KOLAR Document ID: 1682910

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 #:

01/09/2023 Spud Date or Recompletion Date
01/18/2023 Date Reached TD
01/19/2023 Completion Date or Recompletion Date

API No.: 15-153-21305-00-00
Spot Description:
NW - NW - SE - NE Sec. 20 Twp. 5 S. R. 36 ☐ East ☑ West
1580 Feet from ☑ North / ☐ South Line of Section
1040 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: EICHER Well #: 1-20
Field Name:
Producing Formation: none
Elevation: Ground: 3207 Kelly Bushing: 3218
Total Vertical Depth: 4796 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 424 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: 320 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

Operator Name: Downing-Nelson Oil Co Inc Lease Name: EICHER Well #: 1-20

Sec. 20 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	Top	Datum
Attached	Attached	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	424	H-325	315	-

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:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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)*

TUBING RECORD: Size: Set At: 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	EICHER 1-20
Doc ID	1682910

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	EICHER 1-20
Doc ID	1682910

Tops

Name	Top	Datum
Top Anhydrite	2916'	+302
Base Anhydrite	2950'	+268
Foraker	3593'	-375
Topeka	3883'	-665
Heebner	4049'	-831
LKC	4101'	-883
Stark	4295'	-1077
BKC	4355'	-1137
Pawnee	4470'	-1252
Cherokee Shale	4548'	-1330
Mississippi	4735'	-1517

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	EICHER 1-20
Doc ID	1682910

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	424	H-325	315	-

CEMENT TREATMENT REPORT

Customer:	Downing-Nelson	**Well:**	Eicher 1-20	**Ticket:**	WP3819
City, State:		**County:**	Rawlins,KS	**Date:**	1/10/2023
Field Rep:		**S-T-R:**	16-5S-36W	**Service:**	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	440 ft
Casing Size:	8 3/8 in
Casing Depth:	436 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	26.5 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:	79.1 bbls
Total Sacks:	315 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
530am			-	-	Arrive On Location
545am				-	Safety Meeting
715am				-	Rig Up
				-	
745am	4.0	200.0	5.0	5.0	H2O Ahead
749am	4.7	400.0	79.1	84.1	Cement Slurry H-325 @ 14.8ppg
808am	4.5	250.0	26.5	110.6	Displacement
815am		250.0		110.6	Plug Down Circulated 6bbls to Pit
				110.6	
820am				110.6	Rig Down
830am				110.6	Leave Location

	CREW	UNIT
Cementer:	Spencer	943
Pump Operator:	Micheal	230
Bulk #1:	Adrian	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.4 bpm	275 psi	111 bbls

ftv: 13-2021/01/19
mplv: 342-2023/01/07

CEMENT TREATMENT REPORT

Customer:	Downing-Nelson	**Well:**	Eicher 1-20	**Ticket:**	WP3858
City, State:		**County:**	Rawlins,KS	**Date:**	1/19/2023
Field Rep:		**S-T-R:**	16-5S-36W	**Service:**	PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	2950 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
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:	0.0 bbls
Excess:	
Total Slurry:	64.5 bbls
Total Sacks:	255 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
300pm			-	-	Arive On Location
315pm				-	Safety Meeting
330pm				-	Rig Up
				-	Pipe Set at 2950'
350pm	4.3	400.0	5.0	5.0	H2O Ahead
354pm	4.3	400.0	12.6	17.6	Slurry H-Plug @ 13.8ppg 50 sacks
357pm		200.0	38.6	56.2	Displace with Rig Mud Pump
					Pipe Set at 1900'
504pm	4.7	360.0	5.0	5.0	H2O Ahead
506pm	4.0	420.0	25.3	30.3	Slurry H-Plug @ 13.8ppg 100 sacks
512pm	4.2	170.0	20.4	50.7	Displace
					Pipe Set at 475'
643pm	4.5	350.0	5.0		H2O Ahead
645pm	4.4	330.0	12.6		Slurry H-Plug @ 13.8ppg 50 sacks
648pm	2.6	150.0	3.5		Displace
					Push Plug to 40'
723pm	2.5	150.0	2.5		Slurry H-Plug @ 13.8ppg 10 Sacks
730pm	2.5	150.0	3.8		Slurry H-Plug @ 13.8ppg 15 Sacks Mouse Hole
734pm	2.5	150.0	7.6		Slurry H-Plug @ 13.8ppg 30 Sacks Rate Hole
740pm					Wash Up
750pm					Rig Down
800pm					Leave Location

