

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 A UNIT 1-17
Doc ID	1650276

Tops

Name	Top	Datum
Top Anhydrite	3057'	+296
Base Anhydrite	3093'	+260
Foraker	3732'	-379
Topeka	4012'	-659
Heebner	4178'	-825
LKC	4228'	-875
Stark	4424'	-1071
BKC	4483'	-1130
Marmaton	4492'	-1139
Pawnee	4600'	-1247
Cherokee Shale	4679'	-1326
Mississippi	4868'	-1515



DRILL STEM TEST REPORT

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

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Kramer A Unit #1-17

17-5S-36W Rawlins,KS

Start Date: 2022.05.15 @ 07:25:00

End Date: 2022.05.15 @ 15:48:30

Job Ticket #: 68761 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.20 @ 09:03:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2022.05.15 @ 07:25:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:45

Time Test Ended: 15:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: #71

Interval: 4381.00 ft (KB) To 4431.00 ft (KB) (TVD)

Reference Elevations: 3353.00 ft (KB)

Total Depth: 4431.00 ft (KB) (TVD)

3342.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8353

Inside

Press@RunDepth: 37.55 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.15 End Date: 2022.05.15

Last Calib.: 2022.05.15

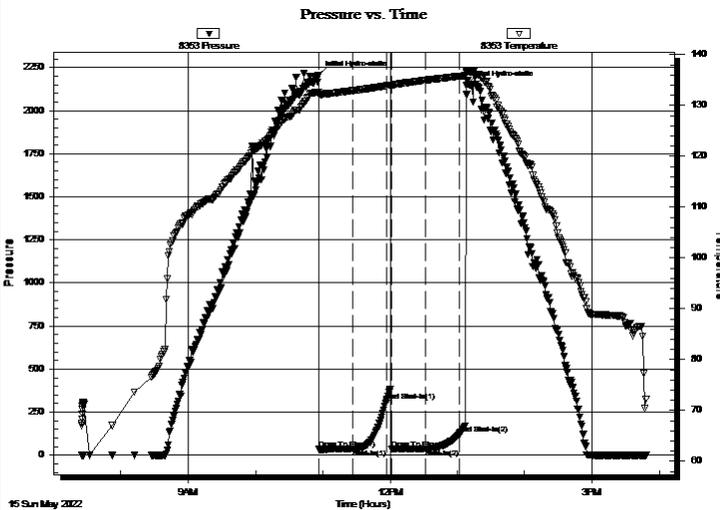
Start Time: 07:25:01 End Time: 15:48:30

Time On Btm: 2022.05.15 @ 10:56:00

Time Off Btm: 2022.05.15 @ 13:07:45

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch, final blow died out
30:IS- No blow back
30:FF- No blow
30:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.34	132.65	Initial Hydro-static
1	33.99	132.22	Open To Flow (1)
31	35.48	132.93	Shut-In(1)
61	314.06	133.91	End Shut-In(1)
66	36.55	133.99	Open To Flow (2)
96	37.55	135.00	Shut-In(2)
126	122.04	135.78	End Shut-In(2)
132	2146.16	136.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2022.05.15 @ 07:25:00

Tool Information

Drill Pipe:	Length: 4137.00 ft	Diameter: 3.80 inches	Volume: 58.03 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	64000.00 lb
Drill Pipe Above KB:	23.00 ft			Final	64000.00 lb
Depth to Top Packer:	4381.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	50.00 ft				
Tool Length:	82.00 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
Shut In Tool	5.00			4354.00	
Hydraulic tool	5.00			4359.00	
Jars	5.00			4364.00	
EM Tool	4.00			4368.00	
Safety Joint	3.00			4371.00	
Packer	5.00			4376.00	32.00 Bottom Of Top Packer
Packer	5.00			4381.00	
Stubb	1.00			4382.00	
Recorder	0.00	8353	Inside	4382.00	
Recorder	0.00	8676	Outside	4382.00	
Change Over Sub	1.00			4383.00	
Blank Spacing	31.00			4414.00	
Change Over Sub	1.00			4415.00	
Blank Spacing	13.00			4428.00	
Bullnose	3.00			4431.00	50.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2022.05.15 @ 07:25:00

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: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8353

