

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
--	---

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) (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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SWIFT Services, Inc.

DATE
13 AUG 21

PAGE NO.
1

TICKET NO.
33839

William Nelson

WELL NO.
1-22

LEASE
Geist-Tillet Unit C

JOB TYPE
cement surface pipe

PART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 sk standard 2% gel 3% cc 8 5/8" 23" 5 joints 223'
	1400							on loc TRK U13
	1520							Drilling Start 8 5/8" 23 casing in well
	1600							circulate well
	1612	4						MIX STD 2%3% @ 14.7 fpg 150 sk
		4	36				200	
	1623	4						Displace cement
								→ cement to surface ←
		4	13				200	Kickout shut in 8 5/8" 150 inches 15 to pit
	1629							wash truck
								Rack up
	1655							job complete

Thanks
Austin, Blair & Isaac

SWIFT Services, Inc.

DATE	8-19-21	PAGE NO.
TICKET NO.	35197	

OWNER
WILLIAMS - NELSON

WELL NO.
1-22

LEASE
Geist-Tillet

JOB TYPE
2 stage

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2130							ON LOCATION
								Rtd - 3935
								TOTAL PIPE - 3929
								CENTRALIZERS - 1, 3, 5, 7, 9, 47
								BASKET - 48
								D.V. TOOL - 48 e 1909
	2330							START Running Csg
	0130							BREAK Circ on Bottom
	200	5.5	12			300		Pump MUDFLUSH - 500 GAL
		5.5	20			300		Pump KILL SPACER
			36					⊙ TAKE ON MUD FOR DISP
	210	5	36			200		Pump CMT - 150 SX e 15.5 PPA
								Drop plug - WASH P&L
		6.5	0			200		START DISP
245	200	5.5	96			800		LAND plug e 1500 #
								RELEASE Psi - Dry
		2	8			0		Drop D.V. opening TOOL
		2	4			0		plug rat hole - 30 SX
						800		plug mouse Hole - 15 SX
		6	99			400		Open D.V. TOOL
								pump CMT - 180 SX SMD e 11.2 PPA
		6.5	0					Drop plug
	330	5.5	46			600		START DISP
								LAND plug e 1500 #
								RELEASE Psi - Dry
								Circulated 10 SX CMT
								JOB COMPLETE
								THANKS
								DAVID, ZACH & ISAAC



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Geist-Tillet #1-22

2-10s-23w Graham,KS

Start Date: 2021.08.16 @ 23:21:00

End Date: 2021.08.17 @ 04:57:15

Job Ticket #: 67796 DST #: 1

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

Printed: 2021.08.23 @ 11:26:08

Downing-Nelson Oil Co. Inc. 2-10s-23w Graham,KS Geist-Tillet #1-22 DST # 1 LKC "A" 2021.08.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67796

DST#: 1

ATTN: Marc Dow ning

Test Start: 2021.08.16 @ 23:21:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:24:15

Time Test Ended: 04:57:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3644.00 ft (KB) To 3675.00 ft (KB) (TVD)

Reference Elevations: 2364.00 ft (KB)

Total Depth: 3675.00 ft (KB) (TVD)

2356.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 18.28 psig @ 3645.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.16

End Date:

2021.08.17

Last Calib.:

2021.08.17

Start Time: 23:21:05

End Time:

04:57:14

Time On Btm:

2021.08.17 @ 01:24:00

Time Off Btm:

2021.08.17 @ 03:25:15

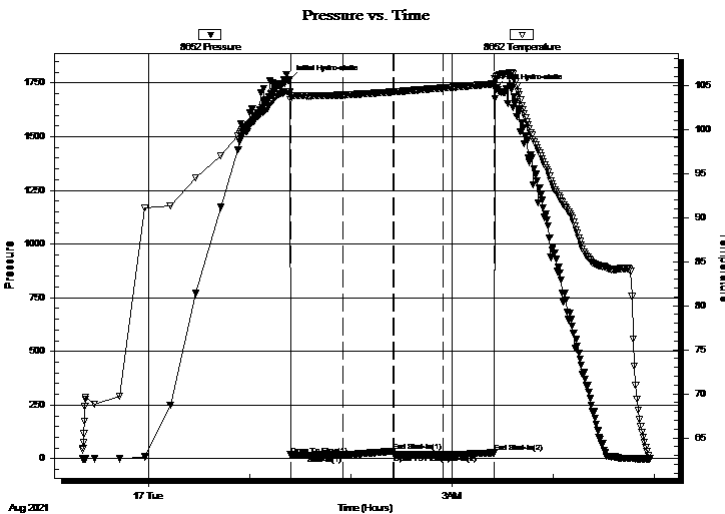
TEST COMMENT: IF- Built to 3/4"

SI1- No return

FF- No Blow

SI2- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.71	104.25	Initial Hydro-static
1	17.59	103.41	Open To Flow (1)
31	17.69	103.90	Shut-In(1)
61	35.52	104.25	End Shut-In(1)
62	18.99	104.25	Open To Flow (2)
91	18.28	104.70	Shut-In(2)
121	27.38	105.14	End Shut-In(2)
122	1725.82	105.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	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 Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67796

DST#: 1

ATTN: Marc Dow ning

Test Start: 2021.08.16 @ 23:21:00

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 50.68 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3644.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	31.00 ft				
Tool Length:	52.00 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			3624.00	
Shut In Tool	5.00			3629.00	
Hydraulic tool	5.00			3634.00	
Packer	5.00			3639.00	21.00 Bottom Of Top Packer
Packer	5.00			3644.00	
Stubb	1.00			3645.00	
Recorder	0.00	6625	Inside	3645.00	
Recorder	0.00	8652	Outside	3645.00	
Perforations	26.00			3671.00	
Bullnose	4.00			3675.00	31.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67796

DST#: 1

ATTN: Marc Dow ning

Test Start: 2021.08.16 @ 23:21:00

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: 7.98 in³

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
5.00	mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