	CREW	UNIT
Cementer:	Spencer	943
Pump Operator:	Micheal	230
Bulk #1:	Kale	242
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.7 bpm	269 psi	142 bbls

ftv: 13-2021/01/19
mplv: 350-2023/01/16

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Eicher #1-20

20-5s-36w Rawlins,KS

Start Date: 2023.01.16 @ 04:25:00
End Date: 2023.01.16 @ 12:40:15
Job Ticket #: 69740 DST #: 1

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

Printed: 2023.01.19 @ 16:52:16

DRILL STEM TEST REPORT

Downing-Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

20-5s-36w Rawlins,KS

Eicher #1-20

Job Ticket: 69740 **DST#: 1**

Test Start: 2023.01.16 @ 04:25:00

GENERAL INFORMATION:

Formation: **Altamont B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:03:45
Time Test Ended: 12:40:15

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

Interval: 4395.00 ft (KB) To 4430.00 ft (KB) (TVD)
Total Depth: 4430.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

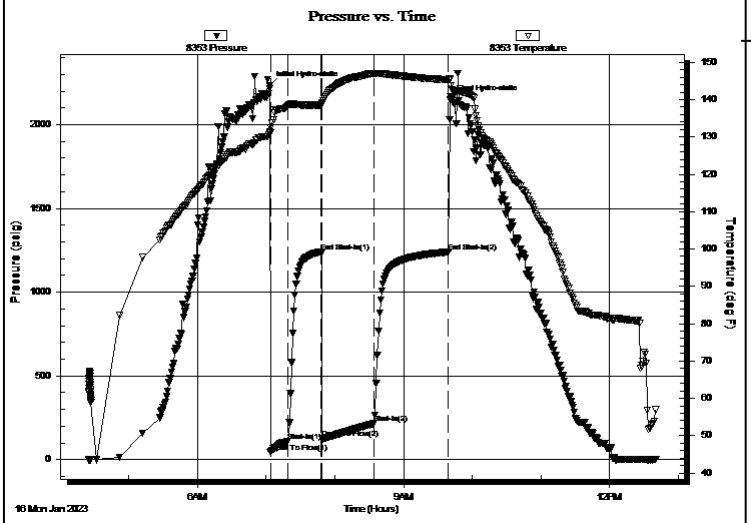
Reference Elevations: 3218.00 ft (KB)
3207.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8353 **Outside**

Press@RunDepth: 215.86 psig @ 4396.00 ft (KB)
Start Date: 2023.01.16 End Date: 2023.01.16
Start Time: 04:25:01 End Time: 12:40:15

Capacity: 8000.00 psig
Last Calib.: 2023.01.16
Time On Btm: 2023.01.16 @ 07:03:00
Time Off Btm: 2023.01.16 @ 09:40:30

TEST COMMENT: 15:IF- Fair surface blow , built to 7 1/2" in 10 min, final is BOB in 15 min (10 1/2")
30:ISI- Weak surface blow in 10 min, final stayed w eak surface blow
45:FF- Fair surface blow , built to 6 1/4" in 10 min, BOB in 19 min, final is 19 3/4"
60:FSI- Weak surface blow , built to 1/4" in 20 min, final died to w eak surface



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.93	131.11	Initial Hydro-static
1	43.75	131.15	Open To Flow (1)
16	107.94	138.30	Shut-In(1)
45	1241.83	138.48	End Shut-In(1)
46	124.44	138.86	Open To Flow (2)
92	215.86	146.95	Shut-In(2)
157	1239.82	145.29	End Shut-In(2)
158	2150.19	145.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	SOMCW 70%W 25%M 5%O	0.87
252.00	SGOMCW 50%W 30%M 15%O 5%G	3.53
5.00	CO 100%O	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

