

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

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	Mull Drilling Company, Inc.
Well Name	CARTER-JOHNSON 1-1
Doc ID	1645380

All Electric Logs Run

DIL
SONIC
MICROLOG
CNDL





## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

ATTN: Blake Miller

### **Carter-Johnson #1-1**

### **1-16s-27w Lane, KS**

Start Date: 2022.05.12 @ 00:00:00

End Date:

Job Ticket #: 65826

DST #: 1

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

Printed: 2022.05.18 @ 14:02:02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Company

1-16s-27w Lane, KS

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

ATTN: Blake Miller

Job Ticket: 65826

**DST#: 1**

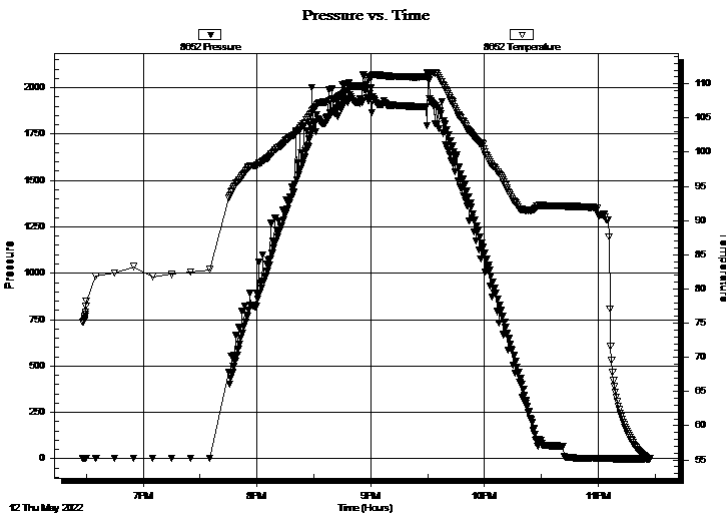
Test Start: 2022.05.12 @ 00:00:00

## GENERAL INFORMATION:

Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
 Interval: **4065.00 ft (KB) To 4135.00 ft (KB) (TVD)**  
 Total Depth: 4135.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition:  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Day  
 Unit No: 70  
 Reference Elevations: 2626.00 ft (KB)  
 2619.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**  
 Press@RunDepth: psig @ 4066.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.05.12 End Date: 2022.05.12 Last Calib.: 2022.05.12  
 Start Time: 18:28:05 End Time: 23:27:14 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packer Failure. tried twice lost mud right away both times



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
140.00	mud 100%	0.87

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mull Drilling Company  
1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206  
ATTN: Blake Miller

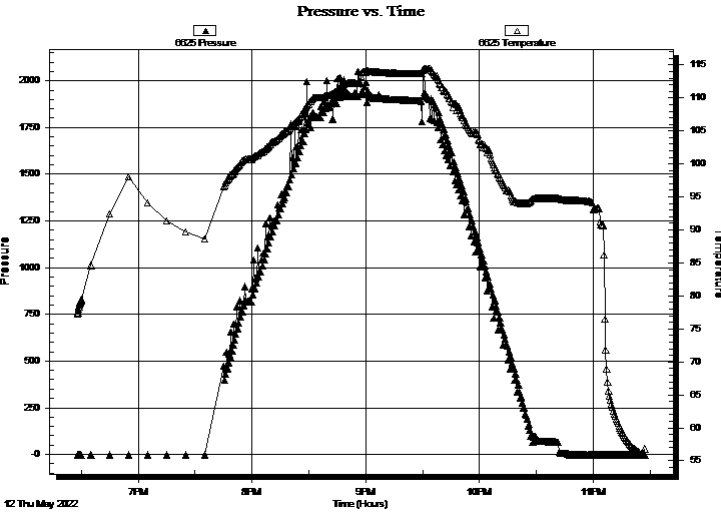
**1-16s-27w Lane, KS**  
**Carter-Johnson #1-1**  
Job Ticket: 65826 **DST#: 1**  
Test Start: 2022.05.12 @ 00:00:00

**GENERAL INFORMATION:**

Formation: **LKC H-J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened:  
Time Test Ended:  
**Interval: 4065.00 ft (KB) To 4135.00 ft (KB) (TVD)**  
Total Depth: 4135.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Day  
Unit No: 70  
Reference Elevations: 2626.00 ft (KB)  
2619.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 6625 Inside**  
Press@RunDepth: psig @ 4066.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.05.12 End Date: 2022.05.12 Last Calib.: 2022.05.12  
Start Time: 18:28:05 End Time: 23:27:14 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** Packer Failure. tried twice lost mud right away both times



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
140.00	mud 100%	0.87

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65826

**DST#: 1**

ATTN: Blake Miller

Test Start: 2022.05.12 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3942.00 ft	Diameter: 3.80 inches	Volume: 55.30 bbl	Tool Weight: 2900.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 55.89 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4065.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4035.00	
shut In Tool	5.00			4040.00	
hydraulic tool	5.00			4045.00	
Jars	5.00			4050.00	
EM Tool	3.00			4053.00	
Safety Joint	3.00			4056.00	
Packer	5.00			4061.00	31.00 Bottom Of Top Packer
Packer	4.00			4065.00	
Stubb	1.00			4066.00	
Recorder	0.00	6625	Inside	4066.00	
Recorder	0.00	8652	Outside	4066.00	
perforations	30.00			4096.00	
change Over Sub	1.00			4097.00	
drill Pipe	32.00			4129.00	
change Over Sub	1.00			4130.00	
perforations	2.00			4132.00	
Bullnose	3.00			4135.00	70.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>101.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65826

**DST#: 1**

ATTN: Blake Miller

Test Start: 2022.05.12 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
140.00	mud 100%	0.871

