length (ft)	Description	Volume (bbl)
59.00	GOWCM 60% <sub>m</sub> , 25% <sub>w</sub> , 10% <sub>g</sub> , 5% <sub>o</sub>	0.29
15.00	OWCM 63% <sub>m</sub> , 22% <sub>w</sub> , 15% <sub>o</sub>	0.07
44.00	MCO 70% <sub>o</sub> , 30% <sub>m</sub>	0.22
2.00	CGO 60% <sub>g</sub> , 40% <sub>o</sub>	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73251

**DST#: 1**

ATTN: Marc Downing

Test Start: 2025.11.28 @ 05:55:00

## Tool Information

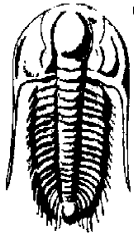
Drill Pipe:	Length: 4296.00 ft	Diameter: 3.80 inches	Volume: 60.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 61.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4480.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 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			4448.00	
Shut In Tool	5.00			4453.00	
Hydraulic tool	5.00			4458.00	
Jars	5.00			4463.00	
EM Tool	4.00			4467.00	
Safety Joint	3.00			4470.00	
Packer	5.00			4475.00	33.00 Bottom Of Top Packer
Packer	5.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6771	Inside	4481.00	
Recorder	0.00	8367	Outside	4481.00	
Perforations	24.00			4505.00	
Bullnose	3.00			4508.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73251

**DST#: 1**

ATTN: Marc Downing

Test Start: 2025.11.28 @ 05:55:00

## 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: 10.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	GOWCM 60% <i>m</i> , 25% <i>w</i> , 10% <i>g</i> , 5% <i>o</i>	0.290
15.00	OWCM 63% <i>m</i> , 22% <i>w</i> , 15% <i>o</i>	0.074
44.00	MCO 70% <i>o</i> , 30% <i>m</i>	0.216
2.00	CGO 60% <i>g</i> , 40% <i>o</i>	0.010

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity TLTM

Serial #: 6771

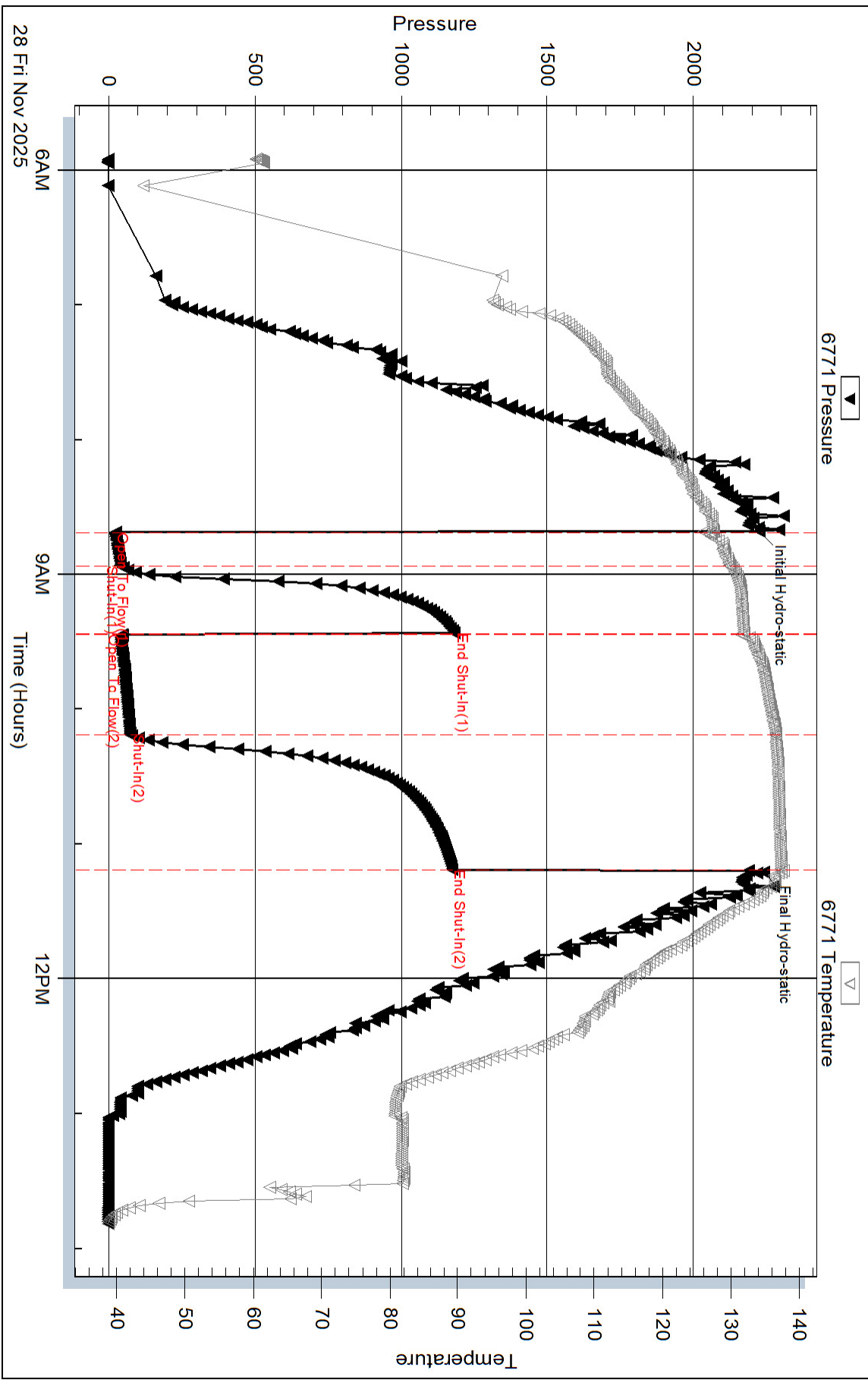
Inside

Downing - Nelson Oil Co., Inc.