20-5s-36w Rawlins,KS

Eicher #1-20

Job Ticket: 69740 **DST#: 1**

Test Start: 2023.01.16 @ 04:25:00

GENERAL INFORMATION:

Formation: **Altamont B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:03:45
Time Test Ended: 12:40:15

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

Interval: 4395.00 ft (KB) To 4430.00 ft (KB) (TVD)
Total Depth: 4430.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair

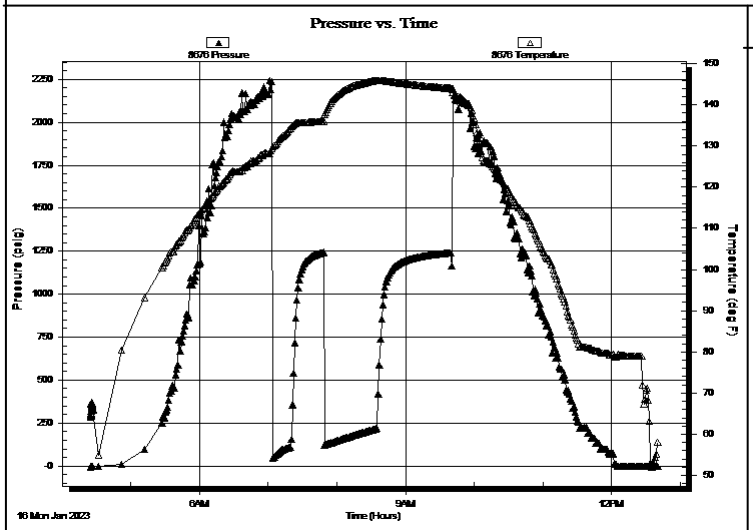
Reference Elevations: 3218.00 ft (KB)
3207.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8676 **Inside**

Press@RunDepth: psig @ 4396.00 ft (KB)
Start Date: 2023.01.16 End Date: 2023.01.16
Start Time: 04:25:01 End Time: 12:40:30

Capacity: 8000.00 psig
Last Calib.: 2023.01.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 15:IF- Fair surface blow , built to 7 1/2" in 10 min, final is BOB in 15 min (10 1/2")
30:ISI- Weak surface blow in 10 min, final stayed w eak surface blow
45:FF- Fair surface blow , built to 6 1/4" in 10 min, BOB in 19 min, final is 19 3/4"
60:FSI- Weak surface blow , built to 1/4" in 20 min, final died to w eak surface



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
177.00	SOMCW 70%W 25%M 5%O	0.87
252.00	SGOMCW 50%W 30%M 15%O 5%G	3.53
5.00	CO 100%O	0.07

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

20-5s-36w Rawlins,KS

Eicher #1-20

Job Ticket: 69740 **DST#: 1**

Test Start: 2023.01.16 @ 04:25:00

Tool Information

Drill Pipe:	Length:	4197.00 ft	Diameter:	3.80 inches	Volume:	58.87 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	177.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	Weight to Pull Loose:		62000.00 lb
					Total Volume:	59.74 bbl	Tool Chased		ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	58000.00 lb
Depth to Top Packer:		4395.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		35.00 ft							
Tool Length:		67.00 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			4368.00		
Hydraulic tool	5.00			4373.00		
Jars	5.00			4378.00		
EM Tool	4.00			4382.00		
Safety Joint	3.00			4385.00		
Packer	5.00			4390.00	32.00	Bottom Of Top Packer
Packer	5.00			4395.00		
Stubb	1.00			4396.00		
Recorder	0.00	8353	Outside	4396.00		
Recorder	0.00	8676	Inside	4396.00		
Perforations	31.00			4427.00		
Bullnose	3.00			4430.00	35.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Company Inc

111 W. 10th
Hays, KS 67601

ATTN: Marc Dow ning

20-5s-36w Rawlins,KS

Eicher #1-20

Job Ticket: 69740 **DST#: 1**

Test Start: 2023.01.16 @ 04:25:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	25.6 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	46000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	0.23 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	SOMCW 70%W 25%M 5%O	0.870
252.00	SGOMCW 50%W 30%M 15%O 5%G	3.535
5.00	CO 100%O	0.070