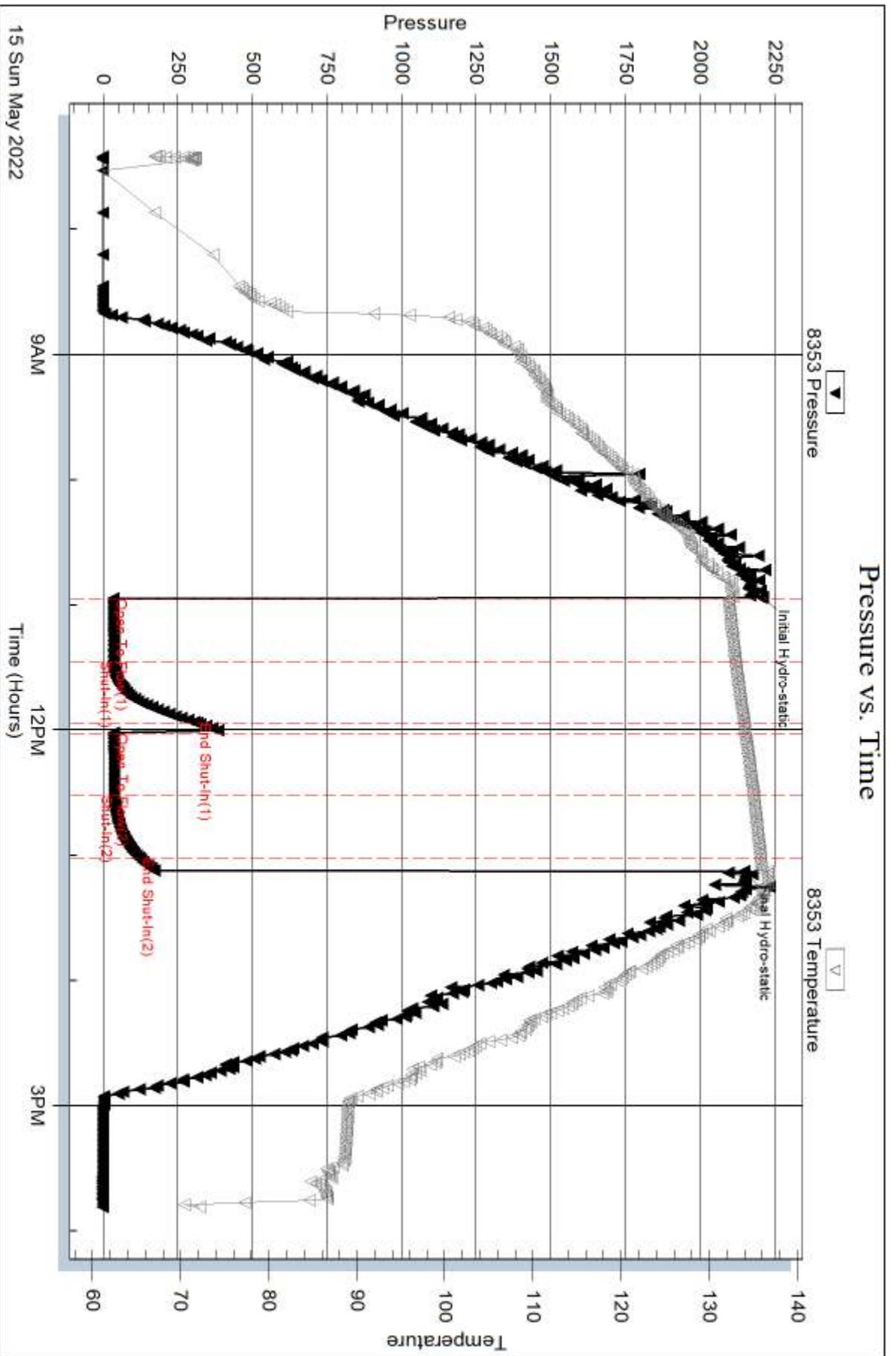
Inside

Dow n/g-Nelson Oil Company Inc

Kramer A Unit #1-17

DST Test Number: 1

Pressure vs. Time

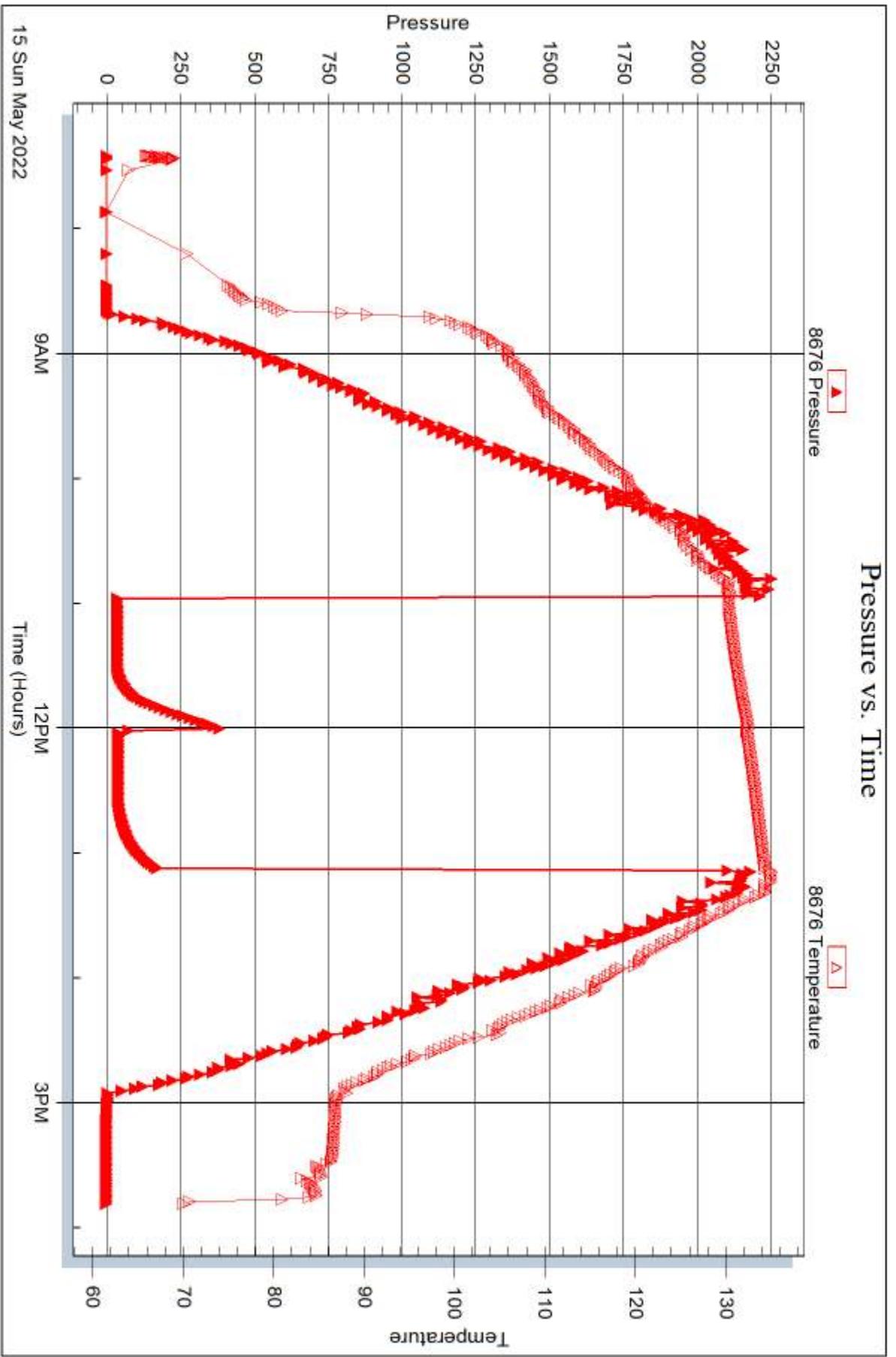


Serial #: 8676

Outside Dow nrg-Nelson Oil Company Inc

Kramer A Unit #1-17

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68761

Printed: 2022.05.20 @ 09:04:00



DRILL STEM TEST REPORT

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

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Kramer A Unit #1-17

17-5S-36W Rawlins,KS

Start Date: 2022.05.16 @ 17:02:00

End Date: 2022.05.17 @ 03:23:00

Job Ticket #: 68762 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.20 @ 08:47:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

ATTN: Marc Dow ning

Job Ticket: 68762

DST#: 2

Test Start: 2022.05.16 @ 17:02:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:34:45

Time Test Ended: 03:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: #71

Interval: 4580.00 ft (KB) To 4622.00 ft (KB) (TVD)

Reference Elevations: 3353.00 ft (KB)

Total Depth: 4622.00 ft (KB) (TVD)

3342.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8353

Inside

Press@RunDepth: 540.11 psig @ 4581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.16

End Date: 2022.05.17

Last Calib.: 2022.05.17

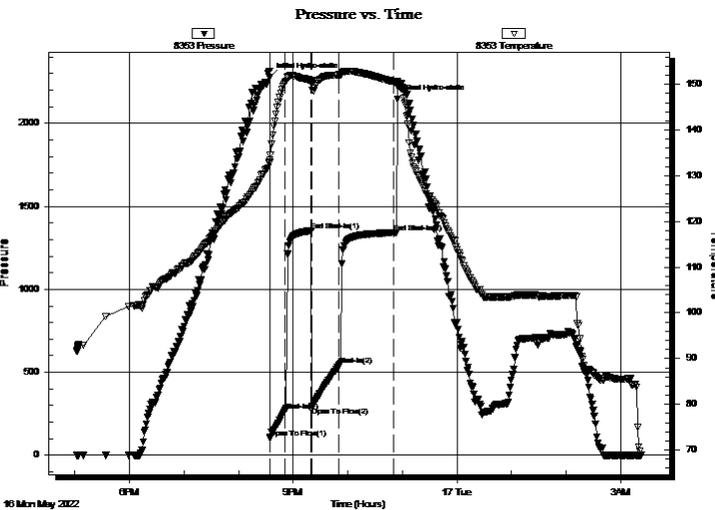
Start Time: 17:02:01

End Time: 03:23:00

Time On Btm: 2022.05.16 @ 20:34:00

Time Off Btm: 2022.05.16 @ 22:54:30

TEST COMMENT: 15:IF- Fair surface blow , BOB in 2 min, final blow is 97 inches
30:IS- Fair surface blow , BOB in 10 min, final blow is 35 inches
30:FF- Fair surface blow , BOB in 2 min, final blow is 117 inches
60:FS- Fair surface blow , built to 4 inches in 5 min, BOB in 11 min, final blow is 49 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.67	132.93	Initial Hydro-static
1	101.15	133.42	Open To Flow (1)
17	266.73	150.32	Shut-In(1)
46	1353.21	150.81	End Shut-In(1)
47	293.46	150.18	Open To Flow (2)
77	540.11	152.11	Shut-In(2)
136	1342.34	150.61	End Shut-In(2)
141	2145.88	150.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	GOCM 60%M 30%O 10%G	1.16
1197.00	SMGCO 60%O 35%G 5%M	16.79
31.00	CO 100%O	0.43

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 Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68762

DST#: 2

ATTN: Marc Dow ning

Test Start: 2022.05.16 @ 17:02:00

Tool Information

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	68000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	72000.00 lb
Depth to Top Packer:	4580.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	42.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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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	32.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8353	Inside	4581.00	
Recorder	0.00	8676	Outside	4581.00	
Blank Spacing	38.00			4619.00	
Bullnose	3.00			4622.00	42.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Company Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68762