HFI#5-27

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 73251

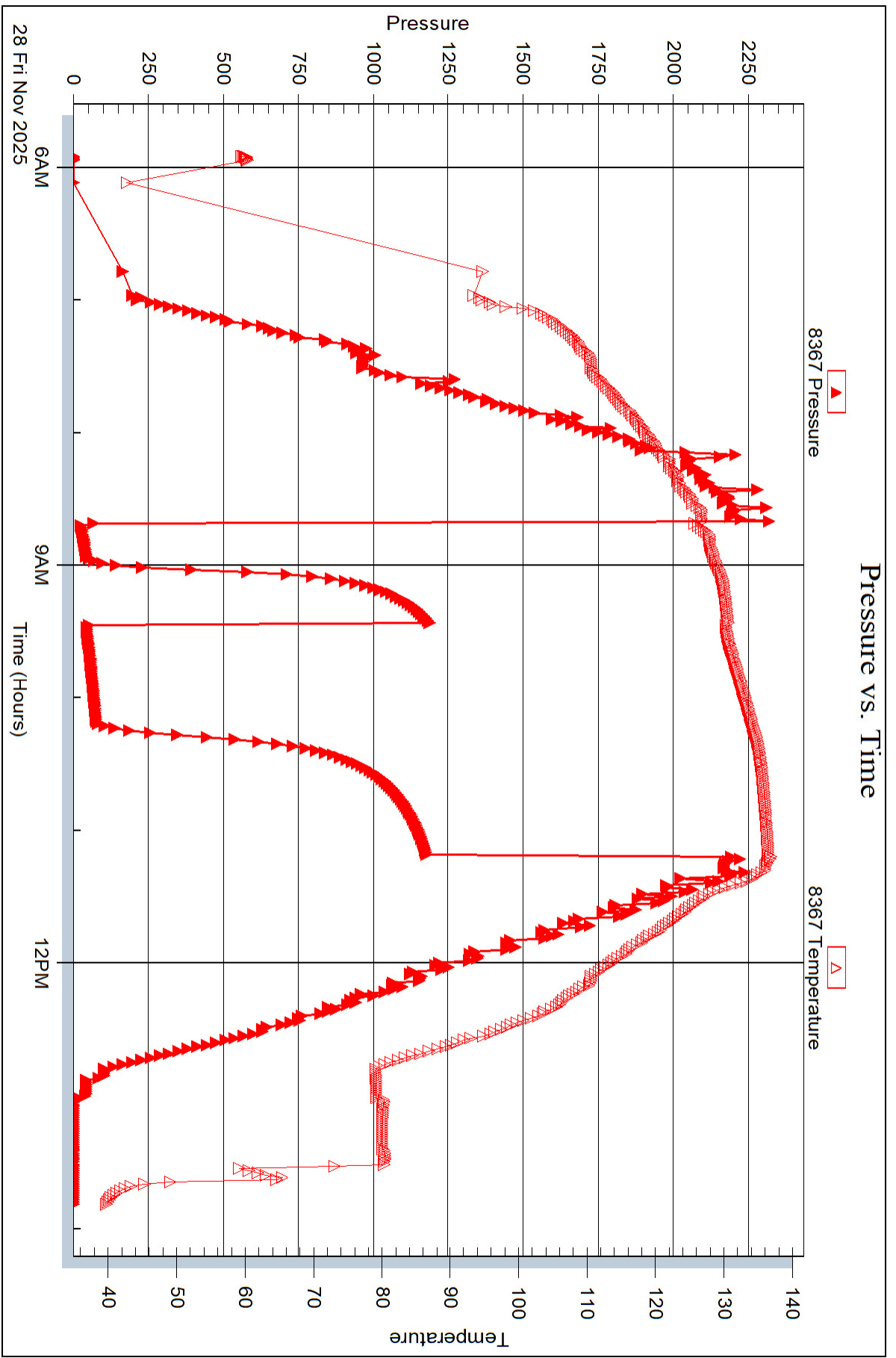
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Serial #: 8367

Outside Dow nting - Nelson Oil Co., Inc.

HFI#5-27

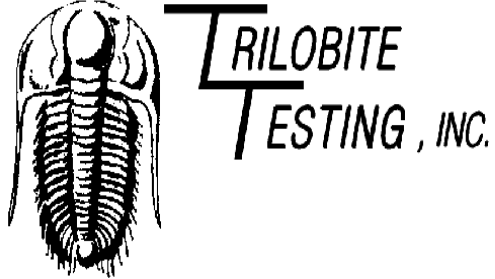
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 73251

Printed: 2025.12.04 @ 14:59:14



## DRILL STEM TEST REPORT

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

111 W 10th  
Hays, KS 67601

ATTN: Marc Downing

**HFI #5-27**

**27-4s-36w Rawlins, KS**

Start Date: 2025.11.28 @ 21:40:00

End Date: 2025.11.29 @ 04:44:21

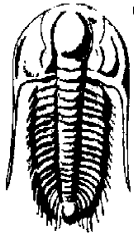
Job Ticket #: 73252                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.12.04 @ 14:58:17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73252

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2025.11.28 @ 21:40:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:36

Time Test Ended: 04:44:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4500.00 ft (KB) To 4524.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4524.00 ft (KB) (TVD)

3359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6771 Inside**

Press@RunDepth: 18.25 psig @ 4501.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2025.11.28 End Date: 2025.11.29

Last Calib.: 2025.11.29

Start Time: 21:40:01 End Time: 04:44:21

Time On Btm: 2025.11.29 @ 00:29:21

Time Off Btm: 2025.11.29 @ 02:20:06

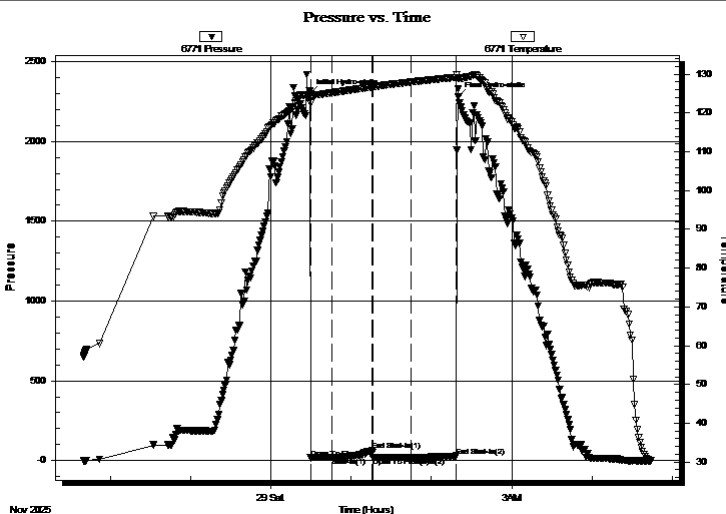
TEST COMMENT: 15 - IF: 1/4" Blow at open, built to 1/2"

30 - IS: No blow

30 - FF: No blow

30 - FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.63	124.01	Initial Hydro-static
1	16.49	122.54	Open To Flow (1)
16	18.94	125.22	Shut-In(1)
47	61.24	126.73	End Shut-In(1)
47	18.33	126.74	Open To Flow (2)
76	18.25	128.00	Shut-In(2)
110	28.76	129.21	End Shut-In(2)
111	2279.41	128.89	Final Hydro-static

## Recovery

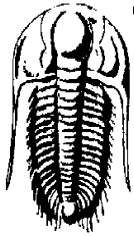
Length (ft)	Description	Volume (bbl)
1.00	Mud w /trace oil 100%m	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73252

**DST#: 2**

ATTN: Marc Downing

Test Start: 2025.11.28 @ 21:40:00

## Tool Information

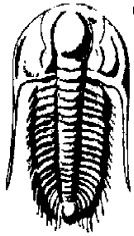
Drill Pipe:	Length: 4296.00 ft	Diameter: 3.80 inches	Volume: 60.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4500.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	57.00 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			4468.00	
Shut In Tool	5.00			4473.00	
Hydraulic tool	5.00			4478.00	
Jars	5.00			4483.00	
EM Tool	4.00			4487.00	
Safety Joint	3.00			4490.00	
Packer	5.00			4495.00	33.00 Bottom Of Top Packer
Packer	5.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	6771	Inside	4501.00	
Recorder	0.00	8367	Outside	4501.00	
Perforations	20.00			4521.00	
Bullnose	3.00			4524.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73252

**DST#: 2**

ATTN: Marc Downing

Test Start: 2025.11.28 @ 21:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w /trace oil 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

