

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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JOB LOG

SWIFT Services, Inc.

DATE 08/13/25	PAGE NO. 1
TICKET NO. 37986	

CUSTOMER Downing + Nelson	WELL NO. 1-15	LEASE Witt-Hoffman Unit	JOB TYPE Surface
------------------------------	------------------	----------------------------	---------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1820							On location, set up trucks. 210, 65' of 8 5/8 x 23# 10' Landing It Set @ 221' Break Circulation
	1845	4	5					Pump Wtr ahead
		4	36					Pump 150 SKS cmt
		4	13					Displace w/ water. Cement Circulated to Surface. Ping Down Shut in. Release Truck Wash up
	1915							Rack up Job Complete
	1935							Thanks Jon, Skyler, + Brad

JOB LOG

SWIFT Services, Inc.

DATE 08/19/15 PAGE NO. 1
TICKET NO. 37991

CUSTOMER Downing & Nelson

WELL NO. 1-15

LEASE With-Holdman Unit

JOB TYPE PTA

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							On location, set up trucks.
	1830	3	10					1 st Plug - 1050'
		4	13					Pump water ahead
		4	8					Pump 50 SKS cement
								Displace w/ water
	1900	5	5					2 nd Plug - 475'
		4	13					Pump water ahead
		4	3					Pump 50 SKS cement
								Displace w/ water
	1920	4	3					3 rd Plug - 275'
		4	13					Pump water ahead
		4	1					Pump 50 SKS cement
								Displace w/ water
	2030	1/2	2					4 th Plug - 40'
								Pump 10 SKS to fill casing
		2	7					Plug Rathole w/ 30 SKS
		2	5					Plug Mousehole w/ 15 SKS
								Washup
								Rack up
	2100							Job complete

Thanks
Jon, Skyler + Brad

Marc A. Downing
Consulting Petroleum
Geologist

Geological Report

Drilling Time and Sample Log

Operator	Downing-Nelson Oil Co., Inc.		Elevation				
Lease	Witt-Hoffman Unit #1-15	KB	1919				
API #	15-051-27131-0000	DF	1917				
Field	Dreiling North	GL	1911				
Location	2579' FSL & 2221' FWL		Casing Record				
Sec.	15	Twp.	14s	Rge.	16w		
County	Ellis	State	Kansas		Surf.	8 5/8" @ 220'	
Electrical Surveys	None					Prod.	None
Formation	Sample Tops	Log Tops	Datum	Struct Comp			
Top Anhydrite	1010		909	-3			
Base Anhydrite	1054		865	-8			
Topeka	2890		-971	-4			
Heebner	3107		-1188	-3			
Toronto	3127		-1208	-4			
LKC	3152		-1233	-1			
BKC	3389		-1470	FL			
Arubklee	Not Reached						
Total Depth	3448		-1529				

Reference Well for Structural Comparison: DNOCI - Hoffman #1-15
1910' FNL & 1650' FWL Sec. 15-14s-16w

Drilling Contractor: Discovery Drilling, Rig #4
Commenced: 8/13/2025
Completed: 8/19/2025
Samples Saved From: 2850 To RTD
Drilling Time Kept From: 2750 To RTD
Samples Examined From: 2850 To RTD
Geological Supervision From: 2850 To RTD

Summary and Recommendations

Due to structural position, DST recovery, and log evaluation, it was decided to plug and abandon the well.

Respectfully Submitted
Marc A. Downing

ROCK TYPES

- Carbon Sh shale, red
- shale, gm
- shale, gry
- Chert, dark
- Chert, white

ACCESSORIES

STRINGER

- Limestone
- red shale

OTHER SYMBOLS

DST

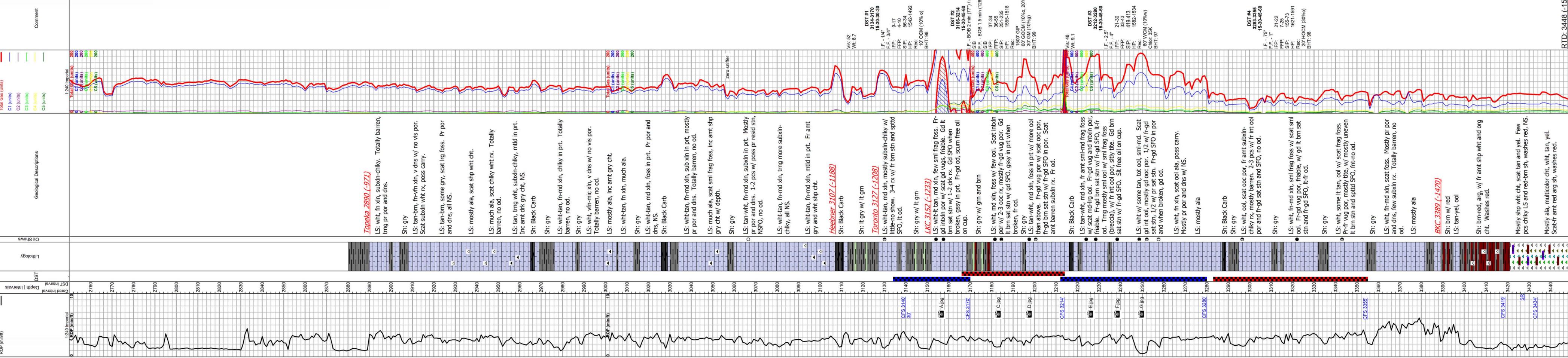
- DST Int
- DST alt
- Core
- tail pipe

MISC

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

OIL SHOWS

- Even Sin
- Spotted Sin 50 - 75 %
- Spotted Sin 25 - 50 %
- Spotted Sin 1 - 25 %
- Questionable Sin
- Dead Oil Sin
- Fluorescence





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601+1019

ATTN: Marc Downing

Witt-Hoffman #1-15

15-14S-16W Ellis KS

Start Date: 2025.08.17 @ 08:10:00

End Date: 2025.08.17 @ 12:47:57

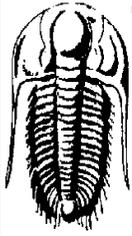
Job Ticket #: 72924 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.08.20 @ 15:02:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72924 **DST#: 1**

ATTN: Marc Dow ning

Test Start: 2025.08.17 @ 08:10:00

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:42:22

Time Test Ended: 12:47:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 75

Interval: 3134.00 ft (KB) To 3170.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3170.00 ft (KB) (TVD)

1911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875 Outside

Press@RunDepth: 10.24 psig @ 3135.00 ft (KB)

Capacity: psig

Start Date: 2025.08.17 End Date: 2025.08.17

Last Calib.: 2025.08.17

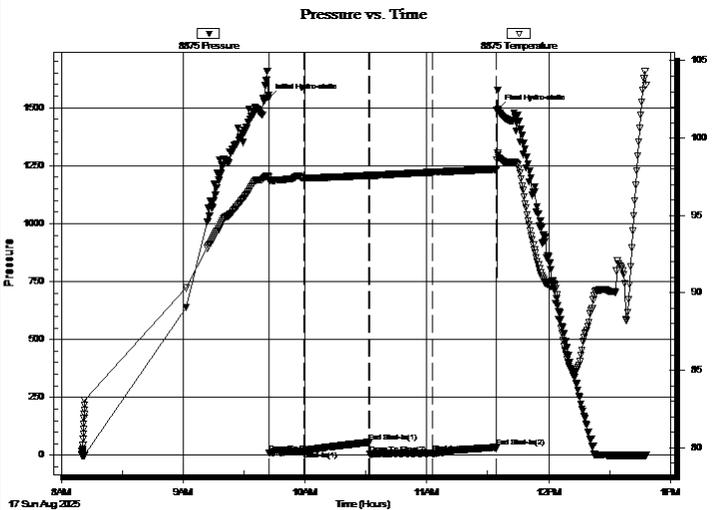
Start Time: 08:10:01 End Time: 12:47:56

Time On Btm: 2025.08.17 @ 09:42:07

Time Off Btm: 2025.08.17 @ 11:35:02

TEST COMMENT: 15-IF-Surface to 0.25" throughout
30-ISI-No Return
30-FF-Surface to 0.75" throughout
30-FSI-No Return