DST#: 2

ATTN: Marc Downing

Test Start: 2022.05.16 @ 17:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
235.00	GOCM 60%M 30%O 10%G	1.156
1197.00	SMGCO 60%O 35%G 5%M	16.791
31.00	CO 100%O	0.435

Total Length: 1463.00 ft Total Volume: 18.382 bbl

Num Fluid Samples: 0

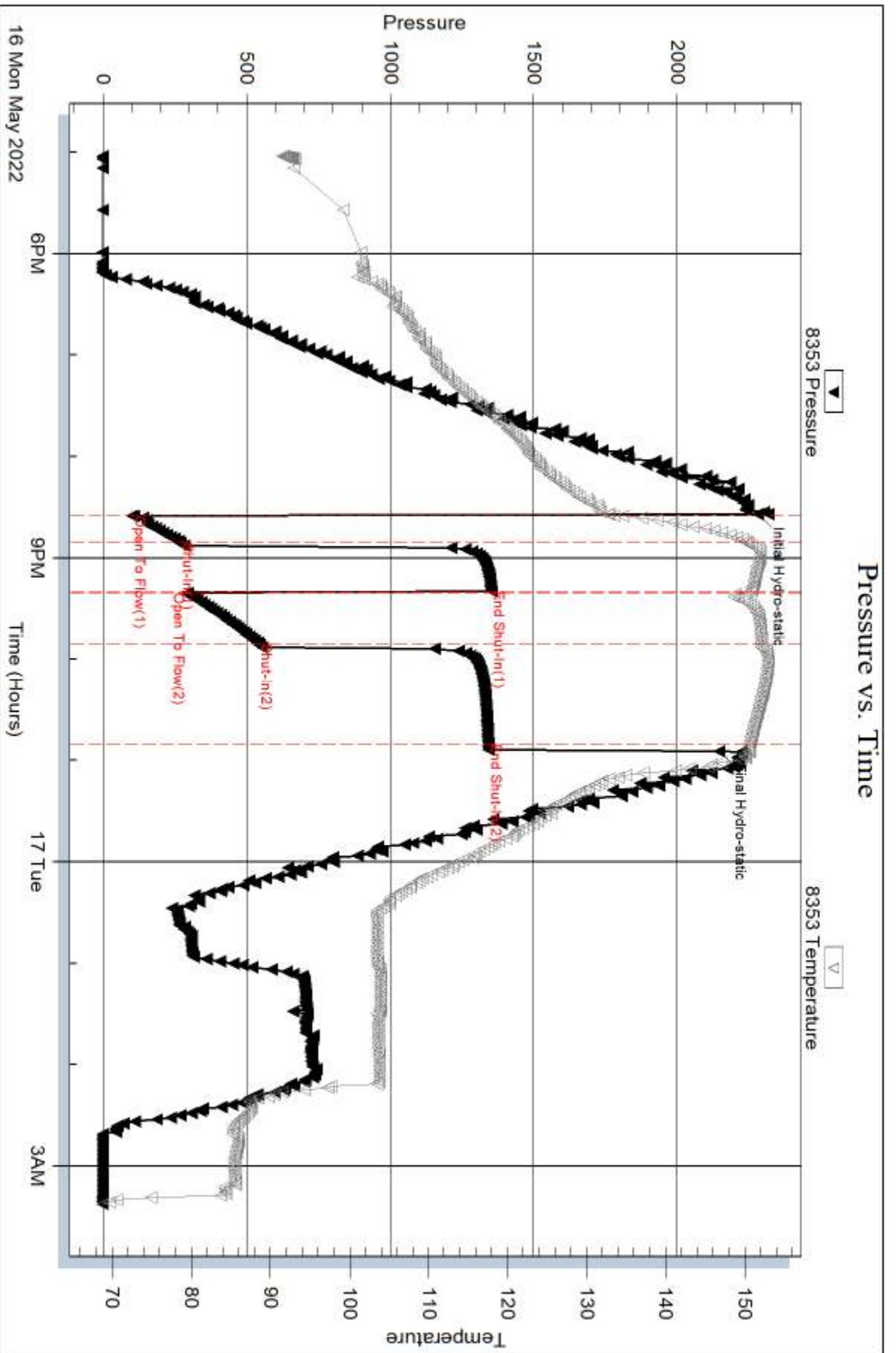
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