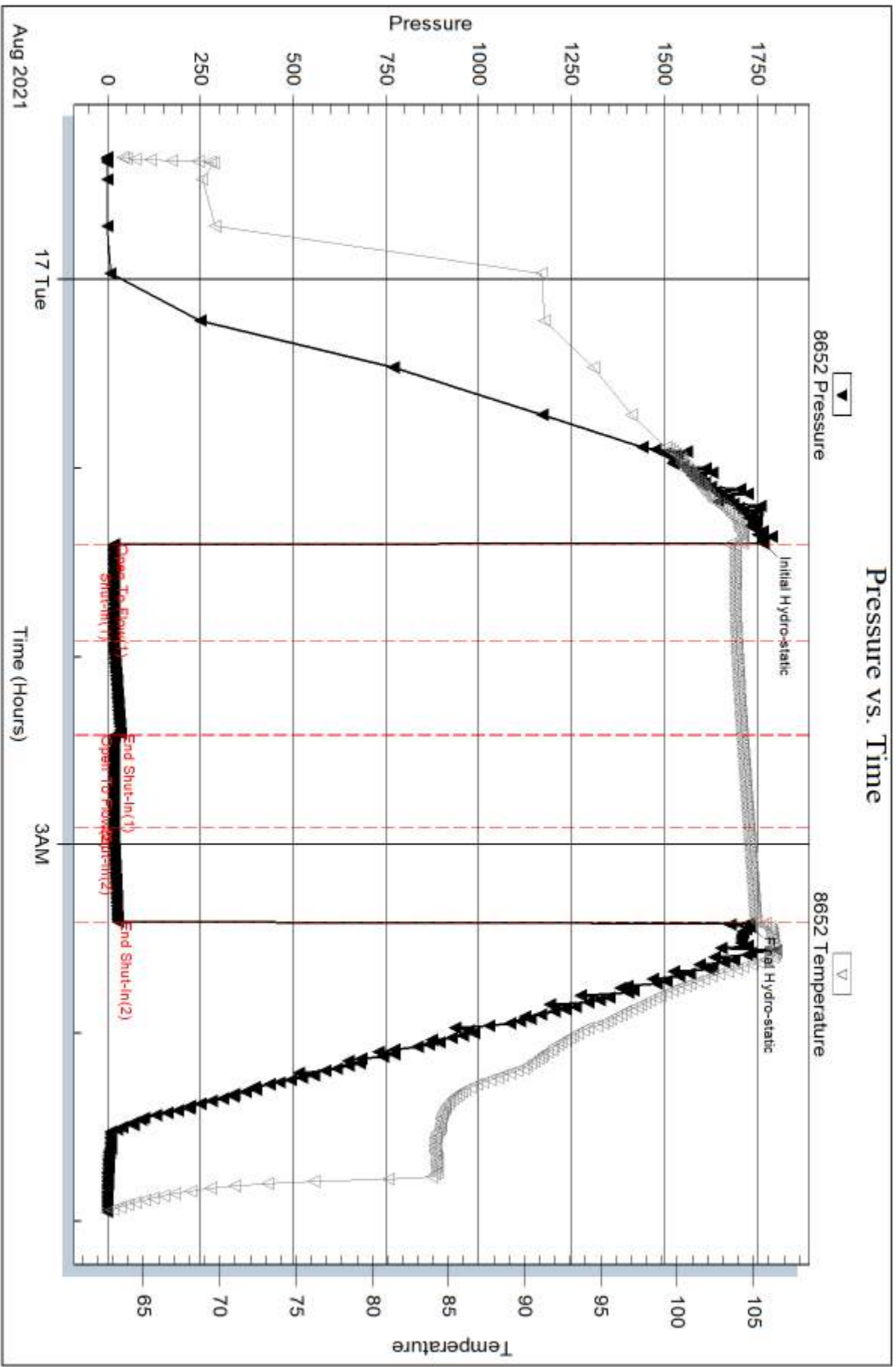
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1 1/2# LCM



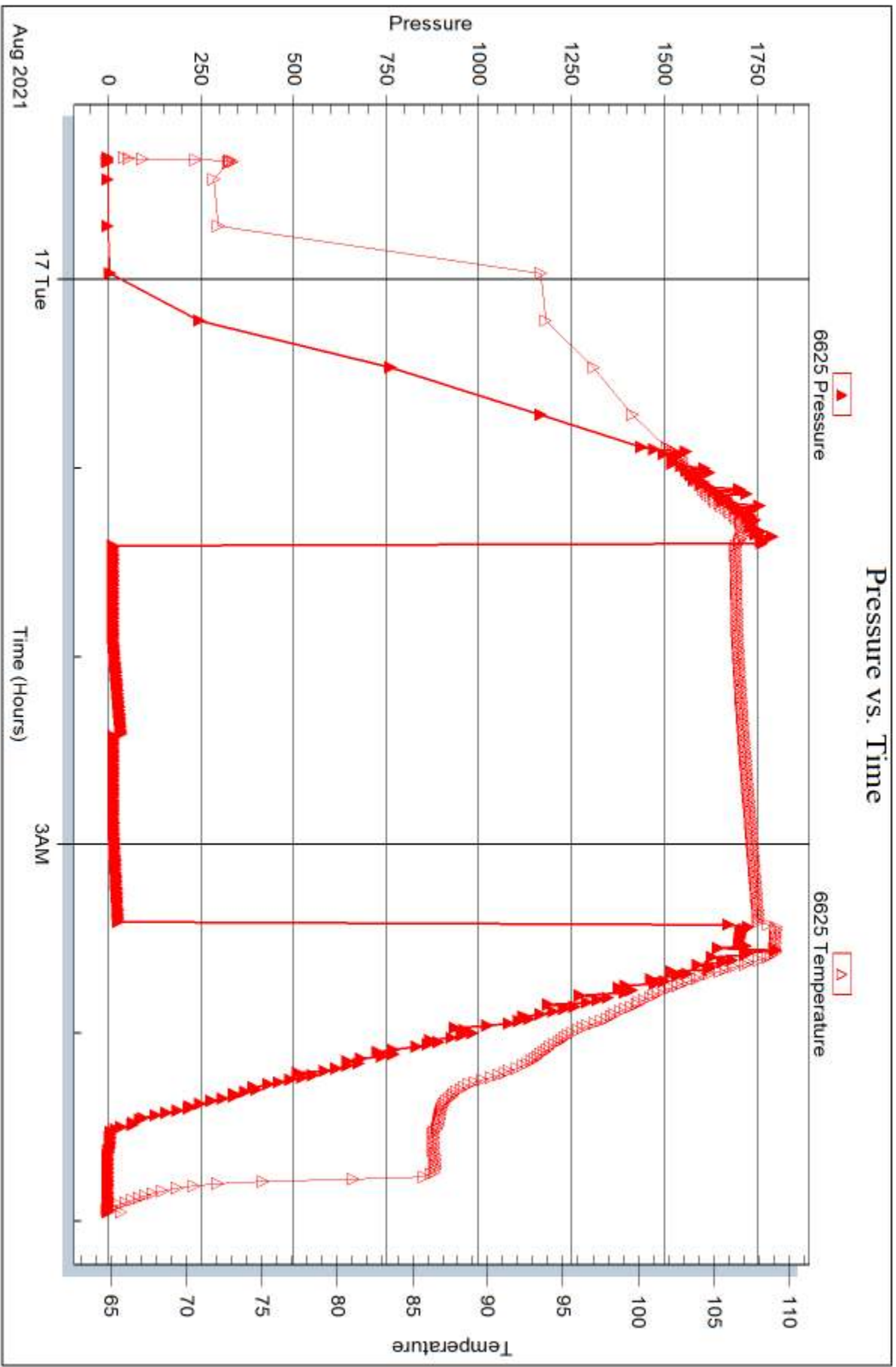
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Inside

Dow nrg-Nelson Oil Co. Inc.