PRESSURE SUMMARY



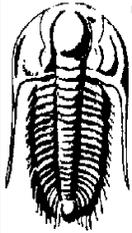
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.13	97.47	Initial Hydro-static
1	9.70	97.27	Open To Flow (1)
18	17.88	97.41	Shut-In(1)
50	56.11	97.58	End Shut-In(1)
50	4.89	97.58	Open To Flow (2)
81	10.24	97.79	Shut-In(2)
113	34.66	98.02	End Shut-In(2)
113	1492.41	98.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O 90%M	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72924

DST#: 1

ATTN: Marc Downing

Test Start: 2025.08.17 @ 08:10:00

Tool Information

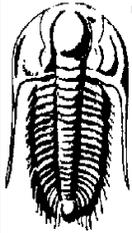
Drill Pipe:	Length: 3127.00 ft	Diameter: 3.82 inches	Volume: 44.33 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3134.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3108.00	
Shut In Tool	5.00			3113.00	
Hydraulic tool	5.00			3118.00	
Gap Sub	4.00			3122.00	
Safety Joint	3.00			3125.00	
Packer	5.00			3130.00	27.00 Bottom Of Top Packer
Packer	4.00			3134.00	
Stubb	1.00			3135.00	
Recorder	0.00	6838	Inside	3135.00	
Recorder	0.00	8875	Outside	3135.00	
Perforations	32.00			3167.00	
Bullnose	3.00			3170.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72924

DST#: 1

ATTN: Marc Downing

Test Start: 2025.08.17 @ 08:10:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	OCM 10%O 90%M	0.142