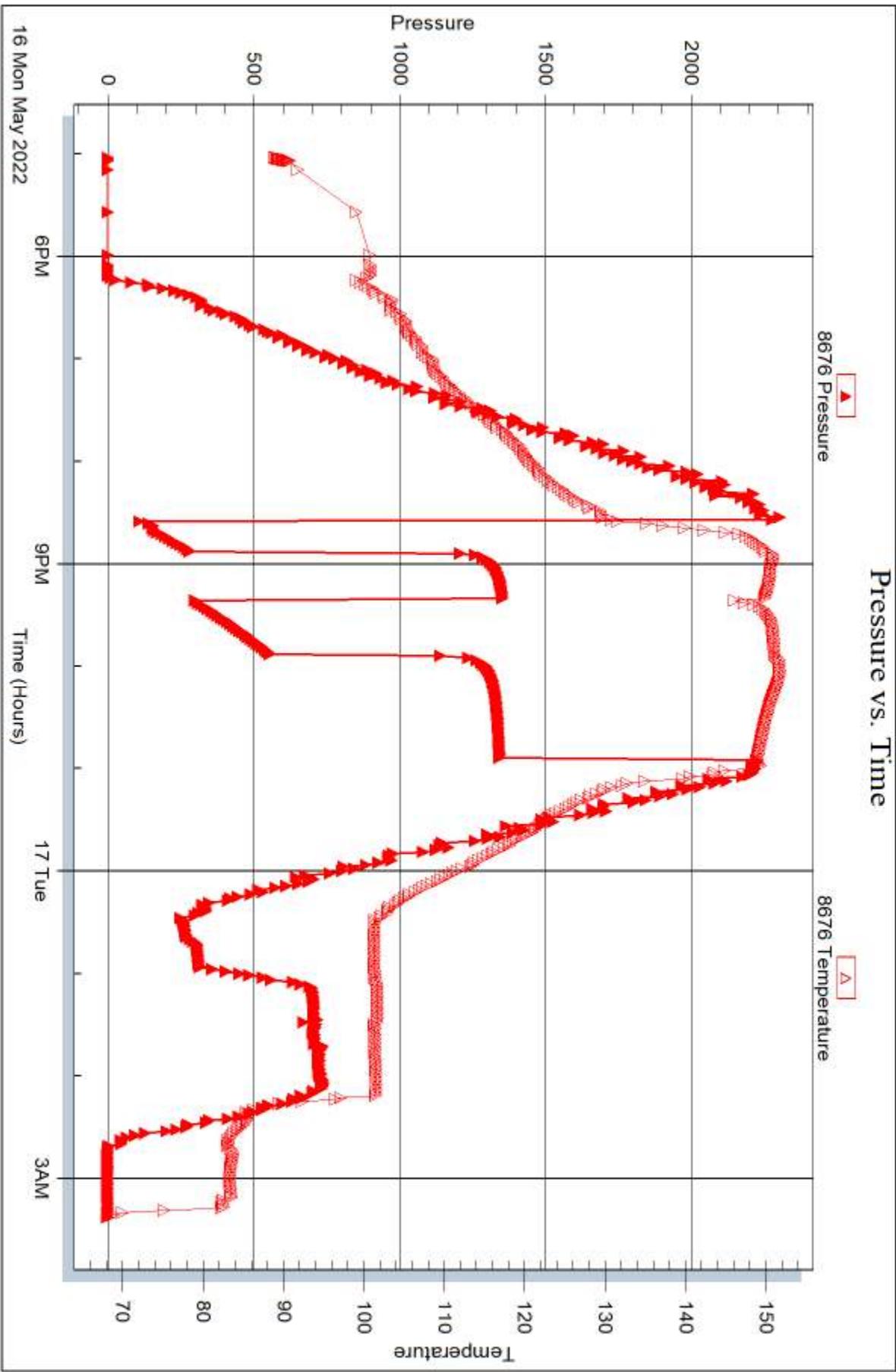
Serial #: 8676

Outside

Dow nIng-Nelson Oil Company Inc

Kramer A Unit #1-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68762

Printed: 2022.05.20 @ 08:47:06



DRILL STEM TEST REPORT

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

111 W. 10th
Hays, KS 67601

ATTN: Marc Downing

Kramer A Unit #1-17

17-5S-36W Rawlins,KS

Start Date: 2022.05.17 @ 17:05:00

End Date: 2022.05.18 @ 01:48:30

Job Ticket #: 68763 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.20 @ 08:39:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2022.05.17 @ 17:05:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:00

Time Test Ended: 01:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: #71

Interval: 4678.00 ft (KB) To 4702.00 ft (KB) (TVD)

Reference Elevations: 3353.00 ft (KB)

Total Depth: 4702.00 ft (KB) (TVD)

3342.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8353

Inside

Press@RunDepth: 277.82 psig @ 4679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.17

