

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KRAMER-SCOTT UNIT 1-16
Doc ID	1574533

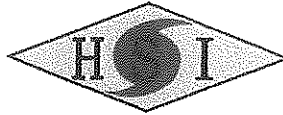
All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KRAMER-SCOTT UNIT 1-16
Doc ID	1574533

Tops

Name	Top	Datum
Top Anhydrite	3005'	+289
Base Anhydrite	3039'	+255
Foraker	3677'	-383
Topeka	3957'	-663
Heebner	4125'	-831
LKC	4175'	-881
Stark	4371'	-1077
BKC	4426'	-1132
Marmaton	4433'	-1139
Pawnee	4544'	-1250
Cherokee Shale	4622'	-1328
Morrow	4781'	-1487
Mississippi	4813'	-1519



CEMENT TREATMENT REPORT

Customer: Downing-Nelson Oil Co Inc	Well: Kramer Scott Unit #1-16	Ticket: WP 1357
City, State:	County: Rawlins KS	Date: 5/4/2021
Field Rep: Fennis Garduno	S-T-R: 4-5S-36W	Service: 8.625" Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	480 ft
Casing Size:	8 5/8 in
Casing Depth:	465.57 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	29.5 bbls

Calculated Slurry - Load	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	465.57 ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	85.4 bbls
Total Sacks:	340 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	BBLs	TOTAL BBLs	REMARKS
3:45 PM			-	-	Journey management meeting
4:00 PM				-	Convoy to location
5:30 PM				-	Arrive on location
5:35 PM				-	Safety meeting
5:50 PM				-	Spot in / rig up equipment
6:30 PM		200.0		-	Rig land casing & circulate
6:39 PM	4.5	150.0	5.0	5.0	Hook pump to casing, pump fresh water spacer ahead
6:43 PM	5.0	400.0	85.5	90.5	Mix 340 sx H-325 @ 14.8 ppg
7:00 PM				90.5	S/D drop wooden plug
7:02 PM	4.5	350.0		90.5	Start fresh water displacement
7:15 PM	4.5	160.0	29.5	120.0	End displacement, s/d shut in plug container with 150 psi on casing left 17' cement in casing
7:20 PM					Rig down
7:30 PM					Leave location
					Circulated 4 bbls cement to surface

CREW		UNIT	SUMMARY		
Cementer:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mike	230	4.6 bpm	252 psi	120 bbls
Bulk #1:	Kale	194			
Bulk #2:	Scotty	VAP			

CUSTOMER Downing-Nelson WELL NO. 1-16 LEASE Kramer-Scott JOB TYPE Long String TICKET NO. 35735

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1438							ON location
								5 1/2 x 14 # RTD - 4870 TOTAL Pipe - 4872.93 Cent - 1, 3, 5, 7, 9, 11, 13, 15 Basket - 14 SHORT JTS - 3, 6, 9
	1600							START CSG
	1745							Break Circ
		2	8			0		Plug Rat Hole - 30 sx
		2	4			0		Plug Mouse Hole - 15 sx
		3	12			300		pump MUD Flush
		5	20			500		pump KCL Spacer
		5	37			300		pump CMT - 155 sx
								Drop plug - Wash P&L
		7	0			300		START Disp
	1900	6.5	17.8			1000		Land Plug @ 1500 #
								Release psi - DM
								JOB complete
								Thanks David Zach & Ismael



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

16-5n-36w Rawlins KS

Kramer Scott Unit #1-16

Start Date: 2021.05.09 @ 16:47:00

End Date: 2021.05.10 @ 00:17:36

Job Ticket #: 66524 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.13 @ 14:09:36

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

16-5n-36w Rawlins KS

DST # 1

LKC "J"

2021.05.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Dow ning

Job Ticket: 66524

DST#: 1

Test Start: 2021.05.09 @ 16:47:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:49:36

Time Test Ended: 00:17:36

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4318.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 3294.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 105.73 psig @ 4319.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.09

End Date:

2021.05.10

Last Calib.:

2021.05.10

Start Time:

16:47:01

End Time:

00:17:36

Time On Btm:

2021.05.09 @ 18:49:21

Time Off Btm:

2021.05.09 @ 21:53:51

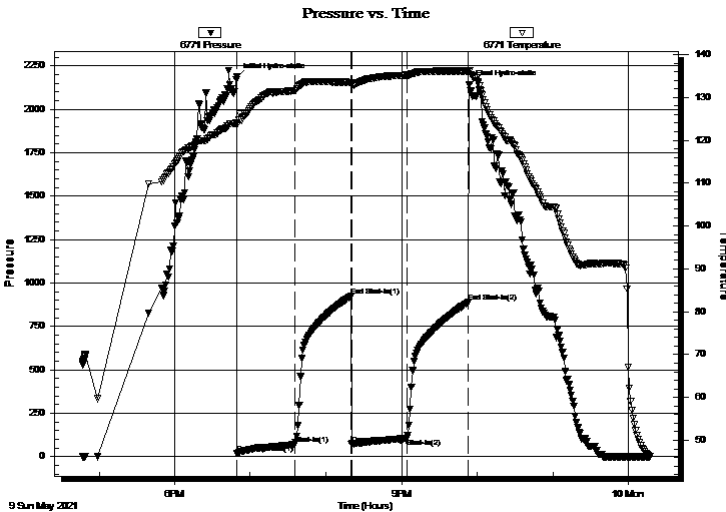
TEST COMMENT: 45 - IF: Blow built to BOB (11") at 21 1/2 min., built to 22 1/2"

45 - IS: No blow back

45 - FF: Blow built to BOB at 20 1/2 min., built to 21 1/2"

45 - FS: Blow back built to 1/4"+, slowly died back, dead at end of test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.12	124.05	Initial Hydro-static
1	20.92	123.61	Open To Flow (1)
46	69.12	131.61	Shut-In(1)
91	922.38	133.51	End Shut-In(1)
91	71.84	133.15	Open To Flow (2)
135	105.73	135.18	Shut-In(2)
184	888.16	136.16	End Shut-In(2)
185	2143.53	136.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	GMCO 43%o, 29%m, 28%g	2.03
85.00	CGO 93%o, 7%g	1.19
0.00	GIP = 460'	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 66524 **DST#: 1**

ATTN: Marc Dow ning

Test Start: 2021.05.09 @ 16:47:00

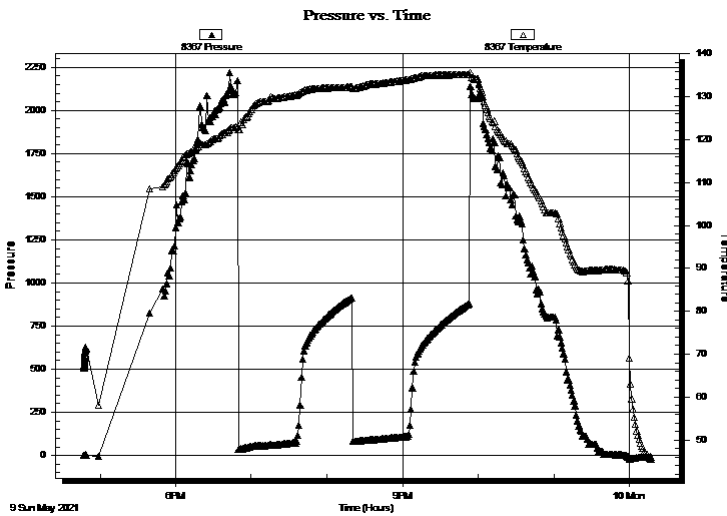
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:49:36 Tester: James Winder
 Time Test Ended: 00:17:36 Unit No: 73
 Interval: **4318.00 ft (KB) To 4370.00 ft (KB) (TVD)** Reference Elevations: 3294.00 ft (KB)
 Total Depth: 4370.00 ft (KB) (TVD) 3282.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4319.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.05.09 End Date: 2021.05.10 Last Calib.: 2021.05.10
 Start Time: 16:47:01 End Time: 00:17:06 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to BOB (11") at 21 1/2 min., built to 22 1/2"
 45 - IS: No blow back
 45 - FF: Blow built to BOB at 20 1/2 min., built to 21 1/2"
 45 - FS: Blow back built to 1/4"+, slowly died back, dead at end of test



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
145.00	GMCO 43%o, 29%m, 28%g	2.03
85.00	CGO 93%o, 7%g	1.19
0.00	GIP = 460'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 66524