Total Length: 140.00 ft

Total Volume: 0.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

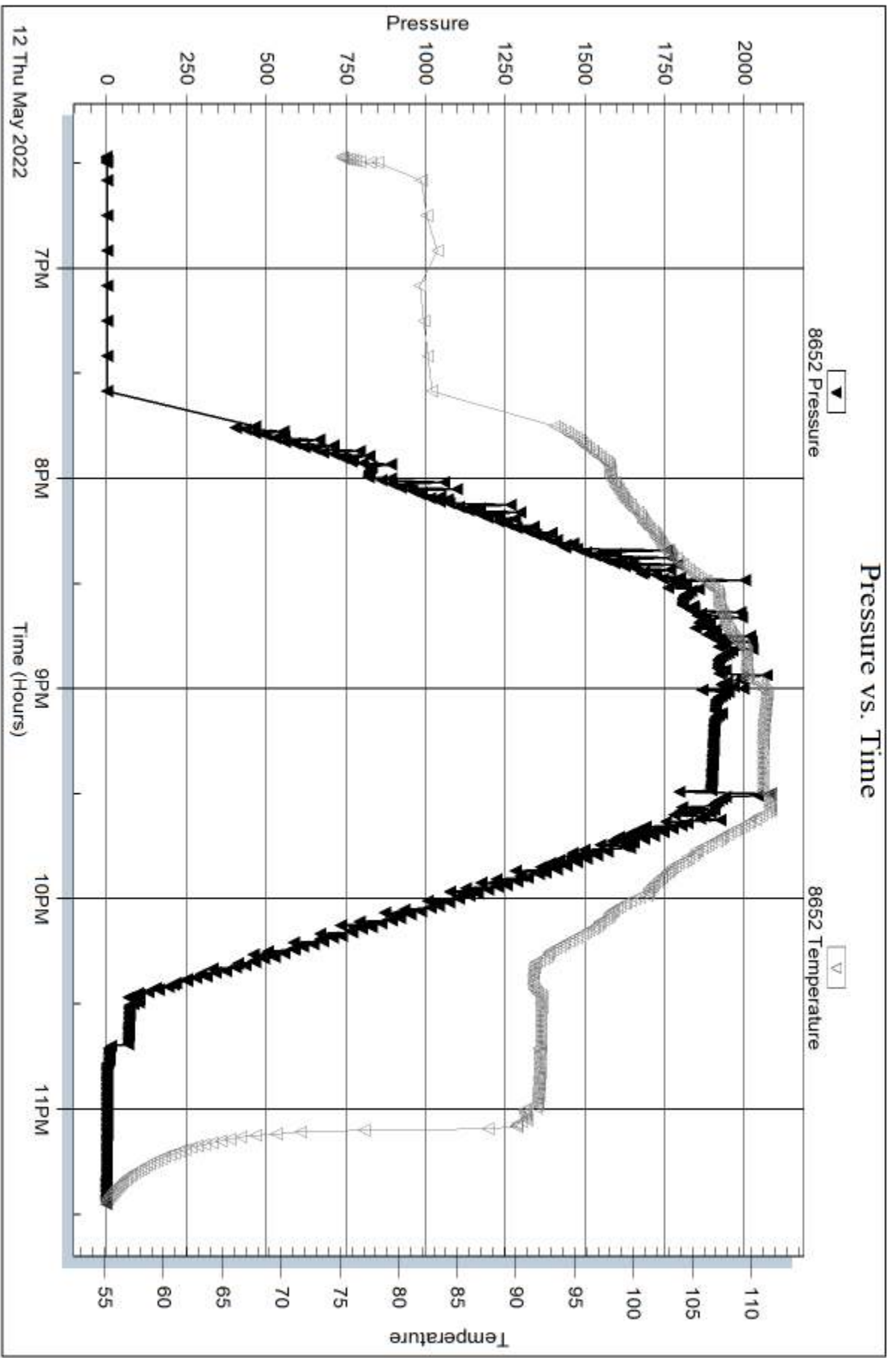
Recovery Comments: 3# LCM

Serial #: 8652

Outside Mall Drilling Company

Carter-Johnson #1-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65826

Printed: 2022.05.18 @ 14:02:04

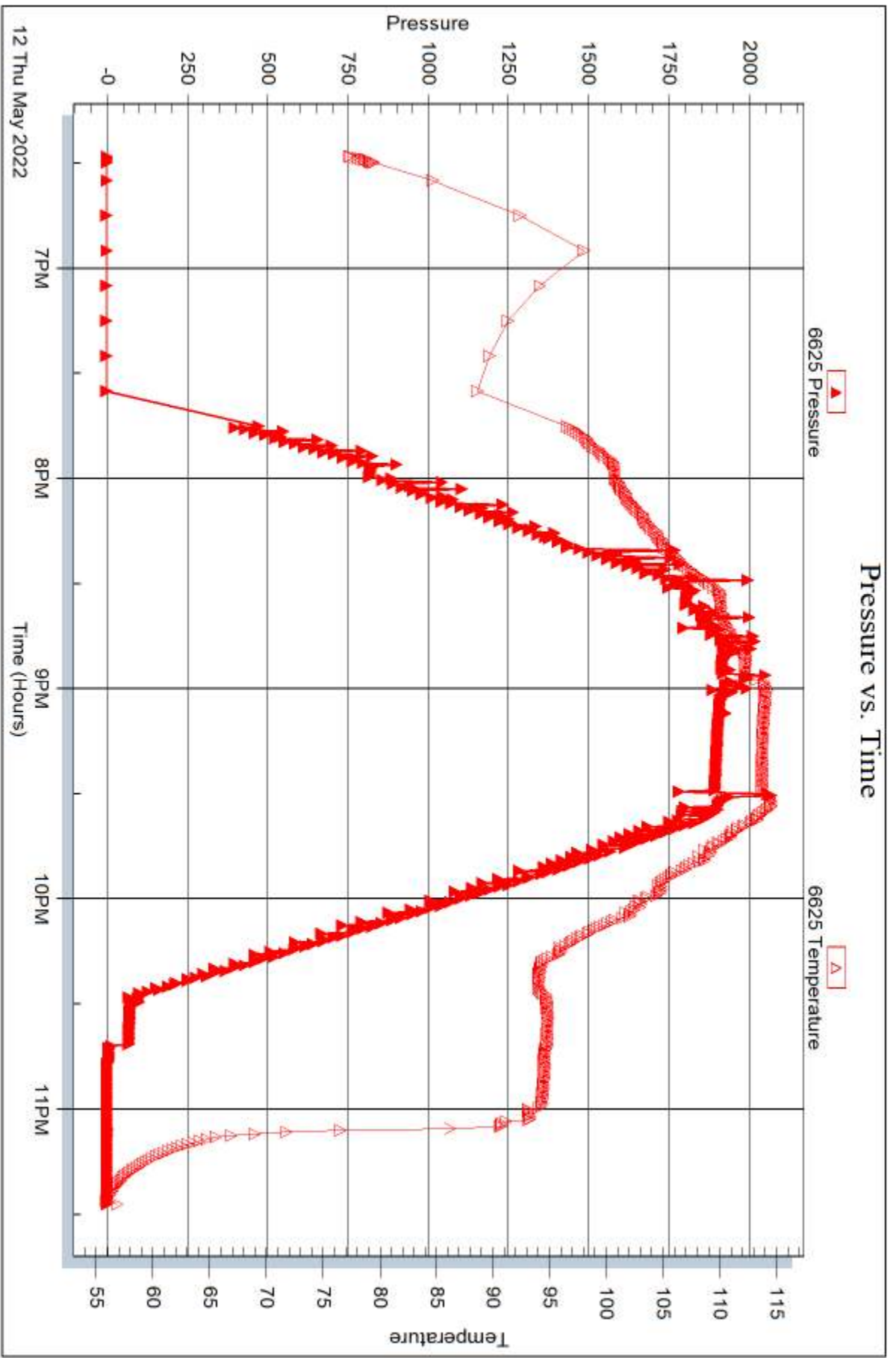
Serial #: 6625

Inside

Mull Drilling Company

Carter-Johnson #1-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

ATTN: Blake Miller

### **Carter-Johnson #1-1**

#### **1-16s-27w Lane, KS**

Start Date: 2022.05.12 @ 23:51:00

End Date: 2022.05.13 @ 08:00:45

Job Ticket #: 65826                      DST #: 2

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

Printed: 2022.05.18 @ 13:55:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Company

1-16s-27w Lane, KS

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

ATTN: Blake Miller

Job Ticket: 65826

**DST#: 2**

Test Start: 2022.05.12 @ 23:51:00

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:59:45

Time Test Ended: 08:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

**Interval: 4044.00 ft (KB) To 4135.00 ft (KB) (TVD)**

Reference Elevations: 2626.00 ft (KB)

Total Depth: 4135.00 ft (KB) (TVD)

