

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](mailto: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	POORE 1-4
Doc ID	1572162

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	POORE 1-4
Doc ID	1572162

Tops

Name	Top	Datum
Top Anhydrite	3064'	+307
Base Anhydrite	3100'	+271
Foraker	3741'	-370
Topeka	4022'	-651
Heebner	4188'	-817
LKC	4234'	-863
Stark	4428'	-1057
BKC	4480'	-1109
Marmaton	4490'	-1119
Pawnee	4605'	-1234
Cherokee Shale	4680'	-1309
Morrow	4834'	-1463
Mississippi	4872'	-1501





CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Downing-Nelson		1-4		PORM		Long Spring		35724	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	300								DN LOCATION
									5 1/2 csg x 14 #
									RTO - 4911
									TOTAL pipe - 4899.3
									Shoe It - 42.20
									CENTRALIZERS - 1 3 4 5 7 9 11 13
									Basket - 14
	7:15								START Running Csg
	1000								Circ on Bottom
		2.5	8			0			plug rat hole - 30 sx
		2.5	4			0			plug mouse hole - 15 sx
		5	12			300			pump mud flush - 500 gal
		5	20			300			pump KCL spacer
		5	30			300			pump CMT - 130 sx EA-2 @ 15.5 PPK
	1100	7	0			200			Drop plug - WASH P&L
	1120	7	118			900			START Disp
									LAND plug @ 1500 psi
									Release psi - Dry
									JOB Complete
									Thanks
									David, Austin & Isaac



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Marc Downing

### **Poore #1-4**

#### **4-5s-36w Rawlins KS**

Start Date: 2021.04.27 @ 17:44:00

End Date: 2021.04.28 @ 01:40:06

Job Ticket #: 66517                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.04.29 @ 14:57:52



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66517

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2021.04.27 @ 17:44:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:48:36

Time Test Ended: 01:40:06

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

**Interval: 4580.00 ft (KB) To 4634.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4634.00 ft (KB) (TVD)

3358.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 6771 Inside**

Press@RunDepth: 61.83 psig @ 4581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.27

End Date:

2021.04.28

Last Calib.:

2021.04.28

Start Time: 17:44:01

End Time:

01:40:06

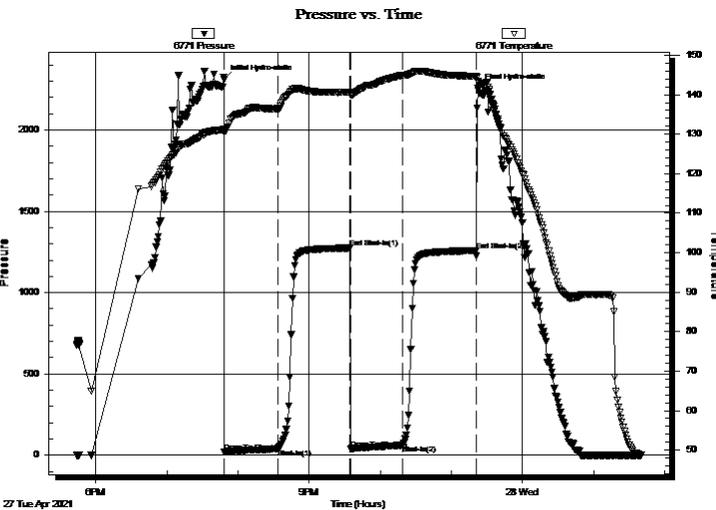
Time On Btm:

2021.04.27 @ 19:48:21

Time Off Btm:

2021.04.27 @ 23:22:21

**TEST COMMENT:** 45 - IF: Blow built to 9"  
60 - IS: No blow back  
45 - FF: Blow jumped to 2" at open, built to BOB (11") at 27 min., built to 16"  
60 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.05	131.19	Initial Hydro-static
1	20.81	130.63	Open To Flow (1)
46	38.76	136.47	Shut-In(1)
106	1274.40	140.59	End Shut-In(1)
107	38.47	139.91	Open To Flow (2)
151	61.83	144.96	Shut-In(2)
213	1258.41	144.69	End Shut-In(2)
214	2256.41	143.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMCO 63%o, 23%m, 14%g	0.88
62.00	SMCGO 56%o, 38%g, 6%m	0.87
0.00	GIP 315'	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.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66517