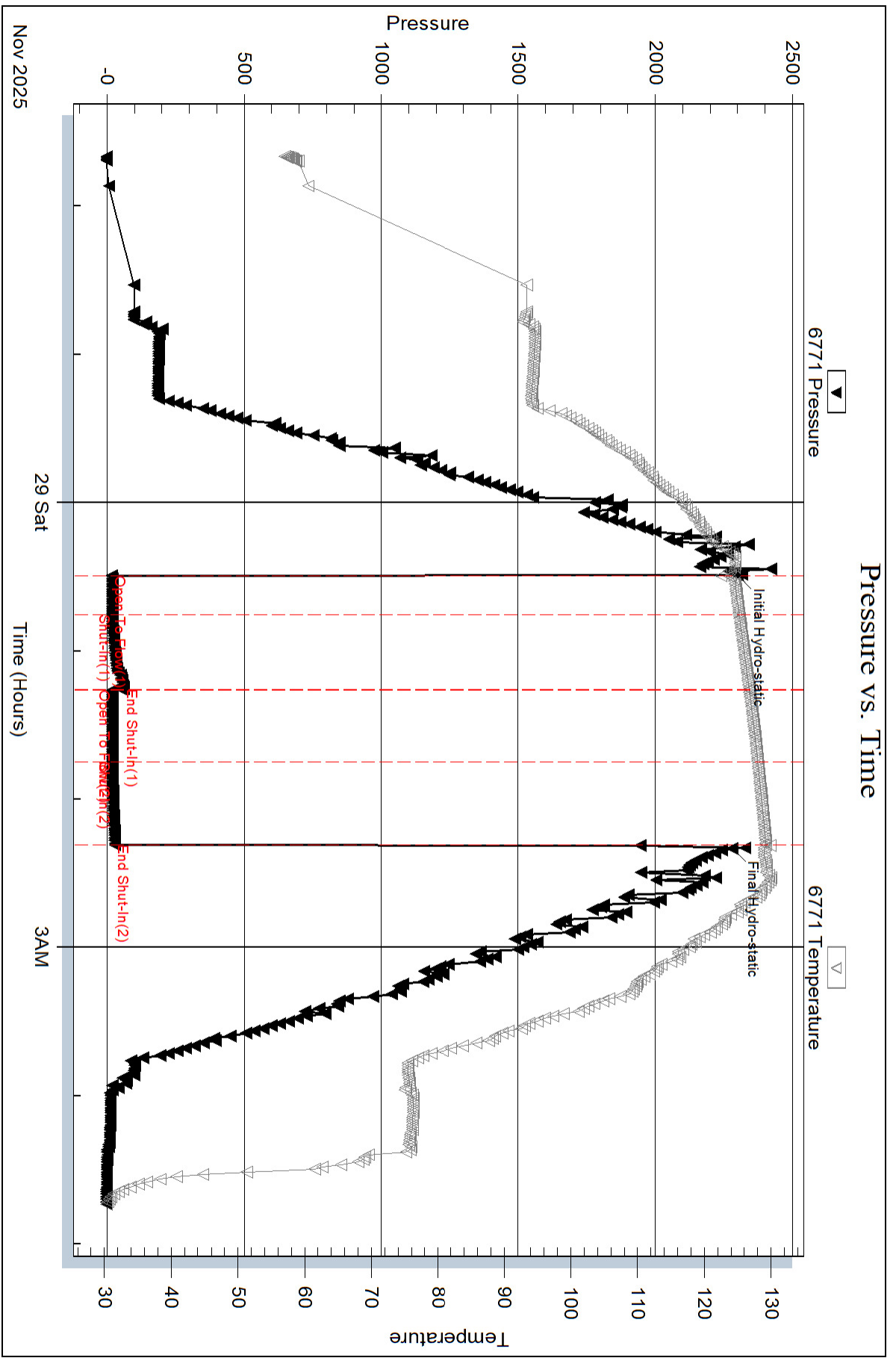
Serial #: 6771

Inside

Downing - Nelson Oil Co., Inc.

HFI#5-27

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 73252

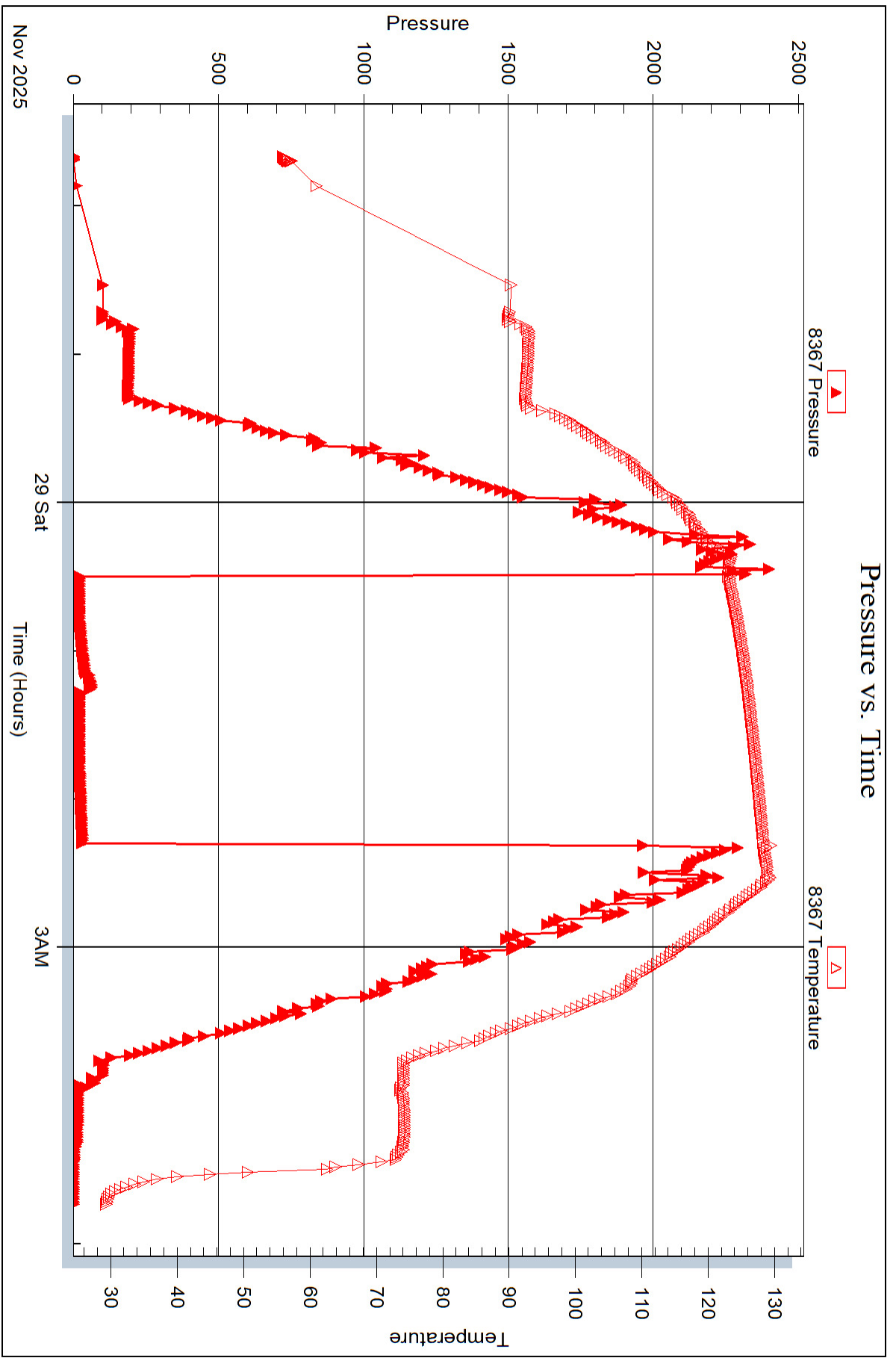
Printed: 2025.12.04 @ 14:58:18

Serial #: 8367

Outside Dow nting - Nelson Oil Co., Inc.