2619.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 310.20 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.12

End Date:

2022.05.13

Last Calib.:

2022.05.13

Start Time:

23:51:05

End Time:

08:00:44

Time On Btm:

2022.05.13 @ 01:59:15

Time Off Btm:

2022.05.13 @ 04:45:30

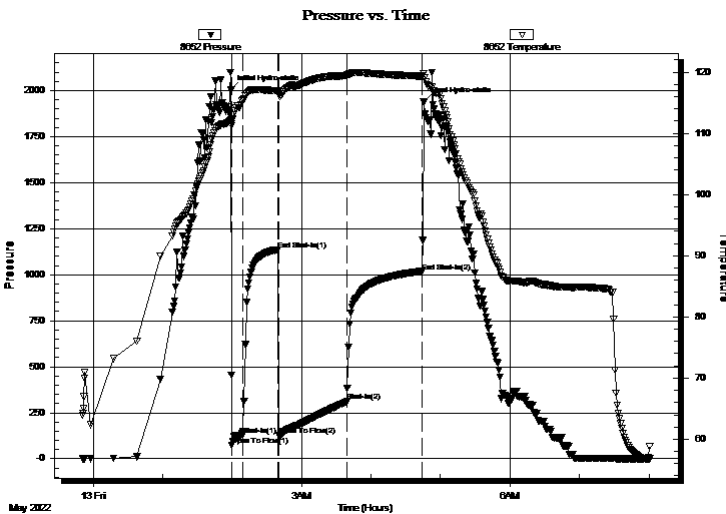
**TEST COMMENT:** IF-10- BOB in 3 min, built to 57"

SI1-30- No return

FF-60- BOB in 2 min, Built to 342", opened choke to 1/8" 30 min, GTS on bleed off

SI2-60- BOB in 4 min, built to 42"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.92	112.18	Initial Hydro-static
1	72.88	111.57	Open To Flow (1)
10	125.90	115.53	Shut-In(1)
41	1136.08	116.92	End Shut-In(1)
41	128.95	116.41	Open To Flow (2)
100	310.20	119.49	Shut-In(2)
165	1017.61	119.36	End Shut-In(2)
167	1937.54	119.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 35% gas 35% oil 30% mud	0.59
504.00	OMG 50% gas 30% oil 20% mud	7.07
219.00	HGCO 25% gas 75% oil	3.07
0.00	GTS	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Company  
 1700 N. Waterfront Pkwy BLDG 1200  
 Wichita, KS 67206  
 ATTN: Blake Miller

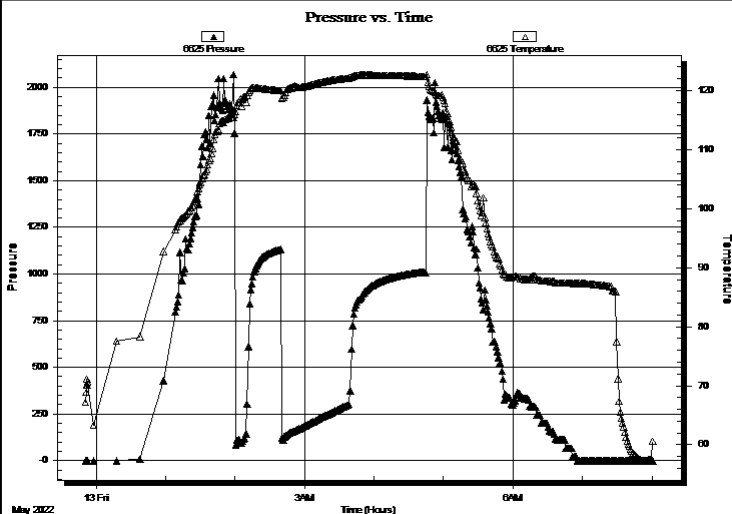
**1-16s-27w Lane, KS**  
**Carter-Johnson #1-1**  
 Job Ticket: 65826      **DST#: 2**  
 Test Start: 2022.05.12 @ 23:51:00

