

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No.: \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	VELMA B 1-14
Doc ID	1627379

Tops

Name	Top	Datum
Top Anhydrite	1712'	+606
Base Anhydrite	1763'	+555
Topeka	3357'	-1039
Heebner	3575'	-1257
Toronto	3602'	-1284
LKC	3614'	-1296
BKC	3852'	-1534
Marmaton	3921'	-1603
Arbuckle	3982'	-1664



# SWIFT Services, Inc.

DATE  
2/4/22

PAGE NO.

OWNER  
Dowling-Nelson

WELL NO.  
1-14

LEASE  
Velma B

JOB TYPE  
SHALLOW SURF

TICKET NO.  
35761

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							On location
								RTO- 223
								TOTAL Pipe - 223.29
								Run 8 3/8 csg
								Circ on BTM
		4.5	10			200		pump wtr spacer
		4.5	36			200		pump CMT - 150 sk
		4.5	13			300		Disp
	2300							End Disp
								Circulated 15 sk CMT
								JOB Complete
								THANKS
								David, Seth & John J.

# SWIFT Services, Inc.

WELL NO.		LEASE		JOB TYPE		TICKET NO.		
1-14		Velma B		2 Stage Longstring		35346		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	01930							On location with float equipment
								BTD - 4100' 5 1/2" x 14#
								LTD - 4098'
								Total Pipe Run - 4087.06' set @ 4095.06'
								Shoe Joint - 27.10', Baffle - 4068
								Centralizers, - 4, 3, 5, 7, 9, 57
								BasKet - 11, 58
								DV Tool - Top of 58 @ 1736
	2145							Start Pipe w/ Float Equipment
	2345							Break Circulation on Bottom
	0030	4	12			400		Pump Mud Flush
		4	20			400		Pump KCL spacer
	0045	4	36					Annul Cement, 150 SKS EA @ 15.5 pp
								Drop Plug - Washout Pump Lines
	0100	6						Start Displacement
		6	80			450		Catch Cmt
						900		Lift PSI - 900
	0115					1500		Land Plug - 1500
								Drop Bomb
		2	8					Plug Rathole w/ 30 SKS
		2	5					Plug Mansehole w/ 15 SKS
	0145					900		Open D.V. Tool
		4						Start Cement
		3.5	110					Finish Cement
								Drop Plug
	0230	4						Start Displacement
		4	15			400		Catch Cmt
			40			600		Lift
	0240		43			1200		Land Plug to Pit
								Release, Dry
								Wash up
								Rack up
	0300							Job Complete

Thanks  
Jan, Joe, Isaac



## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019  
Hays KS 67601+1019

ATTN: Marc Downing

**Velma B #1-14**

**14-12s-21w Trego,KS**

Start Date: 2022.02.08 @ 09:45:00

End Date: 2022.02.08 @ 15:12:52

Job Ticket #: 67871                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.16 @ 15:00:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co  
 PO Box 1019  
 Hays KS 67601+1019  
 ATTN: Marc Downing

**14-12s-21w Trego,KS**  
**Velma B #1-14**  
 Job Ticket: 67871 **DST#: 1**  
 Test Start: 2022.02.08 @ 09:45:00

## GENERAL INFORMATION:

Formation: **LKC A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:36:37  
 Time Test Ended: 15:12:52  
 Interval: **3575.00 ft (KB) To 3635.00 ft (KB) (TVD)**  
 Total Depth: 3635.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2322.00 ft (KB)  
 2315.00 ft (CF)  
 KB to GR/CF: 7.00 ft

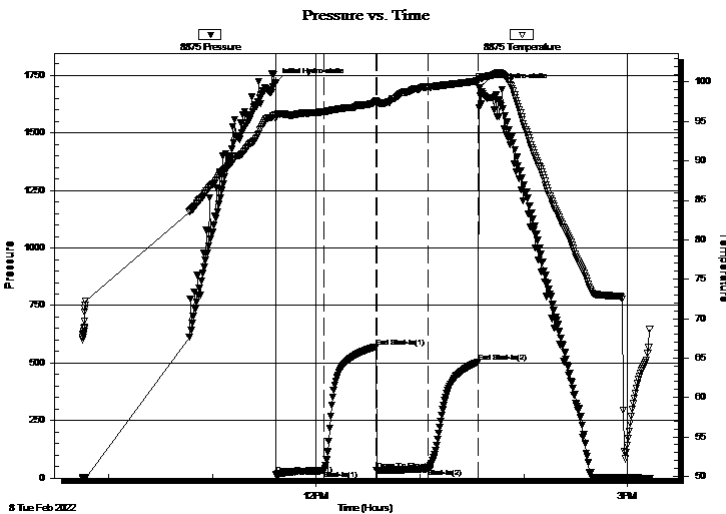
## Serial #: 8875

Inside

Press@RunDepth: 40.75 psig @ 3579.00 ft (KB) Capacity: psig  
 Start Date: 2022.02.08 End Date: 2022.02.08 Last Calib.: 2022.02.08  
 Start Time: 09:45:01 End Time: 15:12:52 Time On Btm: 2022.02.08 @ 11:36:27  
 Time Off Btm: 2022.02.08 @ 13:34:22

TEST COMMENT: 30-IF-Surface to 1.5"  
 30-ISI-No Return  
 30-FF-Surface to 1"  
 30-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.37	95.84	Initial Hydro-static
1	16.01	95.37	Open To Flow (1)
28	33.92	96.27	Shut-In(1)
59	568.49	97.60	End Shut-In(1)
59	33.81	97.55	Open To Flow (2)
89	40.75	99.36	Shut-In(2)
118	504.99	100.16	End Shut-In(2)
118	1696.96	100.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	WCM 20%W 80%M	0.50

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67871

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2022.02.08 @ 09:45:00

## Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.82 inches	Volume: 50.18 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	67000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	48000.00 daN
Depth to Top Packer:	3575.00 ft			Final	48000.00 daN
Depth to Bottom Packer:	ft				
Interval betw een Packers:	60.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circ Sub	1.00			3555.00	
Change Over Sub	1.00			3556.00	
Shut In Tool	5.00			3561.00	
Hydraulic tool	5.00			3566.00	
Packer	5.00			3571.00	21.00 Bottom Of Top Packer
Packer	4.00			3575.00	
Stubb	1.00			3576.00	
Perforations	2.00			3578.00	
Change Over Sub	1.00			3579.00	
Recorder	0.00	6838	Inside	3579.00	
Recorder	0.00	8875	Inside	3579.00	
Drill Pipe	32.00			3611.00	
Change Over Sub	1.00			3612.00	
Perforations	20.00			3632.00	
Bullnose	3.00			3635.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67871

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2022.02.08 @ 09:45:00

### 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:

77000 ppm

Viscosity: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
55.00	WCM 20%W 80%M	0.502

Total Length: 55.00 ft      Total Volume: 0.502 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

