KOLAR Document ID: 1682903

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 # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2:
City: HAYS State: KS Zip: 67601 + 1019
Contact Person: Alan Downing
Phone: (785) 621-2610
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Marc Downing
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 #:

12/27/2022 Spud Date or Recompletion Date
01/05/2023 Date Reached TD
02/08/2023 Completion Date or Recompletion Date

API No.: 15-153-21302-00-00
Spot Description:
SE - NE - NW - NE Sec. 16 Twp. 5 S. R. 36 ☐ East ☑ West
520 Feet from ☑ North / ☐ South Line of Section
1455 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rawlins
Lease Name: KRAMER-SCOTT B Well #: 1-16
Field Name:
Producing Formation: Altamont "B"
Elevation: Ground: 3322 Kelly Bushing: 3333
Total Vertical Depth: 4900 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 466 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: 8000 ppm Fluid volume: 240 bbls
Dewatering method used: Evaporated
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: 03/06/2023
☐ **Confidential Release Date:** 03/05/2025
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 03/07/2023

Page Two

Operator Name: Downing-Nelson Oil Co Inc Lease Name: KRAMER-SCOTT B Well #: 1-16

Sec. 16 Twp. 5 S. R. 36 ☐ East ☑ West County: Rawlins

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	466	H-325	325	-
Production	7.875	5.5	14	4864	H-long	200	-

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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

Date of first Production/Injection or Resumed Production/ Injection: 03/03/2023

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4522	4525

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4522	4525			250 gallons 15% Mud Acid
					2250 gallons 20% NE Acid

TUBING RECORD: Size: 2.3750 Set At: 4835 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KRAMER-SCOTT B 1-16
Doc ID	1682903

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KRAMER-SCOTT B 1-16
Doc ID	1682903

Tops

Name	Top	Datum
Top Anhydrite	3036'	+297
Base Anhydrite	3072'	+261
Foraker	3707'	-374
Topeka	3987'	-654
Heebner	4155'	-822
LKC	4204'	-871
Stark	4400'	-1067
BKC	4455'	-1122
Pawnee	4578'	-1245
Cherokee Shale	4656'	-1323
Mississippi	4847'	-1514

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KRAMER-SCOTT B 1-16
Doc ID	1682903

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	466	H-325	325	-
Production	7.875	5.5	14	4864	H-long	200	-

CEMENT TREATMENT REPORT

Customer:	Downing-Nelson Oil Co	**Well:**	Kramer-Scott B #1-16	**Ticket:**	WP3774
City, State:		**County:**	Rawlins, KS	**Date:**	12/28/2022
Field Rep:	Spencer Savage	**S-T-R:**	16-5S-36W	**Service:**	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	482 ft
Casing Size:	8 5/8 in
Casing Depth:	481 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	29.5 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	81.6 bbls
Total Sacks:	325 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1130pm			-	-	Arrive on Location
1145pm				-	Safety Meeting
400am				-	Rig Up
				-	
434am	5.0	375.0	5.0	5.0	H2O Ahead
437am	4.0	300.0	81.6	86.6	Sluryy H-325 @ 14.8ppg
500am	5.0	200.0	29.5	116.1	Displace
507am		250.0		116.1	Plug Down Circulated 10bbls of Cement to Plt
				116.1	
510am				116.1	Wash Up
520am				116.1	Rig Down
530am					Leave Location

	CREW	UNIT
Cementer:	Spencer	943
Pump Operator:	Micheal	230
Bulk #1:	Jose	194/250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	281 psi	116 bbls

ftv: 13-2021/01/19
mplv: 339-2022/10/05

CEMENT TREATMENT REPORT

Customer:	Downing Nelson	**Well:**	Kramer-Scott B #1-16	**Ticket:**	WP3807
City, State:		**County:**	Rawlins,KS	**Date:**	1/6/2023
Field Rep:		**S-T-R:**	16-5S-36W	**Service:**	Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4900 ft
Casing Size:	5 1/2 in
Casing Depth:	4874 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	118.4 bbls

Calculated Slurry - Lead	
Blend:	H-Long
Weight:	15.0 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.36 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	48.5 bbls
Total Sacks:	200 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.6 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
620am			-	-	Arrive On Location
115pm				-	Casing Crew Arrived
				-	Turbos on Joints 1-9 Basket On Joint 11
445pm				-	Safety Meeting
500pm				-	Rig Up
				-	
520pm	5.0	200.0	5.0	5.0	H2O Ahead
521mp	5.0	200.0	12.0	17.0	Mud Flush
524pm	5.0	200.0	5.0	22.0	Water Spacer
537pm	3.0	100.0	7.6	29.6	Rat Hole 30 sks H-Plug at 13.8ppg
541pm	3.0	100.0	5.0	34.6	Mouse Hole 20 sks H-Plug at 13.8ppg
546pm	4.2	400.0	48.5		Cement Slurry H-Long at 15ppg
556pm					Drop Plug and Wash Pump and Lines
601pm	6.6	450.0	118.4		Start Displacement with First 20bbls 2% KCL Water
627pm	3.0	1,250.0			Land Plug Bump pressure to 2000 PSI
630pm					Bleed Off Pressure Plug Held 1.5bbls back to displacement Tank
635pm					Rig Down
650pm					Leave Location