HFI#5-27

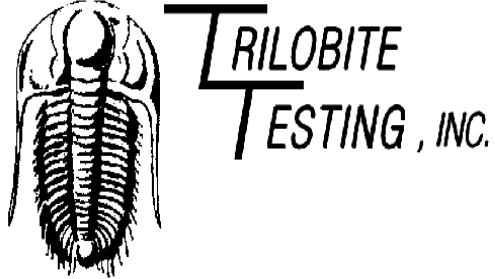
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 73252

Printed: 2025.12.04 @ 14:58:18



## DRILL STEM TEST REPORT

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

111 W 10th  
Hays, KS 67601

ATTN: Marc Downing

**HFI #5-27**

**27-4s-36w Rawlins, KS**

Start Date: 2025.11.29 @ 23:57:00

End Date: 2025.11.30 @ 08:38:50

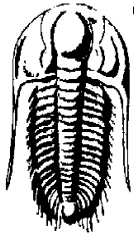
Job Ticket #: 73253                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.12.04 @ 14:54:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73253

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2025.11.29 @ 23:57:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:52:36

Time Test Ended: 08:38:50

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4601.00 ft (KB) To 4643.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4643.00 ft (KB) (TVD)

3359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 127.09 psig @ 4602.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2025.11.29

End Date: 2025.11.30

Last Calib.: 2025.11.30

Start Time: 23:57:01

End Time: 08:38:50

Time On Btm: 2025.11.30 @ 02:52:21

Time Off Btm: 2025.11.30 @ 05:27:36

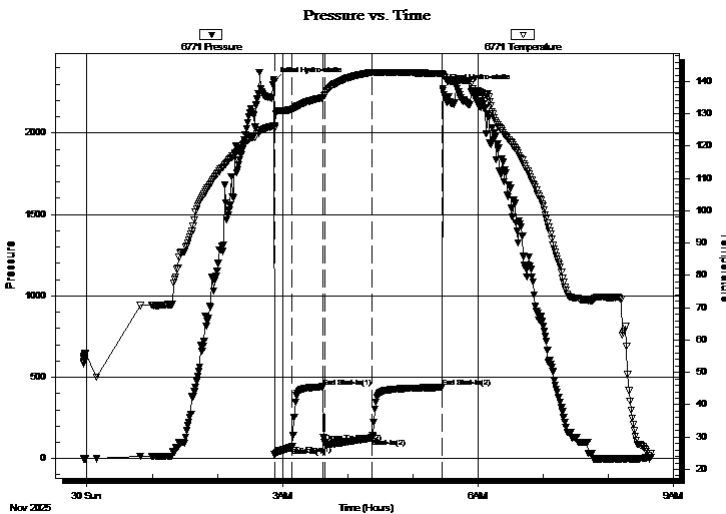
**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 13 min. (Diesel in bucket)

30 - IS: Blow back built to just over 1"

45 - FF: Blow built to BOB at 11 min., built to 27"

60 - FS: Blow back built to 5 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.61	126.03	Initial Hydro-static
1	23.39	125.54	Open To Flow (1)
17	70.39	131.37	Shut-In(1)
45	440.35	134.98	End Shut-In(1)
47	97.30	135.68	Open To Flow (2)
91	127.09	142.83	Shut-In(2)
155	436.79	142.46	End Shut-In(2)
156	2274.55	142.19	Final Hydro-static

## Recovery

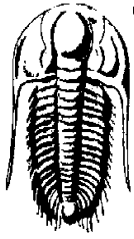
Length (ft)	Description	Volume (bbl)
59.00	GOCM 50% m, 35% o, 15% g	0.29
63.00	GMCO 80% o, 15% m, 5% g	0.31
185.00	CGO 80% o, 20% g	2.10
0.00	GIP = 560'	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73253

**DST#: 3**

ATTN: Marc Downing

Test Start: 2025.11.29 @ 23:57:00

## Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 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: 20000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 62.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4601.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

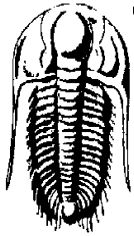
Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4569.00	
Shut In Tool	5.00			4574.00	
Hydraulic tool	5.00			4579.00	
Jars	5.00			4584.00	
EM Tool	4.00			4588.00	
Safety Joint	3.00			4591.00	
Packer	5.00			4596.00	33.00 Bottom Of Top Packer
Packer	5.00			4601.00	
Stubb	1.00			4602.00	
Recorder	0.00	6771	Inside	4602.00	
Recorder	0.00	8367	Outside	4602.00	
Perforations	5.00			4607.00	
Blank Spacing	33.00			4640.00	
Bullnose	3.00			4643.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73253

**DST#: 3**

ATTN: Marc Downing

Test Start: 2025.11.29 @ 23:57:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 27 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	GOCM 50% <i>m</i> , 35% <i>o</i> , 15% <i>g</i>	0.290
63.00	GMCO 80% <i>o</i> , 15% <i>m</i> , 5% <i>g</i>	0.310
185.00	CGO 80% <i>o</i> , 20% <i>g</i>	2.103
0.00	GIP = 560'	0.000

Total Length: 307.00 ft      Total Volume: 2.703 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity = 23 api @ 20 deg F    Corrected Gravity = 27 api