Geist-Tillet #1-22

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 67796

Printed: 2021.08.23 @ 11:26:09



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Geist-Tillet #1-22

2-10s-23w Graham,KS

Start Date: 2021.08.17 @ 15:03:00

End Date: 2021.08.17 @ 21:50:45

Job Ticket #: 67797 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.08.23 @ 11:25:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67797

DST#: 2

ATTN: Marc Dow ning

Test Start: 2021.08.17 @ 15:03:00

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:00:15

Time Test Ended: 21:50:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3711.00 ft (KB) To 3745.00 ft (KB) (TVD)

Reference Elevations: 2364.00 ft (KB)

Total Depth: 3675.00 ft (KB) (TVD)

2356.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 30.35 psig @ 3712.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.17 End Date: 2021.08.17

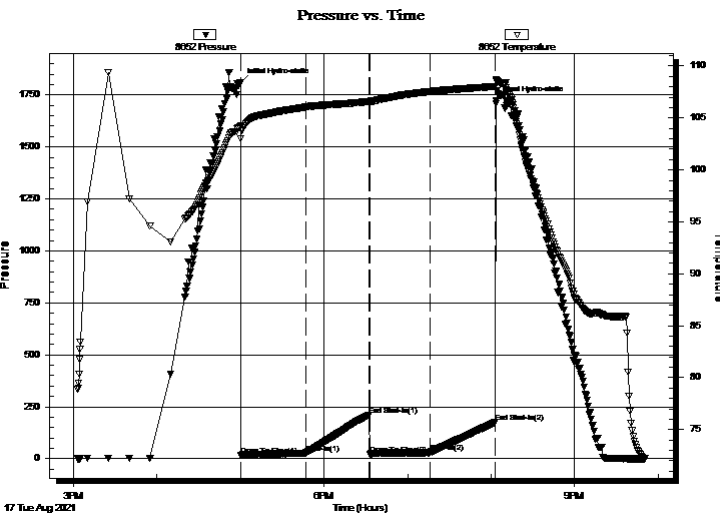
Last Calib.: 2021.08.17

Start Time: 15:03:05 End Time: 21:50:44

Time On Btm: 2021.08.17 @ 17:00:00

Time Off Btm: 2021.08.17 @ 20:03:30

TEST COMMENT: IF- Built to 9 1/2"
SI1- No return
FF- Built to 9 1/4"
SI2- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.31	104.24	Initial Hydro-static
1	17.05	103.01	Open To Flow (1)
47	26.91	106.03	Shut-In(1)
93	211.07	106.59	End Shut-In(1)
93	22.70	106.59	Open To Flow (2)
137	30.35	107.55	Shut-In(2)
183	174.70	108.04	End Shut-In(2)
184	1723.08	108.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 5 gas 15 oil 80 mud	0.35
0.00	145' GIP	0.00

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.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67797

DST#: 2

ATTN: Marc Dow ning

Test Start: 2021.08.17 @ 15:03:00

Tool Information

Drill Pipe:	Length: 3666.00 ft	Diameter: 3.80 inches	Volume: 51.42 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3711.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	34.00 ft				
Tool Length:	55.00 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			3691.00	
Shut In Tool	5.00			3696.00	
Hydraulic tool	5.00			3701.00	
Packer	5.00			3706.00	21.00 Bottom Of Top Packer
Packer	5.00			3711.00	
Stubb	1.00			3712.00	
Recorder	0.00	6625	Inside	3712.00	
Recorder	0.00	8652	Outside	3712.00	
Perforations	29.00			3741.00	
Bullnose	4.00			3745.00	34.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67797

DST#: 2

ATTN: Marc Dow ning

Test Start: 2021.08.17 @ 15:03:00

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GOCM 5 gas 15 oil 80 mud	0.349
0.00	145' GIP	0.000

Total Length: 45.00 ft Total Volume: 0.349 bbl

Num Fluid Samples: 0

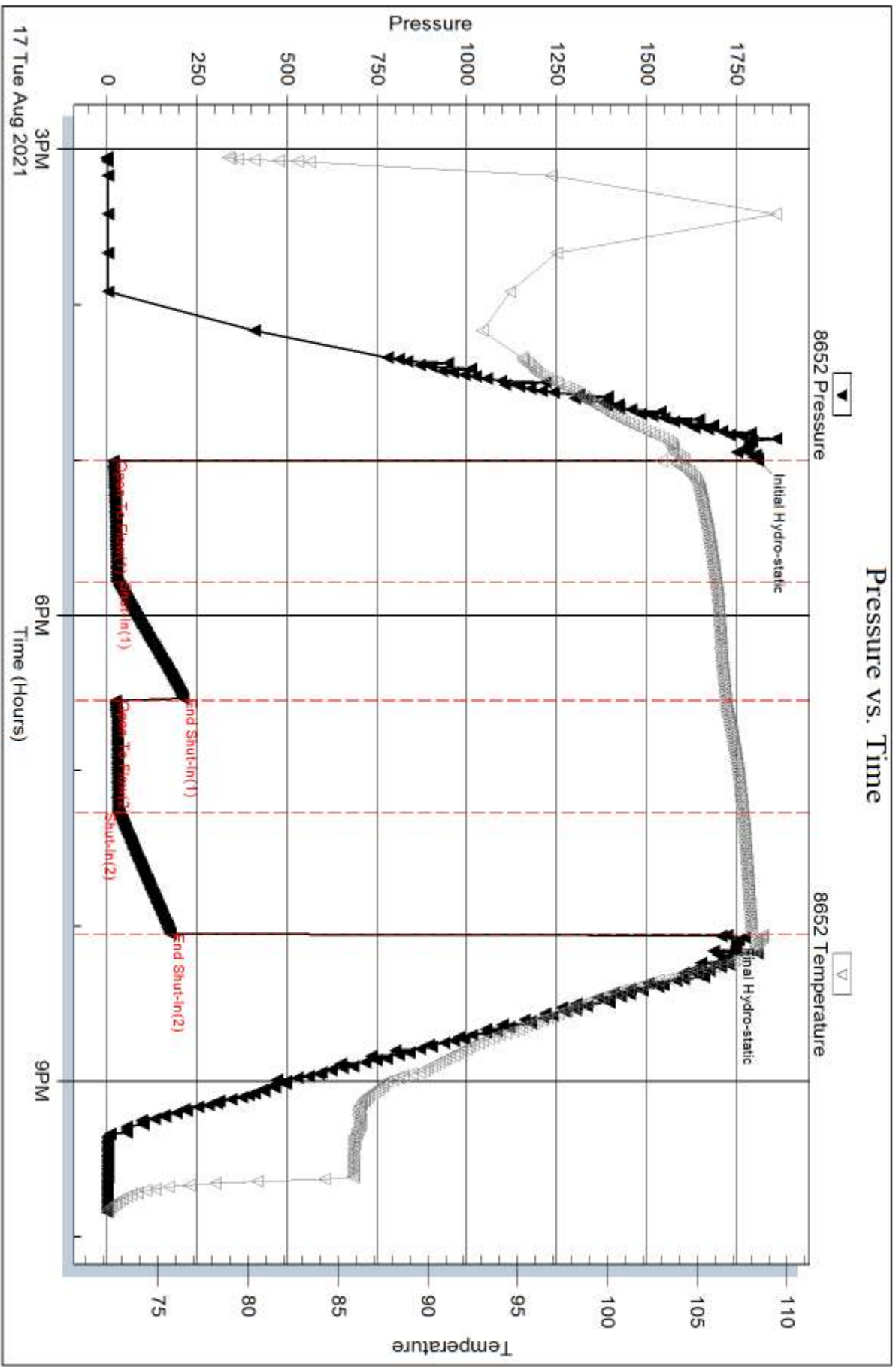
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