## GENERAL INFORMATION:

Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:59:45  
 Tester: Dustin Day  
 Time Test Ended: 08:00:45  
 Unit No: 70  
**Interval: 4044.00 ft (KB) To 4135.00 ft (KB) (TVD)**  
 Reference Elevations: 2626.00 ft (KB)  
 Total Depth: 4135.00 ft (KB) (TVD)  
 2619.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: KB to GR/CF: 7.00 ft

**Serial #: 6625      Inside**  
 Press@RunDepth: psig @ 4045.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.05.12      End Date: 2022.05.13      Last Calib.: 2022.05.13  
 Start Time: 23:51:05      End Time: 08:00:44      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-10- BOB in 3 min, built to 57"  
 SI1-30- No return  
 FF-60- BOB in 2 min, Built to 342", opened choke to 1/8" 30 min, GTS on bleed off  
 SI2-60- BOB in 4 min, built to 42"



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 35% gas 35% oil 30% mud	0.59
504.00	OMG 50% gas 30% oil 20% mud	7.07
219.00	HGCO 25% gas 75% oil	3.07
0.00	GTS	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**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65826

**DST#: 2**

ATTN: Blake Miller

Test Start: 2022.05.12 @ 23:51:00

## Tool Information

Drill Pipe:	Length: 3911.00 ft	Diameter: 3.80 inches	Volume: 54.86 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 55.45 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4044.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	122.00 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			4014.00	
shut In Tool	5.00			4019.00	
hydraulic tool	5.00			4024.00	
Jars	5.00			4029.00	
EM Tool	3.00			4032.00	
Safety Joint	3.00			4035.00	
Packer	5.00			4040.00	31.00 Bottom Of Top Packer
Packer	4.00			4044.00	
Stubb	1.00			4045.00	
Recorder	0.00	6625	Inside	4045.00	
Recorder	0.00	8652	Outside	4045.00	
perforations	20.00			4065.00	
change Over Sub	1.00			4066.00	
drill Pipe	63.00			4129.00	
change Over Sub	1.00			4130.00	
perforations	2.00			4132.00	
Bullnose	3.00			4135.00	91.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>122.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65826

**DST#: 2**

ATTN: Blake Miller

Test Start: 2022.05.12 @ 23:51:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMO 35% gas 35% oil 30% mud	0.590
504.00	OMG 50% gas 30% oil 20% mud	7.070
219.00	HGCO 25% gas 75% oil	3.072
0.00	GTS	0.000

Total Length: 843.00 ft

Total Volume: 10.732 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

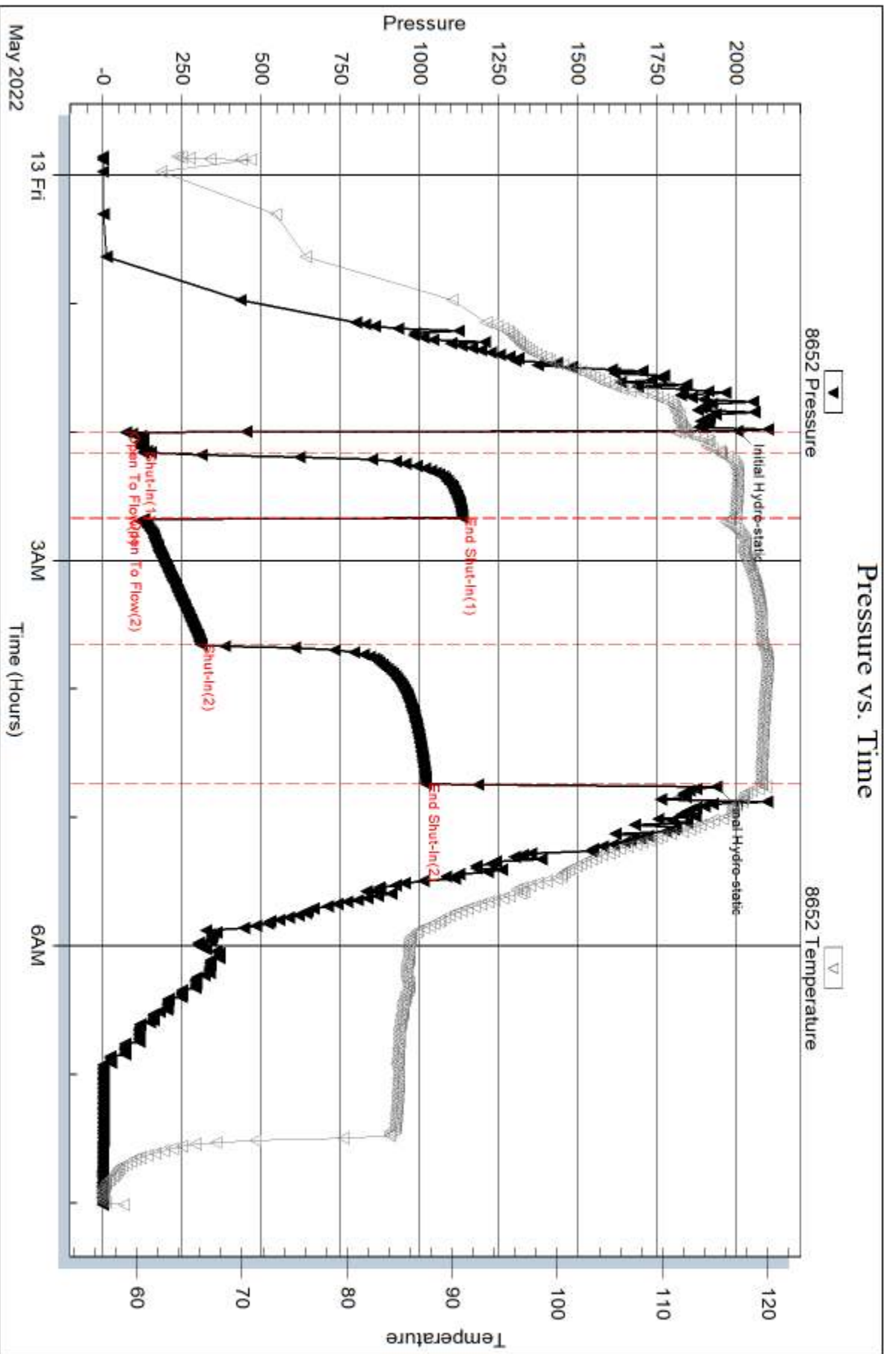
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3# LCM