	CREW	UNIT
Cementer:	Spencer	943
Pump Operator:	Micheal	230
Bulk #1:	Deon	194/250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.4 bpm	363 psi	202 bbls

ftv: 13-2021/01/19
mplv: 339-2022/10/05

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing- Nelson Oil Company Inc**

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Kramer-Scott B#1-16

16-5s-36w Rawlins,KS

Start Date: 2023.01.03 @ 02:35:00
End Date: 2023.01.03 @ 13:22:30
Job Ticket #: 69733 DST #: 1

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

Printed: 2023.01.09 @ 11:05:56

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69733 **DST#: 1**

Test Start: 2023.01.03 @ 02:35:00

GENERAL INFORMATION:

Formation: **Altamont B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:38:45
Time Test Ended: 13:22:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Nathan Aneas
Unit No: 71

Interval: 4500.00 ft (KB) To 4531.00 ft (KB) (TVD)
Total Depth: 4531.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

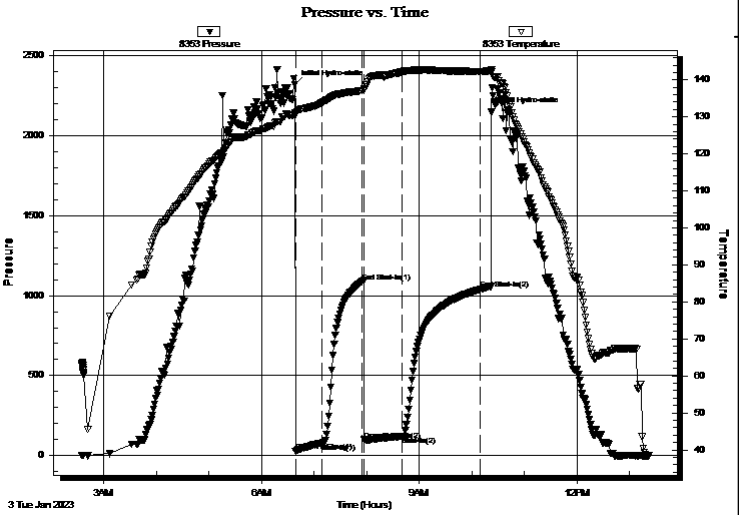
Reference Elevations: 3333.00 ft (KB)
3322.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 **Outside**

Press@RunDepth: 121.88 psig @ 4501.00 ft (KB)
Start Date: 2023.01.03 End Date: 2023.01.03
Start Time: 02:35:01 End Time: 13:22:30

Capacity: 8000.00 psig
Last Calib.: 2023.01.03
Time On Btm: 2023.01.03 @ 06:38:00
Time Off Btm: 2023.01.03 @ 10:22:30

TEST COMMENT: 30:IF- Weak surface blow , built to 4 1/4"in 10 min, final is 9 1/2"
45:ISI- Weak surface blow , built to 1/2" in 10 min, final died to no blow
45:FF- Weak surface blow , built to 2 3/4" in 10 min, final is 9 3/4"
60:FSI- Weak surface blow , built to 1/4" in 10 min, final died to no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2319.38	131.06	Initial Hydro-static
1	27.21	130.73	Open To Flow (1)
32	79.16	133.84	Shut-In(1)
77	1086.70	137.05	End Shut-In(1)
80	99.17	137.61	Open To Flow (2)
123	121.88	142.24	Shut-In(2)
212	1039.56	142.32	End Shut-In(2)
225	2145.48	142.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
176.00	SOWCM 55%M 40%W 5%O	0.87
143.00	SGOCM 65%M 32%O 3%G less than 1%	2.01

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69733 **DST#: 1**

Test Start: 2023.01.03 @ 02:35:00

GENERAL INFORMATION:

Formation: **Altamont B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:38:45
Time Test Ended: 13:22:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Nathan Aneas
Unit No: 71

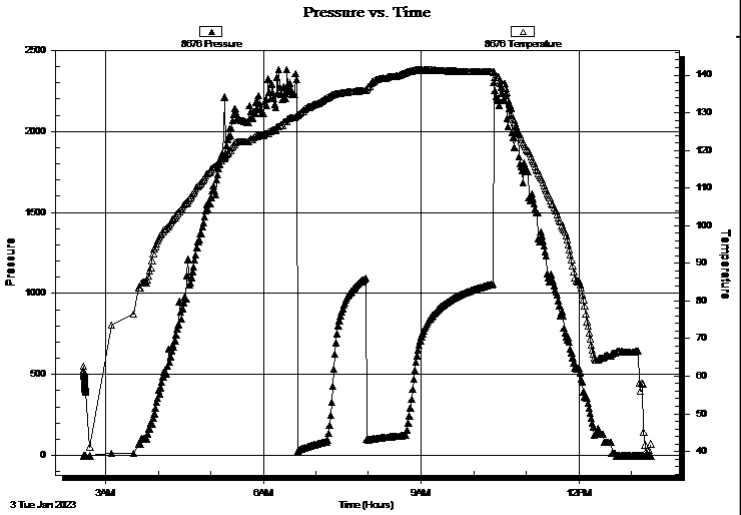
Interval: 4500.00 ft (KB) To 4531.00 ft (KB) (TVD)
Total Depth: 4531.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Elevations: 3333.00 ft (KB)
3322.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8676 **Inside**
Press@RunDepth: psig @ 4501.00 ft (KB)
Start Date: 2023.01.03 End Date: 2023.01.03
Start Time: 02:35:01 End Time: 13:22:45