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2021.04.27 @ 17:44:00

## Tool Information

Drill Pipe:	Length: 4558.00 ft	Diameter: 3.80 inches	Volume: 63.94 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:	65000.00 lb
			<u>Total Volume: 63.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4580.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	54.00 ft				
Tool Length:	87.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4548.00	
Shut In Tool	5.00			4553.00	
Hydraulic tool	5.00			4558.00	
Jars	5.00			4563.00	
EM Tool	4.00			4567.00	
Safety Joint	3.00			4570.00	
Packer	5.00			4575.00	33.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	6771	Inside	4581.00	
Recorder	0.00	8367	Outside	4581.00	
Perforations	15.00			4596.00	
Change Over Sub	1.00			4597.00	
Drill Pipe	32.00			4629.00	
Change Over Sub	1.00			4630.00	
Perforations	1.00			4631.00	
Bullnose	3.00			4634.00	54.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co., Inc.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66517

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2021.04.27 @ 17:44:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25.6 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GMCO 63%o, 23%m, 14%g	0.884
62.00	SMCGO 56%o, 38%g, 6%m	0.870
0.00	GIP 315'	0.000

Total Length: 125.00 ft      Total Volume: 1.754 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

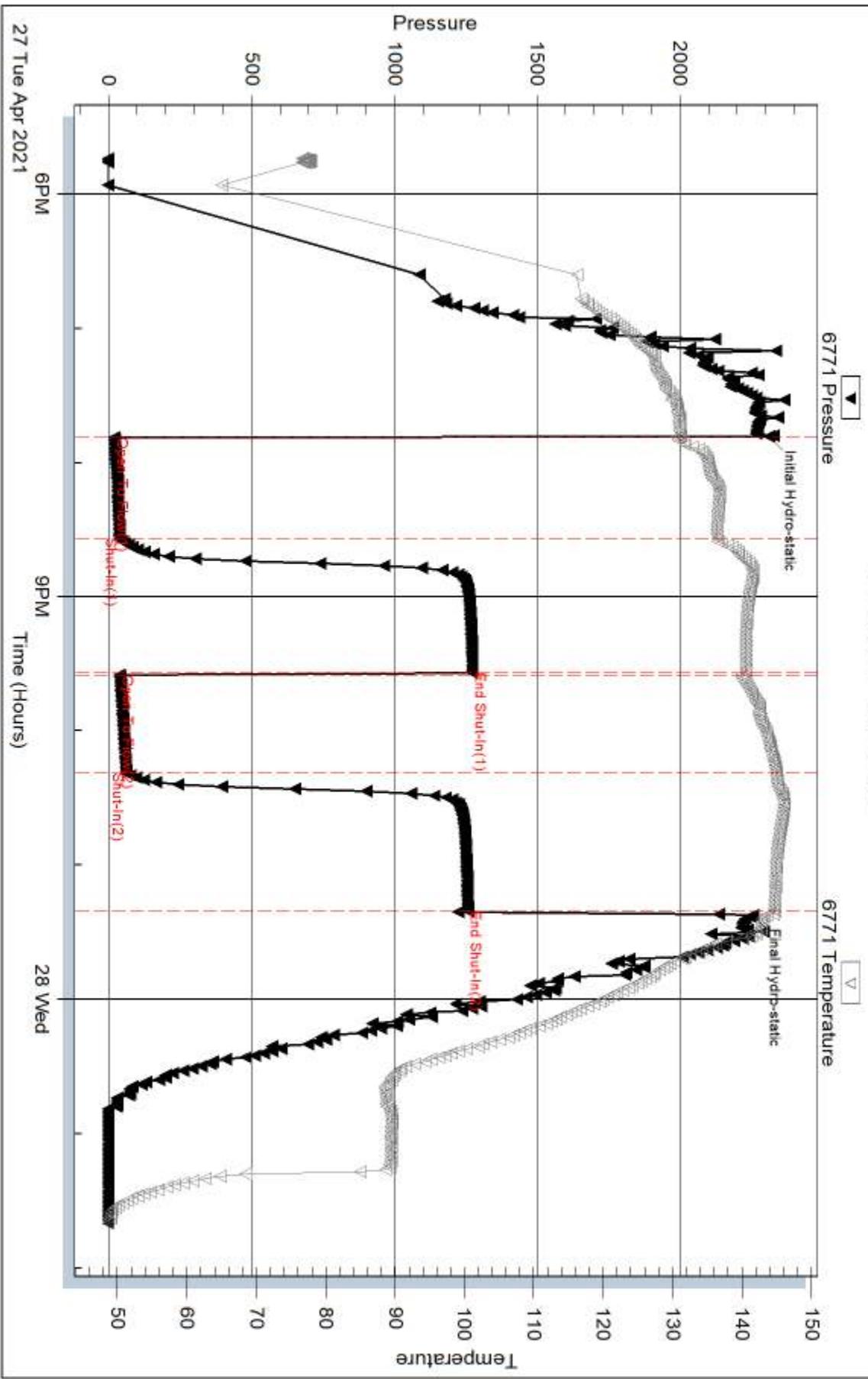
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 25.6 api @ 60 deg F