Total Length: 10.00 ft

Total Volume: 0.142 bbl

Num Fluid Samples: 0

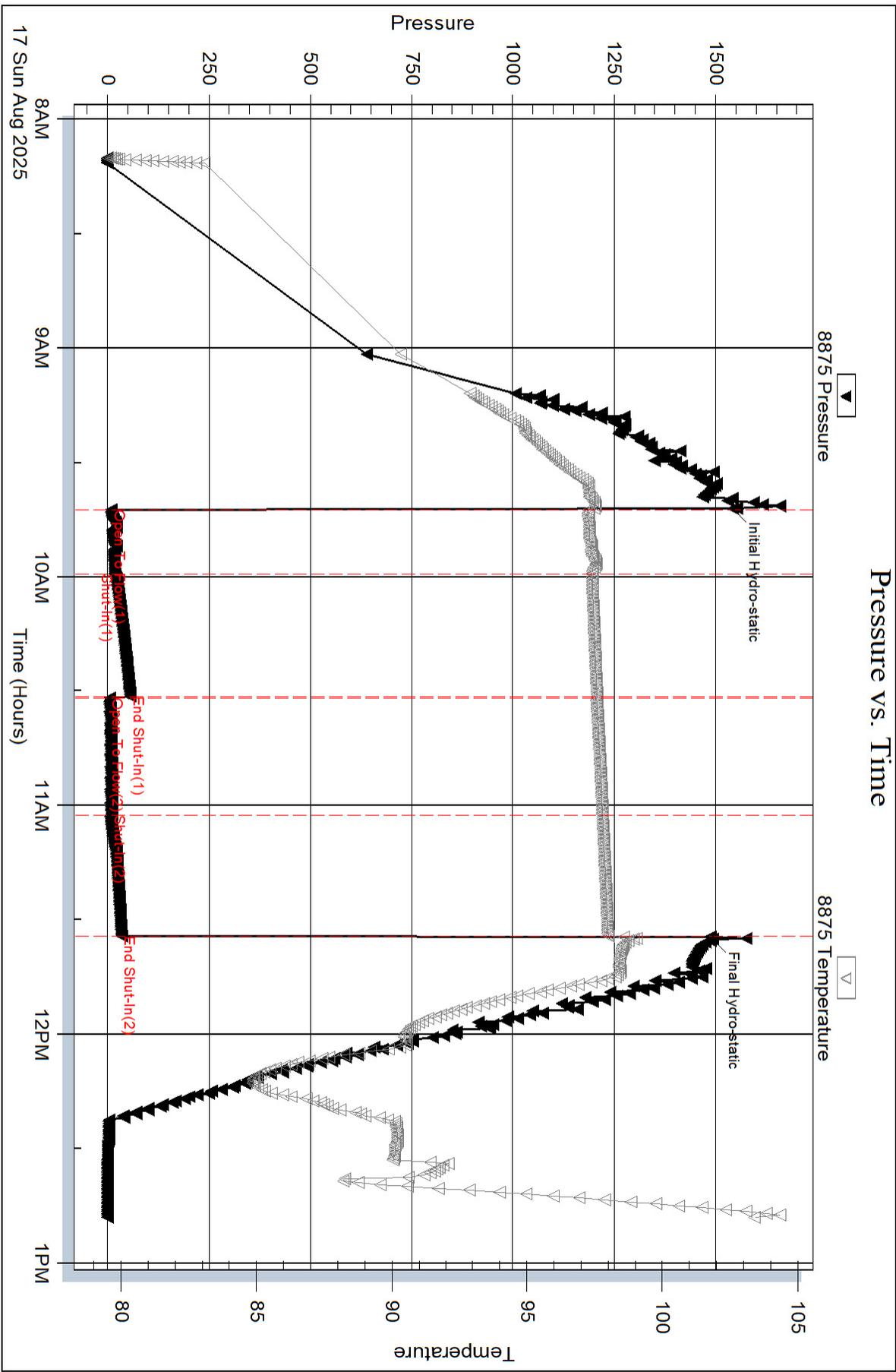
Num Gas Bombs: 0

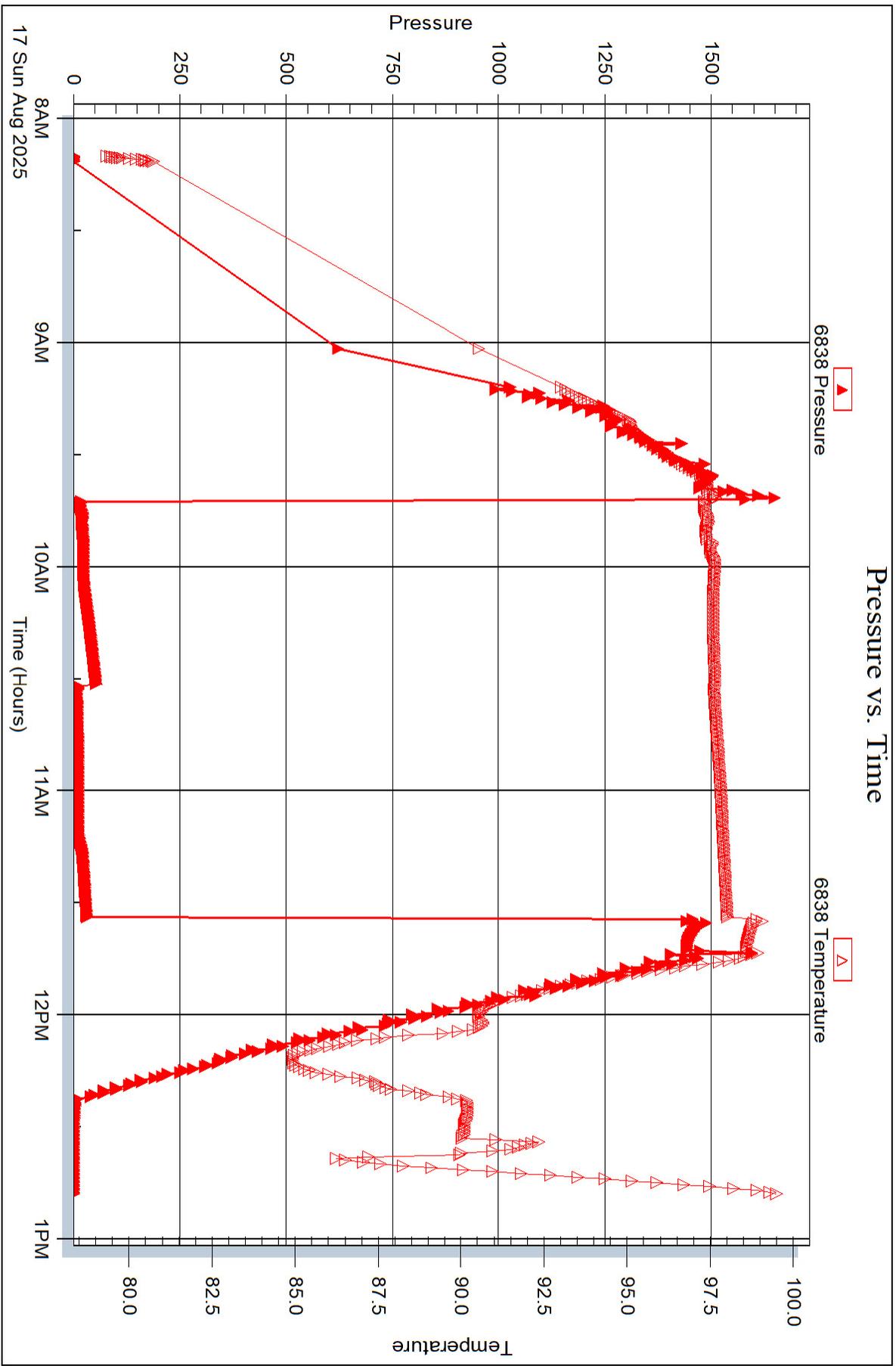
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM







DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601+1019

ATTN: Marc Downing

Witt-Hoffman #1-15

15-14S-16W Ellis KS

Start Date: 2025.08.17 @ 19:40:00

End Date: 2025.08.18 @ 01:04:32

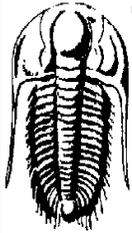
Job Ticket #: 72925 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.08.20 @ 14:57:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72925

DST#: 2

ATTN: Marc Dow ning

Test Start: 2025.08.17 @ 19:40:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:55:57

Time Test Ended: 01:04:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 3166.00 ft (KB) To 3214.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3214.00 ft (KB) (TVD)

1911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875

Inside

Press@RunDepth: 55.94 psig @ 3169.00 ft (KB)

Capacity: psig

Start Date: 2025.08.17

End Date:

2025.08.18

Last Calib.:

2025.08.18

Start Time: 19:40:01

End Time:

01:04:32

Time On Btm:

2025.08.17 @ 20:55:42

Time Off Btm:

2025.08.17 @ 23:35:52

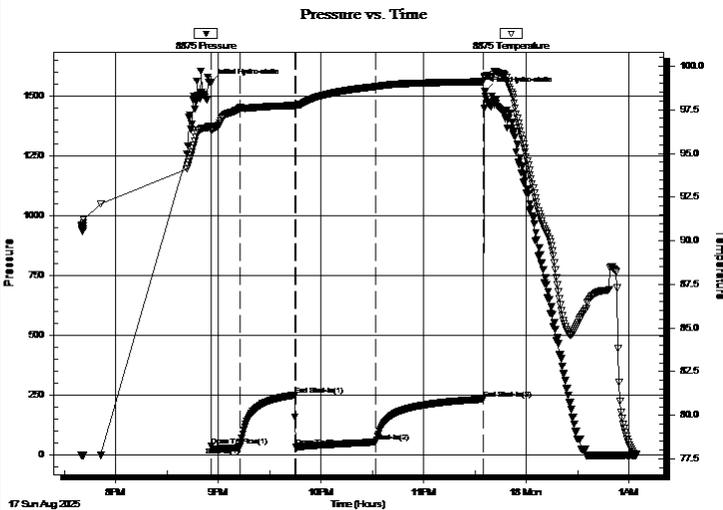
TEST COMMENT: 15-IF-BOB 2 mins Built to 77"

30-ISI-No Return

45-FF-BOB 1.5 mins Built to 128"

60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.37	96.55	Initial Hydro-static
1	37.86	96.32	Open To Flow (1)
17	34.19	97.61	Shut-In(1)
49	251.18	97.74	End Shut-In(1)
50	36.16	97.76	Open To Flow (2)
97	55.94	98.83	Shut-In(2)
160	235.22	99.14	End Shut-In(2)
161	1518.45	99.40	Final Hydro-static

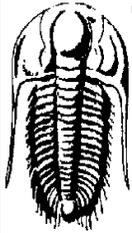
Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G 10%O 70%M	0.85
30.00	GM 10%G 90%M	0.43
0.00	1500 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72925

DST#: 2

ATTN: Marc Downing

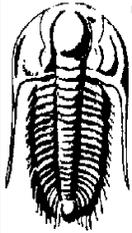
Test Start: 2025.08.17 @ 19:40:00

Tool Information

Drill Pipe:	Length: 3159.00 ft	Diameter: 3.82 inches	Volume: 44.78 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	20.00 ft			Final	45000.00 lb
Depth to Top Packer:	3166.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	75.00 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			3140.00	
Shut In Tool	5.00			3145.00	
Hydraulic tool	5.00			3150.00	
Gap Sub	4.00			3154.00	
Safety Joint	3.00			3157.00	
Packer	5.00			3162.00	27.00 Bottom Of Top Packer
Packer	4.00			3166.00	
Stubb	1.00			3167.00	
Perforations	1.00			3168.00	
Change Over Sub	1.00			3169.00	
Recorder	0.00	6838	Inside	3169.00	
Recorder	0.00	8875	Inside	3169.00	
Drill Pipe	32.00			3201.00	
Change Over Sub	1.00			3202.00	
Perforations	9.00			3211.00	
Bullnose	3.00			3214.00	48.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 72925

DST#: 2

ATTN: Marc Downing

Test Start: 2025.08.17 @ 19:40:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM 20%G 10%O 70%M	0.851
30.00	GM 10%G 90%M	0.425
0.00	1500 GIP 100%G	0.000

Total Length: 90.00 ft Total Volume: 1.276 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2.75#LCM