Capacity: 8000.00 psig
Last Calib.: 2023.01.03
Time On Btm:
Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 4 1/4"in 10 min, final is 9 1/2"
45:ISI- Weak surface blow , built to 1/2" in 10 min, final died to no blow
45:FF- Weak surface blow , built to 2 3/4" in 10 min, final is 9 3/4"
60:FSI- Weak surface blow , built to 1/4" in 10 min, final died to no blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
176.00	SOWCM 55%M 40%W 5%O	0.87
143.00	SGOCM 65%M 32%O 3%G less than 1%	2.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69733 **DST#: 1**

Test Start: 2023.01.03 @ 02:35:00

Tool Information

Drill Pipe:	Length:	4316.00 ft	Diameter:	3.80	inches	Volume:	60.54	bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00	inches	Volume:	0.00	bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	176.00 ft	Diameter:	2.25	inches	Volume:	0.87	bbl	Weight to Pull Loose:	65000.00 lb
						Total Volume:	61.41	bbl	Tool Chased	ft
Drill Pipe Above KB:		24.00 ft							String Weight: Initial	60000.00 lb
Depth to Top Packer:		4500.00 ft							Final	63000.00 lb
Depth to Bottom Packer:		ft								
Interval betw een Packers:		31.00 ft								
Tool Length:		63.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
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	32.00	Bottom Of Top Packer
Packer	5.00			4500.00		
Stubb	1.00			4501.00		
Recorder	0.00	8353	Outside	4501.00		
Recorder	0.00	8676	Inside	4501.00		
Perforations	27.00			4528.00		
Bullnose	3.00			4531.00	31.00	Bottom Packers & Anchor
Total Tool Length:	**63.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69733 **DST#: 1**

Test Start: 2023.01.03 @ 02:35:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34.6 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	60000 ppm
Viscosity:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	0.23 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