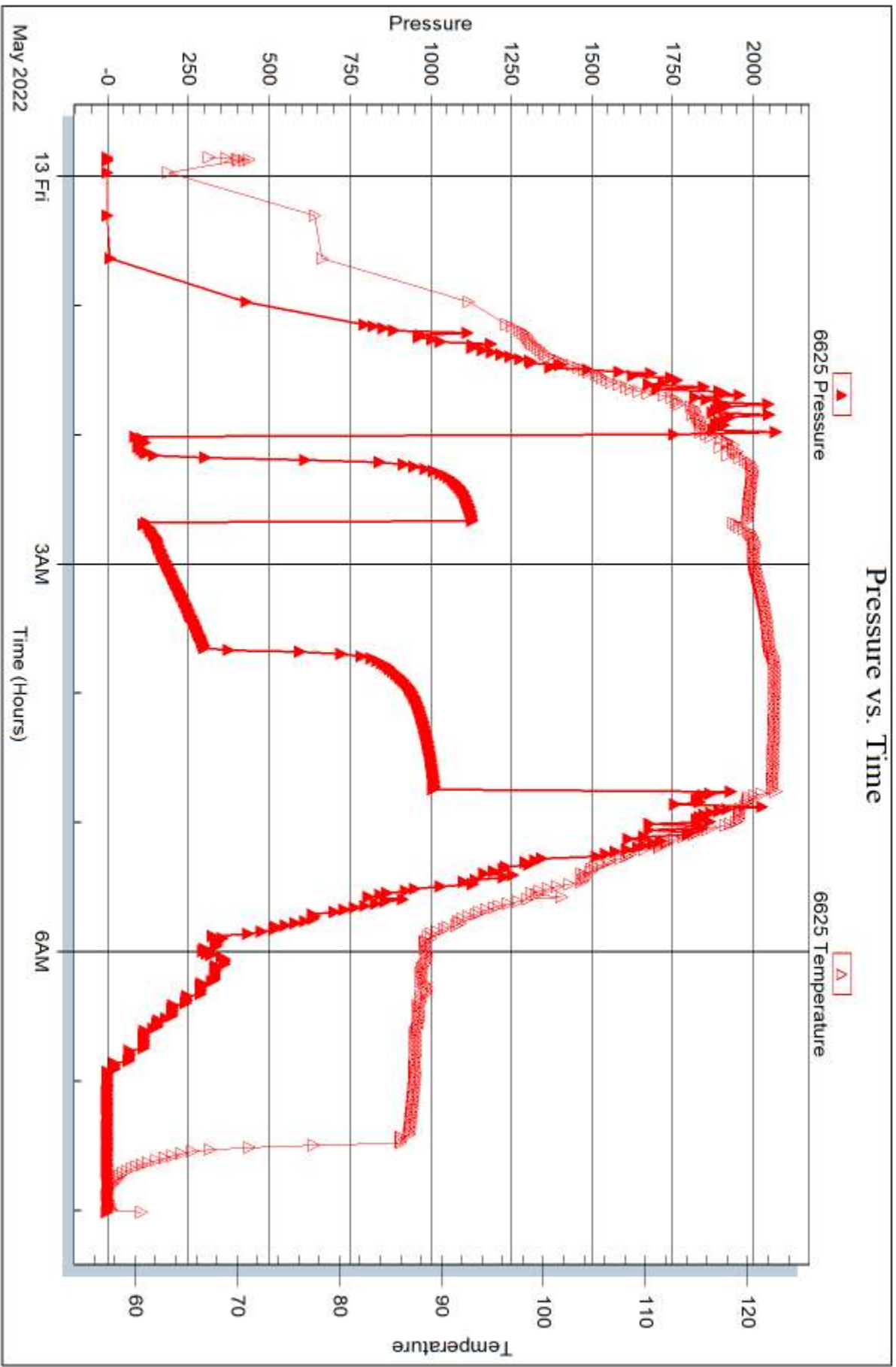
Serial #: 6625

Inside

Mull Drilling Company

Carter-Johnson #1-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65826

Printed: 2022.05.18 @ 13:58:23



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

ATTN: Blake Miller

### **Carter-Johnson #1-1**

#### **1-16s-27w Lane, KS**

Start Date: 2022.05.14 @ 01:19:00

End Date: 2022.05.14 @ 07:28:00

Job Ticket #: 65828                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.18 @ 13:55:06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Company  
1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206  
ATTN: Blake Miller

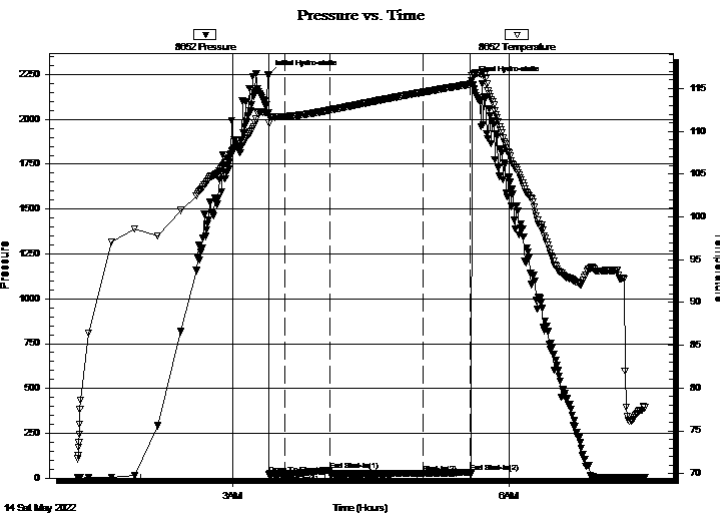
**1-16s-27w Lane, KS**  
**Carter-Johnson #1-1**  
Job Ticket: 65828 **DST#: 3**  
Test Start: 2022.05.14 @ 01:19:00