RW=.121@60F

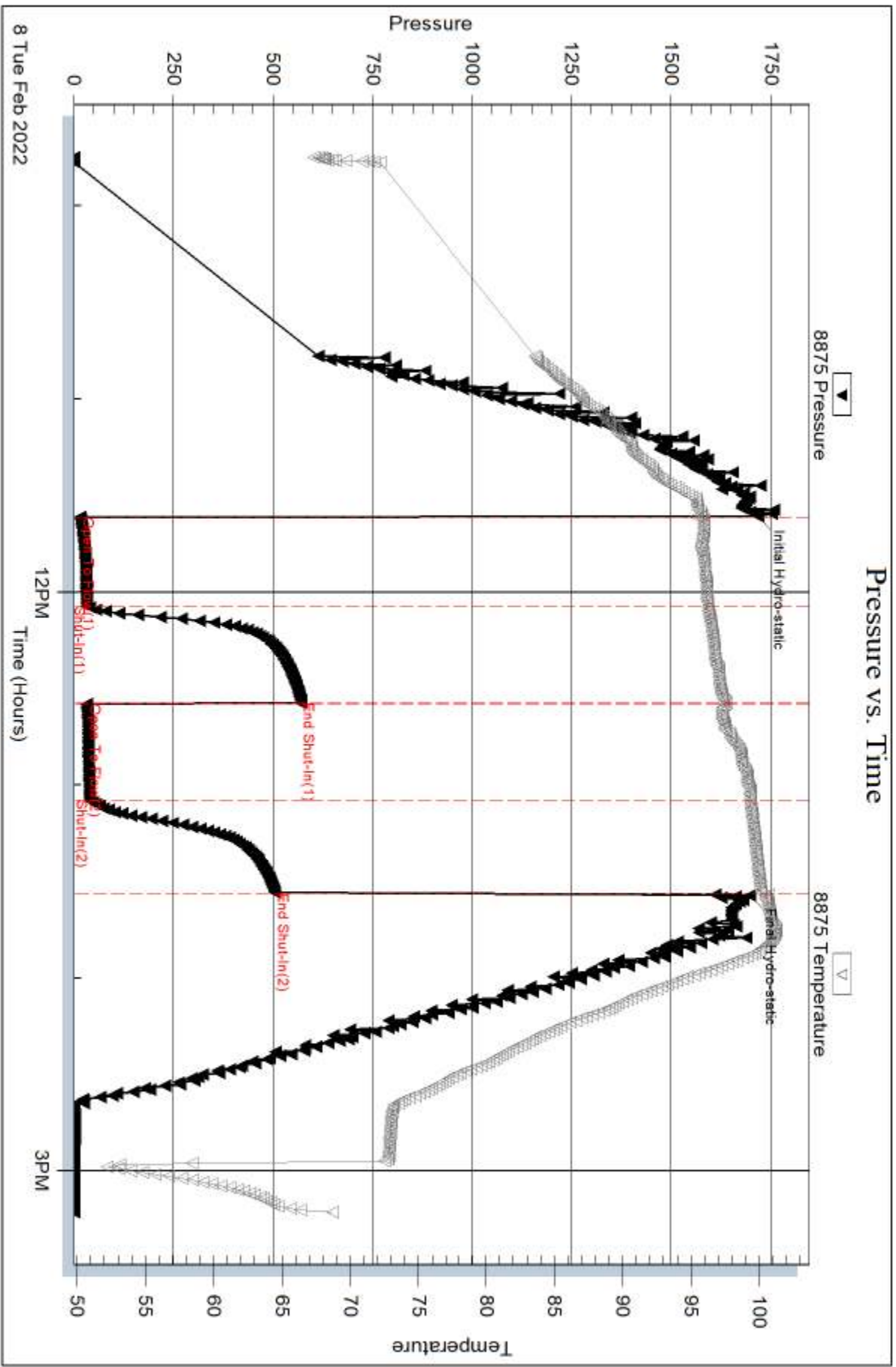
Serial #: 8875

Inside

Downing Nelson Oil Co

Veina B#1-14

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 67871

Printed: 2022.02.16 @ 15:00:31

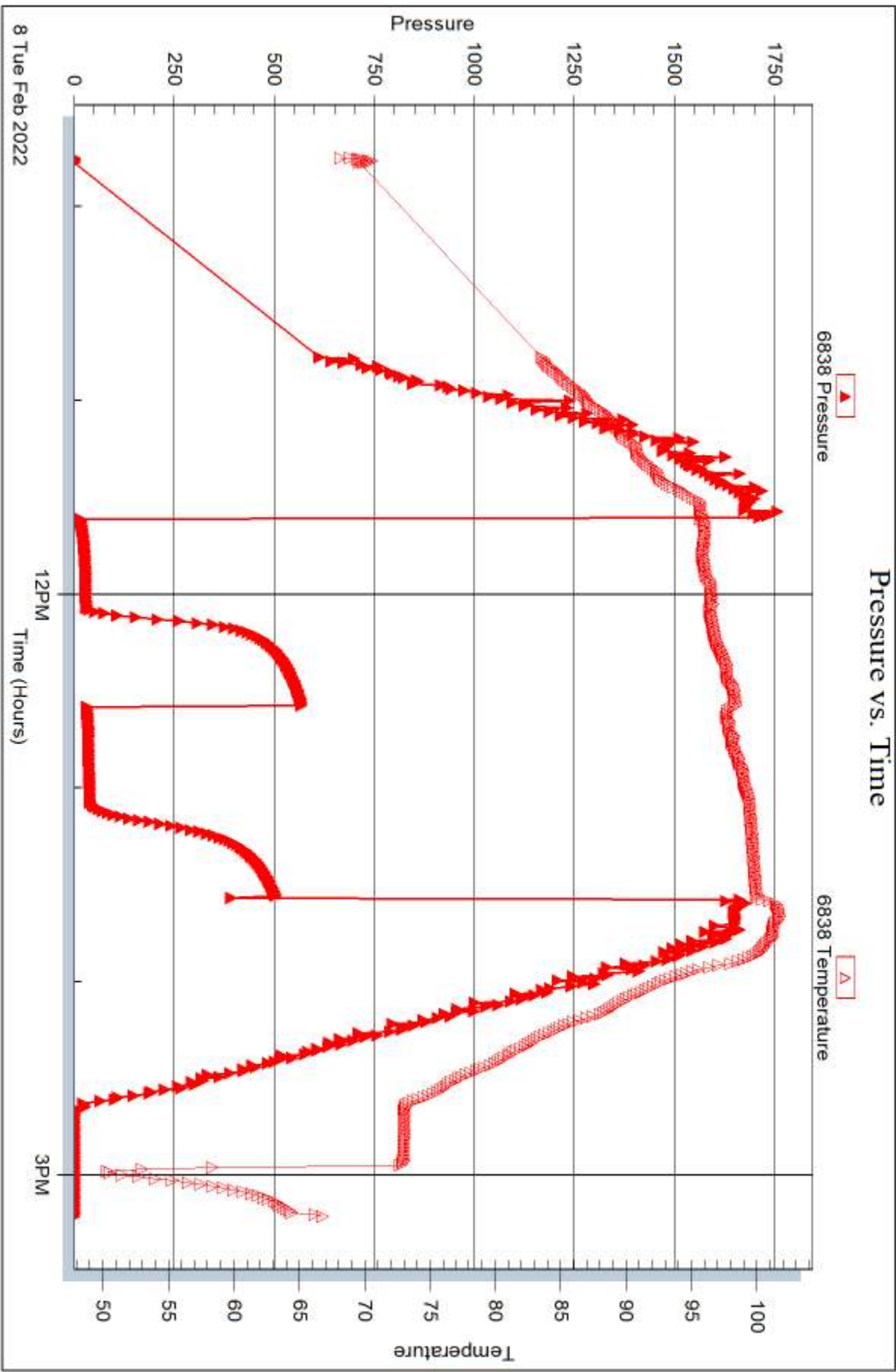
Serial #: 6838

Inside

Dow n ing Nelson Oil Co

Velma B#1-14

DST Test Number: 1



8 Tue Feb 2022

Tribble Testing, Inc

Ref. No: 67871

Printed: 2022.02.16 @ 15:00:31



## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019  
Hays KS 67601+1019

ATTN: Marc Downing

**Velma B #1-14**

**14-12s-21w Trego,KS**

Start Date: 2022.02.08 @ 22:10:00

End Date: 2022.02.09 @ 05:27:47

Job Ticket #: 67872                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.16 @ 14:59:58



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co  
 PO Box 1019  
 Hays KS 67601+1019  
 ATTN: Marc Downing

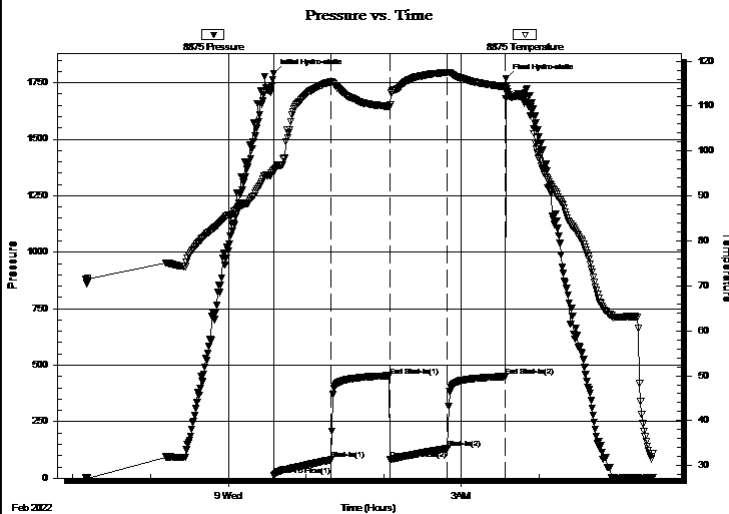
**14-12s-21w Trego,KS**  
**Velma B #1-14**  
 Job Ticket: 67872 **DST#: 2**  
 Test Start: 2022.02.08 @ 22:10:00