### Pressure vs. Time

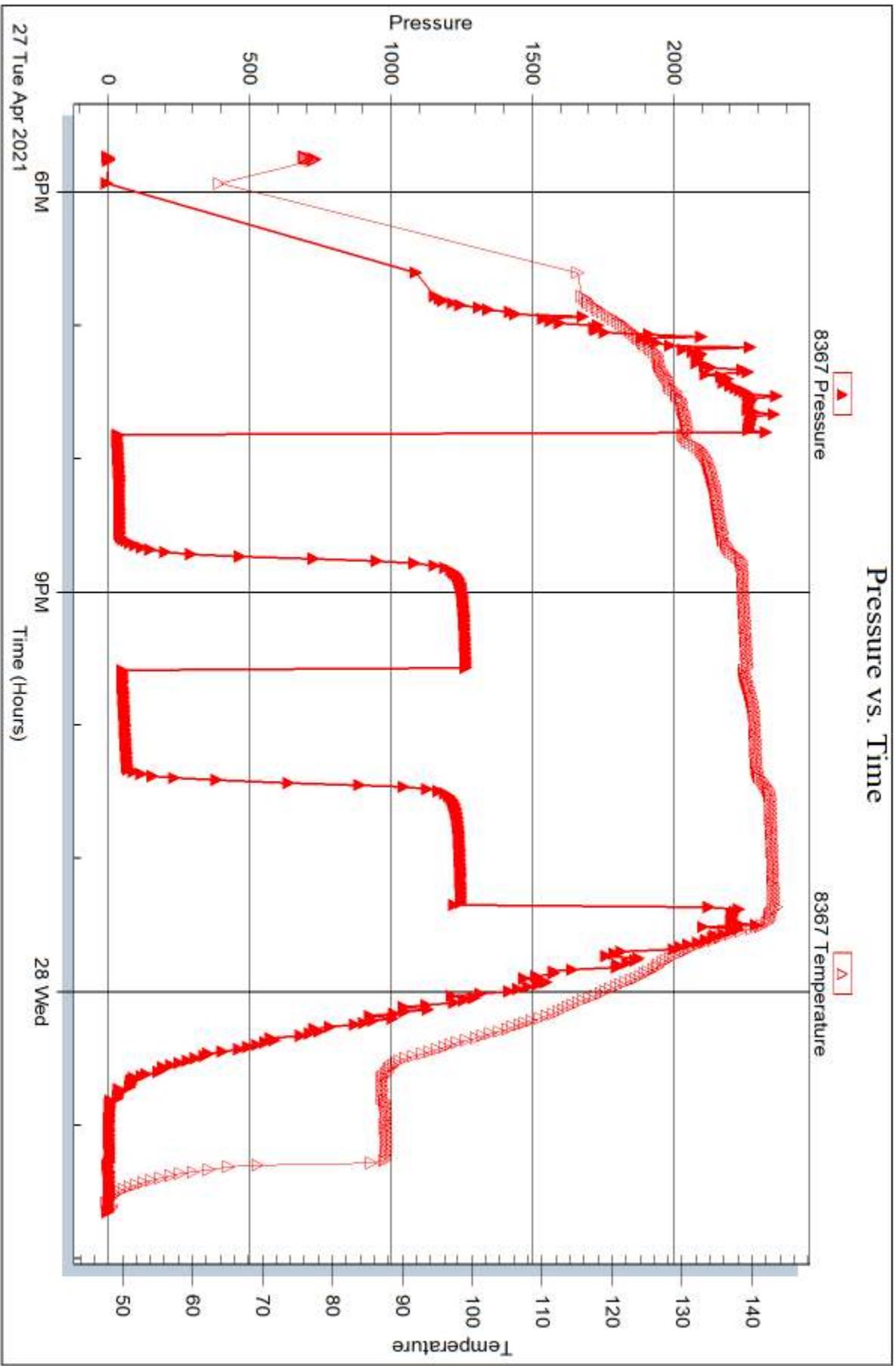


Serial #: 8367

Outside Dow nting-Nelson Oil Co., Inc.