End Date: 2022.05.18

Last Calib.: 2022.05.18

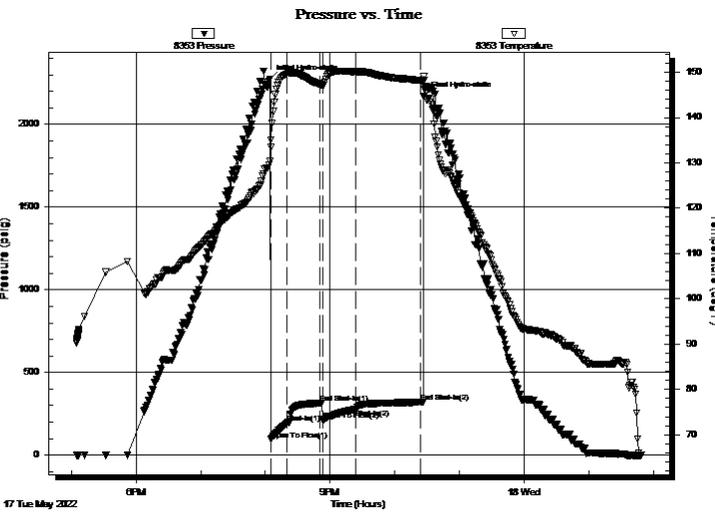
Start Time: 17:05:01

End Time: 01:48:30

Time On Btm: 2022.05.17 @ 20:04:15

Time Off Btm: 2022.05.17 @ 22:27:00

TEST COMMENT: 15:IF- Strong surface blow , BOB in 1 min, final blow is 48 inches
30:IS- Fair surface blow , built to 3 1/2 inches in 5 min, BOB in 27 min, final blow is 11 inches
30:FF- Fair surface blow , BOB in 8 min, final blow is 23 inches
60:FS- Weak surface blow , built to 1 inch in 5 min, BOB in 46 min, final blow is 12 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.87	130.33	Initial Hydro-static
1	93.97	133.41	Open To Flow (1)
16	191.97	149.63	Shut-In(1)
46	314.45	147.39	End Shut-In(1)
49	213.60	147.07	Open To Flow (2)
80	277.82	150.09	Shut-In(2)
140	319.47	148.15	End Shut-In(2)
143	2169.10	149.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	VSMGO 80%O 15%G 5%M	1.16
441.00	GO 75%O 25%G	6.19

* 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 Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2022.05.17 @ 17:05:00

Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4678.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	24.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4651.00	
Hydraulic tool	5.00			4656.00	
Jars	5.00			4661.00	
EM Tool	4.00			4665.00	
Safety Joint	3.00			4668.00	
Packer	5.00			4673.00	32.00 Bottom Of Top Packer
Packer	5.00			4678.00	
Stubb	1.00			4679.00	
Recorder	0.00	8353	Inside	4679.00	
Recorder	0.00	8676	Outside	4679.00	
Blank Spacing	20.00			4699.00	
Bullnose	3.00			4702.00	24.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Copmany Inc

17-5S-36W Rawlins,KS

111 W. 10th
Hays, KS 67601

Kramer A Unit #1-17

Job Ticket: 68763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2022.05.17 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
235.00	VSMGO 80%O 15%G 5%M	1.156
441.00	GO 75%O 25%G	6.186