## GENERAL INFORMATION:

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:35:07  
 Time Test Ended: 05:27:47  
 Interval: **3638.00 ft (KB) To 3666.00 ft (KB) (TVD)**  
 Total Depth: 3666.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 2322.00 ft (KB)  
 2315.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8875** **Inside**  
 Press@RunDepth: 132.27 psig @ 3639.00 ft (KB) Capacity: psig  
 Start Date: 2022.02.08 End Date: 2022.02.09 Last Calib.: 2022.02.09  
 Start Time: 22:10:01 End Time: 05:27:47 Time On Btm: 2022.02.09 @ 00:35:02  
 Time Off Btm: 2022.02.09 @ 03:34:47

TEST COMMENT: 45-IF-Surface to 4"  
 45-ISI-No Return  
 45-FF-Surface to 3"  
 45-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.71	95.86	Initial Hydro-static
1	13.36	95.16	Open To Flow (1)
45	81.49	115.44	Shut-In(1)
90	453.39	109.94	End Shut-In(1)
91	82.65	110.19	Open To Flow (2)
135	132.27	117.49	Shut-In(2)
179	449.83	114.32	End Shut-In(2)
180	1769.76	113.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 10%M 90%W	3.12

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co

**14-12s-21w Trego, KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67872

**DST#: 2**

ATTN: Marc Downing

Test Start: 2022.02.08 @ 22:10:00

## Tool Information

Drill Pipe:	Length: 3603.00 ft	Diameter: 3.82 inches	Volume: 51.07 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	53000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 daN
Depth to Top Packer:	3638.00 ft			Final	51000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circ Sub	1.00			3618.00	
Change Over Sub	1.00			3619.00	
Shut In Tool	5.00			3624.00	
Hydraulic tool	5.00			3629.00	
Packer	5.00			3634.00	21.00 Bottom Of Top Packer
Packer	4.00			3638.00	
Stubb	1.00			3639.00	
Recorder	0.00	6838	Inside	3639.00	
Recorder	0.00	8875	Inside	3639.00	
Perforations	24.00			3663.00	
Bullnose	3.00			3666.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67872

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2022.02.08 @ 22:10:00

### 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:

63000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW 10%M 90%W	3.124

Total Length: 240.00 ft      Total Volume: 3.124 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

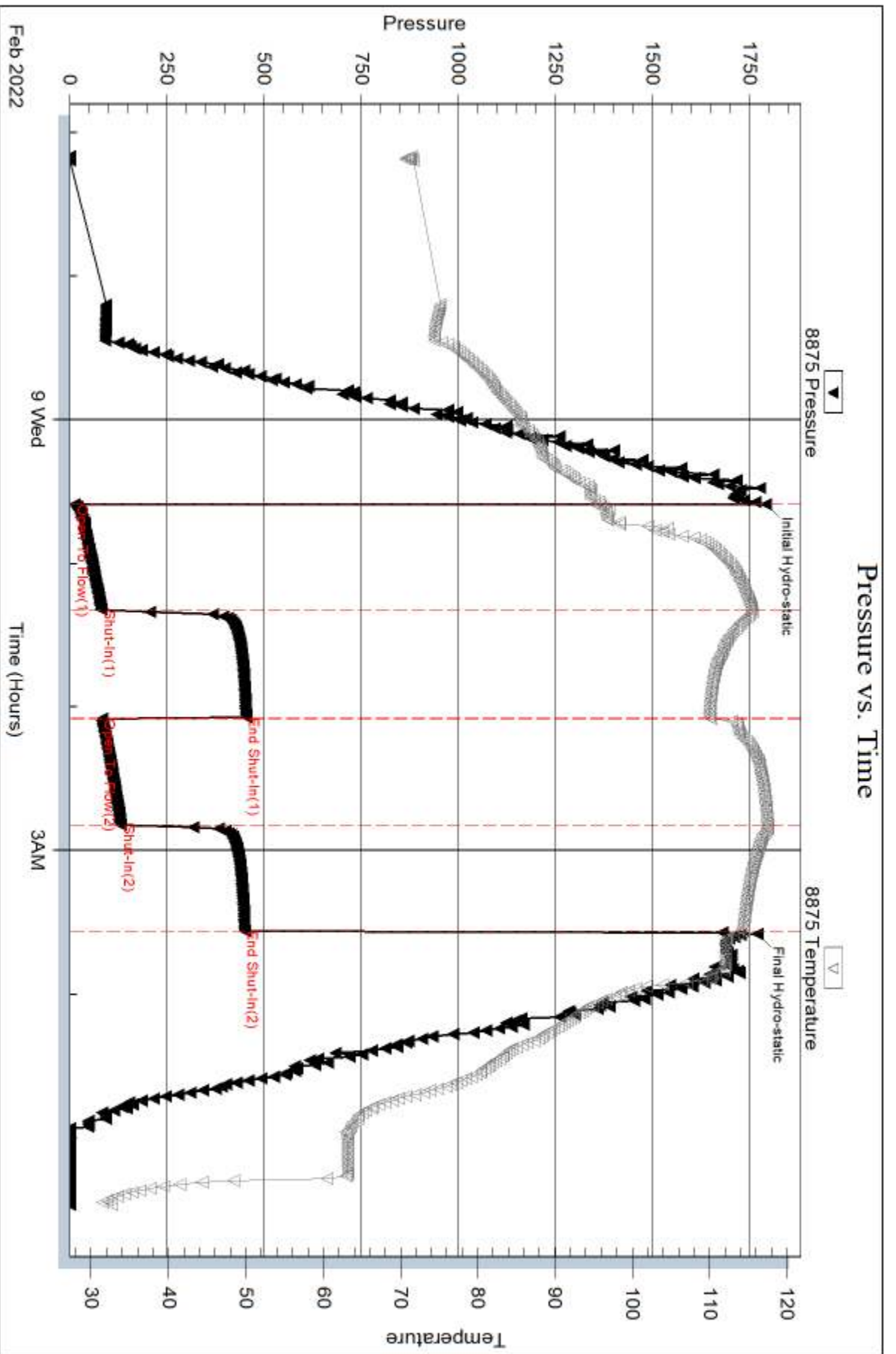
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