## GENERAL INFORMATION:

Formation: **FT. Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:23:45  
Time Test Ended: 07:28:00  
Interval: **4375.00 ft (KB) To 4411.00 ft (KB) (TVD)**  
Total Depth: 4411.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Dustin Day  
Unit No: 70  
Reference Elevations: 2626.00 ft (KB)  
2619.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**  
Press@RunDepth: 25.62 psig @ 4376.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.05.14 End Date: 2022.05.14 Last Calib.: 2022.05.14  
Start Time: 01:19:05 End Time: 07:27:59 Time On Btm: 2022.05.14 @ 03:23:30  
Time Off Btm: 2022.05.14 @ 05:35:30

**TEST COMMENT:** IF-10- Weak surface blow  
SI1-30- No return  
FF-60- No blow  
SI2-30- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.00	112.18	Initial Hydro-static
1	22.46	110.97	Open To Flow (1)
11	23.80	111.71	Shut-In(1)
40	43.89	112.47	End Shut-In(1)
40	23.41	112.47	Open To Flow (2)
101	25.62	114.56	Shut-In(2)
131	32.75	115.49	End Shut-In(2)
132	2216.06	116.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spots 100% mud	0.00

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Mull Drilling Company  
 1700 N. Waterfront Pkwy BLDG 1200  
 Wichita, KS 67206  
 ATTN: Blake Miller

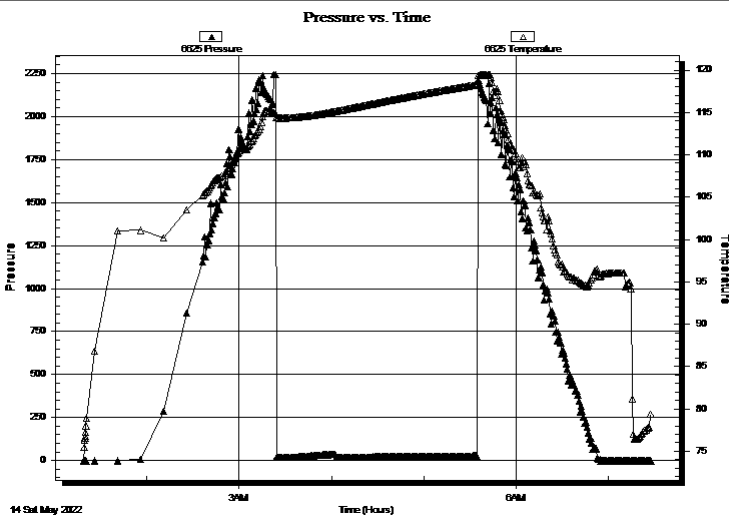
**1-16s-27w Lane, KS**  
**Carter-Johnson #1-1**  
 Job Ticket: 65828 **DST#: 3**  
 Test Start: 2022.05.14 @ 01:19:00

## GENERAL INFORMATION:

Formation: **FT. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 03:23:45  
 Tester: Dustin Day  
 Time Test Ended: 07:28:00  
 Unit No: 70  
**Interval: 4375.00 ft (KB) To 4411.00 ft (KB) (TVD)**  
 Reference Elevations: 2626.00 ft (KB)  
 Total Depth: 4411.00 ft (KB) (TVD)  
 2619.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition:  
 KB to GR/CF: 7.00 ft

**Serial #: 6625** Inside  
 Press@RunDepth: psig @ 4376.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.05.14 End Date: 2022.05.14 Last Calib.: 2022.05.14  
 Start Time: 01:19:05 End Time: 07:27:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-10- Weak surface blow  
 SI1-30- No return  
 FF-60- No blow  
 SI2-30- No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spots 100% mud	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**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65828

**DST#: 3**

ATTN: Blake Miller

Test Start: 2022.05.14 @ 01:19:00

## Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 60.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4375.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	67.00 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			4345.00	
shut In Tool	5.00			4350.00	
hydraulic tool	5.00			4355.00	
Jars	5.00			4360.00	
EM Tool	3.00			4363.00	
Safety Joint	3.00			4366.00	
Packer	5.00			4371.00	31.00 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	6625	Inside	4376.00	
Recorder	0.00	8652	Outside	4376.00	
perforations	32.00			4408.00	
Bullnose	3.00			4411.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65828

**DST#: 3**

ATTN: Blake Miller

Test Start: 2022.05.14 @ 01:19:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w / oil spots 100% mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