DST#: 1

ATTN: Marc Dow ning

Test Start: 2021.05.09 @ 16:47:00

Tool Information

Drill Pipe:	Length: 4310.00 ft	Diameter: 3.80 inches	Volume: 60.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4318.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	52.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4290.00	
Shut In Tool	5.00			4295.00	
Hydraulic tool	5.00			4300.00	
Jars	5.00			4305.00	
Safety Joint	3.00			4308.00	
Packer	5.00			4313.00	29.00 Bottom Of Top Packer
Packer	5.00			4318.00	
Stubb	1.00			4319.00	
Recorder	0.00	6771	Inside	4319.00	
Recorder	0.00	8367	Outside	4319.00	
Perforations	14.00			4333.00	
Change Over Sub	1.00			4334.00	
Drill Pipe	32.00			4366.00	
Change Over Sub	1.00			4367.00	
Bullnose	3.00			4370.00	52.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 66524 **DST#: 1**

ATTN: Marc Downing

Test Start: 2021.05.09 @ 16:47:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28.8 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	GMCO 43%o, 29%m, 28%g	2.034
85.00	CGO 93%o, 7%g	1.192
0.00	GIP = 460'	0.000

Total Length: 230.00 ft Total Volume: 3.226 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 30 api @ 62 deg F Corrected Gravity = 28.8 api

Serial #: 6771

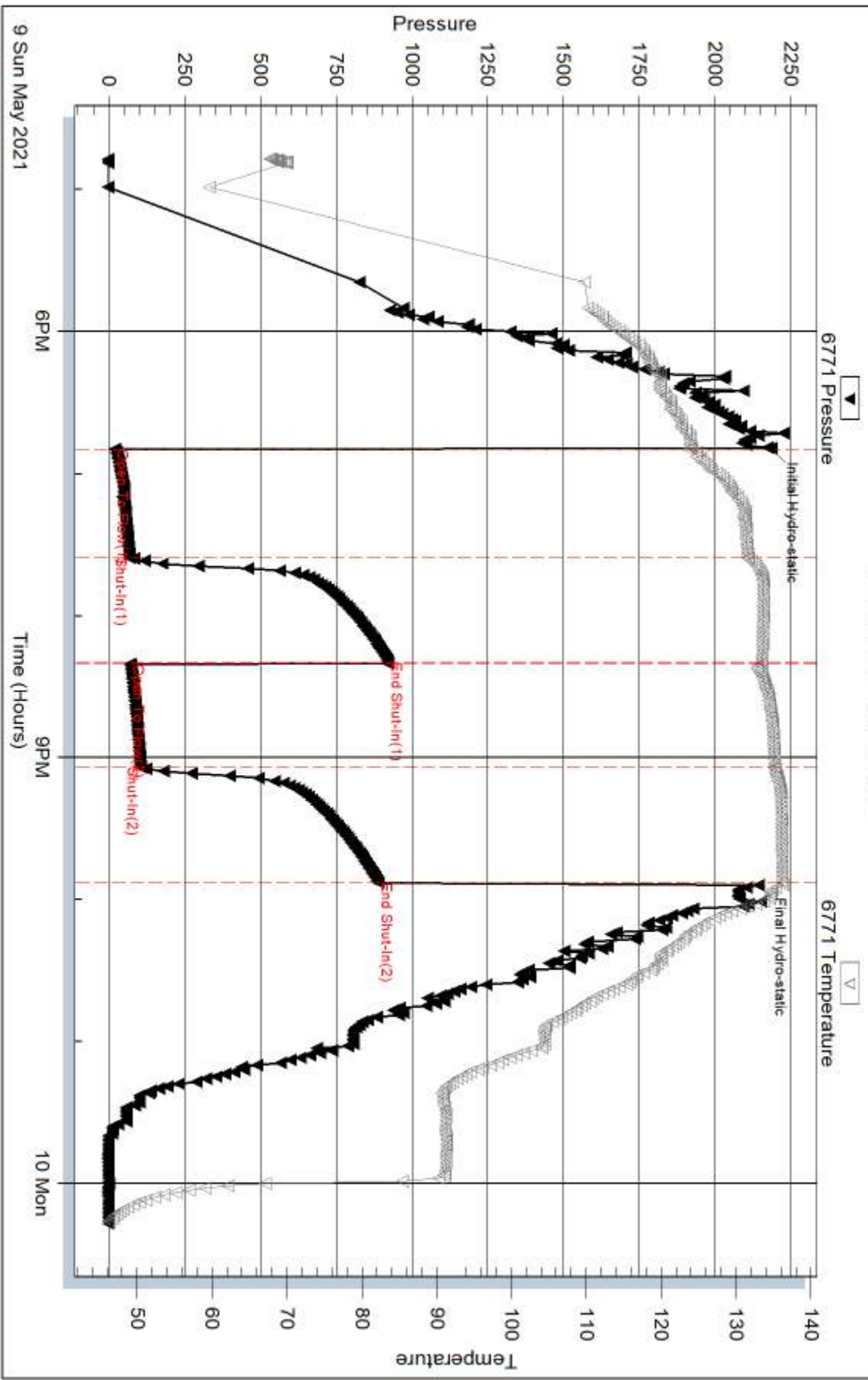
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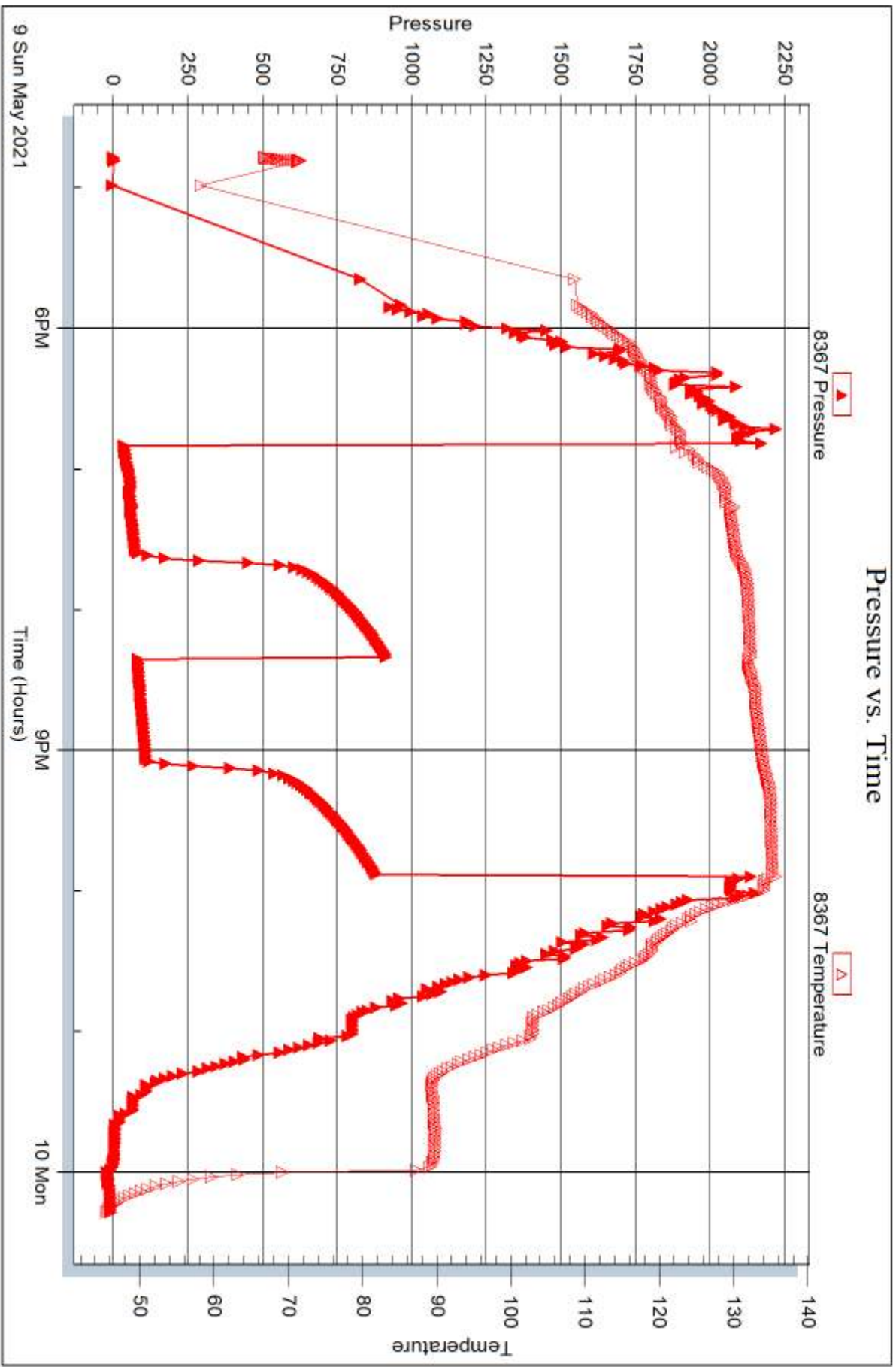
Downing Nelson Oil Co., Inc.