Serial #: 6771

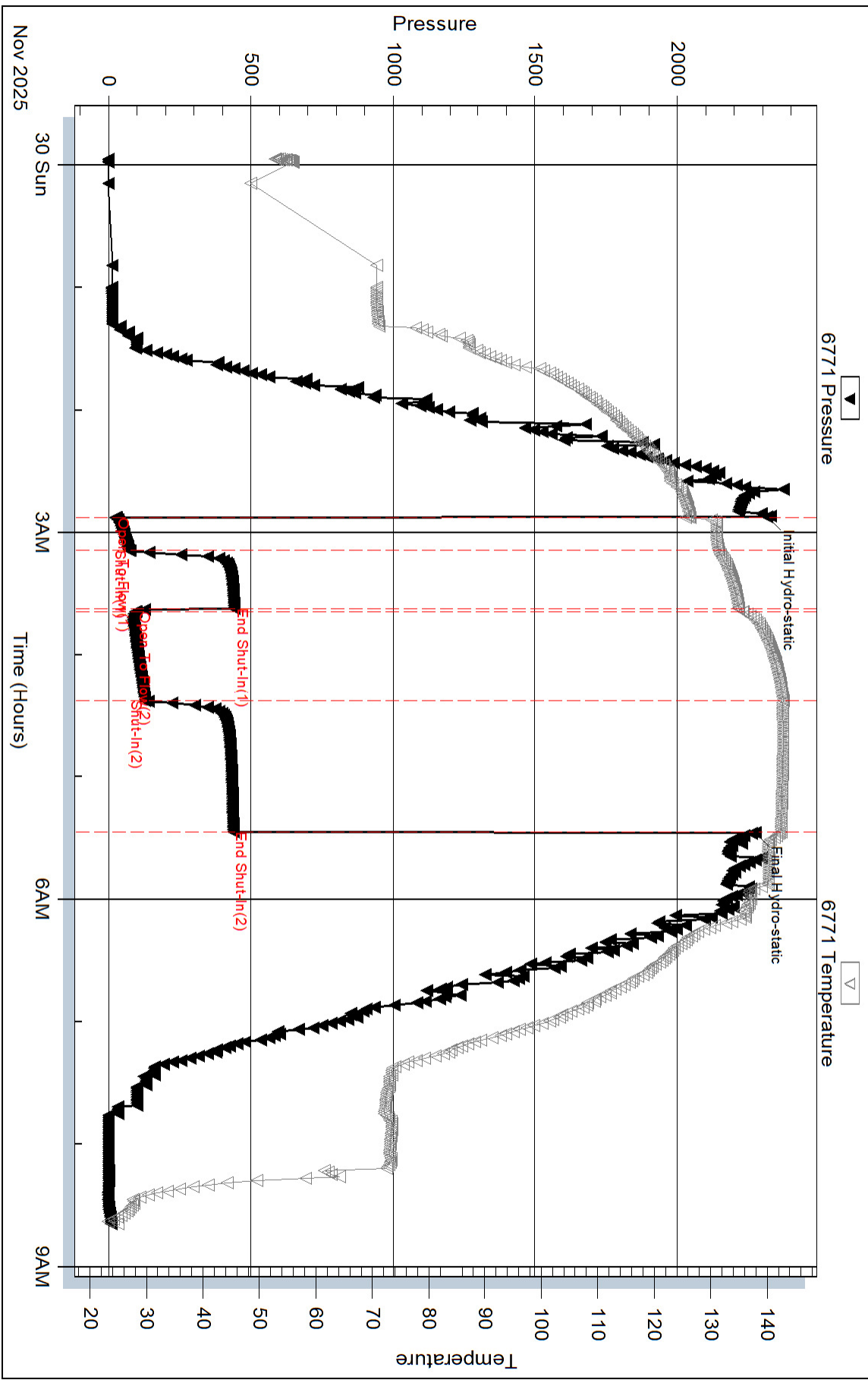
Inside

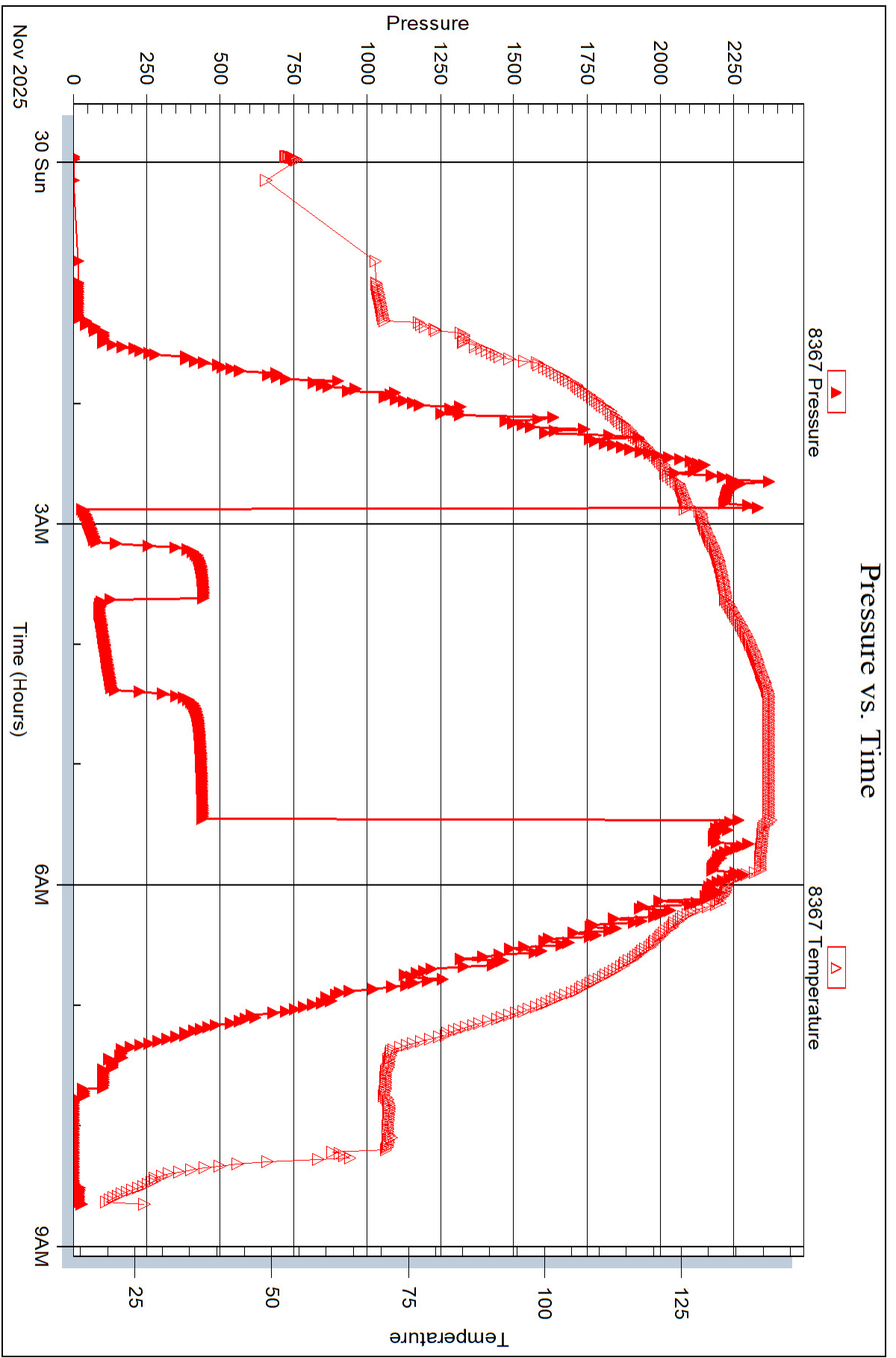
Downing - Nelson Oil Co., Inc.