Poore #1-4

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Marc Downing

### **Poore #1-4**

#### **4-5s-36w Rawlins KS**

Start Date: 2021.04.28 @ 12:40:00

End Date: 2021.04.28 @ 19:32:06

Job Ticket #: 66518                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.04.29 @ 14:57:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66518

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2021.04.28 @ 12:40:00

## GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:47:21

Time Test Ended: 19:32:06

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

**Interval: 4675.00 ft (KB) To 4700.00 ft (KB) (TVD)**

Reference Elevations: 3370.00 ft (KB)

Total Depth: 4700.00 ft (KB) (TVD)

3358.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 6771 Inside**

Press@RunDepth: 164.72 psig @ 4676.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.28 End Date: 2021.04.28

Last Calib.: 2021.04.28

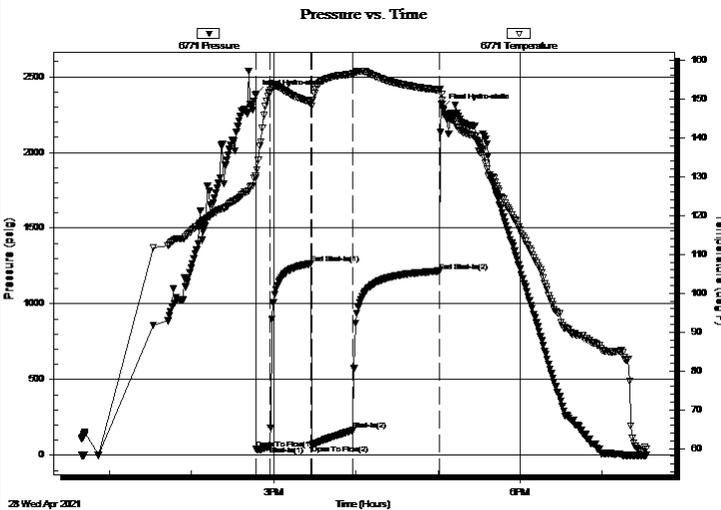
Start Time: 12:40:01 End Time: 19:32:06

Time On Btm: 2021.04.28 @ 14:47:06

Time Off Btm: 2021.04.28 @ 17:03:06

**TEST COMMENT:** 10 - IF: Blow built to BOB (11") at 3 min., built to 25"  
30 - IS: Blow back built to 3 1/2"  
30 - FF: Blow built to BOB at 5 min., built to 32 1/2"  
60 - FS: Blow back built to 5 1/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2387.19	130.23	Initial Hydro-static
1	40.40	129.66	Open To Flow (1)
10	60.37	151.62	Shut-In(1)
40	1265.26	149.25	End Shut-In(1)
41	68.43	148.13	Open To Flow (2)
71	164.72	156.47	Shut-In(2)
134	1216.34	152.33	End Shut-In(2)
136	2293.42	149.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 46% m, 29% o, 25% g	0.28
430.00	CGO 81% o, 19% g	6.03
0.00	GIP 810'	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co., Inc.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66518

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2021.04.28 @ 12:40:00

## Tool Information

Drill Pipe:	Length: 4652.00 ft	Diameter: 3.80 inches	Volume: 65.26 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: 58000.00 lb
			<u>Total Volume: 65.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4675.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	25.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4643.00	
Shut In Tool	5.00			4648.00	
Hydraulic tool	5.00			4653.00	
Jars	5.00			4658.00	
EM Tool	4.00			4662.00	
Safety Joint	3.00			4665.00	
Packer	5.00			4670.00	33.00 Bottom Of Top Packer
Packer	5.00			4675.00	
Stubb	1.00			4676.00	
Recorder	0.00	6771	Inside	4676.00	
Recorder	0.00	8367	Outside	4676.00	
Perforations	21.00			4697.00	
Bullnose	3.00			4700.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

**4-5s-36w Rawlins KS**

PO Box 1019  
Hays, KS 67601

**Poore #1-4**

Job Ticket: 66518

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2021.04.28 @ 12:40:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25.6 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

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 bbbl
20.00	GOCM 46%m, 29%o, 25%g	0.281
430.00	CGO 81%o, 19%g	6.032
0.00	GIP 810'	0.000