Total Length: 676.00 ft

Total Volume: 7.342 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8353

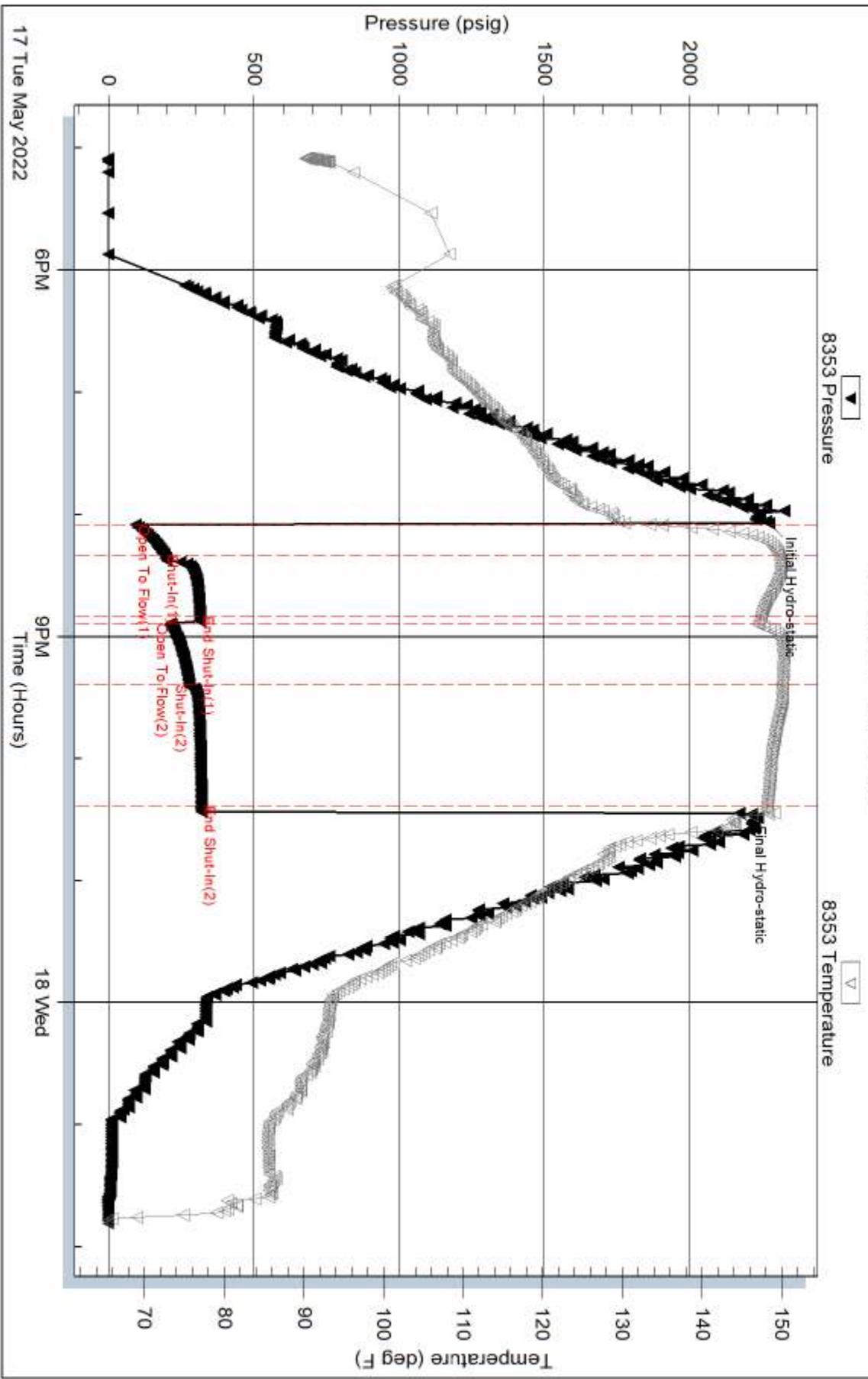
Inside

Dow n/g-nelson Oil Company Inc

Kramer A Unit #1-17

DST Test Number: 3

Pressure vs. Time



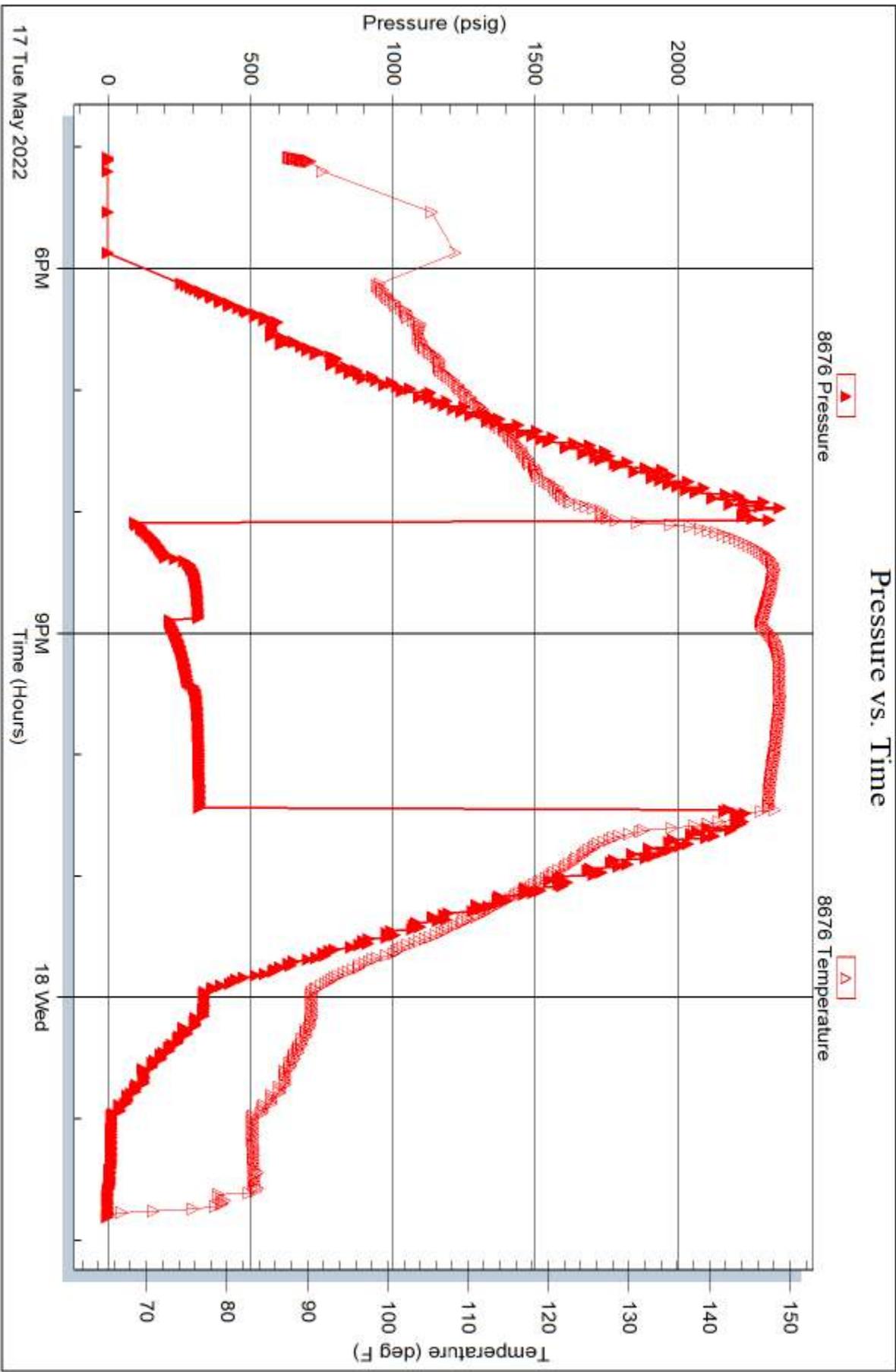
Serial #: 8676

Outside

Dow nung-Nelson Oil Company Inc

Kramer A Unit #1-17

DST Test Number: 3





TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68761

Well Name & No. Kramer A Unit #1-17 Test No. 1 Date 5/15/22
 Company Downing-Nelson Oil Company Inc Elevation 3353 KB 3342 GL
 Address 111 W 10th Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Duke #5
 Location: Sec. 17 Twp 5S Rge. 36W Co. Rawlins State KS