RW=.371@24F



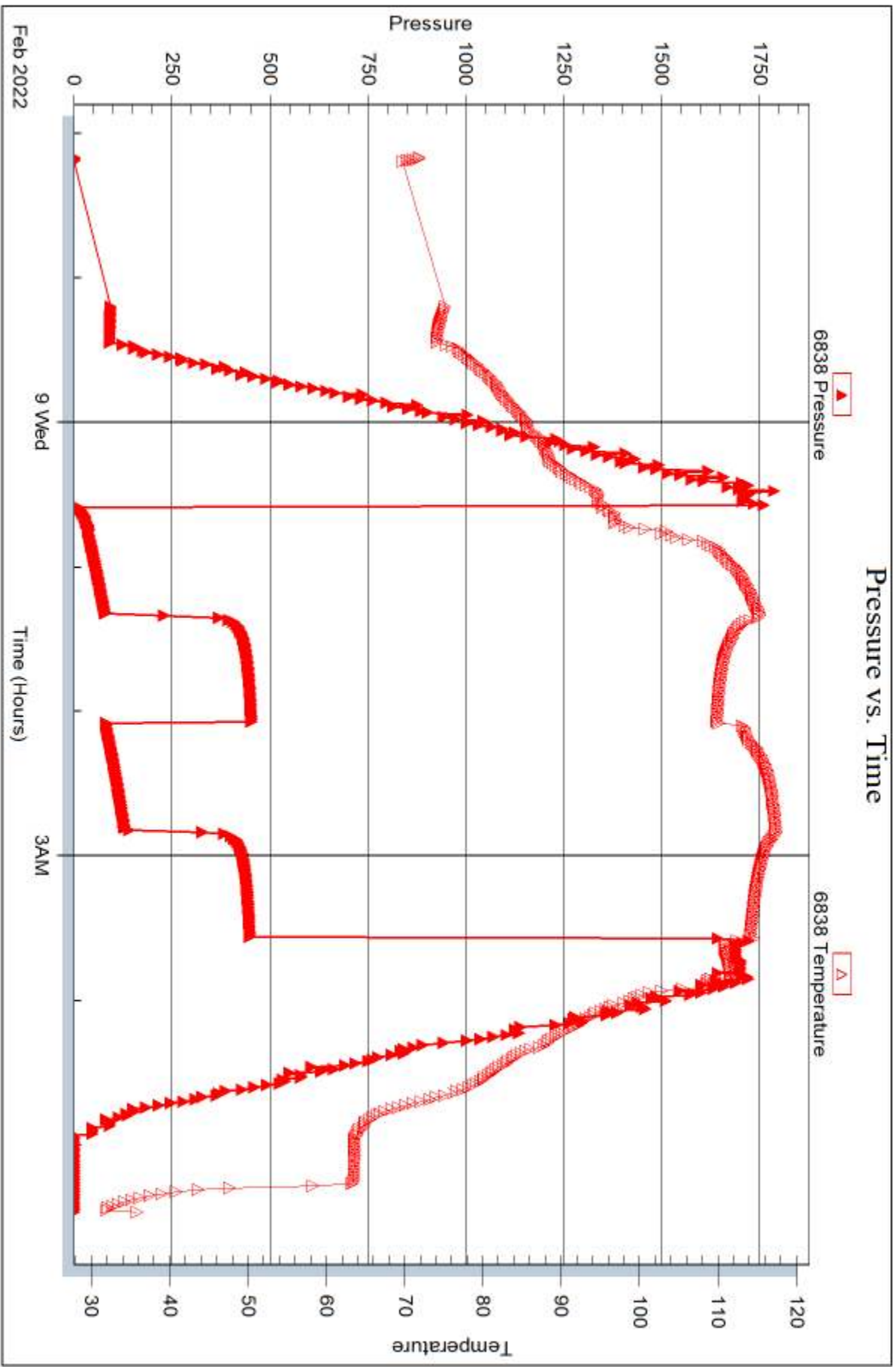
Serial #: 6838

Inside

Dow n ing Nelson Oil Co

Velma B#1-14

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 67872

Printed: 2022.02.16 @ 14:59:59



## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019  
Hays KS 67601+1019

ATTN: Marc Downing

**Velma B #1-14**

**14-12s-21w Trego,KS**

Start Date: 2022.02.10 @ 05:55:00

End Date: 2022.02.10 @ 11:05:32

Job Ticket #: 67873                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.16 @ 14:58:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co  
 PO Box 1019  
 Hays KS 67601+1019  
 ATTN: Marc Downing

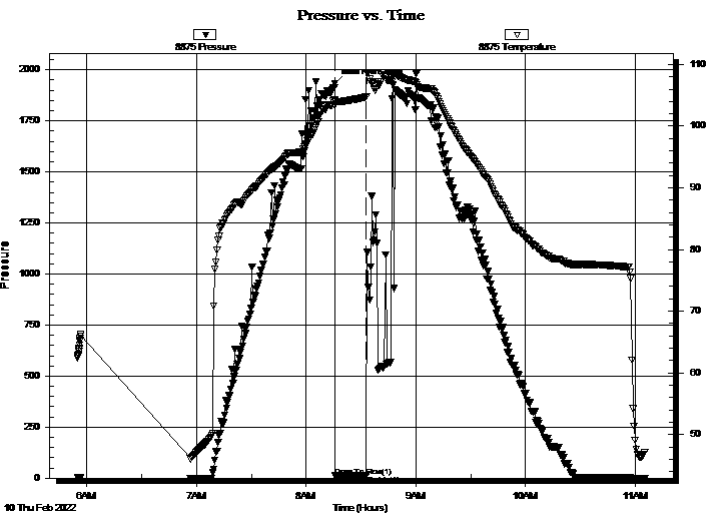
**14-12s-21w Trego,KS**  
**Velma B #1-14**  
 Job Ticket: 67873 **DST#: 3**  
 Test Start: 2022.02.10 @ 05:55:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:15:47 Tester: Spencer J Staab  
 Time Test Ended: 11:05:32 Unit No: 84  
 Interval: **3922.00 ft (KB) To 3945.00 ft (KB) (TVD)** Reference Elevations: 2322.00 ft (KB)  
 Total Depth: 3945.00 ft (KB) (TVD) 2315.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8875 Outside**  
 Press@RunDepth: psig @ 3923.00 ft (KB) Capacity: psig  
 Start Date: 2022.02.10 End Date: 2022.02.10 Last Calib.: 2022.02.10  
 Start Time: 05:55:01 End Time: 11:05:32 Time On Btm: 2022.02.10 @ 08:15:42  
 Time Off Btm:

**TEST COMMENT:** 30-IF-Weak Surface Lost Packer seat @ 17 mins  
 Tried resetting twice Didn't hold Tripped out



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.91	104.14	Initial Hydro-static
1	10.94	103.35	Open To Flow (1)
18	15.92	104.78	Shut-In(1)

## Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Mud 100%M	16.73

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67873

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2022.02.10 @ 05:55:00

## Tool Information

Drill Pipe:	Length: 3886.00 ft	Diameter: 3.82 inches	Volume: 55.09 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	71000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	51000.00 daN
Drill Pipe Above KB:	15.00 ft			Final	60000.00 daN
Depth to Top Packer:	3922.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	23.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

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

Circ Sub	1.00			3902.00	
Change Over Sub	1.00			3903.00	
Shut In Tool	5.00			3908.00	
Hydraulic tool	5.00			3913.00	
Packer	5.00			3918.00	21.00 Bottom Of Top Packer
Packer	4.00			3922.00	
Stubb	1.00			3923.00	
Recorder	0.00	6838	Inside	3923.00	
Recorder	0.00	8875	Outside	3923.00	
Perforations	19.00			3942.00	
Bullnose	3.00			3945.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67873

**DST#: 3**

ATTN: Marc Dow ning

Test Start: 2022.02.10 @ 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: 58.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	Mud 100%M	16.733

Total Length: 1200.00 ft      Total Volume: 16.733 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