Total Length: 450.00 ft      Total Volume: 6.313 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 26 api @ 64 deg F Corrected Gravity = 25.6 api

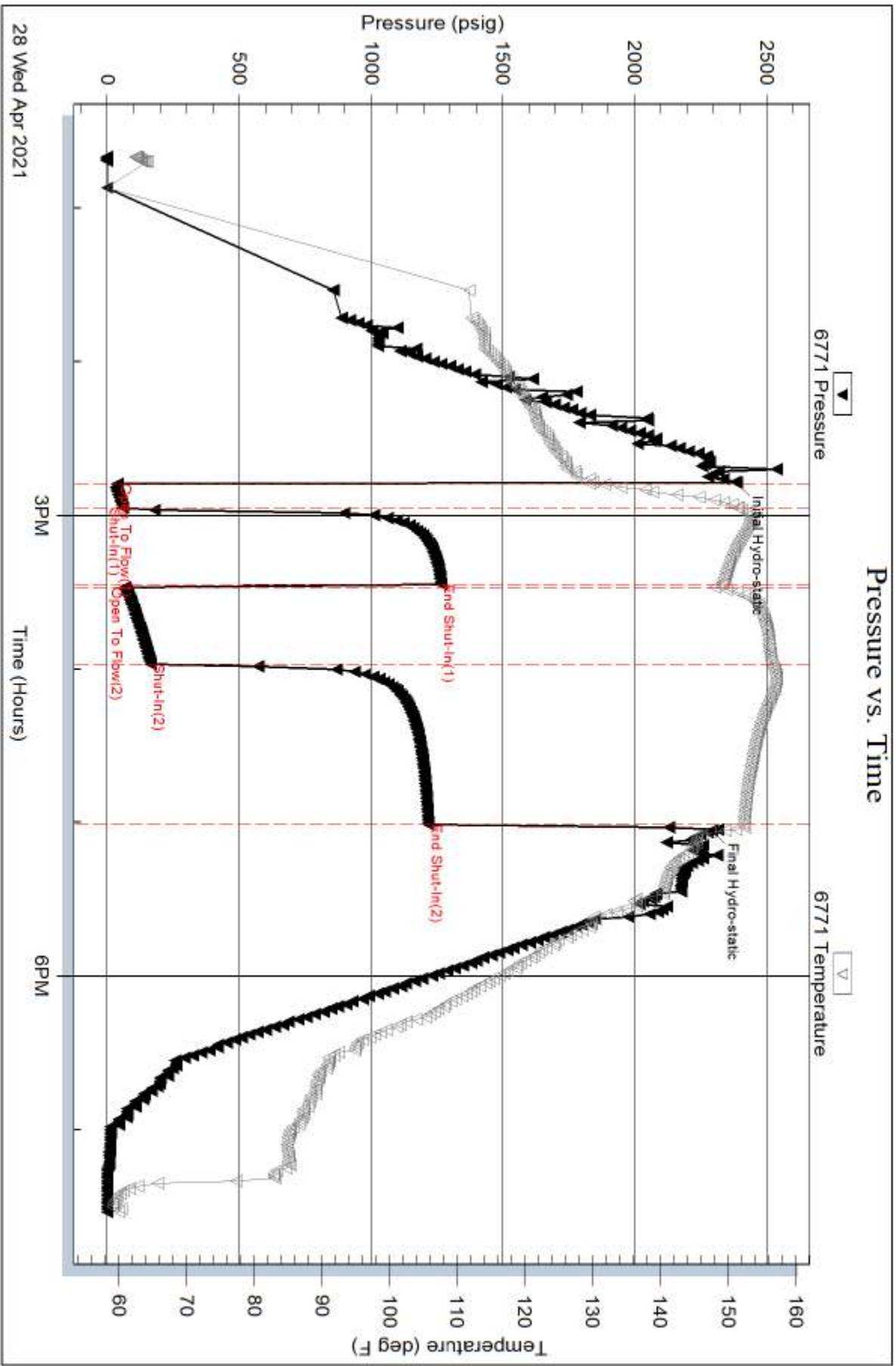
Serial #: 6771

Inside

Dow n/g-Nelson Oil Co., Inc.