16-5n-36w Rawlins KS

DST Test Number: 1

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

16-5n-36w Rawlins KS

Kramer Scott Unit #1-16

Start Date: 2021.05.10 @ 22:20:00

End Date: 2021.05.11 @ 04:03:21

Job Ticket #: 66525 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.13 @ 14:09:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Downing

Job Ticket: 66525

DST#: 2

Test Start: 2021.05.10 @ 22:20:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:51

Time Test Ended: 04:03:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4524.00 ft (KB) To 4570.00 ft (KB) (TVD)

Reference Elevations: 3294.00 ft (KB)

Total Depth: 4570.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 17.77 psig @ 4525.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.10 End Date: 2021.05.11

Last Calib.: 2021.05.11

Start Time: 22:20:01 End Time: 04:03:21

Time On Btm: 2021.05.11 @ 00:15:36

Time Off Btm: 2021.05.11 @ 02:20:36

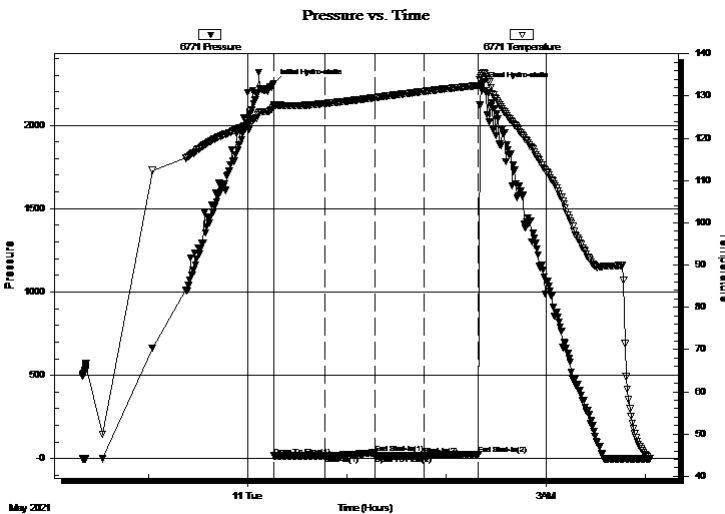
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", slowly died back to 1/4"

30 - IS: No blow

30 - FF: No blow

30 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.89	127.95	Initial Hydro-static
1	16.67	127.56	Open To Flow (1)
31	17.42	128.22	Shut-In(1)
61	34.60	129.60	End Shut-In(1)
62	17.17	129.61	Open To Flow (2)
91	17.77	131.08	Shut-In(2)
124	28.02	132.49	End Shut-In(2)
125	2230.69	134.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	VSOCM 98% m, 2% o	0.03

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

PO Box 1019
Hays, KS 67601

ATTN: Marc Dow ning

Kramer Scott Unit #1-16

16-5n-36w Rawlins KS

Job Ticket: 66525

DST#: 2

Test Start: 2021.05.10 @ 22:20:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:51

Time Test Ended: 04:03:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4524.00 ft (KB) To 4570.00 ft (KB) (TVD)

Total Depth: 4570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3294.00 ft (KB)

3282.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8367

Outside

Press@RunDepth: psig @ 4525.00 ft (KB)

Start Date: 2021.05.10

End Date:

2021.05.11

Start Time: 22:20:01

End Time:

04:02:51

Capacity: 8000.00 psig

Last Calib.: 2021.05.11

Time On Btm:

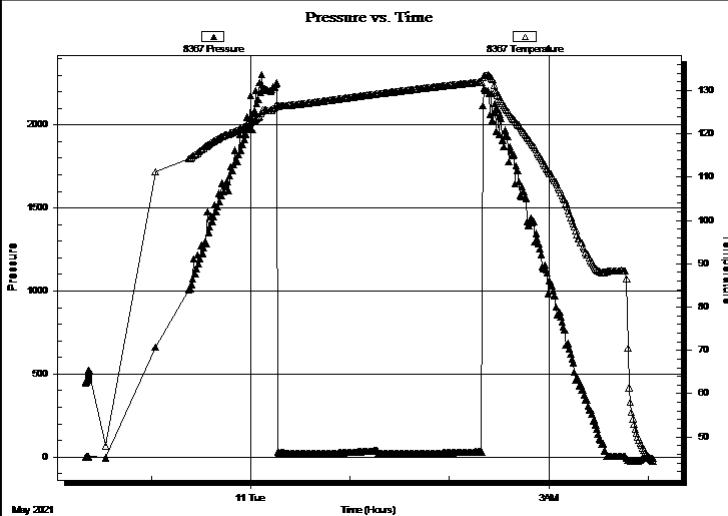
Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", slowly died back to 1/4"

30 - IS: No blow

30 - FF: No blow

30 - FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	VSOCM 98% m, 2% o	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 66525

DST#: 2

ATTN: Marc Dow ning

Test Start: 2021.05.10 @ 22:20:00

Tool Information

Drill Pipe:	Length: 4500.00 ft	Diameter: 3.80 inches	Volume: 63.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 63.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4524.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	46.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4496.00	
Shut In Tool	5.00			4501.00	
Hydraulic tool	5.00			4506.00	
Jars	5.00			4511.00	
Safety Joint	3.00			4514.00	
Packer	5.00			4519.00	29.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Stubb	1.00			4525.00	
Recorder	0.00	6771	Inside	4525.00	
Recorder	0.00	8367	Outside	4525.00	
Perforations	8.00			4533.00	
Change Over Sub	1.00			4534.00	
Drill Pipe	32.00			4566.00	
Change Over Sub	1.00			4567.00	
Bullnose	3.00			4570.00	46.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 66525 **DST#: 2**

ATTN: Marc Downing

Test Start: 2021.05.10 @ 22:20:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	VSOCM 98% m, 2% o	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6771