Serial #: 8875

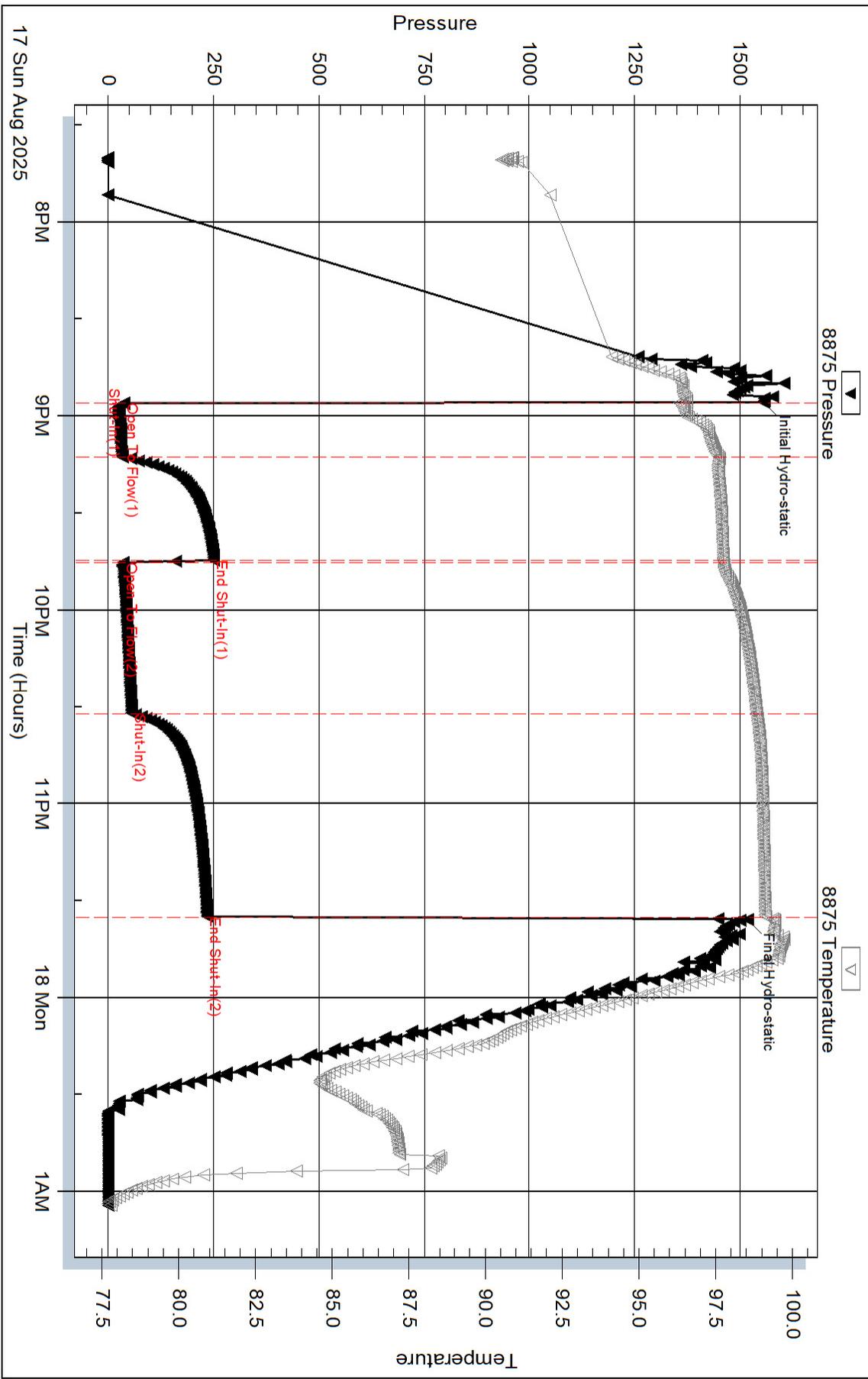
Inside

Downing Nelson Oil Co Inc

Witt-Hoffman #1-15

DST Test Number: 2

Pressure vs. Time



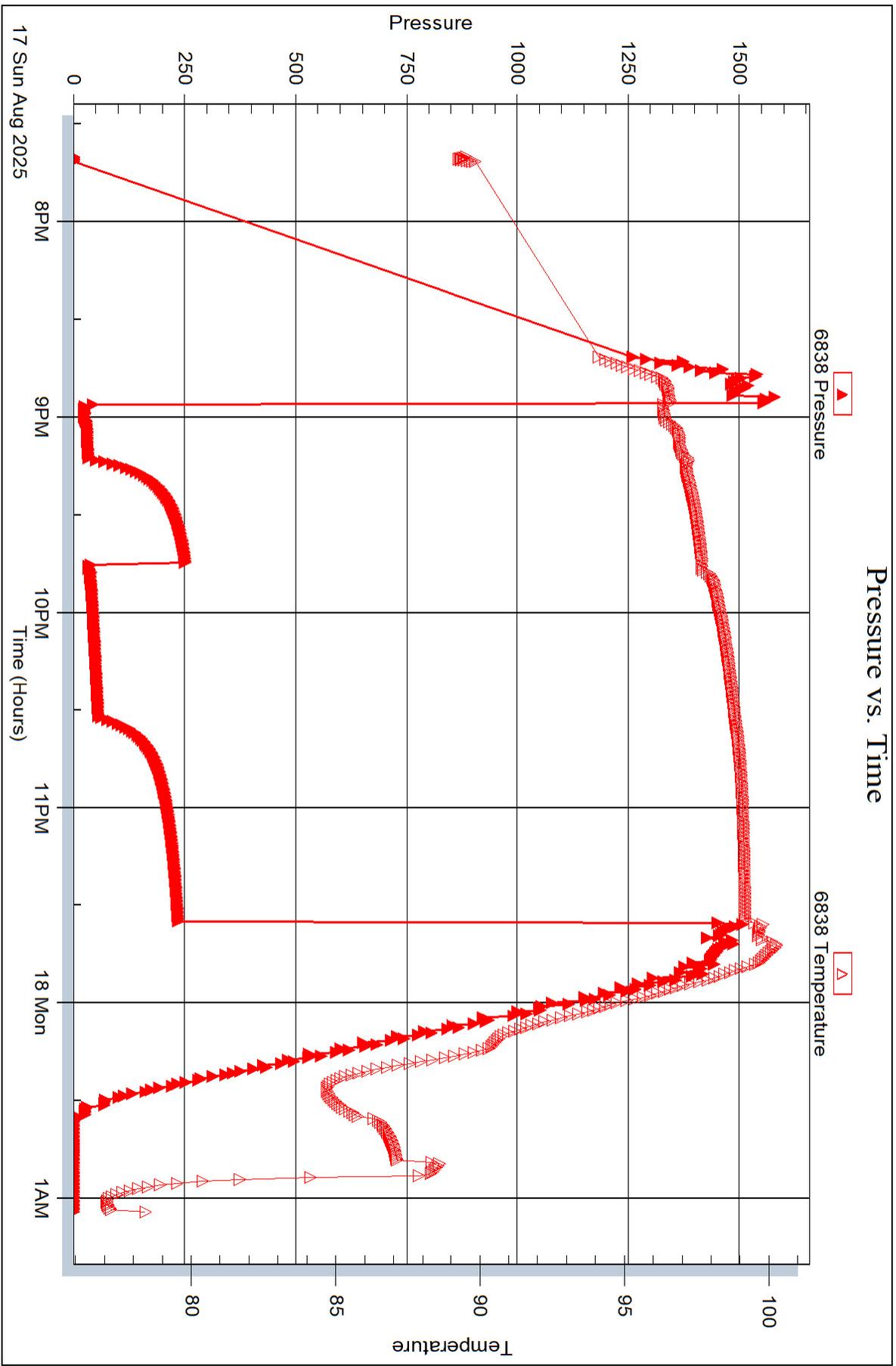
Serial #: 6838

Inside

Downing Nelson Oil Co Inc

Witt-Hoffman #1-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 72925

Printed: 2025.08.20 @ 14:57:37



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601+1019

ATTN: Marc Downing

Witt-Hoffman #1-15

15-14S-16W Ellis KS

Start Date: 2025.08.18 @ 09:19:00

End Date: 2025.08.18 @ 14:30:11

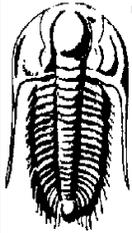
Job Ticket #: 73001 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2025.08.20 @ 14:51:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73001

DST#: 3

ATTN: Marc Downing

Test Start: 2025.08.18 @ 09:19:00

GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:42:17

Time Test Ended: 14:30:11

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 3212.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875

Inside

Press@RunDepth: 43.60 psig @ 3215.00 ft (KB)