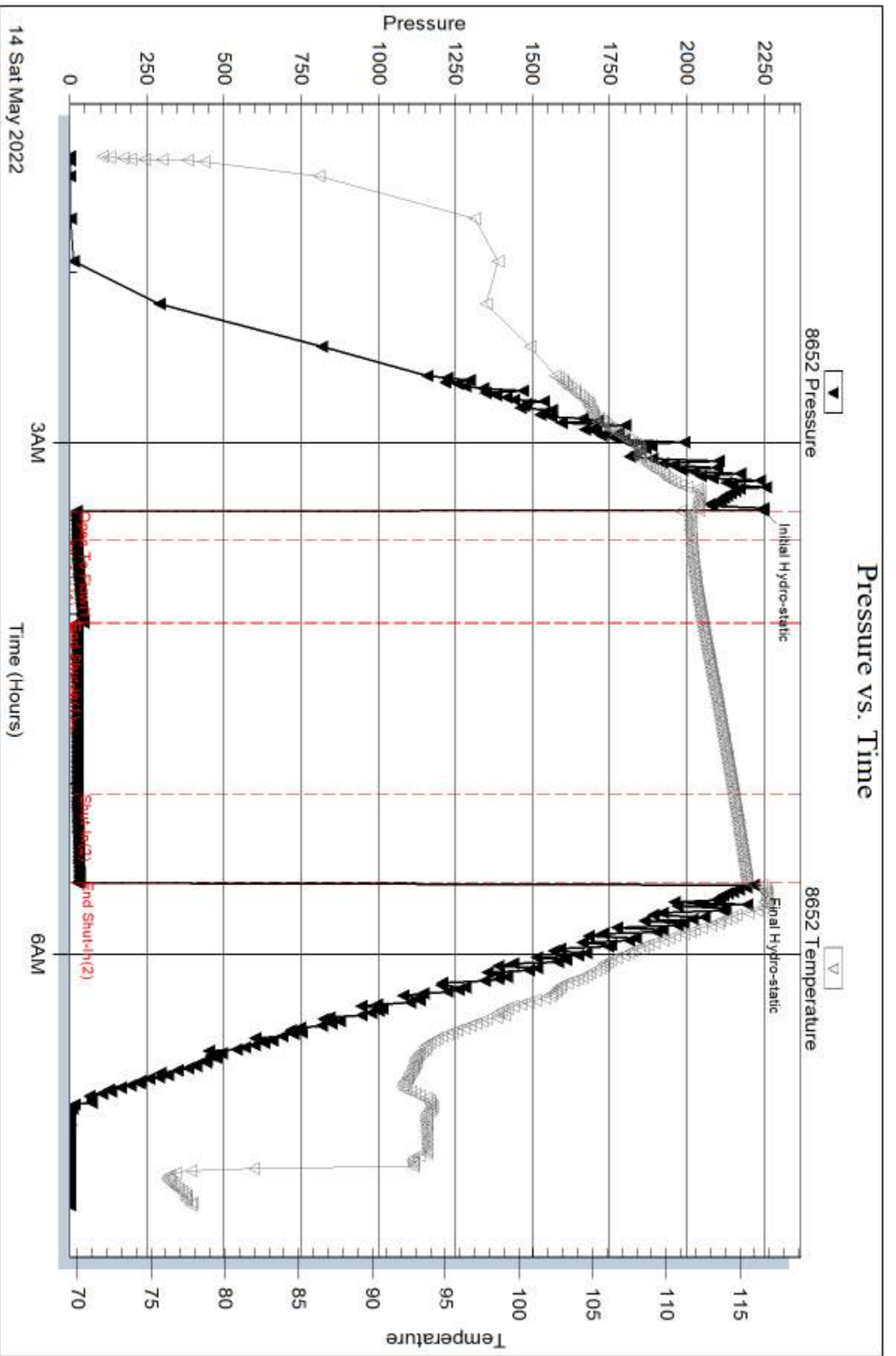
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM





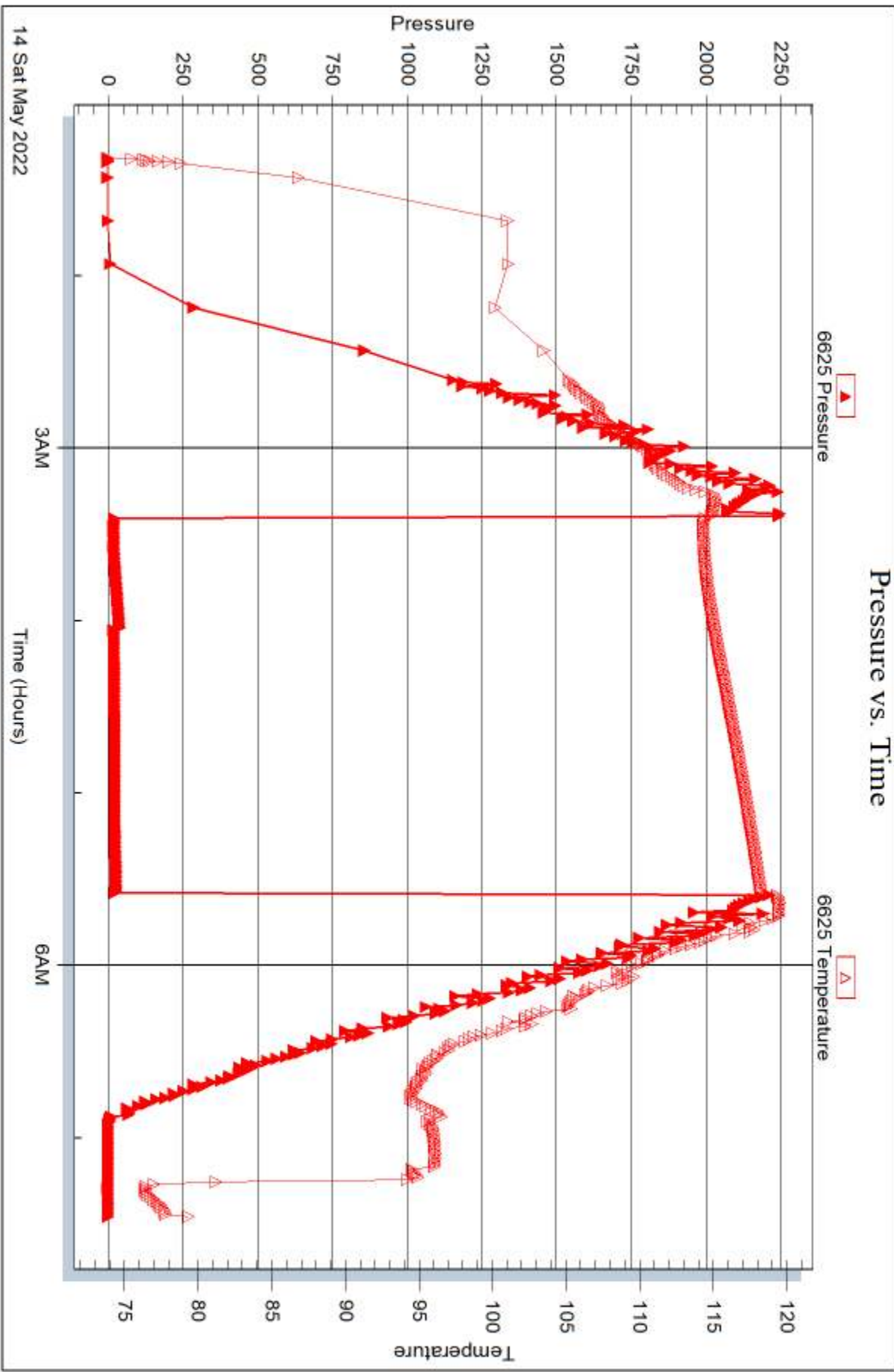
Serial #: 6625

Inside

Mull Drilling Company

Carter-Johnson #1-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65828

Printed: 2022.05.18 @ 13:55:06



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

ATTN: Blake Miller

### **Carter-Johnson #1-1**

#### **1-16s-27w Lane, KS**

Start Date: 2022.05.15 @ 11:44:00

End Date: 2022.05.15 @ 19:33:30

Job Ticket #: 65829                      DST #: 4

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

Printed: 2022.05.18 @ 13:54:06



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Company

1-16s-27w Lane, KS

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

ATTN: Blake Miller

Job Ticket: 65829

**DST#: 4**

Test Start: 2022.05.15 @ 11:44:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:15