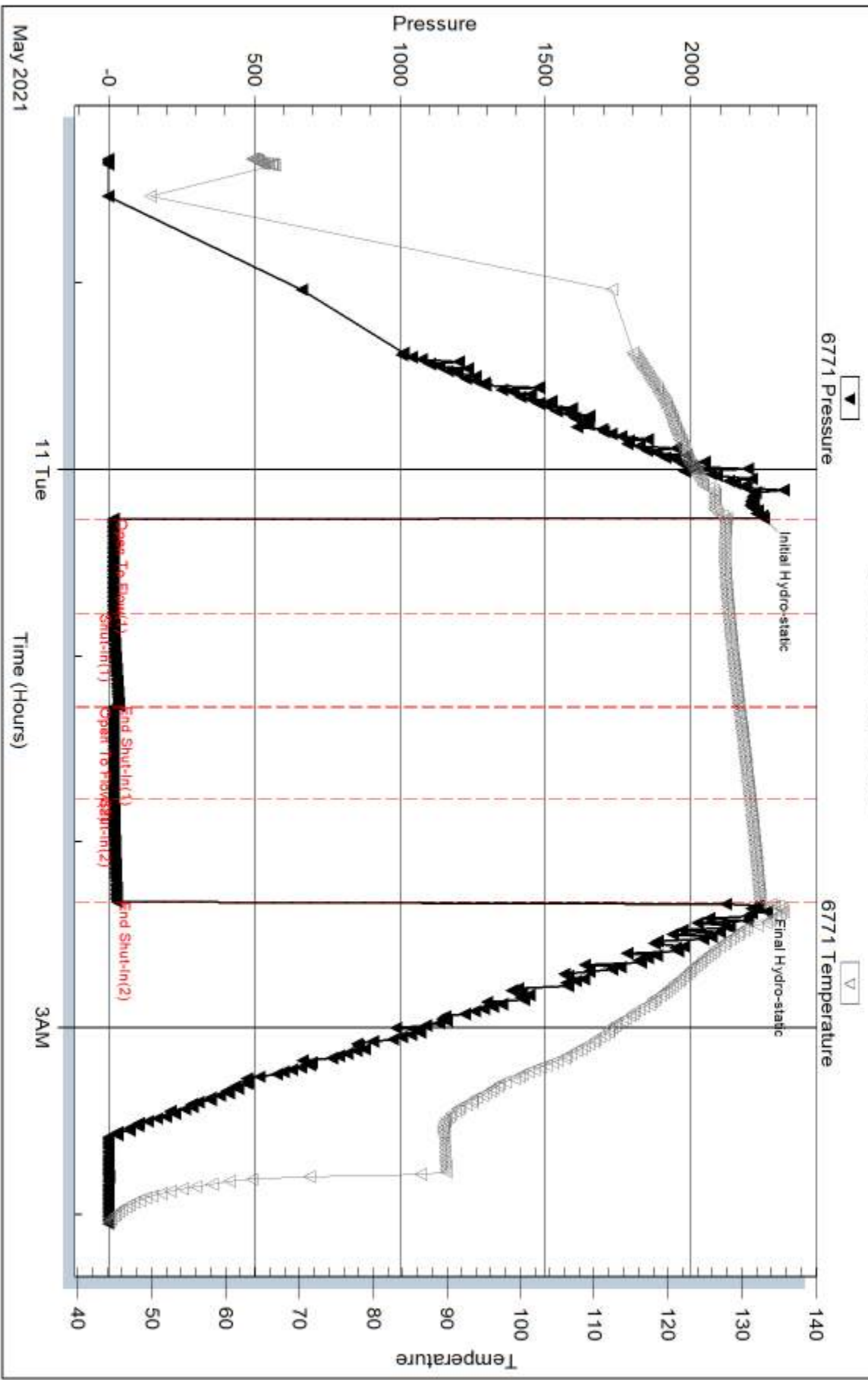
Inside

Downing Nelson Oil Co., Inc.

16-5n-36w Rawlins KS

DST Test Number: 2

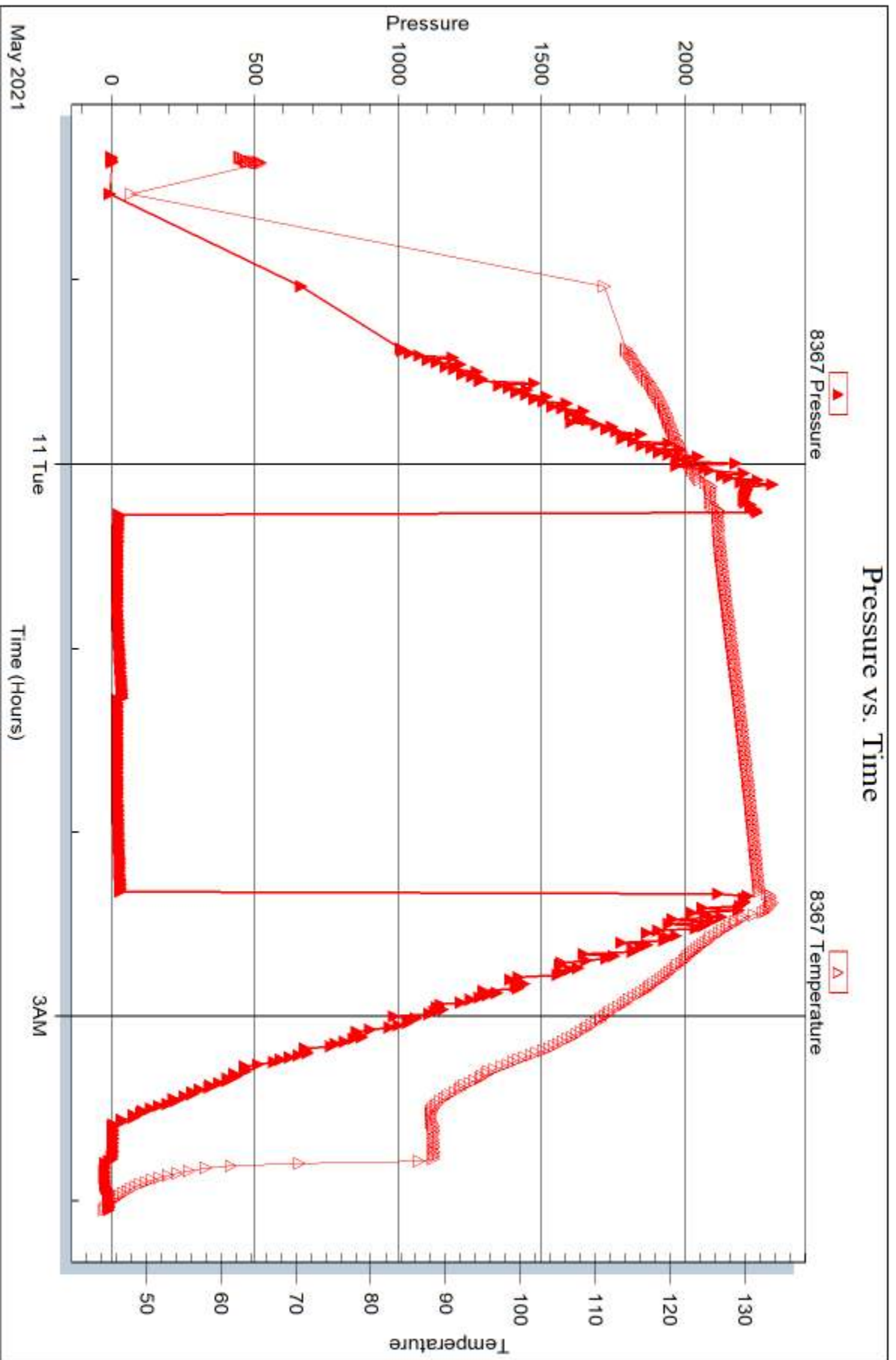
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 66525

Printed: 2021.05.13 @ 14:09:12





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

16-5n-36w Rawlins KS

Kramer Scott Unit #1-16

Start Date: 2021.05.11 @ 11:59:00

End Date: 2021.05.11 @ 17:50:36

Job Ticket #: 67001 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.13 @ 14:08:51



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Downing

Job Ticket: 67001

DST#: 3

Test Start: 2021.05.11 @ 11:59:00

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:06

Time Test Ended: 17:50:36

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4566.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3294.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 20.04 psig @ 4567.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.11 End Date: 2021.05.11

Last Calib.: 2021.05.11

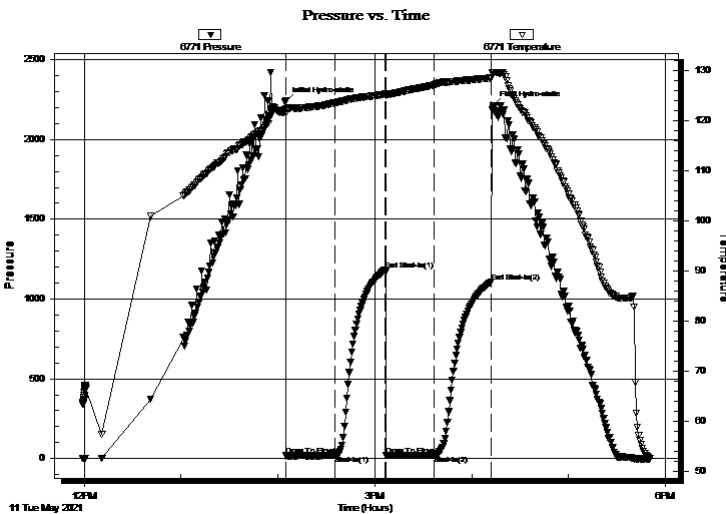
Start Time: 11:59:01 End Time: 17:50:36

Time On Btm: 2021.05.11 @ 14:04:51

Time Off Btm: 2021.05.11 @ 16:13:06

TEST COMMENT: 30 - IF: Blow built to 3/4"
30 - IS: No blow back
30 - FF: Weak surface blow at end of open
30 - FF: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.61	122.47	Initial Hydro-static
1	17.53	121.57	Open To Flow (1)
31	18.24	123.57	Shut-In(1)
62	1183.38	125.29	End Shut-In(1)
62	19.36	125.10	Open To Flow (2)
92	20.04	127.12	Shut-In(2)
127	1106.78	128.55	End Shut-In(2)
129	2208.84	129.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud w /trace oil	0.11

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Dow ning

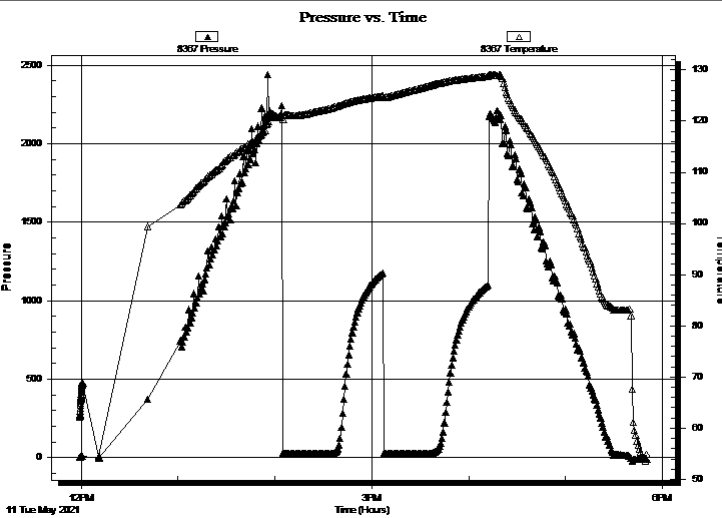
Job Ticket: 67001 **DST#: 3**
Test Start: 2021.05.11 @ 11:59:00