Pore #1-4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66518

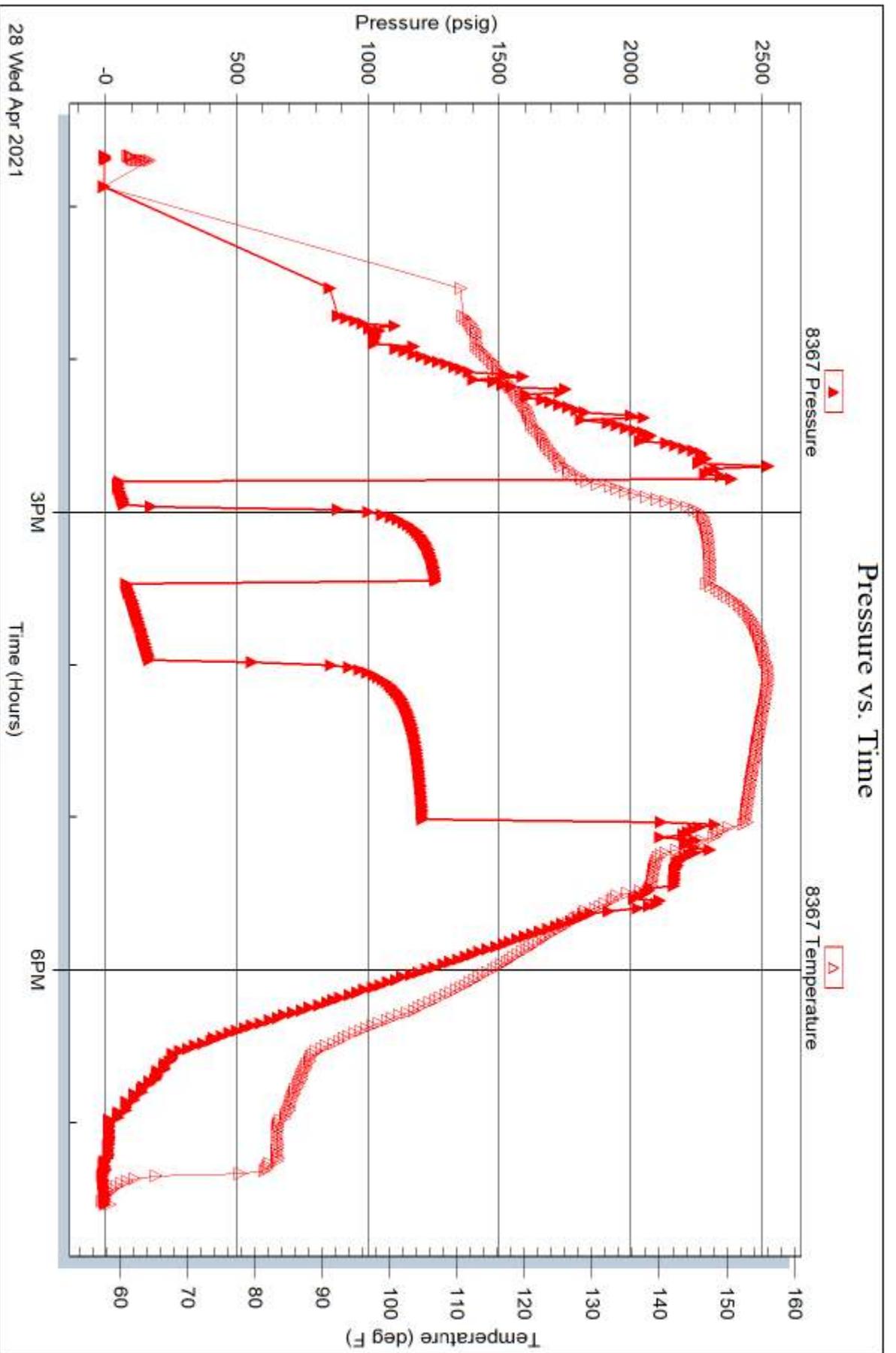
Printed: 2021.04.29 @ 14:57:20

Serial #: 8367

Outside Dow nting-Nelson Oil Co., Inc.

Pore #1-4

DST Test Number: 2

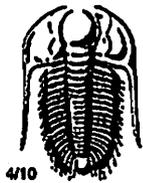


28 Wed Apr 2021

Trilobite Testing, Inc

Ref. No: 66518

Printed: 2021.04.29 @ 14:57:20



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 66517

NO.