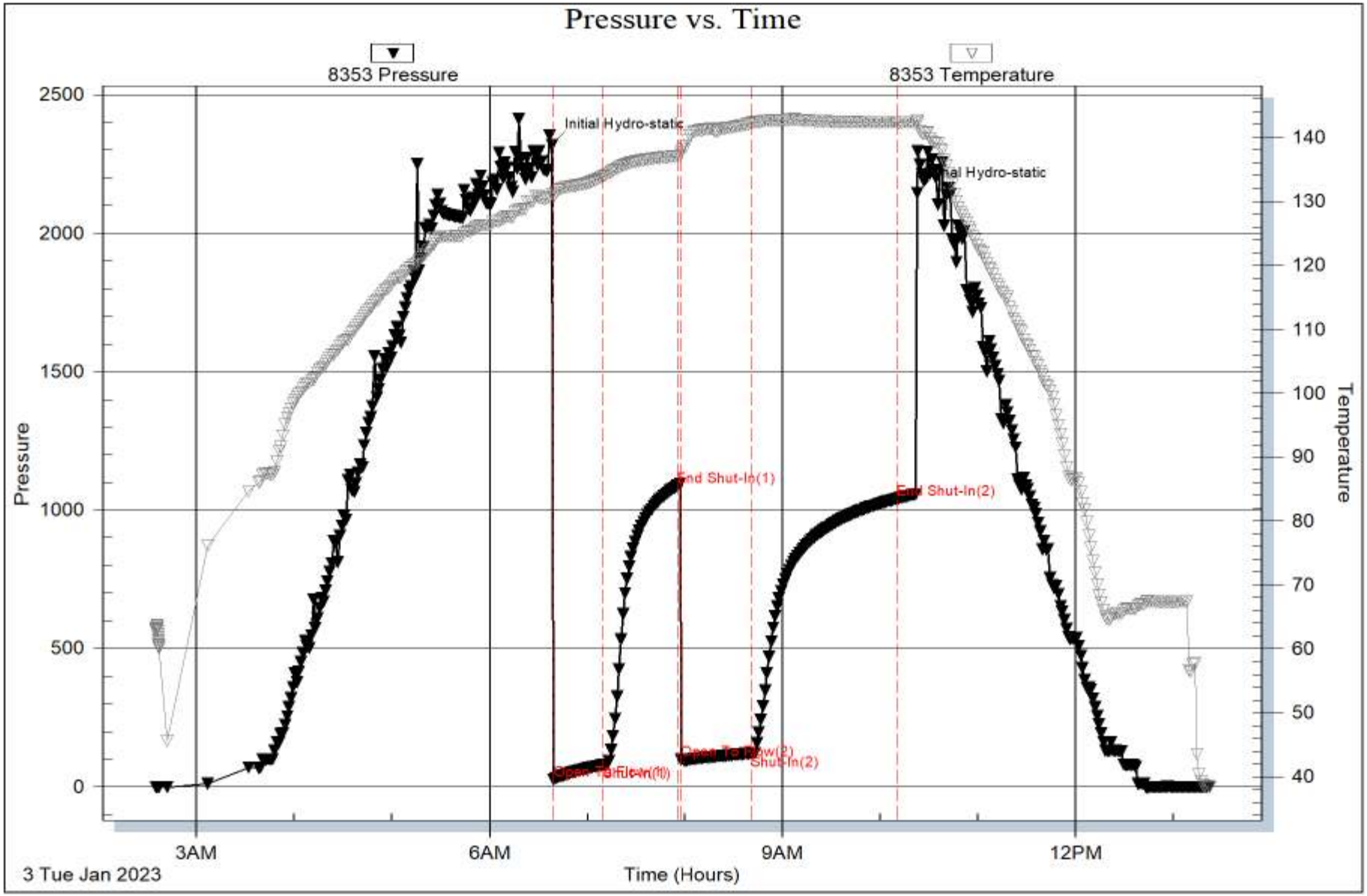
Recovery Table

Length ft	Description	Volume bbl
176.00	SOWCM 55%M 40%W 5%O	0.866
143.00	SGOCM 65%M 32%O 3%G less than 1%W	2.006

Total Length: 319.00 ft Total Volume: 2.872 bbl

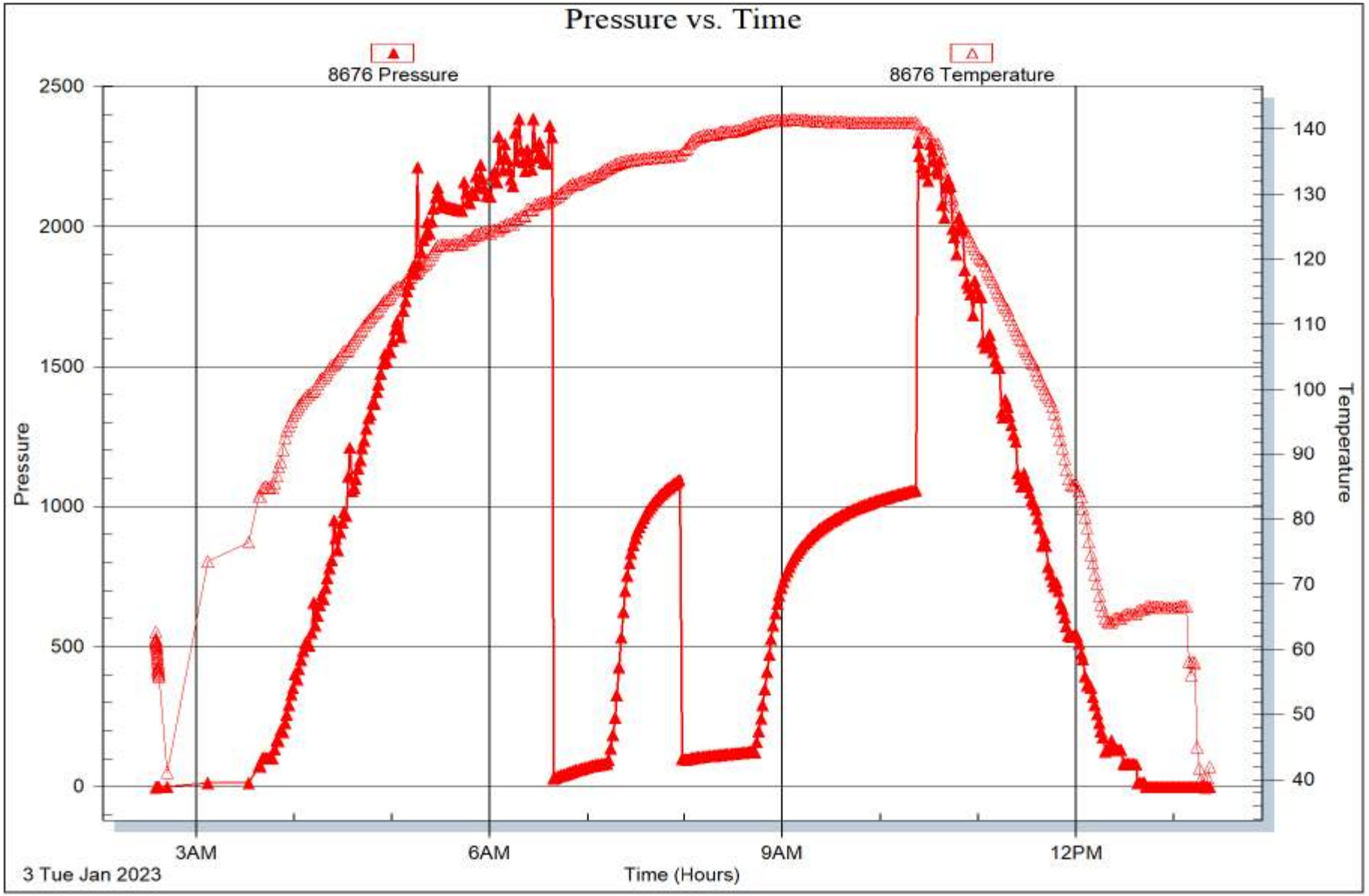
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8353 **Outside** Dow ning- Nelson Oil Company Inc Kramer-Scott B#1-16 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69733 Printed: 2023.01.09 @ 11:05:57

Serial #: 8676 **Inside** Dow ning- Nelson Oil Company Inc Kramer-Scott B#1-16 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69733 Printed: 2023.01.09 @ 11:05:57

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing- Nelson Oil Company Inc**