GENERAL INFORMATION:

Formation: Myrick Station			
Deviated: No Whipstock:		ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 14:05:06			Tester: James Winder
Time Test Ended: 17:50:36			Unit No: 73
Interval: 4566.00 ft (KB) To 4600.00 ft (KB) (TVD)			Reference Elevations: 3294.00 ft (KB)
Total Depth: 4600.00 ft (KB) (TVD)			3282.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 12.00 ft

Serial #: 8367	Outside		
Press@RunDepth:	psig @	4567.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.05.11	End Date:	2021.05.11	Last Calib.: 2021.05.11
Start Time: 11:59:01	End Time:	17:50:36	Time On Btm:
			Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 3/4"
30 - IS: No blow back
30 - FF: Weak surface blow at end of open
30 - FF: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud w /trace oil	0.11

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Downing

Job Ticket: 67001

DST#: 3

Test Start: 2021.05.11 @ 11:59:00

Tool Information

Drill Pipe:	Length: 4564.00 ft	Diameter: 3.80 inches	Volume: 64.02 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 64.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4566.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			4543.00	
Hydraulic tool	5.00			4548.00	
Jars	5.00			4553.00	
Safety Joint	3.00			4556.00	
Packer	5.00			4561.00	28.00 Bottom Of Top Packer
Packer	5.00			4566.00	
Stubb	1.00			4567.00	
Recorder	0.00	6771	Inside	4567.00	
Recorder	0.00	8367	Outside	4567.00	
Perforations	30.00			4597.00	
Bullnose	3.00			4600.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 67001 **DST#: 3**

ATTN: Marc Downing

Test Start: 2021.05.11 @ 11:59:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud w /trace oil	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6771

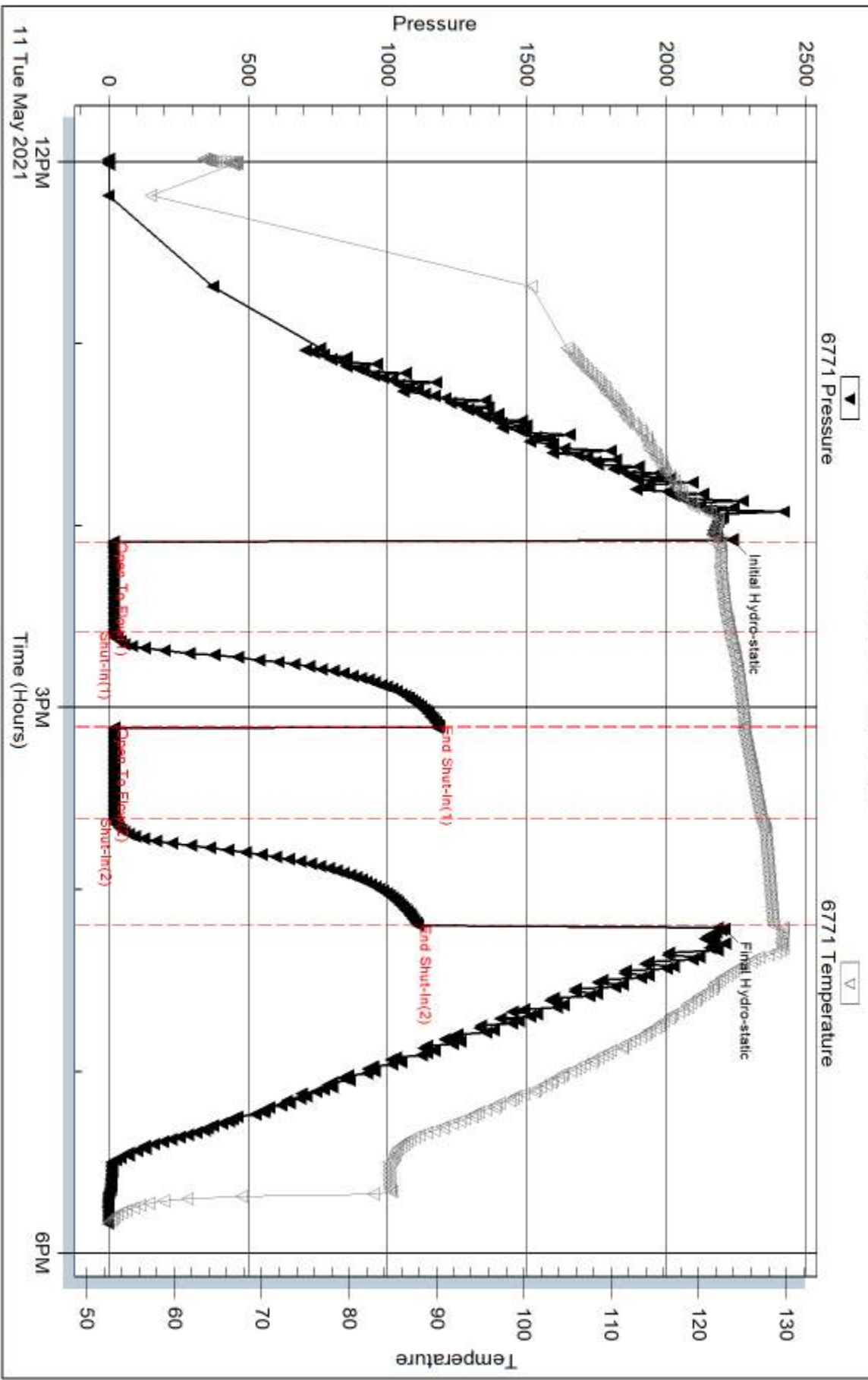
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Downing Nelson Oil Co., Inc.

16-5n-36w Rawlins KS

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67001

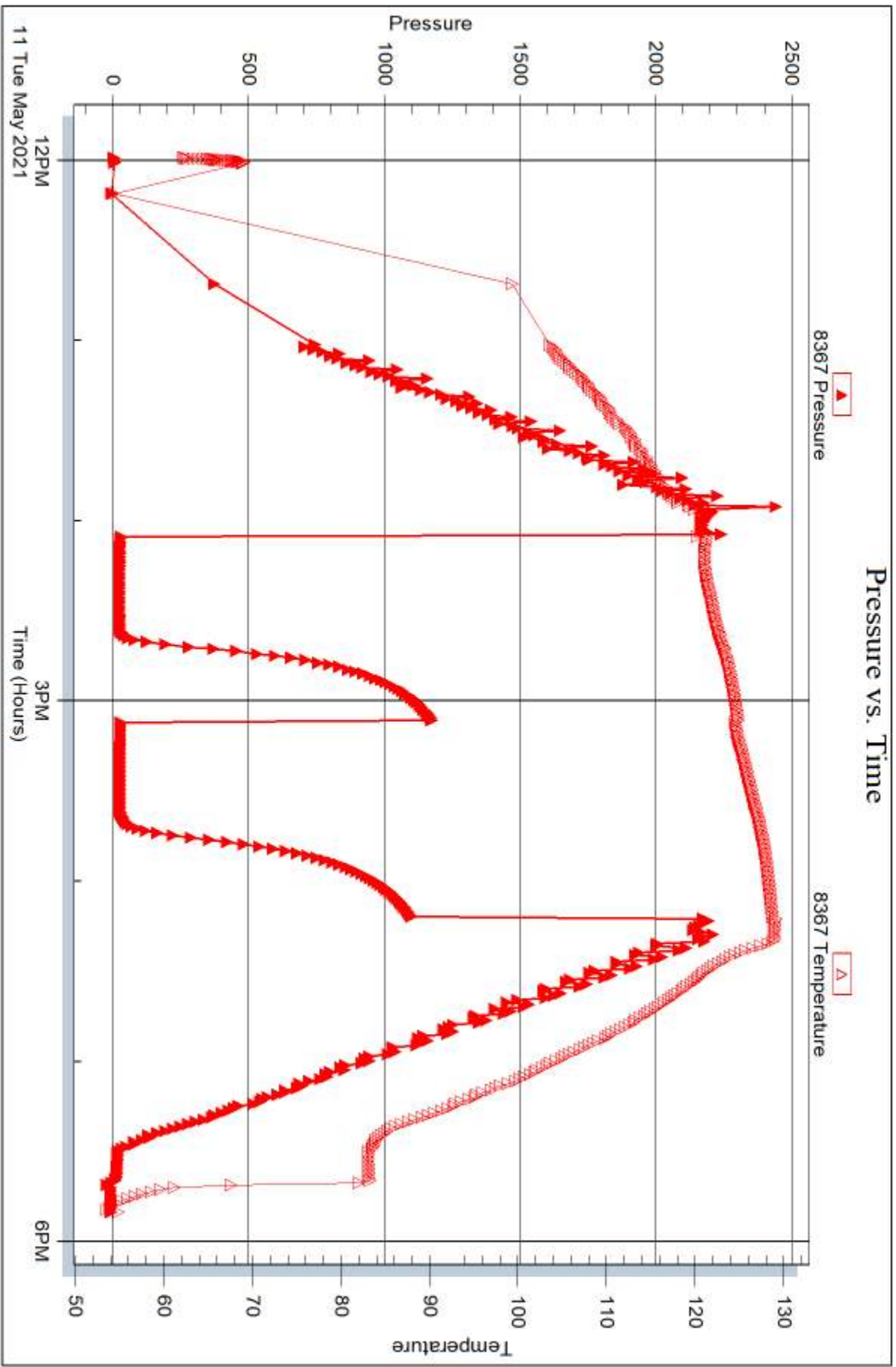
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Serial #: 8367