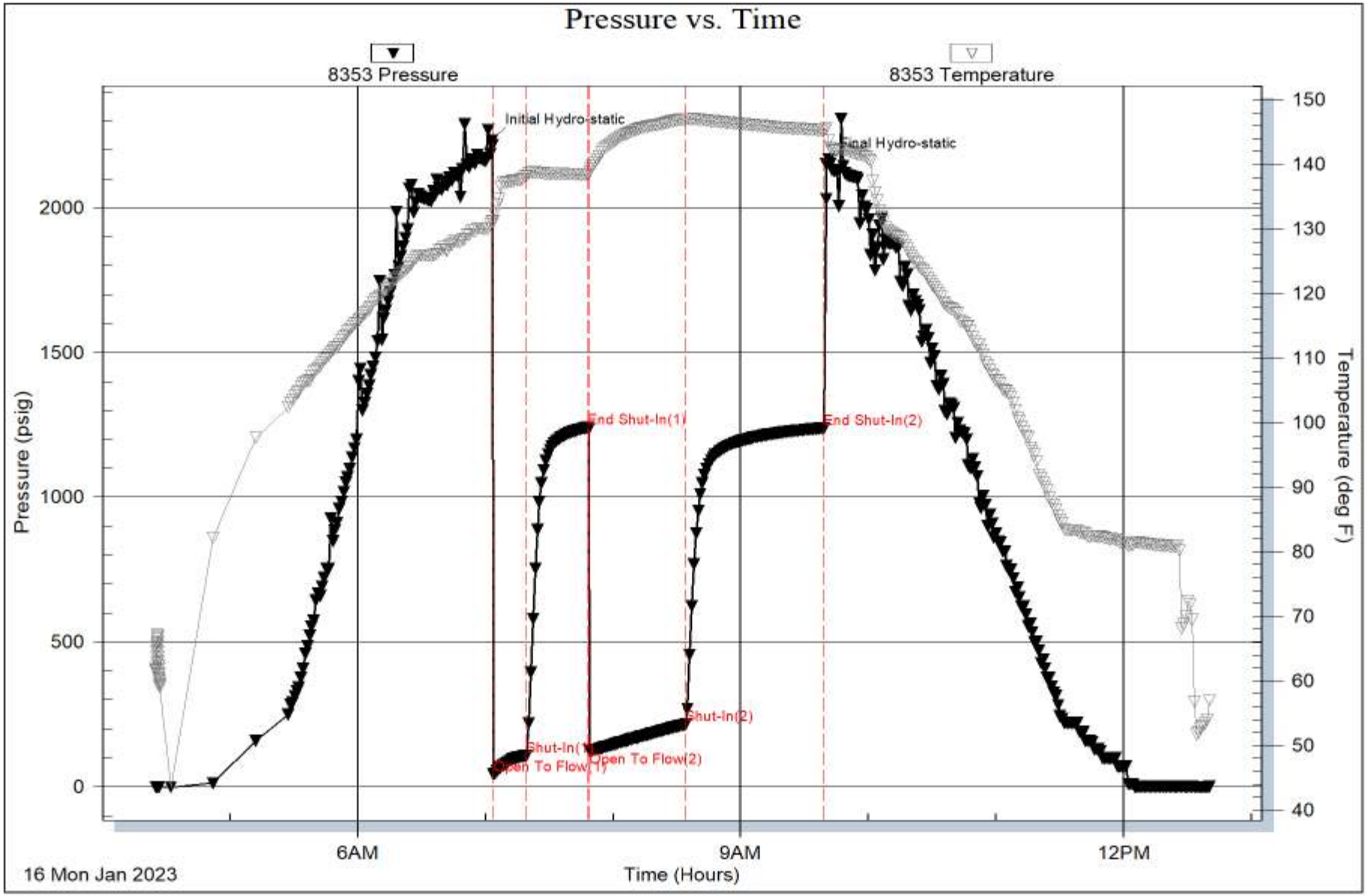
Total Length: 434.00 ft Total Volume: 4.475 bbl

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

Laboratory Name: Laboratory Location:

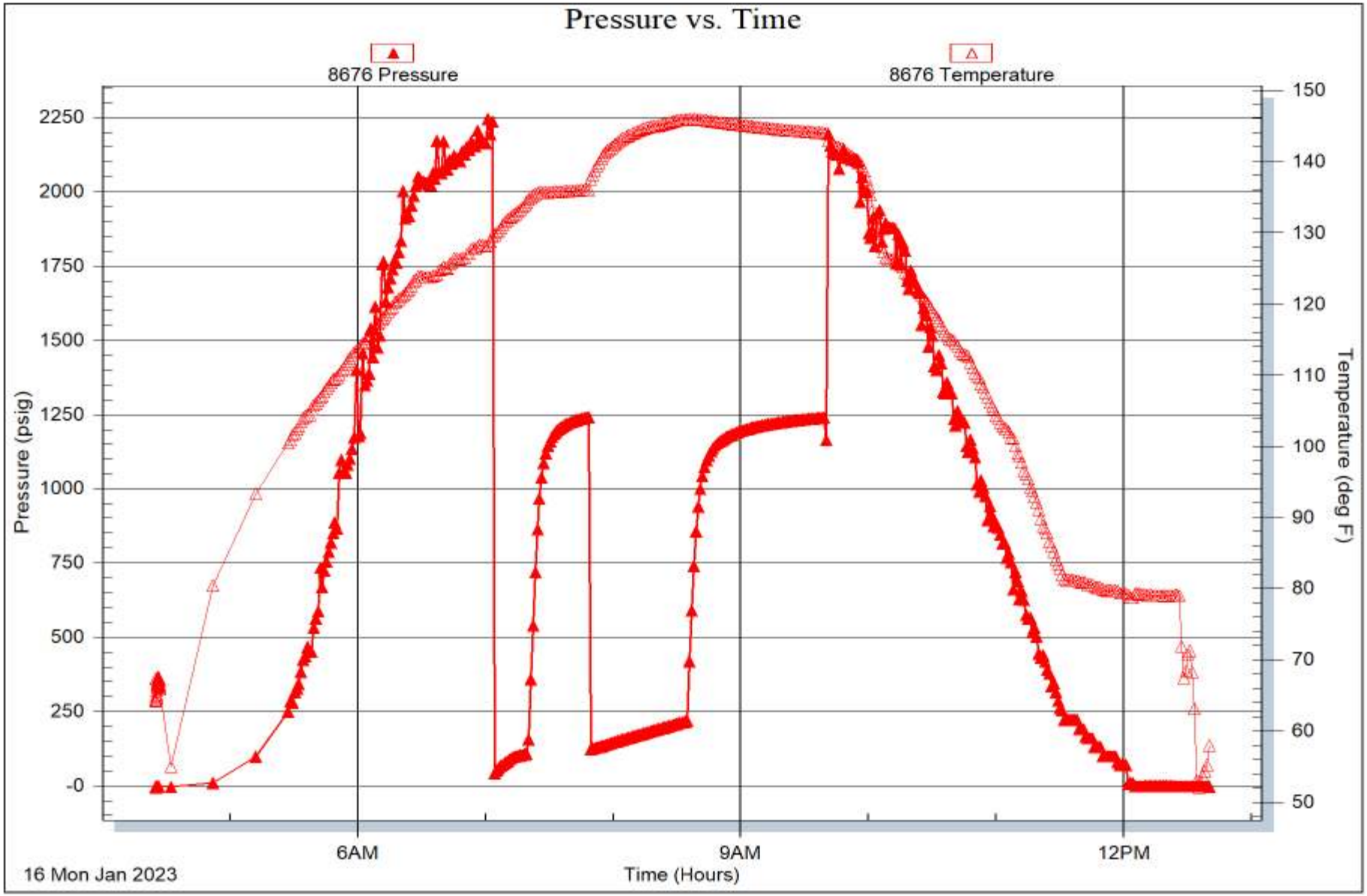
Recovery Comments: 25 Oil API @ 60 Deg API
.229@50 Degrees= 46,000 ppm