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Kramer-Scott B#1-16

16-5s-36w Rawlins,KS

Start Date: 2023.01.04 @ 03:50:00
End Date: 2023.01.04 @ 11:28:45
Job Ticket #: 69734 DST #: 2

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

Printed: 2023.01.09 @ 11:05:17

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69734 **DST#: 2**

Test Start: 2023.01.04 @ 03:50:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:46:15
Time Test Ended: 11:28:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Nathan Aneas
Unit No: 71

Interval: 4556.00 ft (KB) To 4595.00 ft (KB) (TVD)
Total Depth: 4595.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

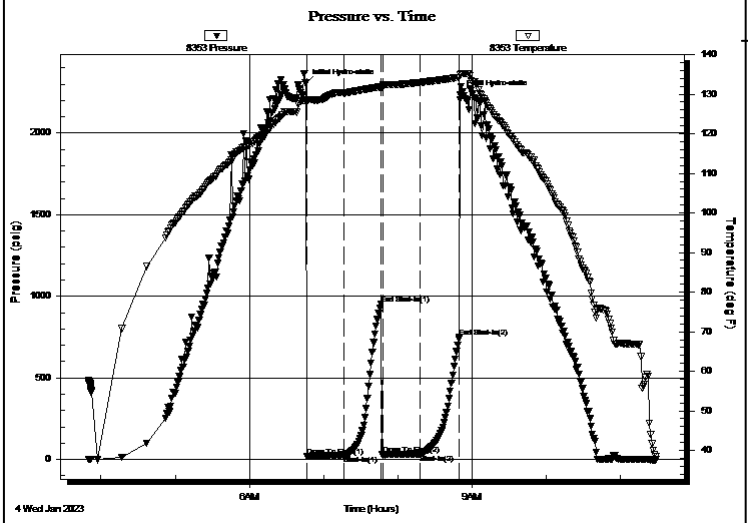
Reference Elevations: 3333.00 ft (KB)
3322.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 **Outside**

Press@RunDepth: 34.59 psig @ 4557.00 ft (KB)
Start Date: 2023.01.04 End Date: 2023.01.04
Start Time: 03:50:01 End Time: 11:28:45

Capacity: 8000.00 psig
Last Calib.: 2023.01.04
Time On Btm: 2023.01.04 @ 06:45:30
Time Off Btm: 2023.01.04 @ 08:50:30

TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1"
30:ISI- No blow back
30:FF- Weak surface blow , built to 1/2" in 10 min, final is 1 1/4"
30:FSI- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.40	128.18	Initial Hydro-static
1	20.90	127.89	Open To Flow (1)
31	25.28	130.31	Shut-In(1)
61	952.47	131.83	End Shut-In(1)
62	29.06	131.78	Open To Flow (2)
93	34.59	132.97	Shut-In(2)
124	748.17	134.30	End Shut-In(2)
125	2233.07	134.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 50%M 50%O	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69734 **DST#: 2**

Test Start: 2023.01.04 @ 03:50:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:46:15
Time Test Ended: 11:28:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Nathan Aneas
Unit No: 71

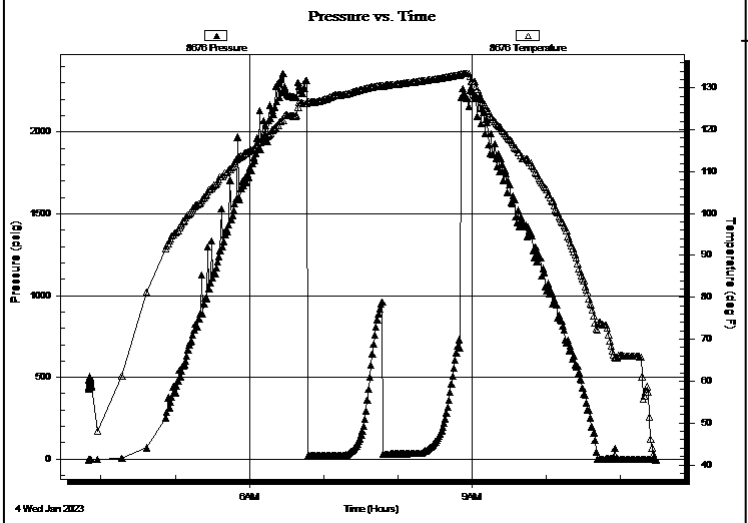
Interval: 4556.00 ft (KB) To 4595.00 ft (KB) (TVD)
Total Depth: 4595.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Elevations: 3333.00 ft (KB)
3322.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8676 **Inside**
Press@RunDepth: psig @ 4557.00 ft (KB)
Start Date: 2023.01.04 End Date: 2023.01.04
Start Time: 03:50:01 End Time: 11:29:00

Capacity: 8000.00 psig
Last Calib.: 2023.01.04
Time On Btm:
Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1"
30:ISI- No blow back
30:FF- Weak surface blow , built to 1/2" in 10 min, final is 1 1/4"
30:FSI- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 50%M 50%O	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69734 **DST#: 2**