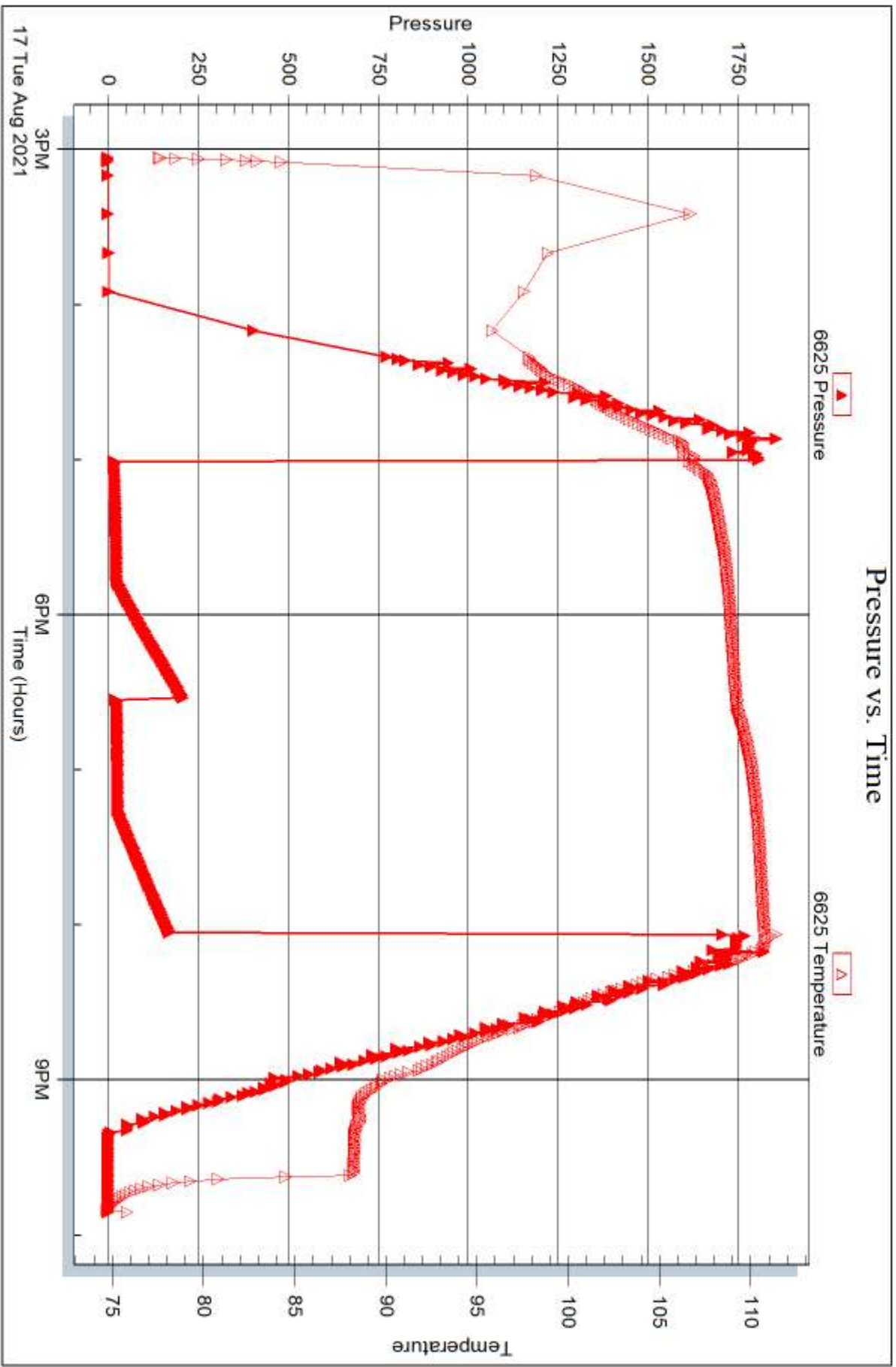
Serial #: 6625

Inside

Dow nrg-Nelson Oil Co. Inc.

Geist-Tillet #1-22

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 67797

Printed: 2021.08.23 @ 11:25:22



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Geist-Tillet #1-22

2-10s-23w Graham,KS

Start Date: 2021.08.18 @ 05:59:00

End Date: 2021.08.18 @ 12:42:00

Job Ticket #: 67798 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.08.23 @ 11:24:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67798

DST#: 3

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 05:59:00

GENERAL INFORMATION:

Formation: **LKC "H - I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:45:15
 Time Test Ended: 12:42:00
 Interval: **3771.00 ft (KB) To 3815.00 ft (KB) (TVD)**
 Total Depth: 3675.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2364.00 ft (KB)
 2356.00 ft (CF)
 KB to GR/CF: 8.00 ft

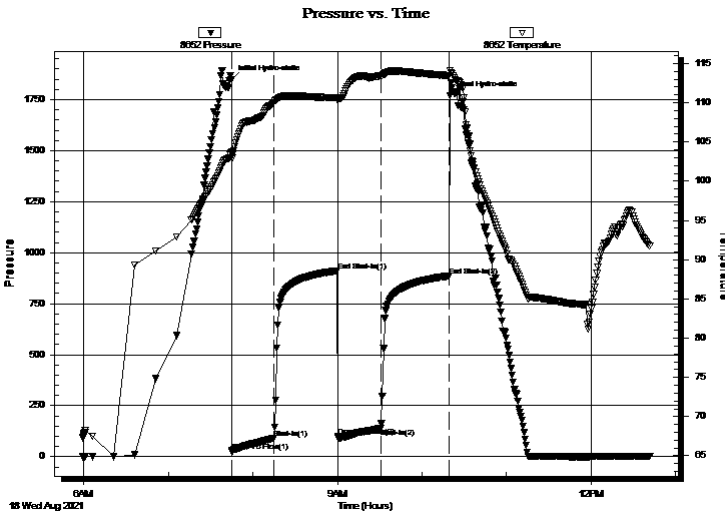
Serial #: 8652

Outside

Press@RunDepth: 139.36 psig @ 3772.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.08.18 End Date: 2021.08.18 Last Calib.: 2021.08.18
 Start Time: 05:59:05 End Time: 12:41:59 Time On Btm: 2021.08.18 @ 07:45:00
 Time Off Btm: 2021.08.18 @ 10:20:00

TEST COMMENT: IF- BOB in 3 min 45 sec built to 100"
 SI1- Built to 3/4" died to 1/4"
 FF- BOB in 4 1/2 min built to 94 1/4"
 SI2- Built to 2 1/2" died

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.81	103.74	Initial Hydro-static
1	23.93	102.92	Open To Flow (1)
30	90.16	110.05	Shut-In(1)
75	910.36	110.61	End Shut-In(1)
76	98.21	110.25	Open To Flow (2)
106	139.36	113.45	Shut-In(2)
155	886.15	113.45	End Shut-In(2)
155	1769.11	114.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	WGOCM 50 mud 25 gas 20 oil 5 water	0.15
96.00	WGOCM 50 mud 25 gas 20 oil 5 water	1.35
127.00	GOCM 50 mud 10 oil 40 gas	1.78
63.00	80 oil 15 mud 5 gas	0.88
31.00	GO 90 oil 10 gas	0.43
0.00	2065' GIP	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.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67798

DST#: 3

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 05:59:00

Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 52.46 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	3771.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	44.00 ft				
Tool Length:	65.00 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			3751.00	
Shut In Tool	5.00			3756.00	
Hydraulic tool	5.00			3761.00	
Packer	5.00			3766.00	21.00 Bottom Of Top Packer
Packer	5.00			3771.00	
Stubb	1.00			3772.00	
Recorder	0.00	6625	Inside	3772.00	
Recorder	0.00	8652	Outside	3772.00	
Perforations	39.00			3811.00	
Bullnose	4.00			3815.00	44.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67798