HFI#5-27

DST Test Number: 3

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

111 W 10th  
Hays, KS 67601

ATTN: Marc Downing

**HFI #5-27**

**27-4s-36w Rawlins, KS**

Start Date: 2025.12.01 @ 00:15:00

End Date: 2025.12.01 @ 08:31:51

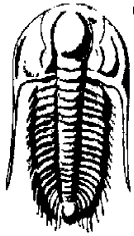
Job Ticket #: 73254                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.12.04 @ 14:36:38



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73254

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2025.12.01 @ 00:15:00

## GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:21

Time Test Ended: 08:31:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4696.00 ft (KB) To 4742.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4742.00 ft (KB) (TVD)

3359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 40.08 psig @ 4697.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2025.12.01

End Date:

2025.12.01

Last Calib.: 2025.12.01

Start Time: 00:15:01

End Time:

08:31:51

Time On Btm: 2025.12.01 @ 02:55:06

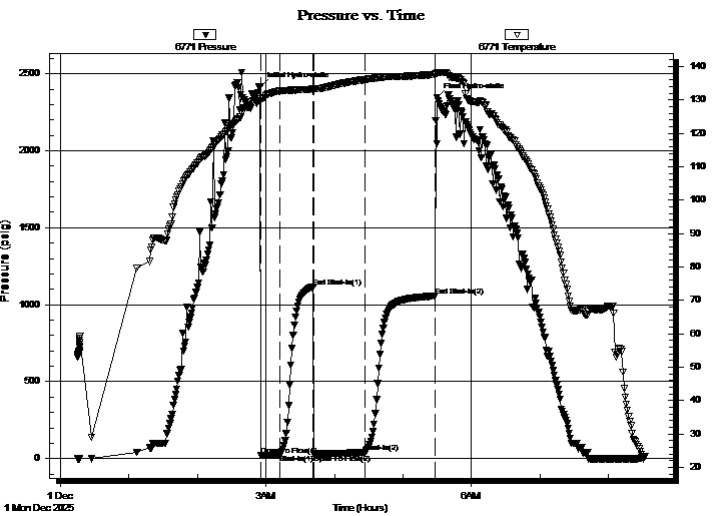
Time Off Btm: 2025.12.01 @ 05:30:06

**TEST COMMENT:** 15 - IF: Blow built to 1 1/4" (Diesel in bucket)

30 - IS: No blow

45 - FF: Blow built to 2 3/4"

60 - FS: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2414.03	130.29	Initial Hydro-static
1	21.28	129.84	Open To Flow (1)
17	25.43	132.74	Shut-In(1)
47	1116.19	133.27	End Shut-In(1)
48	29.27	133.31	Open To Flow (2)
92	40.08	136.12	Shut-In(2)
154	1056.53	137.65	End Shut-In(2)
155	2346.12	138.28	Final Hydro-static

## Recovery

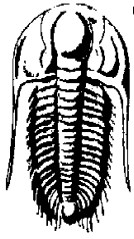
Length (ft)	Description	Volume (bbl)
30.00	OCM 85% m, 10% o, 5% g	0.15
30.00	CGO 90% o, 10% g	0.15
0.00	GIP = 180'	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73254

**DST#: 4**

ATTN: Marc Downing

Test Start: 2025.12.01 @ 00:15:00

## Tool Information

Drill Pipe:	Length: 4515.00 ft	Diameter: 3.80 inches	Volume: 63.33 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: 20000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4696.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

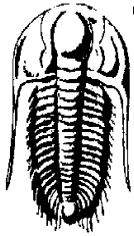
Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4664.00	
Shut In Tool	5.00			4669.00	
Hydraulic tool	5.00			4674.00	
Jars	5.00			4679.00	
EM Tool	4.00			4683.00	
Safety Joint	3.00			4686.00	
Packer	5.00			4691.00	33.00 Bottom Of Top Packer
Packer	5.00			4696.00	
Stubb	1.00			4697.00	
Recorder	0.00	6771	Inside	4697.00	
Recorder	0.00	8367	Outside	4697.00	
Perforations	5.00			4702.00	
Blank Spacing	34.00			4736.00	
Perforations	3.00			4739.00	
Bullnose	3.00			4742.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**27-4s-36w Rawlins, KS**

111 W 10th  
Hays, KS 67601

**HFI #5-27**

Job Ticket: 73254

**DST#: 4**

ATTN: Marc Downing

Test Start: 2025.12.01 @ 00:15:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1800.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 23.2 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 85% <sub>m</sub> , 10% <sub>o</sub> , 5% <sub>g</sub>	0.148
30.00	CGO 90% <sub>o</sub> , 10% <sub>g</sub>	0.148
0.00	GIP = 180'	0.000

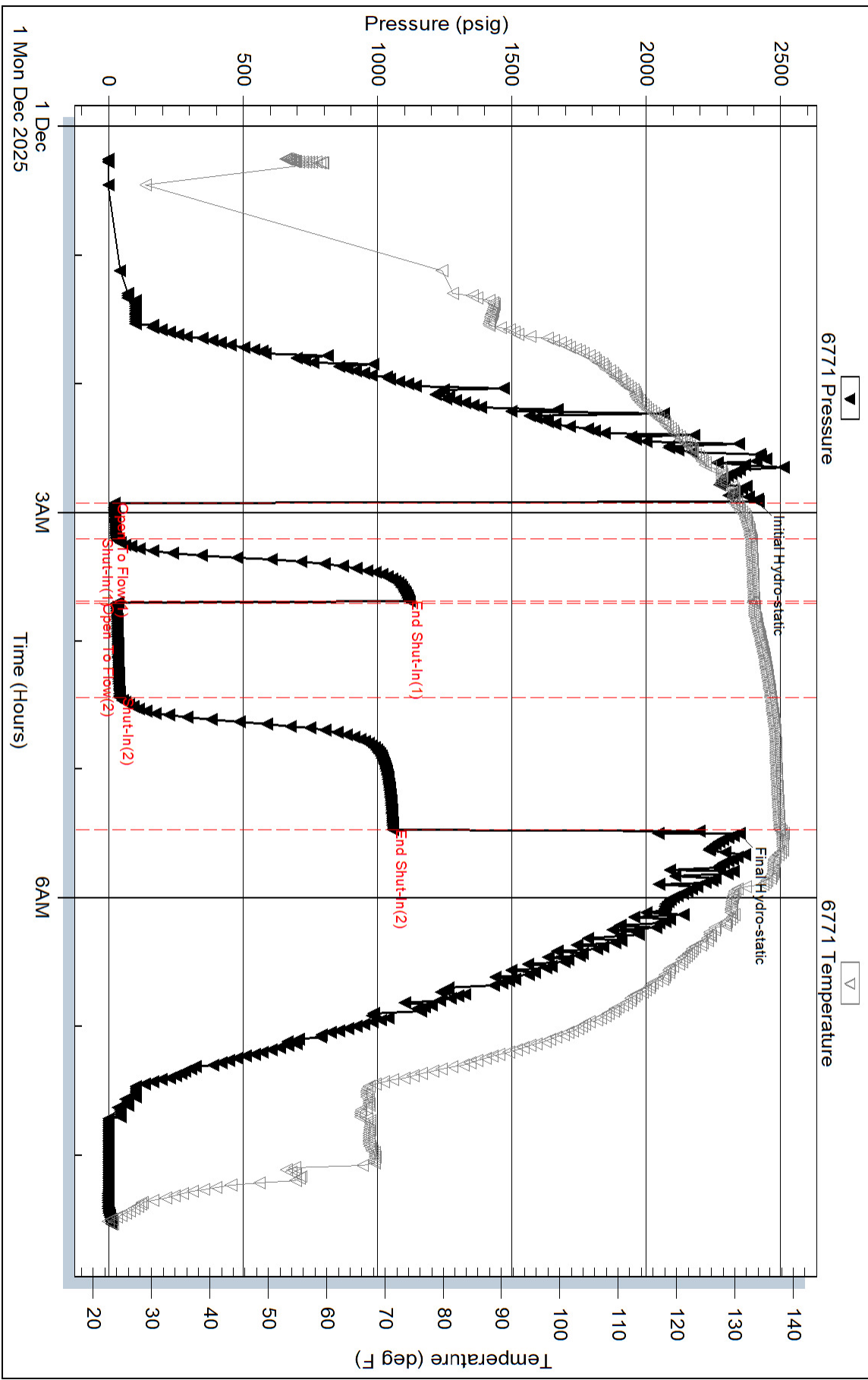
Total Length: 60.00 ft      Total Volume: 0.296 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity = 20.2 api @ 30 deg F      Corrected Gravity = 23.2 api