Serial #: 8353 **Outside** Dow ning-Nelson Oil Company Inc Eicher #1-20 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69740 Printed: 2023.01.19 @ 16:52:16

Serial #: 8676 **Inside** Dow ning-Nelson Oil Company Inc Eicher #1-20 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69740 Printed: 2023.01.19 @ 16:52:17

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69740

Well Name & No. Eicher #1-20 Test No. 1 Date 01/16/23

Company Downing-Nelson Oil Company Inc Elevation 3218 KB 3207 GL

Address 111 W. 10th Hays, KS 67601

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

Location: Sec. 20 Twp 5s Rge. 36W Co. Rawlins State KS

Interval Tested 4395-4430 Zone Tested Altamont B

Anchor Length 35' Drill Pipe Run 4197 Mud Wt. 9.4

Top Packer Depth 4390 Drill Collars Run 177 Vis 48

Bottom Packer Depth 4395 Wt. Pipe Run WL 9.6

Total Depth 4430 Chlorides 900 ppm System LCM 3#

Blow Description IF-Fair surface blow, built to 7½" in 10min, Final is BOB in 15 min
ISI-Weak surface blow in 10 min, Final stayed weak surface. (10½")
FF-Fair surface blow, built to 6¼" in 10 min, BOB in 19min, Final is 19¾"
FSI-Weak surface blow in 10min, built to ¼" in 20min, Final died to weak surface

Rec 177	Feet of SOMCW	%gas	%oil 5	%water 70	%mud 25
Rec 252	Feet of SGOMCW	%gas 5	%oil 15	%water 50	%mud 30
Rec 5'	Feet of CO	%gas	%oil 100	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 434' BHT 145° Gravity 25@60 API RW .229 @ 50 °F Chlorides 46,000 ppm

(A) Initial Hydrostatic 2233	☑ Test 1950	T-On Location 02:00	
(B) First Initial Flow 44	☑ Jars 300	T-Started 04:25	
(C) First Final Flow 103	☑ Safety Joint	T-Open 07:03	
(D) Initial Shut-In 1242	☐ Circ Sub	T-Pulled 09:40	
(E) Second Initial Flow 124	☐ Hourly Standby	T-Out 12:30	
(F) Second Final Flow 216	☑ Mileage 116 RT 203+203	Comments Picked up tools @ 03:53 on 01/18/23	
(G) Final Shut-In 1240	☐ Sampler		
(H) Final Hydrostatic 2150	☐ Straddle	☑ EM Tool -350	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 15	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies	
Final Flow ~~30~~ 45	☑ Day Standby 1d 15.5h	Sub Total 800 - 350	
Final Shut-In 60	☐ Accessibility	Total 2306	
	Sub Total 2656	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	**Eicher** No. **1-20**
API #	**15-153-21305-0000**
Field	**Wildcat**
Location	**1610' FNL & 1040' FEL**
Sec. **20**	Twp. **5s** Rge. **36w**
County **Rawlins**	State **Kansas**

Elevation
KB **3218**
DF **3216**
GL **3207**

Casing Record
Surface
8 5/8" @ 440'
Production
None

Electrical Surveys
CNDL, DIL
MEL, Sonic

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	2921	2916	+302	-2
Base Anhydrite	2960	2950	+268	+16
Foraker	3596	3593	-375	+5
Topeka	3889	3883	-665	+7
Heebner	4052	4049	-831	+9
LKC	4105	4101	-883	+9
Stark	4300	4295	-1077	+15
BKC	4359	4355	-1137	+11
Pawnee	4473	4470	-1252	+20
Cherokee Sh	4550	4548	-1330	+22
Mississippi	4737	4735	-1517	Not Reached
Total Depth	4794	4796	-1578	

Reference Well For Structural Comparison **Nielson Enterprises - McKee A-1**
C SE NW Sec. 21-5s-36w

Drilling Contractor	**Duke Drilling, Rig #5**		
Commenced **1-9-23**	Completed	**1-18-23**	
Samples Saved From	**3850**	To	**RTD**
Drilling Time Kept From	**3500**	To	**RTD**
Samples Examined From	**3850**	To	**RTD**
Geological Supervision From	**3850**	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