Capacity: psig

Start Date: 2025.08.18

End Date: 2025.08.18

Last Calib.: 2025.08.18

Start Time: 09:19:01

End Time: 14:30:11

Time On Btm: 2025.08.18 @ 10:42:02

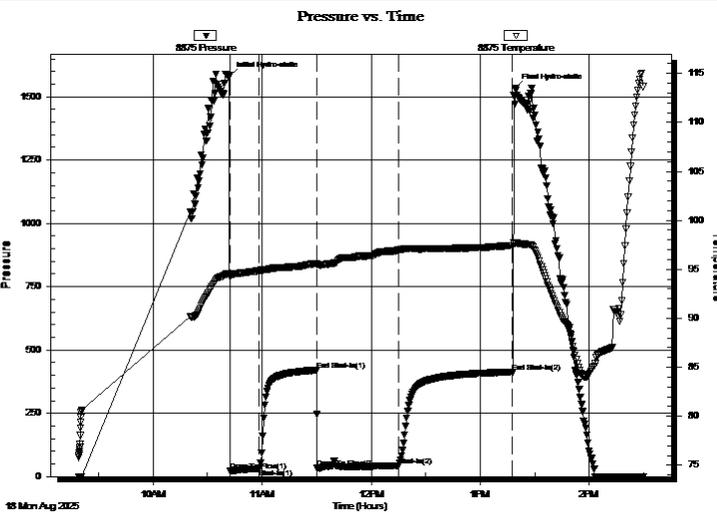
Time Off Btm: 2025.08.18 @ 13:19:27

TEST COMMENT: 15-IF-Surface to 2.5"

30-ISI-No Return

45-FF-Surface to 4"

60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.93	94.59	Initial Hydro-static
1	21.79	94.35	Open To Flow (1)
17	30.98	94.87	Shut-In(1)
48	419.89	95.57	End Shut-In(1)
49	33.96	95.54	Open To Flow (2)
93	43.60	96.97	Shut-In(2)
156	413.45	97.46	End Shut-In(2)
158	1534.08	97.69	Final Hydro-static

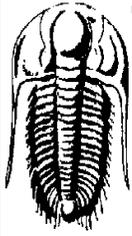
Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 10%W 90%M	0.85

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

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73001

DST#: 3

ATTN: Marc Downing

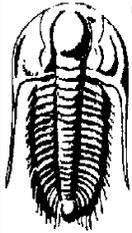
Test Start: 2025.08.18 @ 09:19:00

Tool Information

Drill Pipe:	Length: 3192.00 ft	Diameter: 3.82 inches	Volume: 45.25 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	7.00 ft			Final	45000.00 lb
Depth to Top Packer:	3212.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	95.00 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			3186.00	
Shut In Tool	5.00			3191.00	
Hydraulic tool	5.00			3196.00	
Gap Sub	4.00			3200.00	
Safety Joint	3.00			3203.00	
Packer	5.00			3208.00	27.00 Bottom Of Top Packer
Packer	4.00			3212.00	
Stubb	1.00			3213.00	
Perforations	1.00			3214.00	
Change Over Sub	1.00			3215.00	
Recorder	0.00	6838	Inside	3215.00	
Recorder	0.00	8875	Inside	3215.00	
Drill Pipe	32.00			3247.00	
Change Over Sub	1.00			3248.00	
Perforations	29.00			3277.00	
Bullnose	3.00			3280.00	68.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73001

DST#: 3

ATTN: Marc Downing

Test Start: 2025.08.18 @ 09:19:00

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:

35000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	WCM 10%W 90%M	0.851

Total Length: 60.00 ft Total Volume: 0.851 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

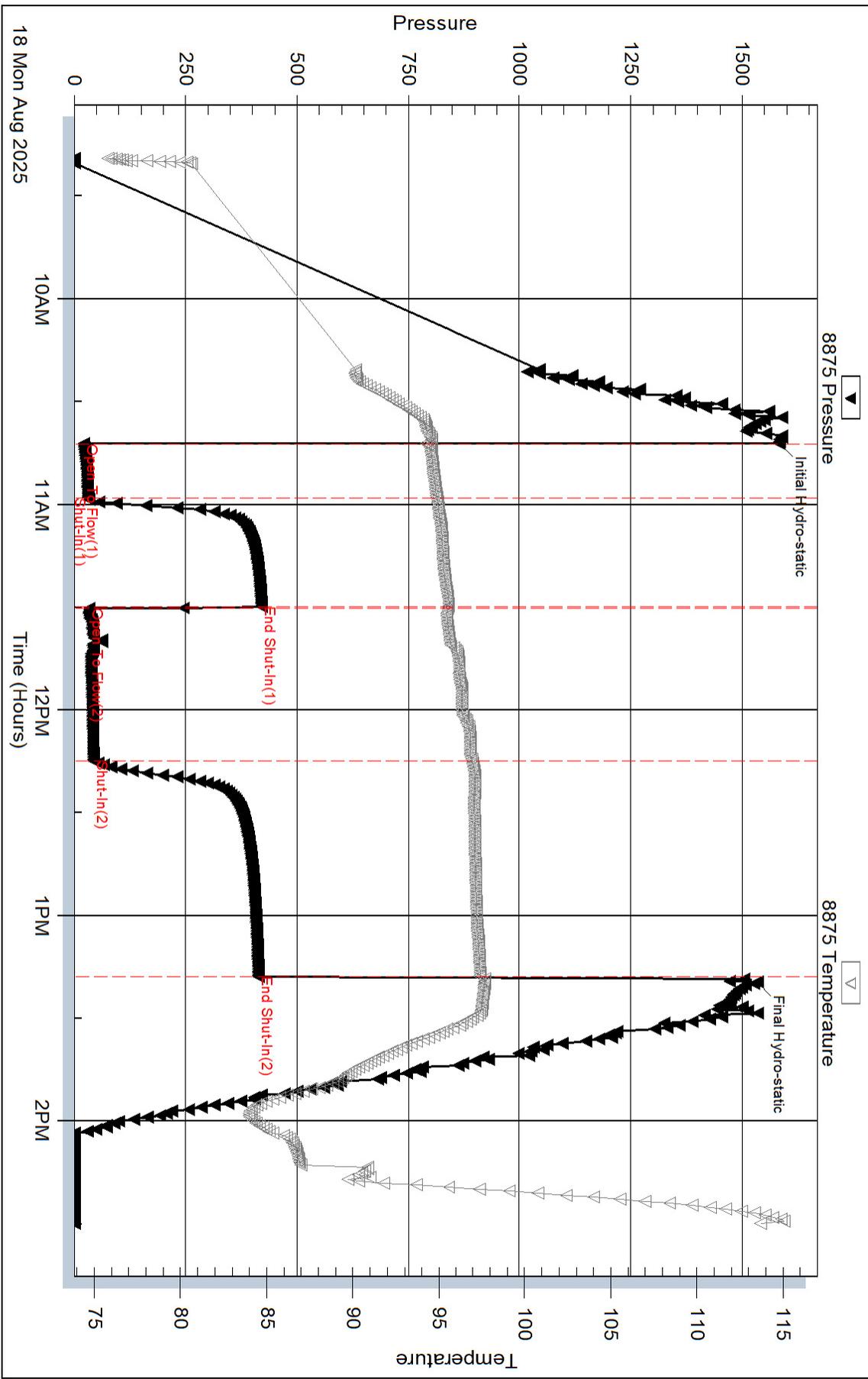
Laboratory Name:

Laboratory Location:

Recovery Comments: 1.75#LCM

RW=.149@96F

Pressure vs. Time



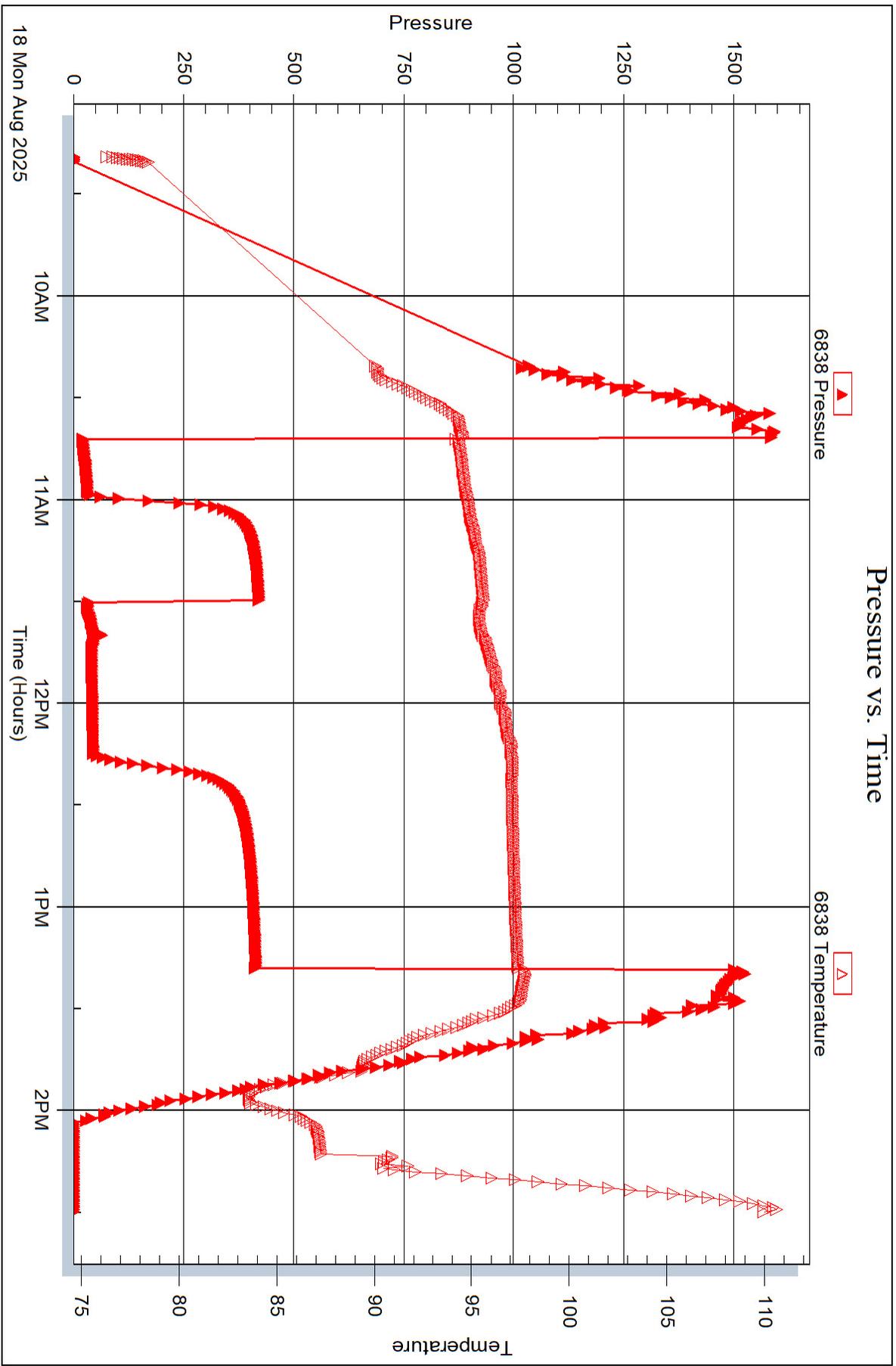
Serial #: 6838

Inside

Downing Nelson Oil Co Inc

Witt-Hoffman #1-15

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601+1019

ATTN: Marc Downing

Witt-Hoffman #1-15

15-14S-16W Ellis KS

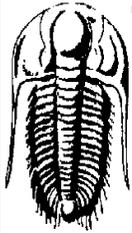
Start Date: 2025.08.18 @ 22:34:00

End Date: 2025.08.19 @ 03:47:52

Job Ticket #: 73002 DST #: 4

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

Printed: 2025.08.20 @ 14:44:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73002

DST#: 4

ATTN: Marc Downing

Test Start: 2025.08.18 @ 22:34:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:54:57

Time Test Ended: 03:47:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 3283.00 ft (KB) To 3355.00 ft (KB) (TVD)

Reference Elevations: 1919.00 ft (KB)

Total Depth: 3355.00 ft (KB) (TVD)

1911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875 Inside

Press@RunDepth: 25.41 psig @ 3286.00 ft (KB)

Capacity: psig

Start Date: 2025.08.18

End Date: 2025.08.19

Last Calib.: 2025.08.19

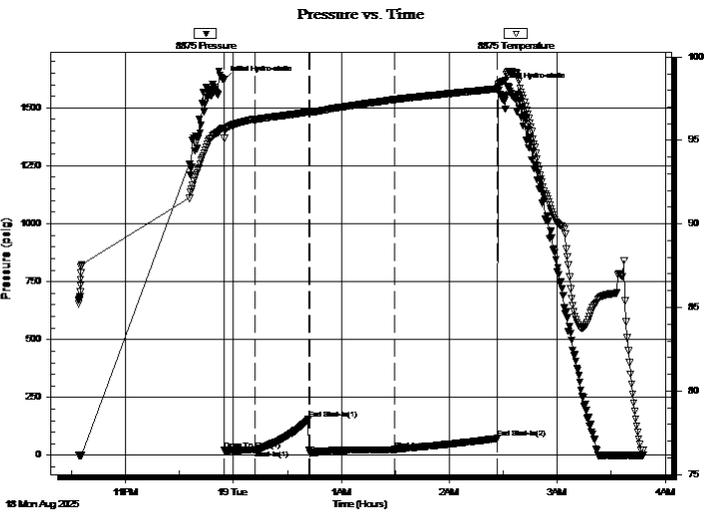
Start Time: 22:34:01

End Time: 03:47:52

Time On Btm: 2025.08.18 @ 23:54:52

Time Off Btm: 2025.08.19 @ 02:27:07

TEST COMMENT: 15-IF-Surface to 0.75"
30-ISI-No Return
45-FF-Surface to 1"
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.35	95.76	Initial Hydro-static
1	21.51	95.12	Open To Flow (1)
18	22.75	96.26	Shut-In(1)
47	155.66	96.69	End Shut-In(1)
48	7.85	96.69	Open To Flow (2)
95	25.41	97.45	Shut-In(2)
152	73.18	98.13	End Shut-In(2)
153	1591.11	98.36	Final Hydro-static

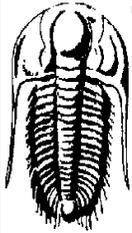
Recovery

Length (ft)	Description	Volume (bbl)
20.00	HOCM 30%O 70%M	0.28

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

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73002

DST#: 4

ATTN: Marc Downing

Test Start: 2025.08.18 @ 22:34:00

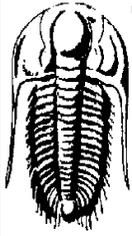
Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.82 inches	Volume: 46.58 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	48000.00 lb
Drill Pipe Above KB:	30.00 ft			Final	48000.00 lb
Depth to Top Packer:	3283.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	99.00 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			3257.00	
Shut In Tool	5.00			3262.00	
Hydraulic tool	5.00			3267.00	
Gap Sub	4.00			3271.00	
Safety Joint	3.00			3274.00	
Packer	5.00			3279.00	27.00 Bottom Of Top Packer
Packer	4.00			3283.00	
Stubb	1.00			3284.00	
Perforations	1.00			3285.00	
Change Over Sub	1.00			3286.00	
Recorder	0.00	6838	Inside	3286.00	
Recorder	0.00	8875	Inside	3286.00	
Drill Pipe	64.00			3350.00	
Change Over Sub	1.00			3351.00	
Perforations	1.00			3352.00	
Bullnose	3.00			3355.00	72.00 Bottom Packers & Anchor
Total Tool Length:	99.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