### Pressure vs. Time

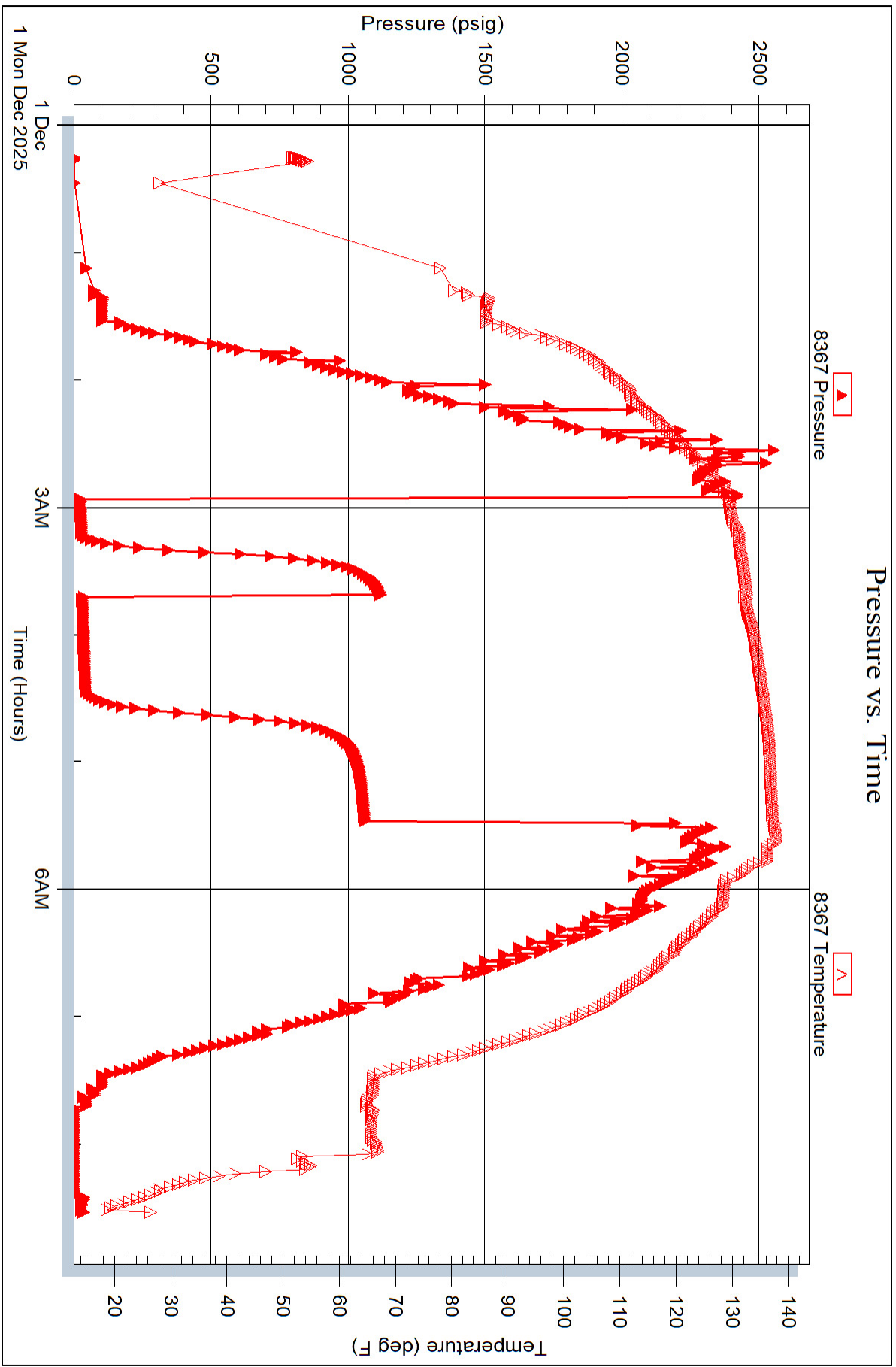


Serial #: 8367

Outside Dow nting - Nelson Oil Co., Inc.

HFI#5-27

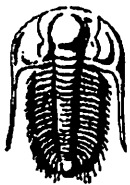
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 73254

Printed: 2025.12.04 @ 14:36:39



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 73251

Well Name & No. HFI #5-27 Test No. 1 Date 11-28-25  
 Company Downing-Nelson Oil Co Inc Elevation 3370 KB 3359 GL  
 Address 111 W 10th Hays KS 67601  
 Co. Rep / Geo Marc Downing Rig Duke #5  
 Location: Sec. 27 Twp 4s Rge. 36w Co. Rawlins State KS

Interval Tested 4480 - 4508 Zone Tested LKC "L"  
 Anchor Length 28 Drill Pipe Run 4296 Mud Wt. 9.4  
 Top Packer Depth 4475 Drill Collars Run 176 Vis 6.5  
 Bottom Packer Depth 4480 Wt. Pipe Run - WL 10.4  
 Total Depth 4508 Chlorides 1400 ppm System LCM 3

Blow Description IF: 1/4" Blow at open, built to 1 1/4"  
ISI: No blow  
FF: Blow built to just over 4"  
FSI: No blow

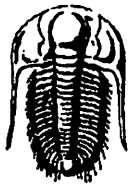
Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>60</u>	<u>60</u>	<u>40</u>		
<u>44</u>	<u>MCO</u>		<u>70</u>	<u>30</u>	
<u>15</u>	<u>OWCM</u>		<u>15</u>	<u>22</u>	<u>63</u>
<u>59</u>	<u>60WCM</u>	<u>10</u>	<u>5</u>	<u>25</u>	<u>60</u>
	<u>FIP = 56'</u>				

Rec Total 120 BHT 137 Gravity TLTM API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2225  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 20 to 40  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 1184  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 46 to 73  Hourly Standby \_\_\_\_\_  EM Tool Successful -175  
 Final Shut-In 1175  Mileage 112 RT 196  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2239  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T- On Location 3:15  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 15 T-Started 5:55  Shale Packer \_\_\_\_\_  Sub Total -175  
 Initial Shut-In 30 T-Open 8:41  Extra Packer \_\_\_\_\_  Total 2271  
 Final Flow 45 T-Pulled 11:11  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 60 T-Out 13:45  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jamar Winder

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. 73252

Well Name & No. HFI #5-27 Test No. 2 Date 11-28-25  
 Company Downing-Nelson Oil Co Inc Elevation 3370 KB 3359 GL  
 Address 111 W 10th Hays, KS 67601  
 Co. Rep / Geo Marc Downing Rig Duke #5  
 Location: Sec. 27 Twp 4S Rge. 36W Co. Rawlins State KS

Interval Tested 4500 - 4524 Zone Tested Marmaton  
 Anchor Length 24 Drill Pipe Run 4296 Mud Wt. 9.5  
 Top Packer Depth 4495 Drill Collars Run 176 Vis 68  
 Bottom Packer Depth 4500 Wt. Pipe Run - WL 8.8  
 Total Depth 4524 Chlorides 1600 ppm System LCM 4

Blow Description IF: 1/4" Blow at open, built to 1/2"  
ISI: No blow  
FF: No blow  
FSI: No blow

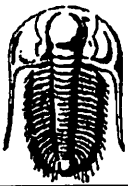
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>mud w/trace oil</u>	<u>trace</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 129 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2301  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 16 to 19  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 61  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 18 to 19  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In 29  Mileage 112 RT 196  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2279  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T- On Location 20:40 #28  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 15 T-Started 21:40  Shale Packer \_\_\_\_\_  Sub Total 0  
 Initial Shut-In 30 T-Open 00:29  Extra Packer \_\_\_\_\_  Total 2446  
 Final Flow 30 T-Pulled 2:18  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 30 T-Out 4:40 #29  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James W. ...