Well Name & No. Poore #1-4 Test No. 1 Date 4-27-21  
 Company Downing-Nelson Oil Co Inc Elevation 3370 KB 3358 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. Marc Downing Rig Duke #1  
 Location: Sec. 4 Twp 5s Rge. 36w Co. Rawlins State KS

Interval Tested 4580 - 4634 Zone Tested Pawnee  
 Anchor Length 54 Drill Pipe Run 4558 Mud Wt. 9.5  
 Top Packer Depth 4575 Drill Collars Run - Vis 60  
 Bottom Packer Depth 4580 Wt. Pipe Run - WL 8  
 Total Depth 4634 Chlorides 1000 ppm System LCM 4

Blow Description IF: Blow built to 9"  
ISI: No blowback  
FF: Blow ~~built to 2"~~ jumped to 2" et open, built to BOB (11") at 27min  
FSI: No blowback Built to 16"

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>Smc60</u>	<u>38</u>	<u>56</u>	<u>6</u>	
<u>63</u>	<u>Gmco</u>	<u>14</u>	<u>63</u>	<u>23</u>	
	<u>GIP = 315</u>				

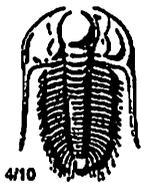
Rec Total 125 BHT 145 Gravity 25.6 API RW @ °F Chlorides ppm  
 (A) Initial Hydrostatic 2311  Test 1300  
 (B) First Initial Flow 21  Jars 250  
 (C) First Final Flow 39  Safety Joint 75  
 (D) Initial Shut-In 1274  Circ Sub  
 (E) Second Initial Flow 39  Hourly Standby  
 (F) Second Final Flow 62  Mileage 112 RT 140  
 (G) Final Shut-In 1258  Sampler  
 (H) Final Hydrostatic 2256  Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

T-On Location 15:45 4/27  
 T-Started 17:44  
 T-Open 19:48  
 T-Pulled 23:20  
 T-Out 1:35 4/28

Comments \_\_\_\_\_  
 EM Tool 350 NS  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1665  
 MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 48 60  
 Final Flow 45  
 Final Shut-In 48 60

Approved By \_\_\_\_\_ Our Representative James Winkler  
 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 66518

NO.

Well Name & No. Poore #1-4 Test No. 2 Date 4-28-21  
 Company Downing-Nelson Oil Co. Inc Elevation 3370 KB 3358 GL  
 Address PO Box 1019 Hays, KS 67601  
 Co. Rep / Geo. Marc Downing Rig Duke #1  
 Location: Sec. 4 Twp 5S Rge. 36W Co. Rawlins State KS

Interval Tested 4675-4700 Zone Tested Cherokee Lime  
 Anchor Length 25 Drill Pipe Run 4652 Mud Wt. 9.6  
 Top Packer Depth 4670 Drill Collars Run - Vis 63  
 Bottom Packer Depth 4675 Wt. Pipe Run - WL 8.8  
 Total Depth 4700 Chlorides 1000 ppm System LCM 4  
 Blow Description IF: Blow built to BOB(11") at 3min., built to 25"  
ISI: Blowback built to 3 1/2"  
FF: Blow built to BOB at 5min., built to 32 1/2"  
FSI: Blowback built to 5 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>430</u>	<u>C60</u>	<u>19</u>	<u>81</u>		
<u>20</u>	<u>GOCM</u>	<u>25</u>	<u>29</u>		<u>46</u>
	<u>GIP= 810'</u>				

Rec Total 450' BHT 152 Gravity 25.6 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2387</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>11:55</u>
(B) First Initial Flow <u>40</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:40</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:47</u>
(D) Initial Shut-In <u>1265</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:00</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:30</u>
(F) Second Final Flow <u>165</u>	<input checked="" type="checkbox"/> Mileage <u>112 RTx2</u> <u>280</u>	Comments <u>loaded tools 4/29 12:00</u>
(G) Final Shut-In <u>1216</u>	<input type="checkbox"/> Sampler	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
(H) Final Hydrostatic <u>2293</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1805</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1805</u>	