Test Start: 2023.01.04 @ 03:50:00

Tool Information

Drill Pipe:	Length:	4378.00 ft	Diameter:	3.80 inches	Volume:	61.41 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	176.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	
					Total Volume:	62.28 bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	4556.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	39.00 ft
Tool Length:	71.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		68000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	64000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4529.00		
Hydraulic tool	5.00			4534.00		
Jars	5.00			4539.00		
EM Tool	4.00			4543.00		
Safety Joint	3.00			4546.00		
Packer	5.00			4551.00	32.00	Bottom Of Top Packer
Packer	5.00			4556.00		
Stubb	1.00			4557.00		
Recorder	0.00	8353	Outside	4557.00		
Recorder	0.00	8676	Inside	4557.00		
Perforations	35.00			4592.00		
Bullnose	3.00			4595.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning- Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

16-5s-36w Rawlins,KS

Kramer-Scott B#1-16

Job Ticket: 69734 **DST#: 2**

Test Start: 2023.01.04 @ 03:50:00

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

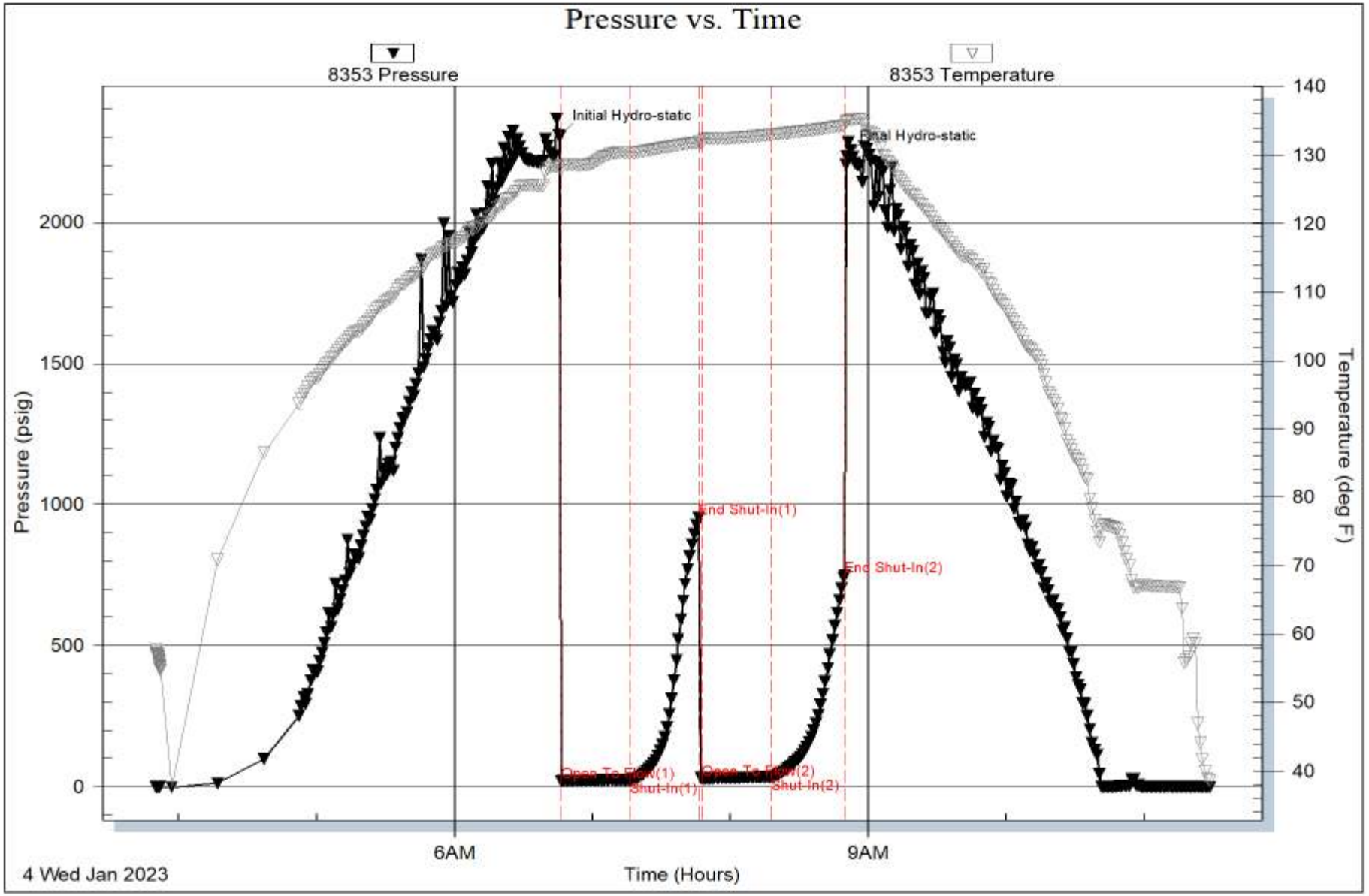
Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 50%M 50%O	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