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. 73253

Well Name & No. HFI #5-27 Test No. 3 Date 11-30-25  
 Company Downing-Nelson Oil Co Inc Elevation 3370 KB 3359 GL  
 Address 111 W 10th Hays, KS 67601  
 Co. Rep / Geo Marc Downing Rig Duke #5  
 Location: Sec. 27 Twp 4s Rge. 36w Co. Rawlins State KS

Interval Tested 4601-4643 Zone Tested Pawnee  
 Anchor Length 42 Drill Pipe Run 4420 Mud Wt. 9.3  
 Top Packer Depth 4596 Drill Collars Run 176 Vis 63  
 Bottom Packer Depth 4601 Wt. Pipe Run - WL 8  
 Total Depth 4643 Chlorides 1400 13 ppm System LCM 4  
 Blow Description IF: Blow built to BOB (11") at 11 min (diesel in bucket)  
ISI: Blowback built to just over 1"  
FF: Blow built to BOB at 11 min, built to 27"  
FSI: Blowback built to 5 3/4"

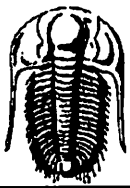
Rec	Feet of	%gas	%oil	%water	%mud
<u>185</u>	<u>CGO</u>	<u>20</u>	<u>80</u>		
<u>63</u>	<u>GMCO</u>	<u>5</u>	<u>80</u>		<u>15</u>
<u>59</u>	<u>60cm</u>	<u>15</u>	<u>35</u>		<u>50</u>
	<u>GIP = 560'</u>				

Rec Total 307 BHT 143 Gravity 27 API RW \_\_\_\_\_ @ \_\_\_\_\_ \*F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2316  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 23 to 70  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_ 440  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 97 to 127  Hourly Standby \_\_\_\_\_  EM Tool Successful -350  
 Final Shut-In \_\_\_\_\_ 437  Mileage 112 RT 196  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2275  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 22:10 <sup>11/29</sup>  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 15 T-Started 23:57  Shale Packer \_\_\_\_\_  Sub Total -350  
 Initial Shut-In 30 T-Open 2:52  Extra Packer \_\_\_\_\_  Total 2096  
 Final Flow 45 T-Pulled 5:26  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 60 T-Out 8:30  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James Winder

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. 73254

Well Name & No. HFI #5-27 Test No. 4 Date 12-1-25  
 Company Downing - Nelson Oil Co Inc Elevation 3370 KB 3359 GL  
 Address 111 W 10th Hays, KS 67601  
 Co. Rep / Geo Marc Downing Rig Duke #5  
 Location: Sec. 27 Twp 4s Rge. 36w Co. Rawlins State KS

Interval Tested 4696-4742 Zone Tested Cherokee Lime  
 Anchor Length 46 Drill Pipe Run 4515 Mud Wt. 9.6  
 Top Packer Depth 4691 Drill Collars Run 176 Vis 58  
 Bottom Packer Depth 4696 Wt. Pipe Run - WL 8  
 Total Depth 4742 Chlorides 1800 ppm System LCM 3

Blow Description IF: Blow built to 1 1/4" (diesel in bucket)  
ISI: No blow  
FF: Blow built to 2 3/4"  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>CGO</u>	<u>10</u>	<u>90</u>		
<u>30</u>	<u>OCM</u>	<u>5</u>	<u>10</u>	<u>85</u>	
	<u>GIP = 180'</u>				

Rec Total 60 BHT 138 Gravity 23.2 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

Initial Hydrostatic 2414  Test 1950  Ruined Shale Packer  
 Initial Flow 21 to 25  Jars 300  Ruined Packer  
 Initial Shut-In 1116  Circ Sub  Hotel  
 Final Flow 29 to 40  Hourly Standby  EM Tool Successful? some points  
 Final Shut-In 1057  Mileage 112RT 196  Accessibility -175  
 Final Hydrostatic 2346  Sampler  Gas Sample  
 T-On Location 22:45 1/30  Straddle  Oversized Hole  
 Initial Flow 15 T-Started 00:15  Shale Packer  Sub Total -175  
 Initial Shut-In 30 T-Open 2:55  Extra Packer  Total 2271  
 Final Flow 45 T-Pulled 5:28  Extra Recorder  Tool Loaded @  
 Final Shut-In 60 T-Out 8:30 1/31  Day Standby  MP/DST Disc't

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James Winkler

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<b>Marc A. Downing</b> Consulting Petroleum Geologist		<b>Geological Report</b> Drilling Time and Sample Log	
Operator	Downing-Nelson Oil Co., Inc.	Elevation	
Lease	HFI #5-27	KB	3370
API #	15-153-21360-0000	DF	3368
Field	House Farms	GL	3359
Location	2063' FNL & 802' FWL	Casing Record	
Sec. 27	Twp. 4s	Rge. 36w	Surf. 8 5/8" @ 480'
County	Rawlins	State	Kansas
Electrical Surveys	CNDL, DIL, MEL		
Formation	Sample Tops	Log Tops	Datum
Top Anhydrite	3102	3100	270
Base Anhydrite	3142	3140	230
Foraker	3765	3764	-394
Topoka	4044	4042	-672
Heebner	4208	4207	-837
LKC	4254	4253	-883
Stark	4454	4454	-1084
BKC	4505	4505	-1135
Pawnee	4627	4626	-1256
Cherokee Sh	4703	4702	-1332
Total Depth	4860	4861	-1491
Reference Well for Structural Comparison: DNOCI - HFI #1-27 2000' FNL & 1699' FWL Sec. 27-4s-36w			

Drilling Contractor: Duke Drilling, Rig #5  
 Commenced: 11/21/2025  
 Completed: 12/1/2025  
 Samples Saved From: 4000 To RTD  
 Drilling Time Kept From: 3650 To RTD  
 Samples Examined From: 4000 To RTD  
 Geological Supervision From: 4000 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.

Respectfully Submitted  
 Marc A. Downing

**ROCK TYPES**

shale, grn shale, grn, shale, red, sh

**ACCESSORIES**

STRINGER: Sandstone, Siltstone, green shale, red shale

**OTHER SYMBOLS**

MISC: Daily Report, Digital Photo, Document, Folder, Vertical Log File, Horizontal Log File, Core Log File, Drill Collage Rep

**OIL SHOWS**

Chert, dark, Pyrite, Chert White, Spotted Shn 50-75%, Spotted Shn 25-50%, Spotted Shn 25%, Dead Oil Shn, Fluorescence