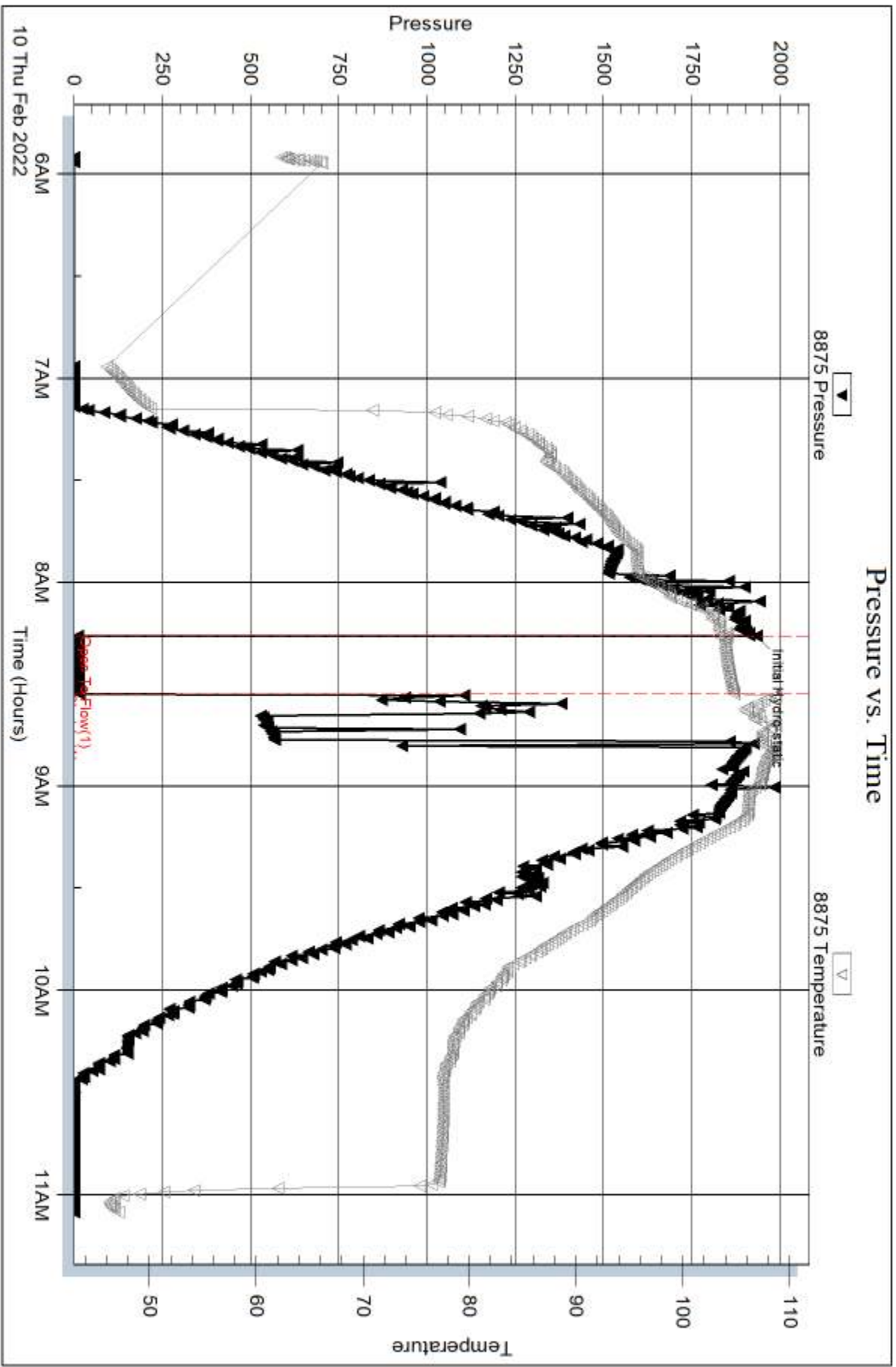
Recovery Comments: 2#LCM

Serial #: 8875

Outside Dow n ing Nelson Oil Co

Veina B#1-14

DST Test Number: 3



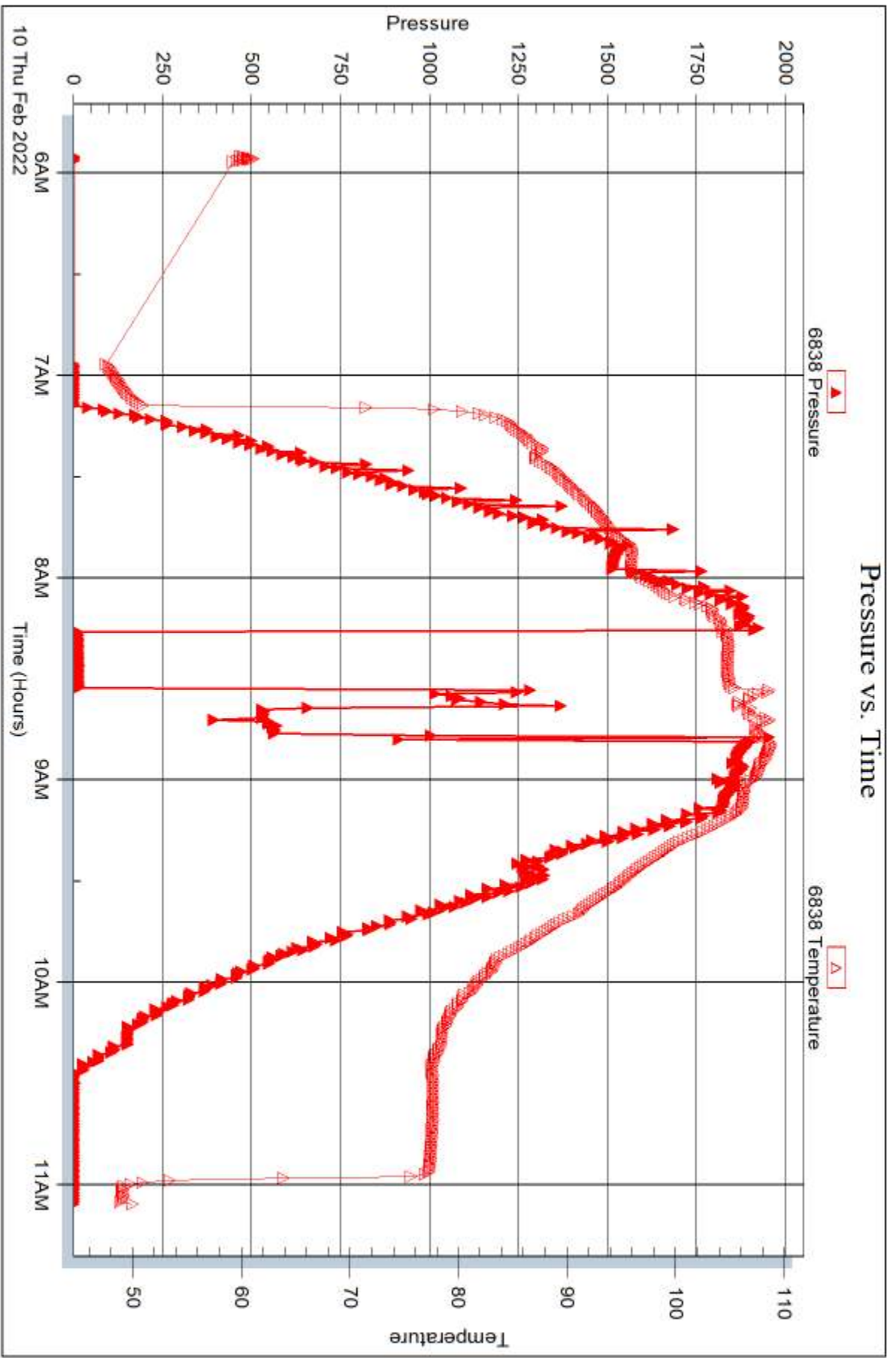
Serial #: 6838

Inside

Dow n ing Nelson Oil Co

Veima B#1-14

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019  
Hays KS 67601+1019

ATTN: Marc Downing

**Velma B #1-14**

**14-12s-21w Trego,KS**

Start Date: 2022.02.10 @ 19:53:00

End Date: 2022.02.11 @ 03:10:47

Job Ticket #: 67874                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.16 @ 14:55:53



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co  
 PO Box 1019  
 Hays KS 67601+1019  
 ATTN: Marc Downing

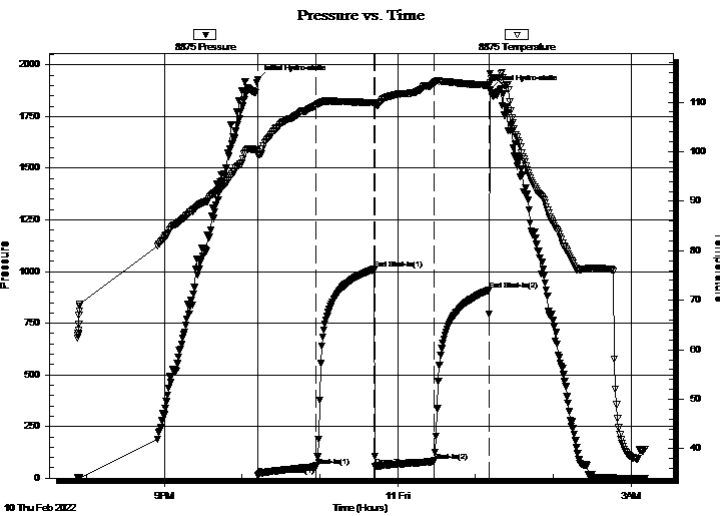
**14-12s-21w Trego,KS**  
**Velma B #1-14**  
 Job Ticket: 67874 **DST#: 4**  
 Test Start: 2022.02.10 @ 19:53:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 22:12:07 Tester: Spencer J Staab  
 Time Test Ended: 03:10:47 Unit No: 84  
 Interval: **3943.00 ft (KB) To 3999.00 ft (KB) (TVD)** Reference Elevations: 2322.00 ft (KB)  
 Total Depth: 3999.00 ft (KB) (TVD) 2315.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8875 Inside**  
 Press@RunDepth: 80.57 psig @ 3946.00 ft (KB) Capacity: psig  
 Start Date: 2022.02.10 End Date: 2022.02.11 Last Calib.: 2022.02.11  
 Start Time: 19:53:01 End Time: 03:10:47 Time On Btm: 2022.02.10 @ 22:12:02  
 Time Off Btm: 2022.02.11 @ 01:11:32

TEST COMMENT: 45-IF-Surface to 4.5"  
 45-ISI-No Return  
 45-FF-BOB 45 mins- 12"  
 45-FSI-Surface to 1/4" Died in 10 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.19	100.03	Initial Hydro-static
1	14.37	99.35	Open To Flow (1)
45	55.75	109.31	Shut-In(1)
90	1010.40	109.92	End Shut-In(1)
91	56.08	109.68	Open To Flow (2)
136	80.57	113.86	Shut-In(2)
179	910.52	113.45	End Shut-In(2)
180	1878.89	113.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	GHMCO 15%G 35%M 50%O	2.42
0.00	200 GIP 100%G	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67874

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2022.02.10 @ 19:53:00

## Tool Information

Drill Pipe:	Length: 3917.00 ft	Diameter: 3.82 inches	Volume: 55.53 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	52000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	50000.00 daN
Drill Pipe Above KB:	25.00 ft			Final	51000.00 daN
Depth to Top Packer:	3943.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	56.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

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

Circ Sub	1.00			3923.00	
Change Over Sub	1.00			3924.00	
Shut In Tool	5.00			3929.00	
Hydraulic tool	5.00			3934.00	
Packer	5.00			3939.00	21.00 Bottom Of Top Packer
Packer	4.00			3943.00	
Stubb	1.00			3944.00	
Perforations	1.00			3945.00	
Change Over Sub	1.00			3946.00	
Recorder	0.00	6838	Inside	3946.00	
Recorder	0.00	8875	Inside	3946.00	
Drill Pipe	32.00			3978.00	
Change Over Sub	1.00			3979.00	
Perforations	17.00			3996.00	
Bullnose	3.00			3999.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67874