DST#: 3

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 05:59:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	WGOCM 50 mud 25 gas 20 oil 5 w ater	0.152
96.00	WGOCM 50 mud 25 gas 20 oil 5 w ater	1.347
127.00	GOCM 50 mud 10 oil 40 gas	1.781
63.00	80 oil 15 mud 5 gas	0.884
31.00	GO 90 oil 10 gas	0.435
0.00	2065' GIP	0.000

Total Length: 348.00 ft

Total Volume: 4.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

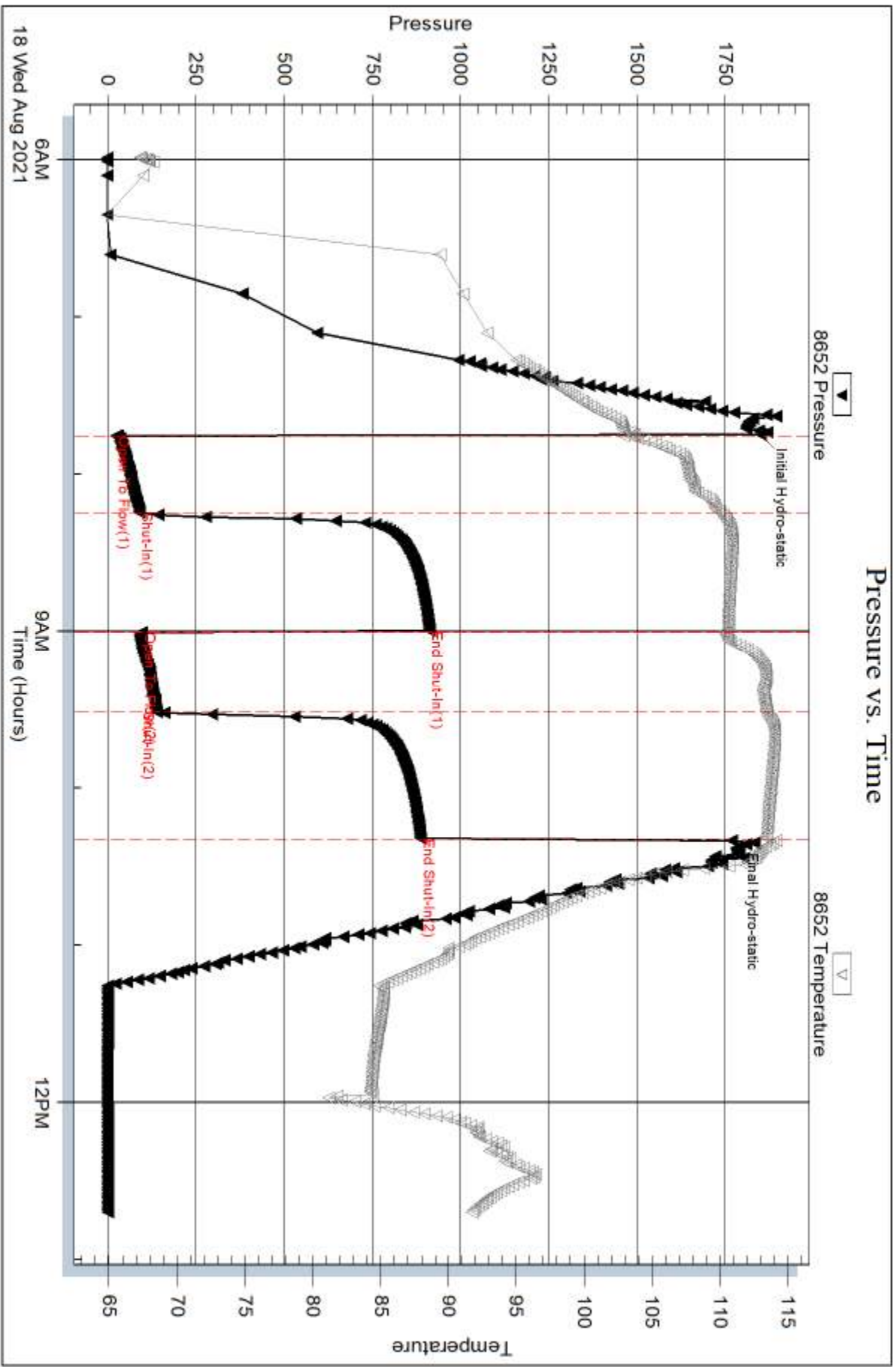
Recovery Comments: 1# LCM

Serial #: 8652

Outside Dow nting-Nelson Oil Co. Inc.