Approved By \_\_\_\_\_ Our Representative Jesse Winkler

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<b>Marc A. Downing</b>		<b>Geologic Report</b>	
<b>Consulting Petroleum Geologist</b>		<b>Drilling Time and Sample Log</b>	
<b>Operator</b> <b>Downing-Nelson Oil Co., Inc.</b>		<b>Elevation</b> KB 3371 DF 3369 GL 3359	
<b>Lease</b> <b>Poore</b>		<b>No. 1-4</b>	
<b>API #</b> 15-153-21257-0000		<b>Casing Record</b> Surface 8 5/8" @ 485'	
<b>Field</b> <b>Wildcat</b>		<b>Production</b> 5 1/2" @ 4910'	
<b>Location</b> <b>2190' FSL &amp; 1190' FEL</b>		<b>Electrical Surveys</b> CNDL, DIL MEL, Sonic	
<b>Sec.</b> 4	<b>Twp.</b> 5s	<b>Rge.</b> 36w	
<b>County</b> <b>Rawlins</b>		<b>State</b> <b>Kansas</b>	
<b>Formation</b>	<b>Sample tops</b>	<b>Log Tops</b>	<b>Datum</b> <b>Struct Comp</b>
Top Anhydrite	3065	3064	+307 +16
Base Anhydrite	3102	3100	+271 +16
Foraker	3742	3741	-370 +16
Topoka	4023	4022	-651 +16
Heebner	4190	4188	-817 +22
LKC	4234	4234	-863 +22
Stark	4430	4428	-1057 +23
BKC	4480	4480	-1109 +25
Marmaton	4491	4490	-1119 +22
Pawnee	4604	4605	-1234 +31
Cherokee Sh	4680	4680	-1309 +31
Morrow	4834	4834	-1463 Not Reached
Mississippi	4871	4872	-1501 Not Reached
Total Depth	4911	4913	-1542
Reference Well For Structural Comparison Poore #5-11 SW NE SW Sec. 4-5s-36w		Golden Eagle Drilling (Arrowhead Oil)	

**Drilling Contractor** **Duke Drilling, Rig #1**  
**Commenced** 4-21-21 **Completed** 4-29-21  
**Samples Saved From** 3800 To RTD  
**Drilling Time Kept From** 3600 To RTD  
**Samples Examined From** 3800 To RTD  
**Geological Supervision From** 3800 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.**

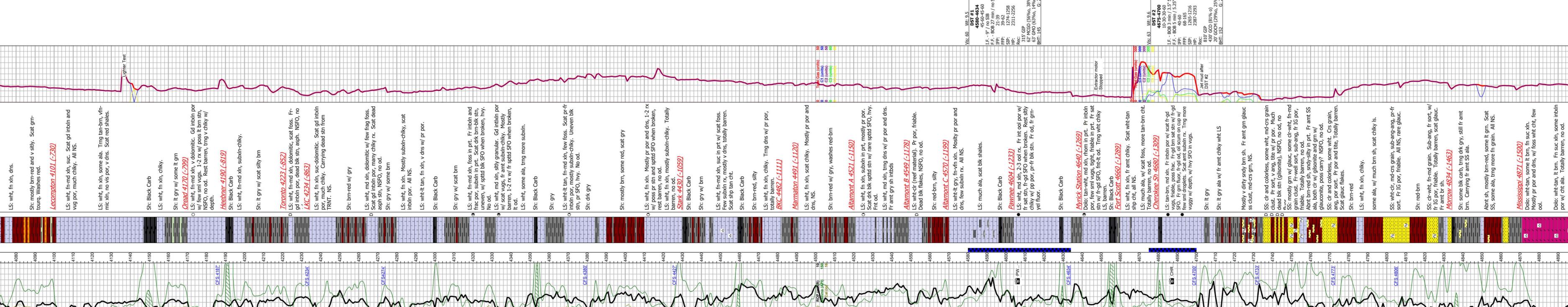
**Oil Shows**  
 Spotted Sh 50-75 %  
 Spotted Sh 25-50 %  
 Discontinuous Sh  
 Dead Oil Sh  
 Fluorescence

**STRINGER**  
 Sandstone  
 Calc shale

**ROCK TYPES**  
 shale, red  
 shale, gray  
 Carbon Sh

**ACCESSORIES**  
 Daily Report  
 Digital Photo  
 Document  
 Folder  
 Link  
 Vertical Log File  
 Horizontal Log File  
 Core Log File  
 Drill Cuttings Rpt.

**OTHER SYMBOLS**  
 DST  
 DST list  
 DST alt  
 Core  
 Core  
 Core



Respectfully Submitted,  
 Marc A. Downing

Printed by GEOHELP V6.5 (6/1/08) Version 6.0.8.15 (www.gre.com)  
 VES: 60 Wt: 9.5 DST #1 4590-4634  
 LF: -9' / no SIB 10-30-50-60  
 IFF: 21-39 12744-1258  
 SFP: 2311-2256  
 HP: Rec: 315 GP (56% 38%)  
 65 GMD (63% 18%)  
 BRT: 352 6.25.6