Outside Dow n ing Nelson Oil Co., Inc.

16-5n-36w Rawlins KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67001

Printed: 2021.05.13 @ 14:08:52



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

16-5n-36w Rawlins KS

Kramer Scott Unit #1-16

Start Date: 2021.05.12 @ 01:43:00

End Date: 2021.05.12 @ 09:51:36

Job Ticket #: 67002 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.13 @ 14:08:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Dow ning

Job Ticket: 67002

DST#: 4

Test Start: 2021.05.12 @ 01:43:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:33:36

Time Test Ended: 09:51:36

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4618.00 ft (KB) To 4640.00 ft (KB) (TVD)

Reference Elevations: 3294.00 ft (KB)

Total Depth: 4640.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 801.49 psig @ 4619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.12

End Date:

2021.05.12

Last Calib.:

2021.05.12

Start Time: 01:43:01

End Time:

09:51:36

Time On Btm:

2021.05.12 @ 03:33:06

Time Off Btm:

2021.05.12 @ 05:53:36

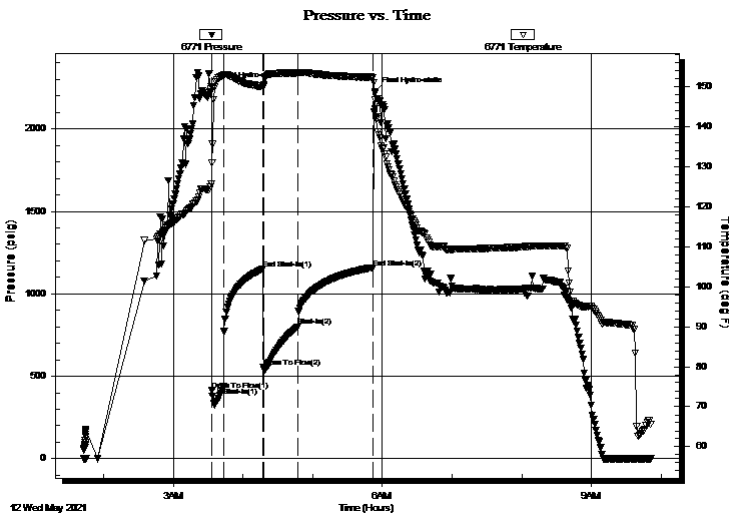
TEST COMMENT: 10 - IF: Blow built to BOB (11") at 30 sec., built to 136"

34 - IS: Blow back built to 10 1/2"

30 - FF: Blow built to BOB at 1 min., built to 141"

60 - FS: Blow back built to BOB at 58 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.32	125.74	Initial Hydro-static
1	413.80	130.98	Open To Flow (1)
10	436.47	152.76	Shut-In(1)
44	1150.40	150.08	End Shut-In(1)
45	554.04	149.91	Open To Flow (2)
74	801.49	153.34	Shut-In(2)
139	1159.50	152.21	End Shut-In(2)
141	2227.23	146.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM 42%g, 39%m, 19%o	1.75
1925.00	REV OUT CGO 74%o, 26%g	27.00
125.00	CGO 75%o, 25%g	1.75

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

ATTN: Marc Downing

Job Ticket: 67002

DST#: 4

Test Start: 2021.05.12 @ 01:43:00

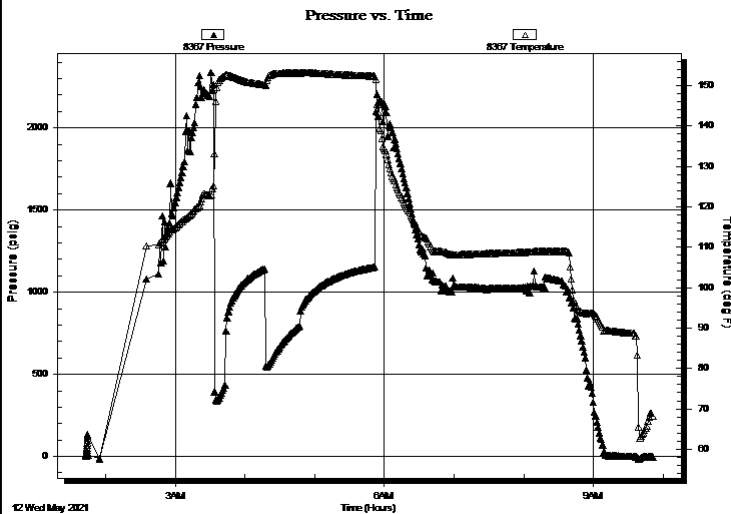
GENERAL INFORMATION:

Formation: **Cherokee Lime**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:33:36
 Time Test Ended: 09:51:36
 Interval: **4618.00 ft (KB) To 4640.00 ft (KB) (TVD)**
 Total Depth: 4640.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 73
 Reference Elevations: 3294.00 ft (KB)
 3282.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 4619.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.05.12 End Date: 2021.05.12 Last Calib.: 2021.05.12
 Start Time: 01:43:01 End Time: 09:51:06 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to BOB (11") at 30 sec., built to 136"
 34 - IS: Blow back built to 10 1/2"
 30 - FF: Blow built to BOB at 1 min., built to 141"
 60 - FS: Blow back built to BOB at 58 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM 42%g, 39%m, 19%o	1.75
1925.00	REV OUT CGO 74%o, 26%g	27.00
125.00	CGO 75%o, 25%g	1.75

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 67002

DST#: 4

ATTN: Marc Downing

Test Start: 2021.05.12 @ 01:43:00

Tool Information

Drill Pipe:	Length: 4595.00 ft	Diameter: 3.80 inches	Volume: 64.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 64.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4618.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4590.00	
Shut In Tool	5.00			4595.00	
Hydraulic tool	5.00			4600.00	
Jars	5.00			4605.00	
Safety Joint	3.00			4608.00	
Packer	5.00			4613.00	29.00 Bottom Of Top Packer
Packer	5.00			4618.00	
Stubb	1.00			4619.00	
Recorder	0.00	6771	Inside	4619.00	
Recorder	0.00	8367	Outside	4619.00	
Perforations	18.00			4637.00	
Bullnose	3.00			4640.00	22.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc.