Geist-Tillet #1-22

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 67798

Printed: 2021.08.23 @ 11:24:55

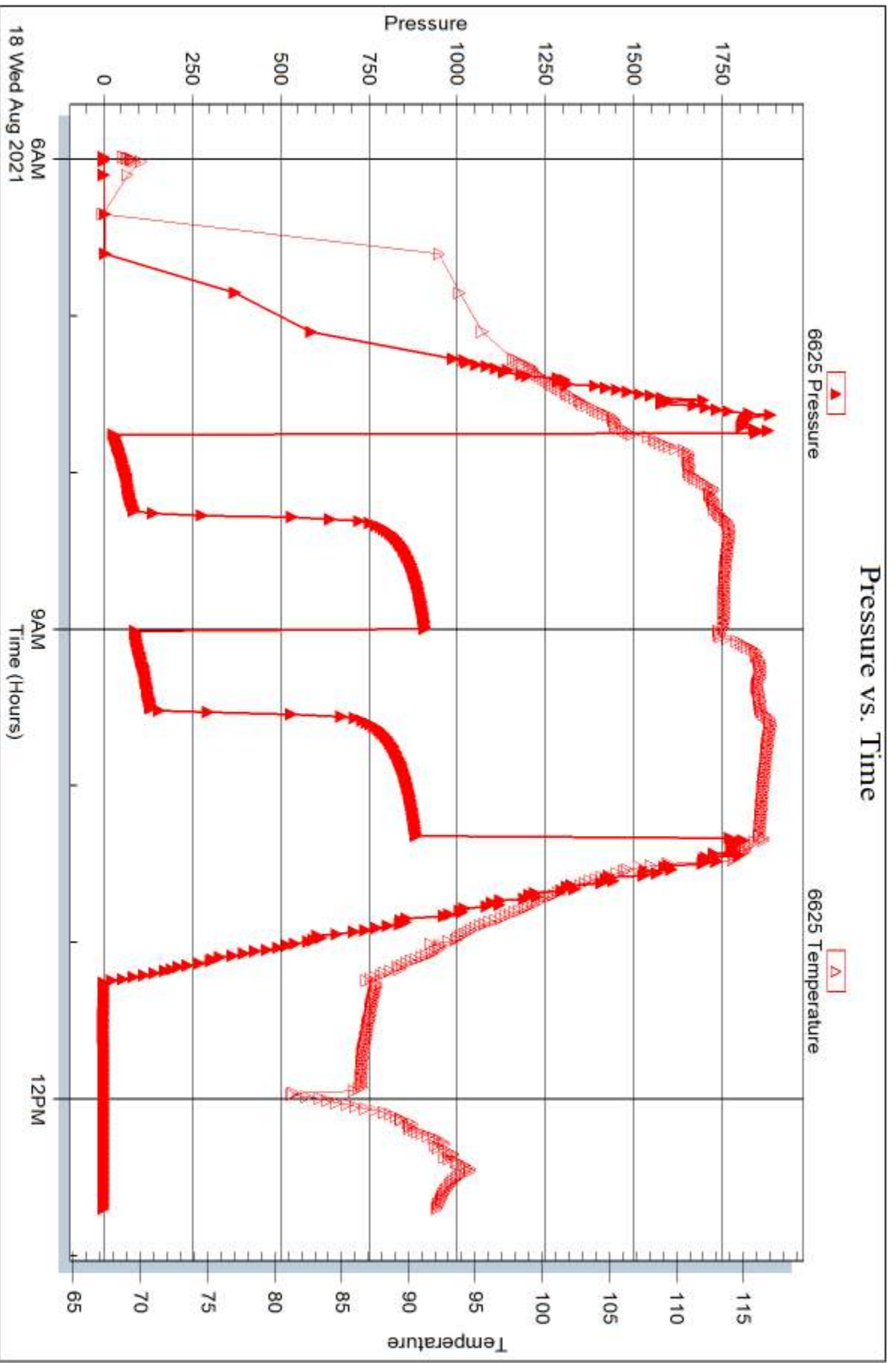
Serial #: 6625

Inside

Dow nmg-Nelson Oil Co. Inc.

Geist-Tillet #1-22

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 67798

Printed: 2021.08.23 @ 11:24:55



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Geist-Tillet #1-22

2-10s-23w Graham,KS

Start Date: 2021.08.18 @ 19:29:00

End Date: 2021.08.19 @ 02:02:15

Job Ticket #: 67799 DST #: 4

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

Printed: 2021.08.23 @ 11:23:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67799

DST#: 4

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 19:29:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:46:30
 Time Test Ended: 02:02:15
 Interval: **3816.00 ft (KB) To 3836.00 ft (KB) (TVD)**
 Total Depth: 3675.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2364.00 ft (KB)
 2356.00 ft (CF)
 KB to GR/CF: 8.00 ft

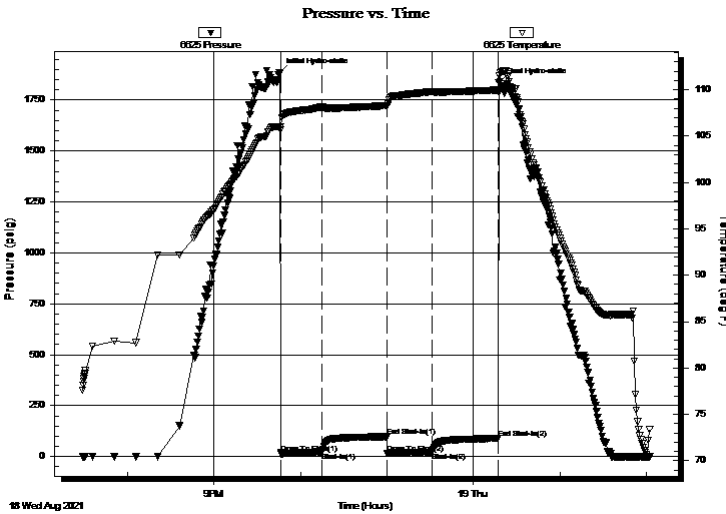
Serial #: 6625

Inside

Press@RunDepth: 22.37 psig @ 3817.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.08.18 End Date: 2021.08.19 Last Calib.: 2021.08.19
 Start Time: 19:29:05 End Time: 02:02:14 Time On Btm: 2021.08.18 @ 21:45:30
 Time Off Btm: 2021.08.19 @ 00:17:30

TEST COMMENT: IF- BOB in 4 min, Built to 69"
 SI1- no return
 FF- BOB in 3 min, Built to 45 3/4"
 SI2- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.27	105.85	Initial Hydro-static
1	13.79	106.00	Open To Flow (1)
30	20.81	108.12	Shut-In(1)
75	97.61	108.28	End Shut-In(1)
75	15.07	108.27	Open To Flow (2)
106	22.37	109.82	Shut-In(2)
152	89.04	109.95	End Shut-In(2)
152	1837.40	110.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	OCM 95 mud 5 oil	0.15
9.00	OCM 95 mud 5 oil	0.13
0.00	1270' GIP	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.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67799

DST#: 4

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 19:29:00

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.34 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3816.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	20.00 ft			
Tool Length:	41.00 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			3796.00	
Shut In Tool	5.00			3801.00	
Hydraulic tool	5.00			3806.00	
Packer	5.00			3811.00	21.00 Bottom Of Top Packer
Packer	5.00			3816.00	
Stubb	1.00			3817.00	
Recorder	0.00	6625	Inside	3817.00	
Recorder	0.00	8652	Outside	3817.00	
Perforations	15.00			3832.00	
Bullnose	4.00			3836.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

2-10s-23w Graham,KS

PO Box 1019
Hays, KS 67601

Geist-Tillet #1-22

Job Ticket: 67799

DST#: 4

ATTN: Marc Dow ning

Test Start: 2021.08.18 @ 19:29:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	OCM 95 mud 5 oil	0.152
9.00	OCM 95 mud 5 oil	0.126
0.00	1270' GIP	0.000