15-14S-16W Ellis KS

PO Box 1019
Hays KS 67601+1019

Witt-Hoffman #1-15

Job Ticket: 73002

DST#: 4

ATTN: Marc Downing

Test Start: 2025.08.18 @ 22:34:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	HOCM 30%O 70%M	0.284

Total Length: 20.00 ft Total Volume: 0.284 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1.75#LCM

Serial #: 8875

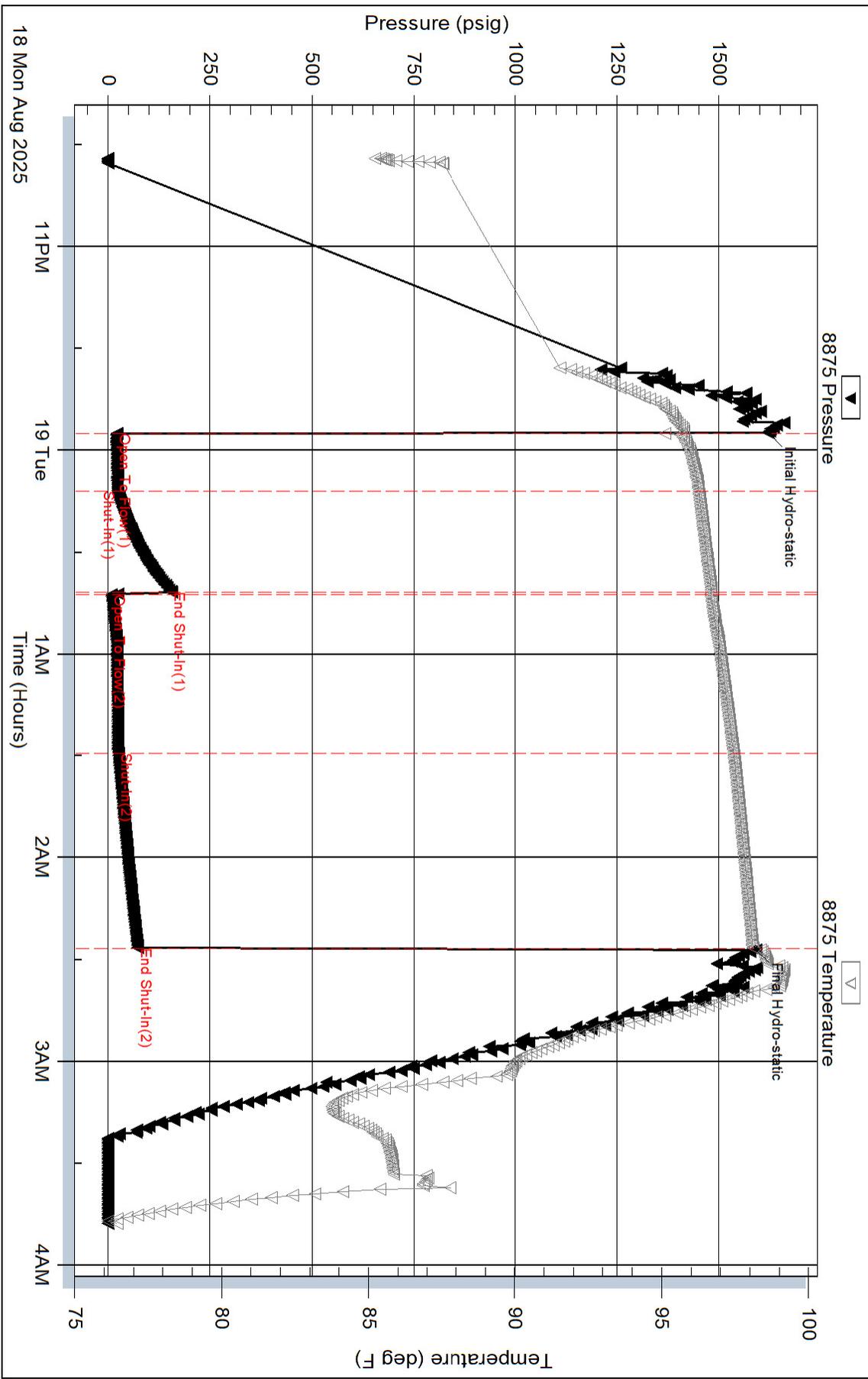
Inside

Downing Nelson Oil Co Inc

Witt-Hoffman #1-15

DST Test Number: 4

Pressure vs. Time



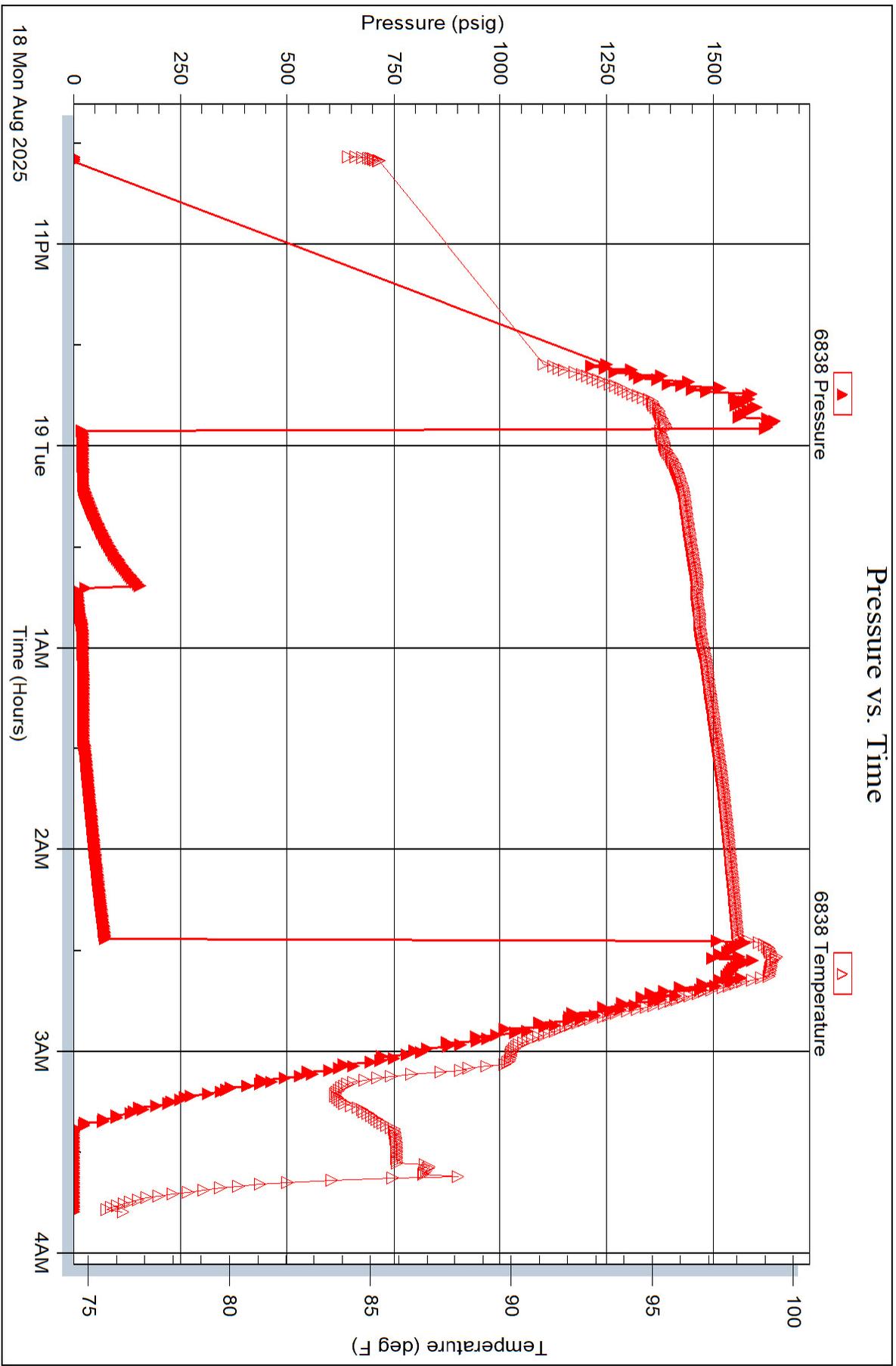
Serial #: 6838

Inside

Downing Nelson Oil Co Inc

Witt-Hoffman #1-15

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72924**

Well Name & No. Witt - Hoffman #1-15 Test No. 1 Date 08/17/2025
 Company Downing-Nelson Oil Co, Inc. Elevation 1919 KB 1911 GL
 Address PO BOX 1019 Hays KS 67601 + 1019
 Co. Rep / Geo Marc Downing Rig Discovery #4
 Location: Sec. 15 Twp 14S Rge. 16W Co. Ellis State KS

Interval Tested 3134' - 3170' Zone Tested LKC 'a'
 Anchor Length 36' Drill Pipe Run 3127' Mud Wt. 8.7
 Top Packer Depth 3129' Drill Collars Run - Vis 52
 Bottom Packer Depth 3134' Wt. Pipe Run - WL 8.8
 Total Depth 3170' Chlorides 3000 ppm System LCM QH

Blow Description 77 - Surface to 0.25" throughout
75 - No Return
77 - Surface to 0.75" throughout
75 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OCM</u>	<u>10</u>		<u>90</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 10' BHT 98° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1542 Test 1800 Ruined Shale Packer
 Initial Flow 9 to 17 Jars Ruined Packer
 Initial Shut-In 56 Circ Sub Hotel
 Final Flow 4 to 10 Hourly Standby EM Tool Successful
 Final Shut-In 34 Mileage 26.27 45.50 Accessibility
 Final Hydrostatic 1492 Sampler Gas Sample
 T-On Location 05:56 Straddle Oversized Hole
 Initial Flow 15 T-Started 08:10 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 09:43 Extra Packer Total 1845.50
 Final Flow 30 T-Pulled 11:28 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 12:47 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72925**

Well Name & No. Witt - Hoffman #1-15 Test No. 2 Date 08/17/2025
 Company Downing - Nelson Oil Co., Inc Elevation 1919 KB 1911 GL
 Address PO BOX 1019 Hays KS 67601 + 1019
 Co. Rep / Geo Marc Downing Rig Discovery #4
 Location: Sec. 15 Twp 14S Rge. 16W Co. Ellis State KS

Interval Tested 3166 - 3214' Zone Tested LKC C-D
 Anchor Length 418' Drill Pipe Run 3159' Mud Wt. 8.9
 Top Packer Depth 3161' Drill Collars Run - Vis 67
 Bottom Packer Depth 3166' Wt. Pipe Run - WL 8.8
 Total Depth 3214' Chlorides 4000 ppm System LCM 2.75 #

Blow Description 77- BOB 2 mins; Built to 77"
150- No Return
77- BOB 1.5 mins; Built to 128"
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
60'	G10CM	20	10	70	
30'	G1M	10		90	
	1500' G1P	100			

Rec Total 90' BHT 99° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1555 Test 1800 Ruined Shale Packer
 Initial Flow 37 to 34 Jars Ruined Packer
 Initial Shut-In 251 Circ Sub Hotel
 Final Flow 36 to 55 Hourly Standby EM Tool Successful -175
 Final Shut-In 235 Mileage 2627 45.50 Accessibility
 Final Hydrostatic 1518 Sampler Gas Sample
 T- On Location 19:20 Straddle Oversized Hole