Kramer Scott Unit #1-16

PO Box 1019
Hays, KS 67601

16-5n-36w Rawlins KS

Job Ticket: 67002 **DST#: 4**

ATTN: Marc Downing

Test Start: 2021.05.12 @ 01:43:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GOCM 42%g, 39%m, 19%o	1.753
1925.00	REV OUT CGO 74%o, 26%g	27.003
125.00	CGO 75%o, 25%g	1.753

Total Length: 2175.00 ft Total Volume: 30.509 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 27 api @ 60 deg F

Serial #: 6771

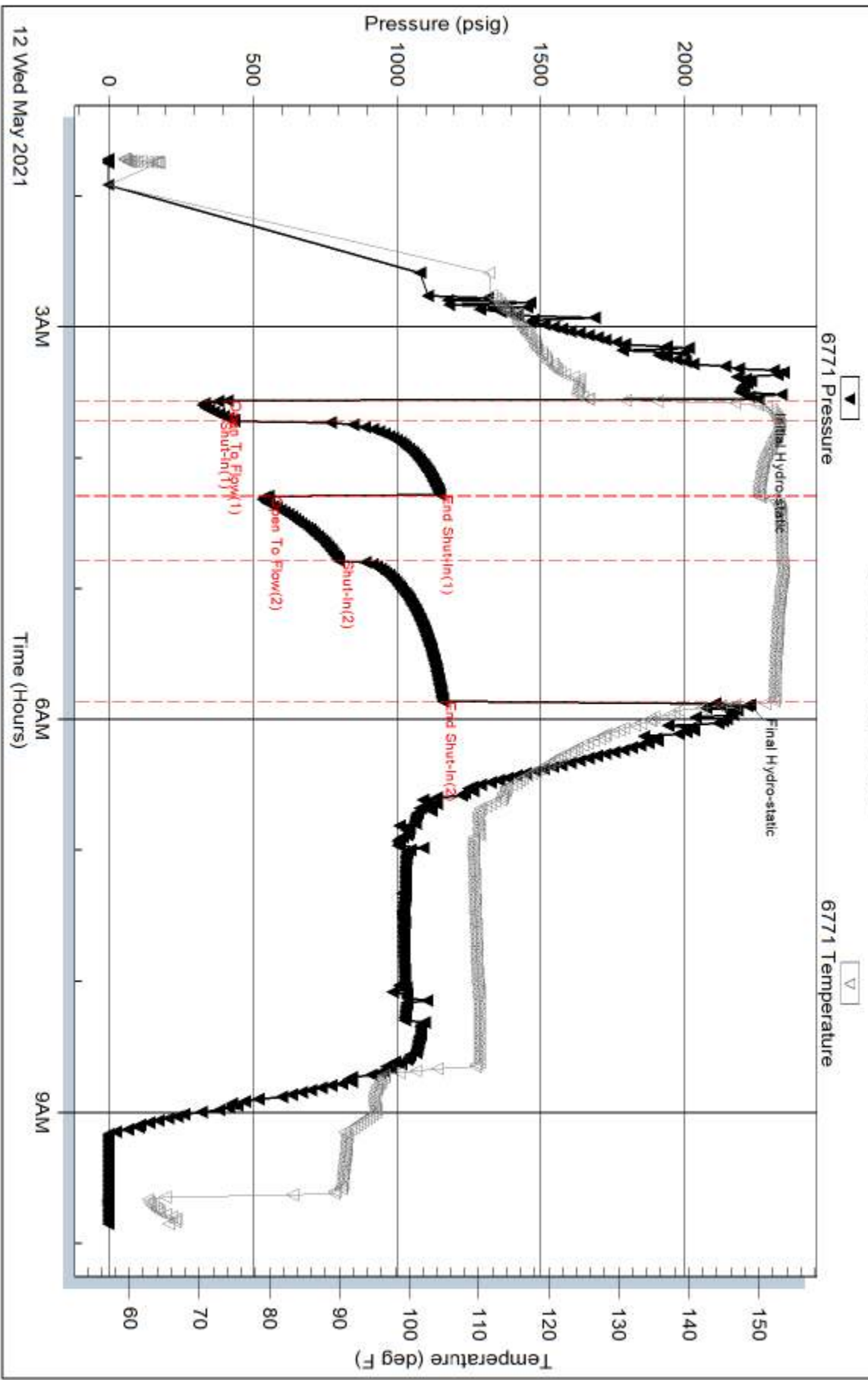
Inside

Downing Nelson Oil Co., Inc.

16-5n-36w Rawlins KS

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67002

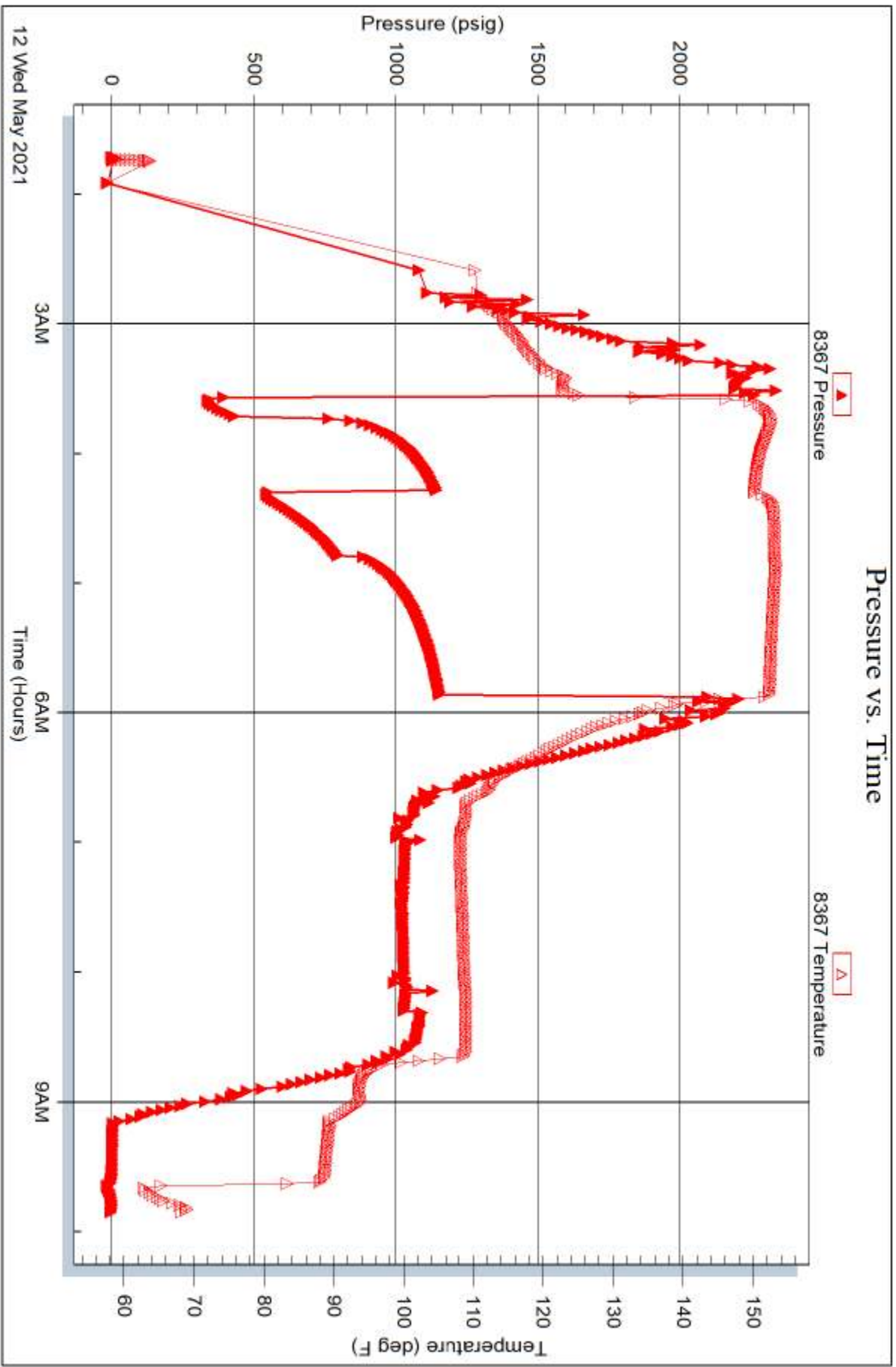
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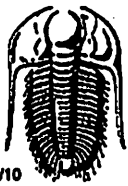
Serial #: 8367

Outside Dow nting Nelson Oil Co., Inc.

16-5r-36w Rawlins KS

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66524

NO.