Interval Tested 4381-4431 Zone Tested LKC-J
 Anchor Length 50' Drill Pipe Run 4137 Mud Wt. 9.4
 Top Packer Depth 4376 Drill Collars Run 235 Vis 59
 Bottom Packer Depth 4381 Wt. Pipe Run _____ WL 10.6
 Total Depth 4431 Chlorides 1000 ppm System LCM 2#

Blow Description IF-Weak surface blow, built to 1/4 inch in 5 min, Final blow dired out

ISI- No blow back
FF- NO blow
FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 5 BHT 135 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2208 Test 1950 T-On Location 06:15
 (B) First Initial Flow 34 Jars 300 T-Started 07:25
 (C) First Final Flow 35 Safety Joint _____ T-Open 10:56
 (D) Initial Shut-In 314 Circ Sub _____ T-Pulled 13:06
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 15:48
 (F) Second Final Flow 38 Mileage 116 RT 174
 (G) Final Shut-In 122 Sampler _____
 (H) Final Hydrostatic 2146 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 2424 Accessibility _____
 Sub Total 2424 MP/DST Disc 1

Approved By _____ Our Representative [Signature]
 Tribolite 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. **68762**

Well Name & No. Kramer A Unit #1-17 Test No. 2 Date 5/16/22
 Company Downing-Nelson Oil Company Inc Elevation 3353 KB 5342 GL
 Address 111 W 10th Hays, Ks 67601
 Co. Rep / Geo. Marc Downing Rig Duke #5
 Location: Sec. 17 Twp 5S Rge. 36W Co. Rawlins State KS

Interval Tested 4580-4622 Zone Tested Pawnee
 Anchor Length 42' Drill Pipe Run 4328 Mud Wt. 9.3
 Top Packer Depth 4575 Drill Collars Run 235 Vls 50
 Bottom Packer Depth 4580 Wt. Pipe Run _____ WL 8.0
 Total Depth 4622 Chlorides 500 ppm System LCM 2#

Blow Description IF - Fair Surface blow, BOB in 2 min, Final blow is 99 inches
ISI - Fair Surface blow, BOB in 10 min, Final blow is 35 inches
FF - Fair Surface blow, BOB in 2 min, Final blow is 117 inches
FSI - Fair Surface blow, built to 4 inches in 5 min, BOB in 11 min, Final 4 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>CO</u>	<u>100</u>		<u>0</u>	
<u>1197</u>	<u>Reversed out</u>				
<u>5 min</u>	<u>CO</u>	<u>100</u>			
<u>10 min - 20 min</u>	<u>SMC CO</u>	<u>35</u>	<u>60</u>		<u>5</u>
<u>235</u>	<u>GOCM</u>	<u>10</u>	<u>30</u>		<u>60</u>

Rec Total 1463 BHT 150 Gravity 33.070 API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic 2281 Test 1950 T-On Location 16:00
 (B) First Initial Flow 101 Jars 300 T-Started 17:02
 (C) First Final Flow 267 Safety Joint _____ T-Open 20:34
 (D) Initial Shut-In 1353 Circ Sub _____ T-Pulled 22:55
 (E) Second Initial Flow 293 Hourly Standby _____ T-Out 03:18
 (F) Second Final Flow 540 Mileage 116 RT 174
 (G) Final Shut-In 1342 Sampler _____
 (H) Final Hydrostatic 2146 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Sub Total 2424 MP/IST Disc _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68763

Well Name & No. Kramer A Unit #1-17 Test No. 3 Date 5/17/22
 Company Downing-Nelson Oil Company Inc Elevation 3353 KB 3342 GL
 Address 111. W 10th Hays, KS 67601
 Co. Rep / Geo. Marc Downing Pkg Duke #5
 Location: Sec. 17 Twp 5S Rge. 36W Co. Rawlins State KS

Interval Tested 4678'-4702 Zone Tested Cherokee Lime
 Anchor Length 24' Drill Pipe Run 4220 Mud Wt. 9.0
 Top Packer Depth 4673 Drill Collars Run 235 Vis 56
 Bottom Packer Depth 4678 Wt. Pipe Run _____ WL 8
 Total Depth 4702 Chlorides 800 ppm System LCM 4#

Blow Description IF - Strong Surface blow, BOB in 1min, Final blow is 48 inches
ISI - Fair Surface blow, built to 3 1/2 inches in 5min, BOB in 27min, Final blow 1 inch
FF - Fair Surface blow, BOB in 8min, Final blow is 23 inches
FSI - Weak surface blow, built to 1 inch in 5min, BOB in 4min, Final 12 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>441</u>	<u>GO</u>	<u>25</u>	<u>75</u>		
<u>235</u>	<u>VSMGO</u>	<u>15</u>	<u>80</u>		<u>5</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 676 BHT 148 Gravity 27@70 API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2273
- (B) First Initial Flow 94
- (C) First Final Flow 192
- (D) Initial Shut-In 314
- (E) Second Initial Flow 214
- (F) Second Final Flow 278
- (G) Final Shut-In 319
- (H) Final Hydrostatic 2169

- Test 1950
- Jars 300
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 116 RT 174
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 2424

T-On Location 16:10
 T-Started 17:05
 T-Open 20:05
 T-Pulled 22:25
 T-Out 01:45

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2424
 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative [Signature]

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