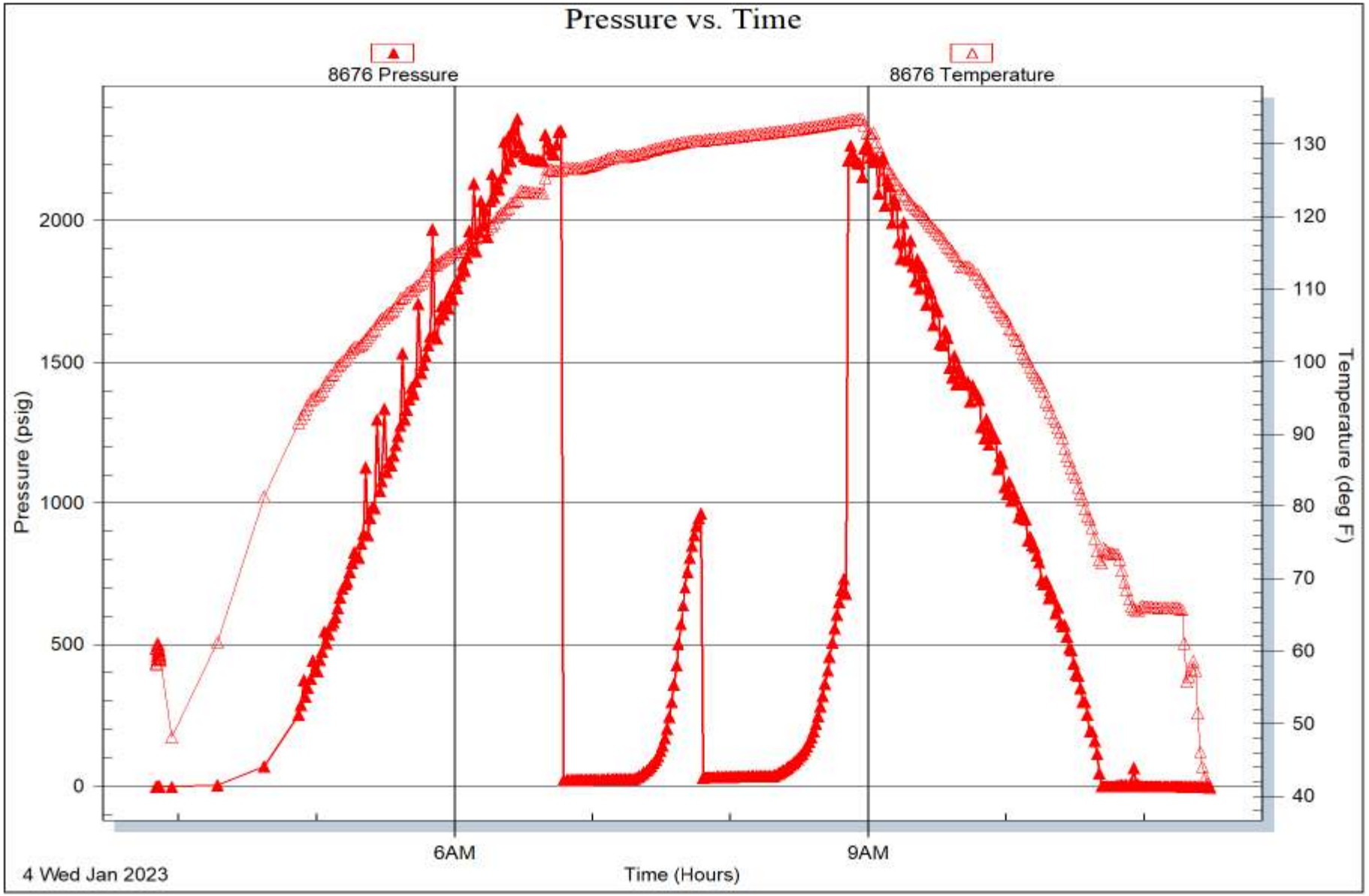
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8353 **Outside** Dow ning- Nelson Oil Company Inc Kramer-Scott B#1-16 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69734 Printed: 2023.01.09 @ 11:05:17

Serial #: 8676 **Inside** Dow ning- Nelson Oil Company Inc Kramer-Scott B#1-16 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69734 Printed: 2023.01.09 @ 11:05:18

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69733

Well Name & No. Kramer-Scott B #1-16 Test No. 1 Date 01/02/23
Company Downing Nelson Oil Company Inc Elevation ____ KB ____ GL
Address 111 W. 10th Hays, KS 67601
Co. Rep / Geo. Marc Downing Rig Duke #5
Location: Sec. 16 Twp 5s Rge. 36w Co. Rawlins State KS

Interval Tested 4500-4531 Zone Tested Altamont B
Anchor Length 31' Drill Pipe Run 4316 Mud Wt. 9.4
Top Packer Depth 4495 Drill Collars Run 176 Vis 65
Bottom Packer Depth 4500 Wt. Pipe Run ____ WL 8
Total Depth 4531 Chlorides 700 ppm System LCM 5#

Blow Description IF-Weak surface blow, built to 4¼" in 10 min, Final is 9½"
ISI-Weak surface blow, built to ½" in 10 min, Final is died to no blow
FF-Weak surface blow, built to 2¾" in 10 min, Final is 9¾"
FSI-Weak surface blow, built to ¼" in 10 min, Final died to no blow

Rec 176	Feet of SOWCM	%gas 5	%oil 40	%water 55	%mud	
Rec 143	Feet of SGOCM (less than 1% water)	%gas 3	%oil 32	%water 65	%mud	
Rec ____	Feet of ____	%gas	%oil	%water	%mud	
Rec ____	Feet of ____	%gas	%oil	%water	%mud	
Rec ____	Feet of ____	%gas	%oil	%water	%mud	