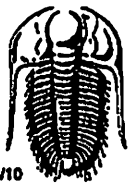
Well Name & No. Kramer Scott Unit #1-16 Test No. 1 Date 5-9-11
 Company Downing Nelson Oil Co. Inc Elevation 3294 KB 3282 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Duke #1
 Location: Sec. 16 Twp 5N Rge. 36W Co. Rawlins State KS

Interval Tested 4318-4370 Zone Tested LRC "J"
 Anchor Length 52 Drill Pipe Run 4310 Mud Wt. 9.3
 Top Packer Depth 4313 Drill Collars Run - Vls 59
 Bottom Packer Depth 4318 Wt. Pipe Run - WL 8.
 Total Depth 4370 Chlorides 800 ppm System LCM 3 1/2
 Blow Description IF: Blow built to BOB(11") at 21 1/2 min., built to 22 1/2"
ISI: No blowback
FF: Blow built to BOB at 20 1/2 min., built to 21 1/2"
FSI: Blowback built to 1/4", slowly died back, dead at end of test

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>CGO</u>	<u>7</u>	<u>93</u>		
<u>145</u>	<u>GMCO</u>	<u>28</u>	<u>43</u>		<u>29</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
	<u>GIP=460'</u>				

Rec Total 230 BHT 136 Gravity 28.8 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2185 Test 1300 T-On Location 14:30 5/9
 (B) First Initial Flow 21 Jars 250 T-Started 16:47
 (C) First Final Flow 69 Safety Joint 75 T-Open 18:49
 (D) Initial Shut-In 922 Circ Sub _____ T-Pulled 21:52
 (E) Second Initial Flow 72 Hourly Standby _____ T-Out 00:10 5/10
 (F) Second Final Flow 106 Mileage 116 RT 145 Comments _____
 (G) Final Shut-In 888 Sampler _____
 (H) Final Hydrostatic 2144 Straddle _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Sub Total 1770 Accessibility _____
 Sub Total 1770 EM Tool _____
 Total 1770 Ruined Shale Packer _____
 MP/DST Disc't _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1770

Approved By _____ Our Representative James Wisher
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66525

NO.

Well Name & No. Kramer Scott Unit #1-16 Test No. 2 Date 5-10-21
 Company Downing Nelson Oil Co. Inc. Elevation 3294 KB 3282 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Duke #1
 Location: Sec. 16 Twp 5N Rge. 36w Co. Rawlins State KS

Interval Tested 4524-4570 Zone Tested Pawnee
 Anchor Length 46 Drill Pipe Run 4500 Mud Wt. 9.3
 Top Packer Depth 4519 Drill Collars Run - Vis 55
 Bottom Packer Depth 4524 Wt. Pipe Run - WL 8
 Total Depth 4570 Chlorides 1000 ppm System LCM 2 1/2

Blow Description IF: 1/4" Blow at open, Built to 1/2", slowly died back to 1/4"
ISI: No blow
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>VSOCM</u>	<u>2</u>		<u>98</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 2 BHT 133 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2250 Test 1300 T-On Location 21:30 5/10
 (B) First Initial Flow 17 Jars 250 T-Started 22:20
 (C) First Final Flow 17 Safety Joint 75 T-Open 00:15
 (D) Initial Shut-In 35 Circ Sub _____ T-Pulled 2:19
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 4:00 5/11
 (F) Second Final Flow 18 Mileage 116 RT 145 Comments _____
 (G) Final Shut-In 28 Sampler _____
 (H) Final Hydrostatic 2231 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1770
 Total 1770
 MP/DST Disc't _____

Approved By _____ Our Representative Jerry Walker

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67001

Well Name & No. Kramer Scott Unit #1-16 Test No. 3 Date 5-11-21
 Company Downing Nelson Oil Co. Inc Elevation 3294 KB 3282 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Duke #1
 Location: Sec. 16 Twp 5N Rge. 36W Co. Rawlins State KS

Interval Tested 4566 - 4600 Zone Tested Myrick Station
 Anchor Length 34 Drill Pipe Run 4564 Mud Wt. 9.1
 Top Packer Depth 4561 Drill Collars Run - Vis 60
 Bottom Packer Depth 4566 Wt. Pipe Run - WL 8.8
 Total Depth 4600 Chlorides 1000 ppm System LCM 2

Blow Description IF: Blow built to 3/4"
ISI: No blowback
FF: Weak surface blow at end of open
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>Mud w/trace oil</u>	<u>trace</u>	<u></u>	<u>100</u>	<u></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 8 BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2240
- (B) First Initial Flow 18
- (C) First Final Flow 18
- (D) Initial Shut-In 1183
- (E) Second Initial Flow 19
- (F) Second Final Flow 20
- (G) Final Shut-In 1107
- (H) Final Hydrostatic 2209

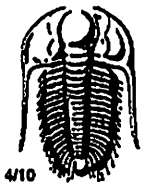
- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 116 RT 145
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1770

- T-On Location 11:30
- T-Started 11:59
- T-Open 14:05
- T-Pulled 16:11
- T-Out 17:50

- Comments _____
- EM Tool _____
 - Ruined Shale Packer _____
 - Ruined Packer _____
 - Extra Copies _____
 - Sub Total 0
 - Total 1770
 - MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative James Winter
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67002

Well Name & No. Kramer Scott Unit #1-16 Test No. 4 Date 5-12-21
 Company Downing Nelson Oil Co., Inc. Elevation 3294 KB 3282 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Duke #1
 Location: Sec. 16 Twp 5N Rge. 36W Co. Rawlins State KS

Interval Tested 4618 - 4640 Zone Tested Cherokee Lime
 Anchor Length 22 Drill Pipe Run 4595 Mud Wt. 9.1
 Top Packer Depth 4613 Drill Collars Run - Vis 60
 Bottom Packer Depth 4618 Wt. Pipe Run - WL 8.8
 Total Depth 4640 Chlorides 1000 ppm System LCM 2

Blow Description IF: Blow built to BOB (11") at 30sec., built to 136"
ISI: Blowback built to 10 1/2"
FF: Blow built to BOB at 1min, built to 141"
FST: Blowback built to BOB at 58 min.,

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>CGO</u>	<u>25</u>	<u>75</u>		
<u>1925</u>	<u>CGO (Rev Out)</u>	<u>26</u>	<u>74</u>		
<u>125</u>	<u>60cm</u>	<u>42</u>	<u>19</u>		<u>39</u>
	<u>GIP = 600'</u>				

Rec Total 2175 BHT 152 Gravity 27 API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2259
- (B) First Initial Flow 414
- (C) First Final Flow 436
- (D) Initial Shut-In 1150
- (E) Second Initial Flow 554
- (F) Second Final Flow 801
- (G) Final Shut-In 1160
- (H) Final Hydrostatic 2227

- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub drop Bar 50
- Hourly Standby _____
- Mileage 116 RT 145
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1820

- T-On Location 1:00
- T-Started 1:43
- T-Open 3:33
- T-Pulled 5:52
- T-Out 9:50

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1820
 MP/DST Disc't _____

Initial Open 10
 Initial Shut-In 34
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative James Winder

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Marc A. Downing
Geologic Report

Consulting Petroleum Geologist

Drilling Time and Sample Log

Duke Drilling, Rig #1

Commenced	5-4-21	Completed	5-13-21
Samples Saved From	3650	To	RTD
Drilling Time Kept From	3500	To	RTD
Samples Examined From	3650	To	RTD
Geological Supervision From	3650	To	RTD

Operator **Downing-Nelson Oil Co., Inc.**

Lease **Kramer-Scott Unit** No. **1-16**

API # **15-153-21258-0000**

Field **Wildcat**

Location **1640' FNL & 285' FWL**

Sec. **16** Twp. **5s** Rgc. **36w**

County **Rawlins** State **Kansas**

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	3009	3005	+289	-11
Base Anhydrite	3041	3039	+255	-7
Foraker	3679	3677	-383	NA
Topeka	3960	3957	-663	+9
Heebner	4126	4125	-831	+9
LKC	4176	4175	-881	+11
Stark	4373	4371	-1077	+15
BKC	4428	4426	-1132	+16
Marmaton	4446	4433	-1139	+17
Pawnee	4546	4544	-1250	+22
Cherokee Sh	4623	4622	-1328	+24
Morrow	4782	4781	-1487	Not Reached
Mississippi	4813	4813	-1519	Not Reached
Total Depth		4870	-1576	

Reference Well For Structural Comparison

C-SE-NW Sec. 21-5s-36w

Nielson Enterprises - McKee "A" #1

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing at this point.

Respectfully Submitted,

Marc A. Downing

Drilling Contractor **Duke Drilling, Rig #1**

Commenced **5-4-21** Completed **5-13-21**

Samples Saved From **3650** To **RTD**

Drilling Time Kept From **3500** To **RTD**

Samples Examined From **3650** To **RTD**

Geological Supervision From **3650** To **RTD**

Operator **Downing-Nelson Oil Co., Inc.**

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Topeka	3960	3957	-663	+9
Heebner	4126	4125	-831	+9
LKC	4176	4175	-881	+11
Stark	4373	4371	-1077	+15
BKC	4428	4426	-1132	+16
Marmaton	4446	4433	-1139	+17
Pawnee	4546	4544	-1250	+22
Cherokee Sh	4623	4622	-1328	+24
Morrow	4782	4781	-1487	Not Reached
Mississippi	4813	4813	-1519	Not Reached
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