**DST#: 4**

ATTN: Marc Dow ning

Test Start: 2022.02.10 @ 19:53:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

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
190.00	GHMCO 15%G 35%M 50%O	2.416
0.00	200 GIP 100%G	0.000

Total Length: 190.00 ft

Total Volume: 2.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

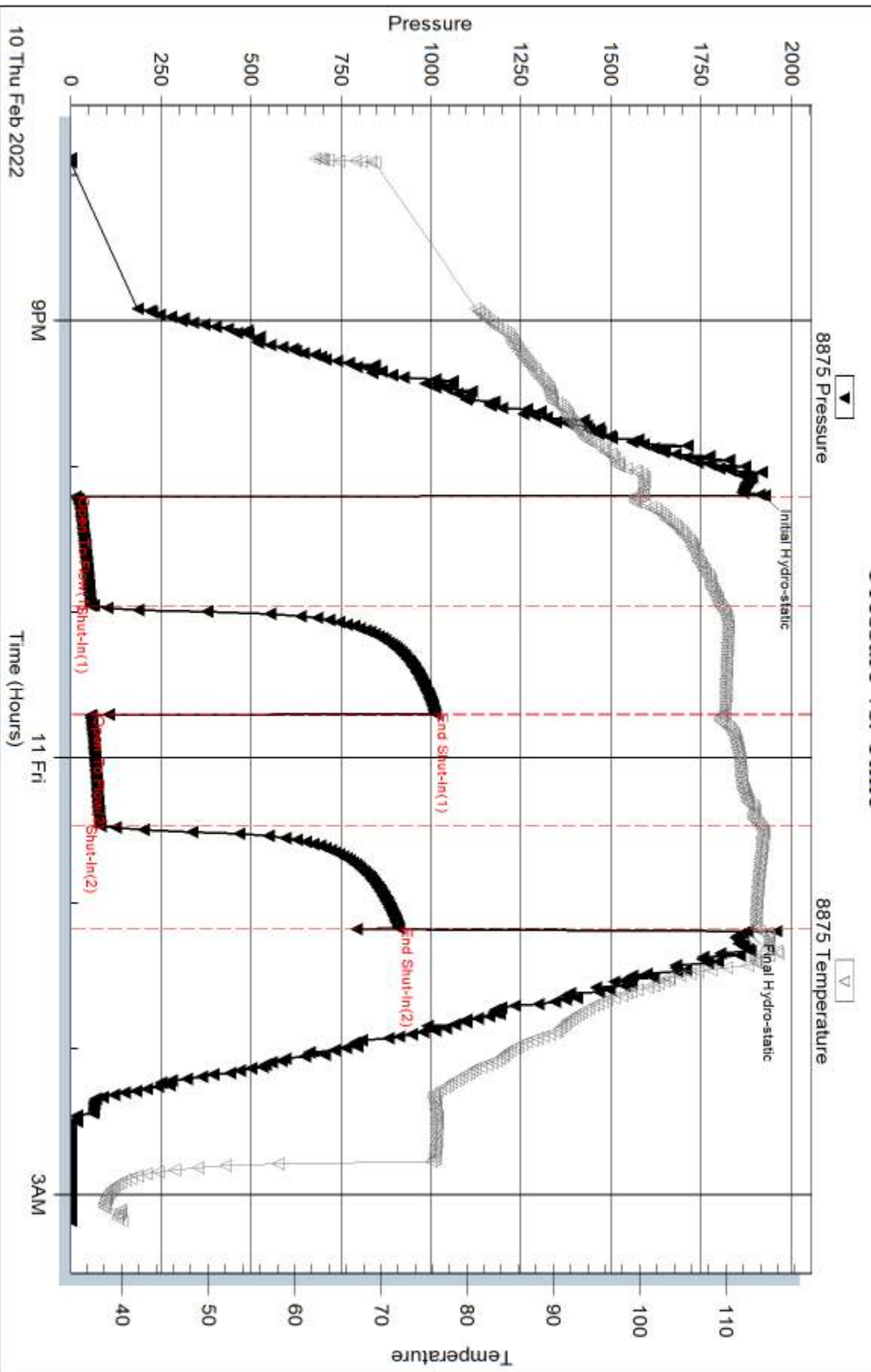
Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019  
Hays KS 67601+1019

ATTN: Marc Downing

**Velma B #1-14**

**14-12s-21w Trego,KS**

Start Date: 2022.02.11 @ 10:48:00

End Date: 2022.02.11 @ 20:01:42

Job Ticket #: 67875                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.16 @ 14:54:02



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co  
 PO Box 1019  
 Hays KS 67601+1019  
 ATTN: Marc Downing

**14-12s-21w Trego, KS**  
**Velma B #1-14**  
 Job Ticket: 67875 **DST#: 5**  
 Test Start: 2022.02.11 @ 10:48:00

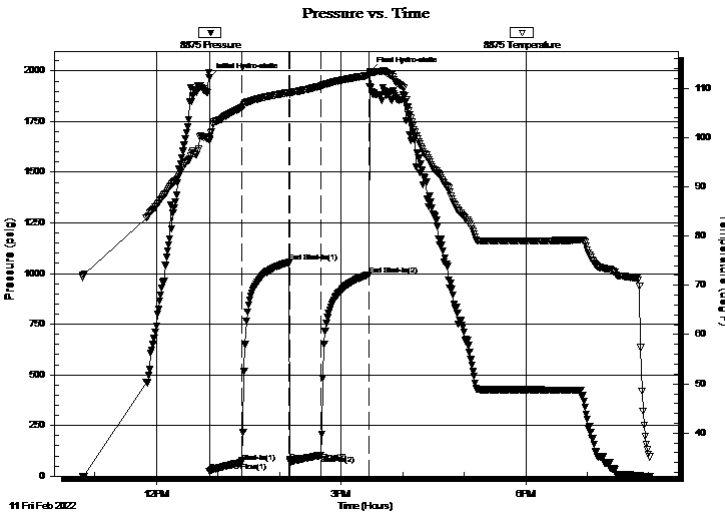
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 12:51:37 Tester: Spencer J Staab  
 Time Test Ended: 20:01:42 Unit No: 84  
 Interval: **3999.00 ft (KB) To 4028.00 ft (KB) (TVD)** Reference Elevations: 2322.00 ft (KB)  
 Total Depth: 4028.00 ft (KB) (TVD) 2315.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8875 Inside**  
 Press@RunDepth: 103.21 psig @ 4002.00 ft (KB) Capacity: psig  
 Start Date: 2022.02.11 End Date: 2022.02.11 Last Calib.: 2022.02.11  
 Start Time: 10:48:01 End Time: 20:01:42 Time On Btm: 2022.02.11 @ 12:51:27  
 Time Off Btm: 2022.02.11 @ 15:28:02

**TEST COMMENT:** 30-IF-BOB 20 mins Built to 15"  
 45-ISI-Surface to 1/4" Died in 22 mins  
 30-FF-BOB 21 mins Built to 14.5"  
 45-FSI-Surface to 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.35	99.77	Initial Hydro-static
1	22.20	99.43	Open To Flow (1)
32	68.05	106.08	Shut-In(1)
78	1055.44	109.12	End Shut-In(1)
79	71.17	108.96	Open To Flow (2)
109	103.21	110.43	Shut-In(2)
156	994.64	112.57	End Shut-In(2)
157	1998.02	112.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHMCO 20%G 20%M 60%O	0.57
190.00	GO 20%G m80%O	2.69
0.00	250 GIP 100%G	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67875

**DST#: 5**

ATTN: Marc Downing

Test Start: 2022.02.11 @ 10:48:00

## Tool Information

Drill Pipe:	Length: 3980.00 ft	Diameter: 3.82 inches	Volume: 56.42 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	50000.00 daN
Drill Pipe Above KB:	32.00 ft			Final	52000.00 daN
Depth to Top Packer:	3999.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circ Sub	1.00			3979.00	
Change Over Sub	1.00			3980.00	
Shut In Tool	5.00			3985.00	
Hydraulic tool	5.00			3990.00	
Packer	5.00			3995.00	21.00 Bottom Of Top Packer
Packer	4.00			3999.00	
Stubb	1.00			4000.00	
Perforations	2.00			4002.00	
Recorder	0.00	6838	Inside	4002.00	
Recorder	0.00	8875	Inside	4002.00	
Perforations	23.00			4025.00	
Bullnose	3.00			4028.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co