Rec Total 319' BHT 142° Gravity 34@60 API RW .233 @ 40 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2319	☑ Test 1950	T-On Location 21:30	
(B) First Initial Flow 27	☑ Jars 300	T-Started 02:35	
(C) First Final Flow 79	☑ Safety Joint ____	T-Open 06:38	
(D) Initial Shut-In 1087	☐ Circ Sub ____	T-Pulled 10:10	
(E) Second Initial Flow 99	☐ Hourly Standby ____	T-Out 13:20	
(F) Second Final Flow 122	☑ Mileage 118 RT 206.50	Comments ____	
(G) Final Shut-In 1040	☐ Sampler ____		
(H) Final Hydrostatic 2145	☐ Straddle ____	☑ EM Tool -350	
	☐ Shale Packer ____	☐ Ruined Shale Packer ____	
Initial Open 30	☐ Extra Packer ____	☐ Ruined Packer ____	
Initial Shut-In 45	☐ Extra Recorder ____	☐ Extra Copies ____	
Final Flow 45	☐ Day Standby ____	Sub Total -350	
Final Shut-In 60	☐ Accessibility ____	Total 2106.50	
	Sub Total 2456.50	MP/DST Disc't ____	

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69734

Well Name & No. Kramer-Scott R #1-16 Test No. 2 Date 01/04/23

Company Downing-Nelson Oil Company Inc Elevation 3333 KB 3332 GL

Address 111 W. 10th Hays, KS 67601

Co. Rep / Geo. Marc Downing Rig Duke #5

Location: Sec. 16 Twp 5s Rge. 36w Co. Rawlins State KS

Interval Tested 4556 - 4595 Zone Tested Pawnee

Anchor Length 39' Drill Pipe Run 4378 Mud Wt. 9.7

Top Packer Depth 4551 Drill Collars Run 176 Vis 62

Bottom Packer Depth 4556 Wt. Pipe Run WL 8

Total Depth 4595 Chlorides 800 ppm System LCM 4#

Blow Description IF-Weak surface blow, built to 1/2" in 10min, Final is 1"

ISI-No blow back

FF-Weak surface blow, built to 1/2" in 10min, Final is 1 1/4"

FSI-No blow back

Rec 5'	Feet of OCM	%gas 50	%oil	%water 50	%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 5' BHT 134° Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2304	☑ Test 1950	T-On Location 02:00	
(B) First Initial Flow 21	☑ Jars 300	T-Started 03:05	
(C) First Final Flow 25	☑ Safety Joint	T-Open 06:46	
(D) Initial Shut-In 952	☐ Circ Sub	T-Pulled 08:45	
(E) Second Initial Flow 29	☐ Hourly Standby	T-Out 10:40	
(F) Second Final Flow 36	☑ Mileage 118 RT 206.50 206.50	Comments Picked up tools @11:00 on 01/05/23	
(G) Final Shut-In 748	☐ Sampler		
(H) Final Hydrostatic 2233	☐ Straddle	☑ EM Tool	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 30	☐ Extra Packer	☑ Ruined Packer 460	
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies	
Final Flow 30	☐ Day Standby	Sub Total 460	
Final Shut-In 30	☐ Accessibility	Total 3123	
	Sub Total 2663	MP/DST Disc't	

Approved By ____ Our Representative ____

Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log

Operator	Downing-Nelson Oil Co., Inc.
Lease	Kramer-Scott B No. 1-16
API #	15-153-21302-0000
Field	Wildcat
Location	494' FNL & 1441' FEL
Sec. 16	Twp. 5s Rge. 36w
County Rawlins	State Kansas

Elevation
KB 3333
DF 3331
GL 3322

Casing Record
Surface
8 5/8" @ 476'
Production
5 1/2" @ 4874'

Electrical Surveys
CNDL, DIL
MEL, Sonic

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	3038	3036	+297	+8
Base Anhydrite	3077	3072	+261	+6
Foraker	3710	3707	-374	+9
Topeka	3988	3987	-654	+9
Heebner	4158	4155	-822	+9
LKC	4205	4204	-871	+10
Stark	4400	4400	-1067	+10
BKC	4455	4455	-1122	+10
Pawnee	4580	4578	-1245	+5
Cherokee Sh	4657	4656	-1323	+5
Mississippi	4848	4847	-1514	+5
Total Depth	4900	4900	-1567	

Reference Well For Structural Comparison DNOCI - Kramer-Scott Unit #1-16
1640' FNL & 285' FWL Sec. 16-5s-36w

Drilling Contractor		Duke Drilling, Rig #5	
Commenced	12-27-22	Completed	1-5-23
Samples Saved From	3700	To	RTD
Drilling Time Kept From	3600	To	RTD
Samples Examined From	3700	To	RTD
Geological Supervision From	3700	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: Ss, Sltst, Carbon Sh, shale, red, shale, grn, shale, gry, Dolprim, Lmst fw7>

ACCESSORIES

MINERAL: Chert, dark; Glauconite; Pyrite; Chert White

STRINGER: Dolomite; Sandstone; Shale; green shale; carb 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 Rpt

OIL SHOWS: Even Stn; Spotted Stn 50 - 75 %; Spotted Stn 25 - 50 %; Spotted Stn 1 - 25 %; Questionable Stn; Dead Oil Stn; Fluorescence