Total Length: 40.00 ft Total Volume: 0.278 bbl

Num Fluid Samples: 0

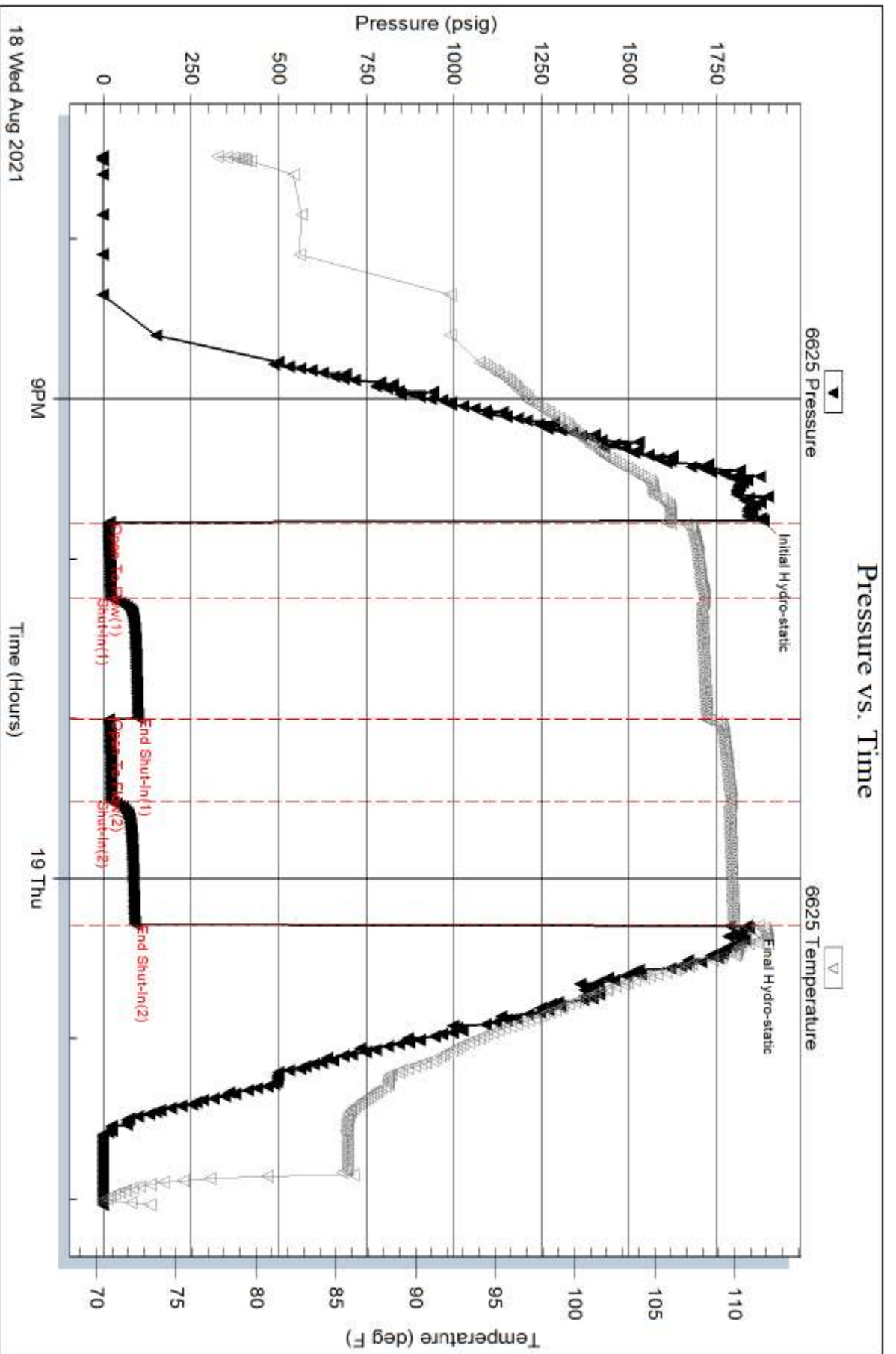
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2 3/4#LCM

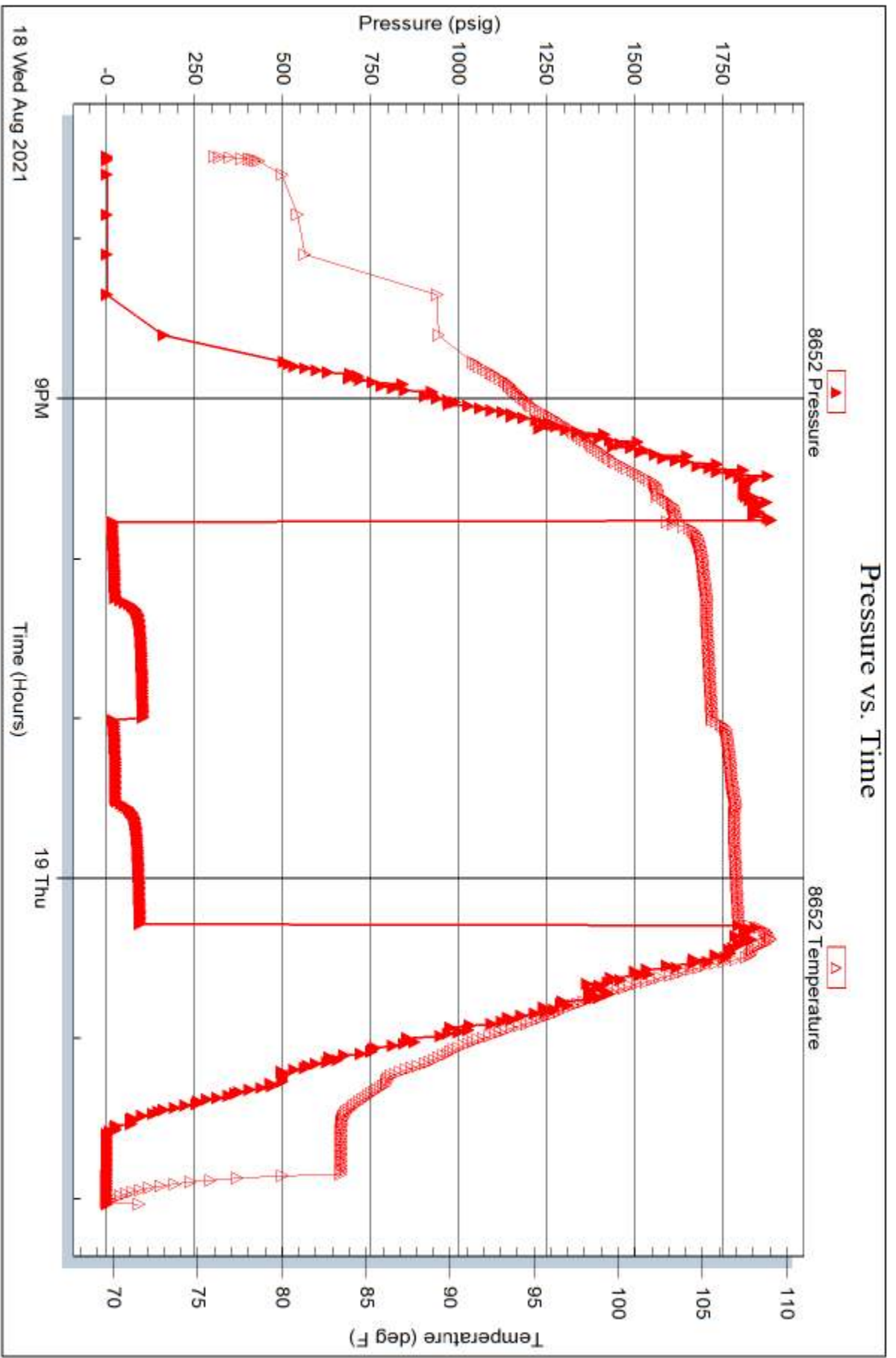


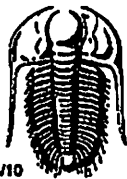
Serial #: 8652

Outside Dow n/ing-Nelson Oil Co. Inc.

Geist-Tillet #1-22

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67796

Well Name & No. Geist-Tillet Unit C # 1-22 Test No. 1 Date 9/16/21
 Company Downing-Nelson Oil Co Inc Elevation 2364 KB 2356 GL
 Address Po Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery Rig #4
 Location: Sec. 22 Twp 10 Rge. 23 Co. Graham State KS

Interval Tested 3644-3675 Zone Tested LKC "A"
 Anchor Length 31 Drill Pipe Run 3602 Mud Wt. 8.7
 Top Packer Depth 3639 Drill Collars Run 31 Vls 55
 Bottom Packer Depth 3644 Wt. Pipe Run Ø WL 8.0
 Total Depth 3675 Chlorides 1000 ppm System LCM 1 1/2#

Blow Description IF- Built to 3/4"
S11- No return
FF- No Blow
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				<u>100</u>
	<u>oil in the tool</u>				

Rec Total 5 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1766 Test 1300 T-On Location 21:30
 (B) First Initial Flow 17 Jars _____ T-Started 23:21
 (C) First Final Flow 17 Safety Joint _____ T-Open 01:24
 (D) Initial Shut-In 35 Circ Sub N/A T-Pulled 03:24
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 04:58
 (F) Second Final Flow 18 Mileage 92 ¹¹⁵ Comments _____
 (G) Final Shut-In 27 Sampler _____
 (H) Final Hydrostatic 1725 Straddle _____ EM Tool _____
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Sub Total 1415 Total 1415 MP/DST Disc't _____