**14-12s-21w Trego,KS**

PO Box 1019  
Hays KS 67601+1019

**Velma B #1-14**

Job Ticket: 67875

**DST#: 5**

ATTN: Marc Downing

Test Start: 2022.02.11 @ 10:48:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

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 bbl
60.00	GHMCO 20%G 20%M 60%O	0.573
190.00	GO 20%G m80%O	2.693
0.00	250 GIP 100%G	0.000

Total Length: 250.00 ft

Total Volume: 3.266 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

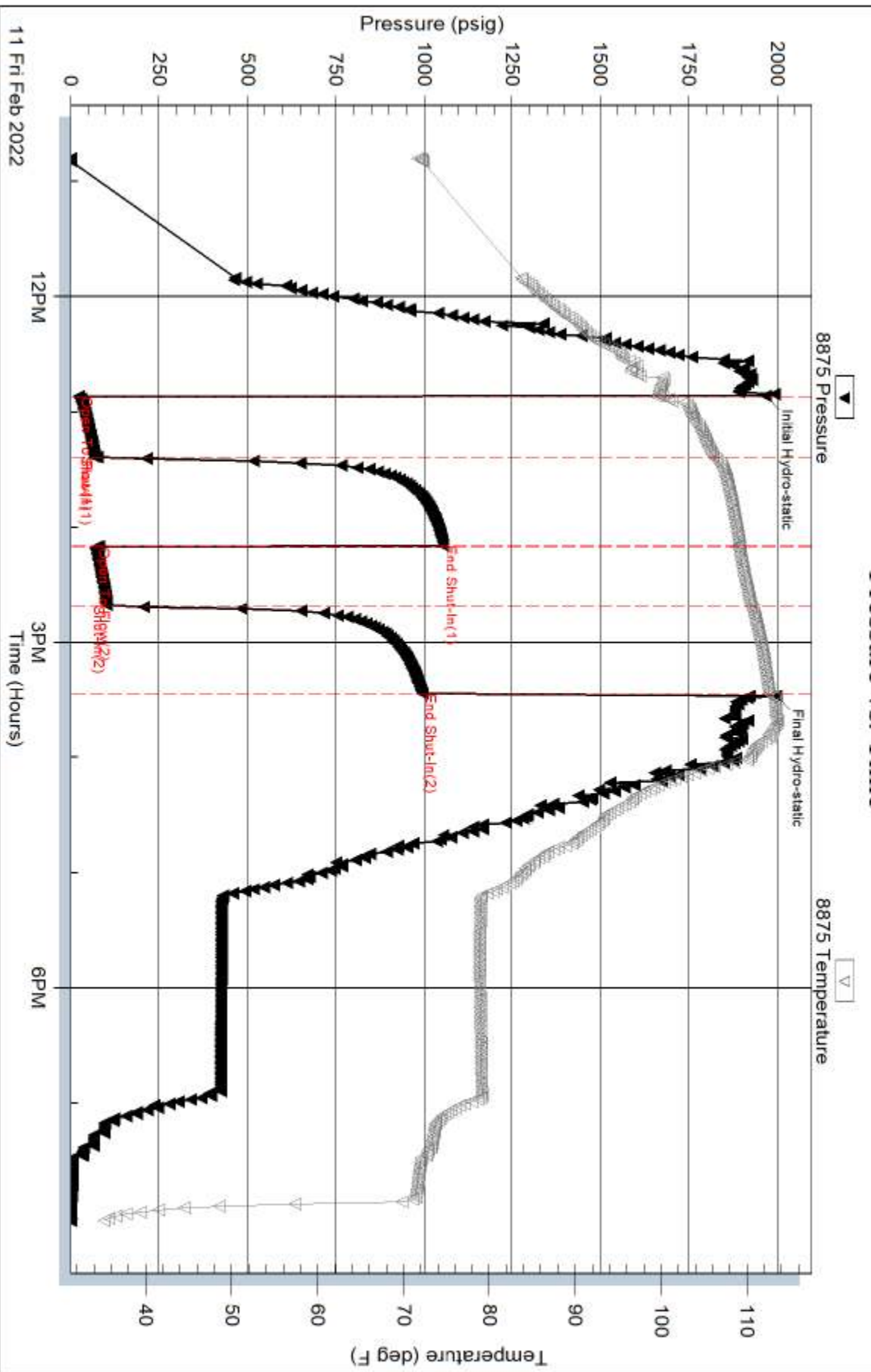
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

### Pressure vs. Time





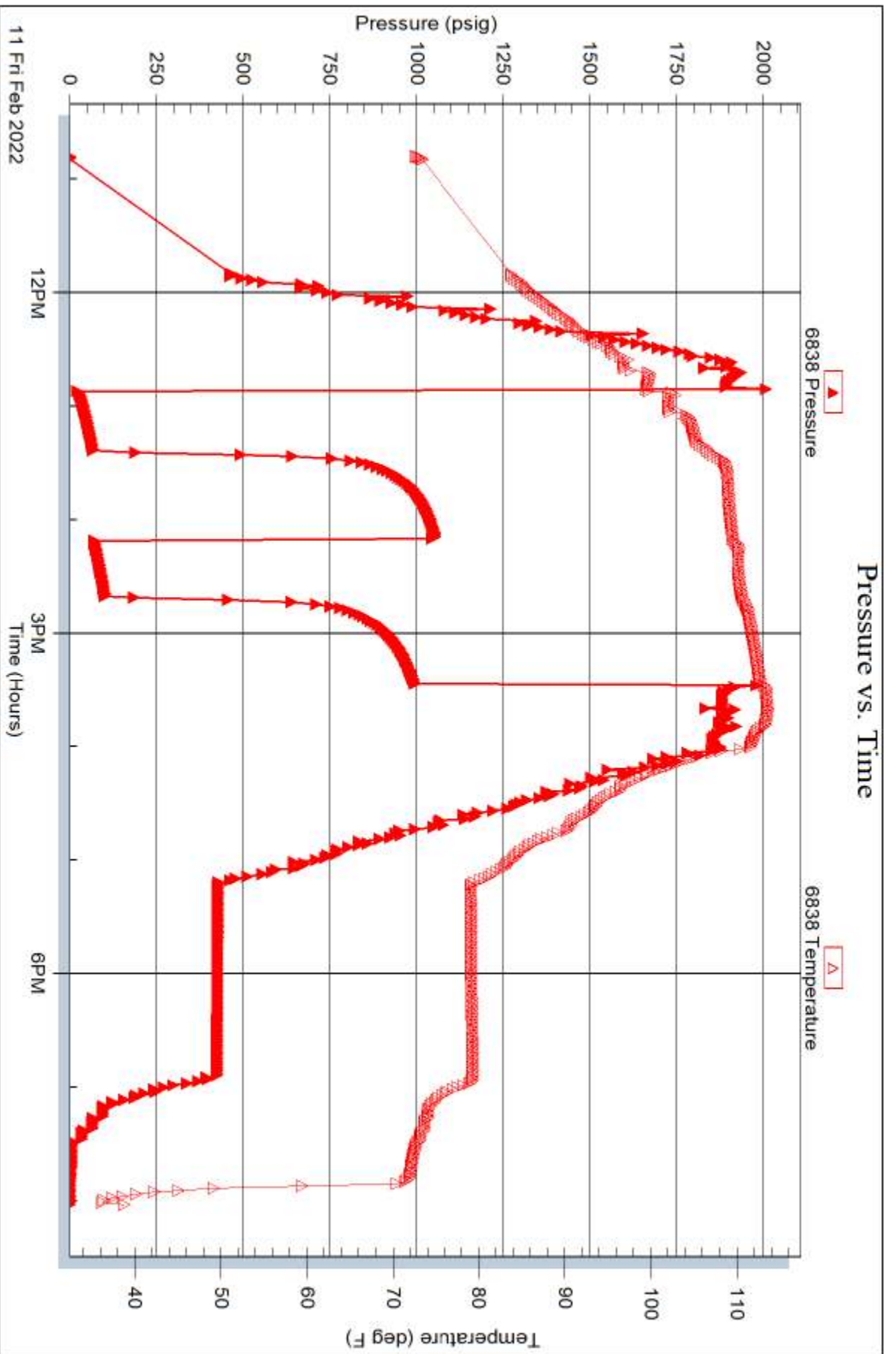
Serial #: 6838

Inside

Downing Nelson Oil Co

Veina B#1-14

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 67875

Printed: 2022.02.16 @ 14:54:03



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO: **67871**

Well Name & No. Velma B #1-14 Test No. 1 Date 02/08/2022  
 Company D.N.O.C.O. Elevation 2322 KB 2315 GL  
 Address PO BOX 1019 Hays KS 67601 + 1019  
 Co. Rep / Geo. Max Downing Rig Discovery #2  
 Location: Sec. 14 Twp 12a Rge. 21w Co. Trego State KS