 Initial Flow 15 T-Started 19:40 Shale Packer Sub Total -175
 Initial Shut-In 30 T-Open 20:56 Extra Packer Total 1670.50
 Final Flow 45 T-Pulled 23:26 Extra Recorder Tool Loaded @
 Final Shut-In 60 T-Out 01:04 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **73001**

Well Name & No. Witt - Hoffman #1-15 Test No. 3 Date 08/18/2025
 Company Douning-Nelson Oil Co, Inc Elevation 1919 KB 1911 GL
 Address PO BOX 1019 Hays KS 67601 + 1019
 Co. Rep / Geo Marc Douning Rig Discovery #41
 Location: Sec. 15 Twp 14S Rge. 16W Co. Ellis State KS

Interval Tested 3212' - 3280' Zone Tested LKC E-2
 Anchor Length 68' Drill Pipe Run 3192' Mud Wt. 9.1
 Top Packer Depth 3207' Drill Collars Run - Vis 48
 Bottom Packer Depth 3212' Wt. Pipe Run - WL 9.6
 Total Depth 3280' Chlorides 6000 ppm System LCM 1.75#

Blow Description 17- Surface to 2.5"
150- No Return
77- Surface to 4"
758- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>WCM</u>			<u>10</u>	<u>90</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 60' BHT 970 Gravity - API RW 149 @ 96 °F Chlorides 35000 ppm

Initial Hydrostatic 1582 Test 1800 Ruined Shale Packer
 Initial Flow 21 to 30 Jars Ruined Packer
 Initial Shut-In 419 Circ Sub Hotel
 Final Flow 33 to 43 Hourly Standby EM Tool Successful
 Final Shut-In 413 Mileage 2627 45.50 Accessibility
 Final Hydrostatic 1534 Sampler Gas Sample
 T- On Location 09:00 Straddle Oversized Hole
 Initial Flow 15 T-Started 09:19 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 10:42 Extra Packer Total 1845.50
 Final Flow 45 T-Pulled 13:12 Extra Recorder Tool Loaded @
 Final Shut-In 60 T-Out 14:30 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **73002**

Well Name & No. Well - Hoffman #1-15 Test No. 41 Date 08/18/2025
 Company Downing-Nelson Oil Co. Inc Elevation 1919 KB 1911 GL _____
 Address PO BOX 1019 Hays KS 67601 +1019
 Co. Rep / Geo Marc Downing Rig Discovery #4
 Location: Sec. 15 Twp 14S Rge. 16W Co. Ellis State KS

Interval Tested 3283' - 3355' Zone Tested LKC H-J
 Anchor Length 72' Drill Pipe Run 3286' Mud Wt. 9.1
 Top Packer Depth 3278' Drill Collars Run - Vis 4.8
 Bottom Packer Depth 3283' Wt. Pipe Run - WL 9.6
 Total Depth 3355' Chlorides 6000 ppm System LCM 1.75#

Blow Description 77 - Surface to 0.75"
ISD - No Return
77 - Surface to 1"
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
20'	HOCM	30		70	

Rec Total 20' BHT 98° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 1621 Test 1800 Ruined Shale Packer _____
 Initial Flow 21 to 22 Jars _____ Ruined Packer _____
 Initial Shut-In 155 Circ Sub _____ Hotel _____
 Final Flow 7 to 25 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 73 Mileage 26 RT 2 Accessibility _____
 Final Hydrostatic 1591 Sampler 45.50 + 45.50 Gas Sample _____
 T-On Location 22:15 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 22:34 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 23:55 Extra Packer _____ Total 1891
 Final Flow 45 T-Pulled 02:25 Extra Recorder _____ Tool Loaded 08/19 @ 16:00
 Final Shut-In 60 T-Out _____ Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative [Signature]

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