Approved By _____ Our Representative DUSTIN

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Dustin (785) 656-0962



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67797

Well Name & No. Geist-Tillet Unit C #1-22 Test No. 2 Date 8/17/21
 Company Downing Nelson Oil company Elevation 2364 KB 2356 GL
 Address Po Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery Rig #4
 Location: Sec. 22 Twp 10 Rge. 23 Co. Graham State KS

Interval Tested 3711-3745 Zone Tested LKC "E+F"
 Anchor Length 34 Drill Pipe Run 3666 Mud Wt. 9.2
 Top Packer Depth 3706 Drill Collars Run 31 Vls 54
 Bottom Packer Depth 3711 Wt. Pipe Run Ø WL 8.8
 Total Depth 3745 Chlorides 1# ppm System LCM 1#

Blow Description FE- Built to 9 1/2"
S17- No return
FE- Built to 9 1/4"

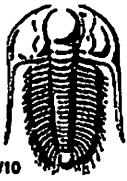
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>60CM</u>	<u>5</u>	<u>15</u>		<u>80</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 45 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1809 Test 1300 T-On Location 15:00
 (B) First Initial Flow 17 Jars _____ T-Started 15:03
 (C) First Final Flow 26 Safety Joint _____ T-Open 17:01
 (D) Initial Shut-In 211 Circ Sub N/A T-Pulled 10:01
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 21:52
 (F) Second Final Flow 30 Mileage 92 115 Comments _____
 (G) Final Shut-In 174 Sampler _____
 (H) Final Hydrostatic 1723 Straddle _____
 EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 45 Sub Total 0
 Initial Shut-In 45 Total 1415
 Final Flow 45 MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1415

Approved By _____ Our Representative DUSTY
 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. 67798

Well Name & No. Geist-Tillet Unit C #1-22 Test No. 3 Date 8/18/24
 Company Downing Nelson Oil company Elevation 2364 KB 2356 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery Rig #4
 Location: Sec. 22 Twp 16 Rge. 23 Co. Graham State KS

Interval Tested 3771-3815 Zone Tested LKC "H+I"
 Anchor Length 44 Drill Pipe Run 3729 Mud Wt. 9.2
 Top Packer Depth 3706 Drill Collars Run 31 Vls 54
 Bottom Packer Depth 3771 Wt. Pipe Run φ WL 8.8
 Total Depth 3815 Chlorides 1800 ppm System LCM 1#

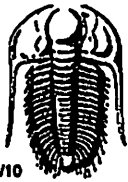
Blow Description 1F- Bob in 3min 45sec. built to 100"
S12- built to 3/4" in 19 min died to 1/4"
FF- Bob in 4 1/2 min built to 94"
S12- built to 2 1/2" died to 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
127	WGOCM	25	20	5	50
122	GOCM	40	20	5	50
63	MCGO	5	80		15
30	GO	10	90		
	2065 GIP				

Rec Total 348 BHT 110 Gravity 43 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 1849 Test 1300 T-On Location 05:20
 (B) First Initial Flow 24 Jars T-Started 05:59
 (C) First Final Flow 90 Safety Joint T-Open 07:45
 (D) Initial Shut-In 910 Circ Sub N/A T-Pulled 10:15
 (E) Second Initial Flow 98 Hourly Standby T-Out 12:47
 (F) Second Final Flow 139 Mileage 92 115 Comments
 (G) Final Shut-In 886 Sampler
 (H) Final Hydrostatic 1769 Straddle EM Tool
 Shale Packer Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Day Standby Sub Total 0
 Accessibility Total 1415
 Sub Total 1415 MP/DST Disc't

Approved By Our Representative Dustan

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67799

Well Name & No. Geist-Tillet Unit C#1-22 Test No. 4 Date 8/18/21
 Company Downing Nelson Oil Company Elevation 2364 KB 2356 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery Rig #4
 Location: Sec. 22 Twp 10 Rge. 23 Co. Graham State K5

Interval Tested 3816-3836 Zone Tested LKC "J"
 Anchor Length 20 Drill Pipe Run 3792 Mud Wt. 9.3
 Top Packer Depth 3811 Drill Collars Run 31 Vls 52
 Bottom Packer Depth 3816 Wt. Pipe Run Ø WL 8.8
 Total Depth 3836 Chlorides 1800 ppm System LCM 73 1/4#

Blow Description IF-BOB in 4 min, built to 69"
S14- No return
FF- BOB in 3 min, built to 45 3/4"
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>		<u>5</u>		<u>95</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	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 109 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm
 (A) Initial Hydrostatic 1883 Test 1300 T-On Location 18:30
 (B) First Initial Flow 13 Jars _____ T-Started 19:29
 (C) First Final Flow 20 Safety Joint _____ T-Open 21:45
 (D) Initial Shut-In 97 Circ Sub N/A T-Pulled 12:15
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 02:02
 (F) Second Final Flow 22 Mileage 92 115+115 Comments released + loaded
 (G) Final Shut-In 89 Sampler _____ 8/19 @ 03:15
 (H) Final Hydrostatic 1837 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1530
 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative DWSTDX

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

Operator Downing-Nelson Oil Co., Inc.		Elevation KB 2364 DF 2362 GL 2356	
Lease Geist-Tillet Unit "C" No. 1-22		Casing Record Surface 8 5/8" @ 222' Production 5 1/2" @ 3933'	
API # 15-065-24202-0000		Electrical Surveys ELI CNDL, DIL, MEL	
Field Connie Lou			
Location 1818' FNL & 2257' FEL			
Sec. 22	Twsp. 10s	Rge. 22w	
County Graham		State Kansas	
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	1895	1895	+469 +3
Base Anhydrite	1935	1942	+422 +3
Topeka	3399	3396	-1032 +5
Heebner	3617	3616	-1252 +4
Toronto	3639	3637	-1273 +3
LKC	3652	3650	-1286 +8
BKC	3876	3874	-1510 +10
Total Depth	3935	3934	-1570
Reference Well For Structural Comparison 2567' FNL & 2130' FEL	Sec. 22-10s-22w	DNOCI - Geist-Tillet Unit #1-22	

Drilling Contractor	Discovery Drilling, Rig #4		
Commenced	8-13-21	Completed	8-19-21
Samples Saved From	3400	To	RTD
Drilling Time Kept From	3300	To	RTD
Samples Examined From	3400	To	RTD
Geological Supervision From	3400	To	RTD

Summary and Recommendations

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

Respectfully Submitted,

Marc A. Downing

ROCK TYPES
 shale, red
 shale, gry
 shale, grn
 Carbon Sh
 Limestone
 Limestone

ACCESSORIES
 DST
 DST Int
 DST alt
 Core
 Tail pipe
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

OTHER SYMBOLS
 DST
 DST Int
 DST alt
 Core
 Tail pipe
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

OIL SHOWS
 Even Stn
 Spotted Stn 50 - 75 %
 Spotted Stn 25 - 50 %
 Questionable Stn
 Head Oil Stn
 Fluorescence

MINERAL
 Chert White

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