Interval Tested 3575' - 3635' Zone Tested Lans A  
 Anchor Length 60' Drill Pipe Run 3540' Mud Wt. 8.7  
 Top Packer Depth 3570' Drill Collars Run 30' Vis 75  
 Bottom Packer Depth 3575' Wt. Pipe Run - WL 8.8  
 Total Depth 3635' Chlorides 1000 ppm System LCM 3#

Blow Description 17-Surface to 1 1/2"  
1st No Return  
77-Surface to 1"  
7st No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>WCM</u>		<u>20</u>	<u>80</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 Total 55' BHT 100° Gravity - API RW 121 @ 60 °F Chlorides 77,000 ppm

(A) Initial Hydrostatic 1717  Test 1300 T-On Location 07:45  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 09:45  
 (C) First Final Flow 33  Safety Joint \_\_\_\_\_ T-Open 11:30  
 (D) Initial Shut-In 568  Circ Sub \_\_\_\_\_ T-Pulled 13:30  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 15:08  
 (F) Second Final Flow 40  Mileage 5027 62.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 504  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1696  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Accessibility \_\_\_\_\_ Total 1362.50  
 Final Flow 30 Sub Total 1362.50 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative [Signature] Thanks!  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the 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.

785-259-0556





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67872

Well Name & No. Velma B #1-14 Test No. 2 Date 02/08/2022  
 Company AMOCJ Elevation 2322 KB 2315 GL  
 Address PO BOX 1019 Hays KS 67601+1019  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 14 Twp 12S Rge. 2W Co. Trego State KS

Interval Tested 3638' - 3666' Zone Tested Lans C  
 Anchor Length 28' Drill Pipe Run 3603' Mud Wt. 9.1  
 Top Packer Depth 3633' Drill Collars Run 30' Vis .58  
 Bottom Packer Depth 3638' Wt. Pipe Run - WL 8.8  
 Total Depth 3666' Chlorides 2000 ppm System LCM 2#

Blow Description 77-Surface to 4"  
SSD- No Return  
77- Surface to 3"  
7SD- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>MCEW w/oil spots</u>		<u>90</u>	<u>10</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 Total 240 BHT 113° Gravity - API RW .371 @ 24 °F Chlorides 63,000 ppm

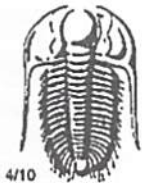
(A) Initial Hydrostatic 1791  Test 1300 T-On Location 21:21  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 22:10  
 (C) First Final Flow 81  Safety Joint \_\_\_\_\_ T-Open 00:31 02/09/2022  
 (D) Initial Shut-In 453  Circ Sub \_\_\_\_\_ T-Pulled 03:31  
 (E) Second Initial Flow 82  Hourly Standby \_\_\_\_\_ T-Out 05:25  
 (F) Second Final Flow 132  Mileage 5027 62.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 449  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1769  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Sub Total 0  
 Sub Total 1362.50  Accessibility \_\_\_\_\_ Total 1362.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the 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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67873

Well Name & No. Velma B #1-14 Test No. 3 Date 02/10/2022  
 Company DNOC Elevation 2322 KB 2315 GL  
 Address PO BOX 1019 Hays KS 67601 + 1019  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 14 Twp 12s Rge. 21w Co. Trego State KS

Interval Tested 3922' - 3945' Zone Tested Marmaton  
 Anchor Length 23' Drill Pipe Run 3886' Mud Wt. 9.1  
 Top Packer Depth 3917' Drill Collars Run 30 Vis 58  
 Bottom Packer Depth 3922' Wt. Pipe Run - WL 8.8  
 Total Depth 3945' Chlorides 2000 ppm System LCM 2#

Blow Description 17 Weak Surface; lost packer seat @ 17 mins; tried resetting twice; trip out

Rec	Feet of	%gas	%oil	%water	%mud
1200'	Mud			100	

Rec Total 1200' BHT 104° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1931  Test 1050 T-On Location 05:30  
 (B) First Initial Flow 10  Jars - T-Started 05:55  
 (C) First Final Flow 15  Safety Joint - T-Open 08:15  
 (D) Initial Shut-In -  Circ Sub - T-Pulled 08:45  
 (E) Second Initial Flow -  Hourly Standby - T-Out 11:05  
 (F) Second Final Flow -  Mileage 5027 62.50 Comments -  
 (G) Final Shut-In -  Sampler -  
 (H) Final Hydrostatic -  Straddle -  EM Tool -  
 Shale Packer -  Ruined Shale Packer -  
 Extra Packer -  Ruined Packer -  
 Extra Recorder -  Extra Copies -  
 Initial Open 30  Day Standby x1 Sub Total 0  
 Initial Shut-In -  Accessibility - Total 1112.50  
 Final Flow - Sub Total 1112.5 MP/DST Disc't -  
 Final Shut-In -

Approved By \_\_\_\_\_ Our Representative JJ Stuart Thanks!





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67874

Well Name & No. Velma B #1-14 Test No. 4 Date 02/10/2022  
 Company DNOC Elevation 2322 KB 2315 GL  
 Address PO BOX 1019 Hays KS 67601+1019  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 14 Twp 12A Rge. 2W Co. Trego State KS

Interval Tested 3943'-3999' Zone Tested Arbuckle  
 Anchor Length 56' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.4  
 Top Packer Depth 3938' Drill Collars Run 30 Vis 52  
 Bottom Packer Depth 3943' Wt. Pipe Run \_\_\_\_\_ WL 8  
 Total Depth 3999' Chlorides 4000 ppm System LCM 2#

Blow Description 77-Surface to 4 1/2"  
78- No Return

77- BOB 45 mins - 12"  
78- Surface to 14"; Died in 10 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>190'</u>	<u>G HMCO</u>	<u>15</u>	<u>50</u>	<u>35</u>	
Rec _____	Feet of <u>200' GTP</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 Total 190' BHT 113° Gravity 36° API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1927  Test 1300 T-On Location 18:45  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 19:53  
 (C) First Final Flow 55  Safety Joint \_\_\_\_\_ T-Open 22:10  
 (D) Initial Shut-In 1010  Circ Sub \_\_\_\_\_ T-Pulled 01:10 02/11/2022  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out 03:09  
 (F) Second Final Flow 80  Mileage 50RY 62.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 910  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1878  Straddle \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 45  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1362.50  
 Sub Total 1362.50 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature] Thanks!

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67875**

Well Name & No. Velma B # 1-14 Test No. 5 Date 02/11/2022  
 Company DNOCD Elevation 2322 KB 2315 GL  
 Address PO BOX 1019 Hays Ks 67601 +1019  
 Co. Rep / Geo. Marc Downing Rig Discovery #2  
 Location: Sec. 14 Twp 24 Rge. 2W Co. Trego State Ks

Interval Tested 3999' - 4028' Zone Tested Arbuckle  
 Anchor Length 29' Drill Pipe Run 3980' Mud Wt. 9.3  
 Top Packer Depth 3994' Drill Collars Run 30' Vis 56  
 Bottom Packer Depth 3999' Wt. Pipe Run — WL 8  
 Total Depth 4028' Chlorides 3000 ppm System LCM 3#

Blow Description 27- BOB 20 mins; Built to 15"  
2SD - Surface to 1/4" Died in 22 mins  
77- BOB 21 mins; Built to 14 1/2"  
7SD - Surface to 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>GHMCO</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>—</u>
<u>190'</u>	<u>G10</u>	<u>20</u>	<u>80</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>250' GTP</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 250' BHT 112° Gravity 36° API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1968  Test 1450 T-On Location 10:32  
 (B) First Initial Flow 22  Jars — T-Started 10:48  
 (C) First Final Flow 68  Safety Joint — T-Open 12:50  
 (D) Initial Shut-In 1055  Circ Sub — T-Pulled 15:20  
 (E) Second Initial Flow 71  Hourly Standby — T-Out 20:00  
 (F) Second Final Flow 103  Mileage 5027 62.50 Comments loaded after test  
 (G) Final Shut-In 994  Sampler —  
 (H) Final Hydrostatic 1998  Straddle —  EM Tool —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Day Standby — Sub Total 0  
 Accessibility — Total 1512.50  
 Sub Total 1512.50 MP/DST Disc't —

Approved By — Our Representative JJ Steel Thanks!  
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