Time Test Ended: 19:33:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

**Interval: 4479.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Reference Elevations: 2626.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2619.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 93.59 psig @ 4480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.15 End Date: 2022.05.15

Last Calib.: 2022.05.15

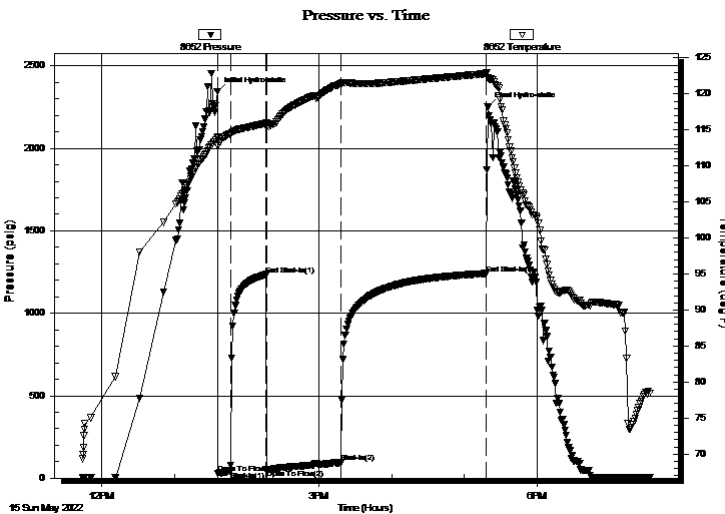
Start Time: 11:44:05 End Time: 19:33:29

Time On Btm: 2022.05.15 @ 13:36:00

Time Off Btm: 2022.05.15 @ 17:19:30

**TEST COMMENT:** IF-10- Built to 3"  
SI1-30- No return  
FF-60- Built to 7 1/2"  
SI2-120- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2345.41	114.07	Initial Hydro-static
1	28.09	112.77	Open To Flow (1)
11	43.53	114.38	Shut-In(1)
40	1234.23	115.98	End Shut-In(1)
41	52.53	115.32	Open To Flow (2)
102	93.59	121.41	Shut-In(2)
222	1241.26	122.81	End Shut-In(2)
224	2251.37	122.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 15% oil 85% mud	0.34
123.00	GO 5% gas 95% oil	1.27
0.00	116 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mull Drilling Company  
 1700 N. Waterfront Pkwy BLDG 1200  
 Wichita, KS 67206  
 ATTN: Blake Miller

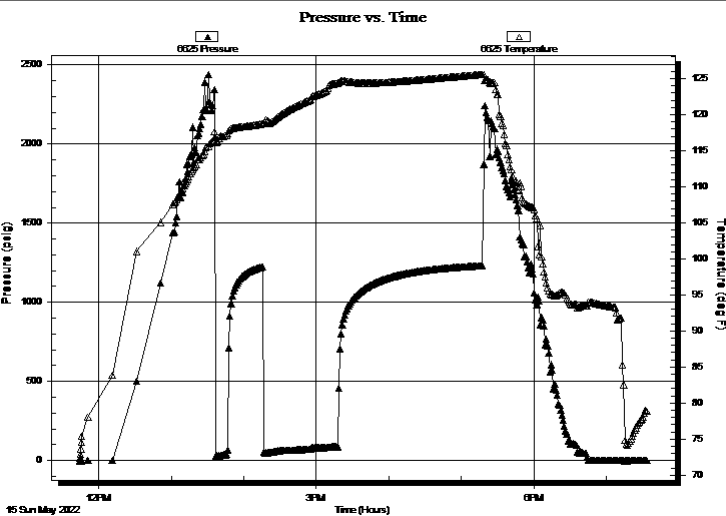
**1-16s-27w Lane, KS**  
**Carter-Johnson #1-1**  
 Job Ticket: 65829 **DST#: 4**  
 Test Start: 2022.05.15 @ 11:44:00

**GENERAL INFORMATION:**

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:36:15 Tester: Dustin Day  
 Time Test Ended: 19:33:30 Unit No: 70  
**Interval: 4479.00 ft (KB) To 4515.00 ft (KB) (TVD)** Reference Elevations: 2626.00 ft (KB)  
 Total Depth: 4515.00 ft (KB) (TVD) 2619.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

**Serial #: 6625** **Inside**  
 Press@RunDepth: psig @ 4480.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.05.15 End Date: 2022.05.15 Last Calib.: 2022.05.15  
 Start Time: 11:44:05 End Time: 19:33:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-10- Built to 3"  
 SI1-30- No return  
 FF-60- Built to 7 1/2"  
 SI2-120- No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
70.00	OCM 15% oil 85% mud	0.34
123.00	GO 5% gas 95% oil	1.27
0.00	116 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**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65829

**DST#: 4**

ATTN: Blake Miller

Test Start: 2022.05.15 @ 11:44:00

## Tool Information

Drill Pipe:	Length: 4351.00 ft	Diameter: 3.80 inches	Volume: 61.03 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 61.62 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4479.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	67.00 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			4449.00	
shut In Tool	5.00			4454.00	
hydraulic tool	5.00			4459.00	
Jars	5.00			4464.00	
EM Tool	3.00			4467.00	
Safety Joint	3.00			4470.00	
Packer	5.00			4475.00	31.00 Bottom Of Top Packer
Packer	4.00			4479.00	
Stubb	1.00			4480.00	
Recorder	0.00	6625	Inside	4480.00	
Recorder	0.00	8652	Outside	4480.00	
perforations	32.00			4512.00	
bullnose	3.00			4515.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company

**1-16s-27w Lane, KS**

1700 N. Waterfront Pkwy BLDG 1200  
Wichita, KS 67206

**Carter-Johnson #1-1**

Job Ticket: 65829

**DST#: 4**

ATTN: Blake Miller

Test Start: 2022.05.15 @ 11:44:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 59.00 sec/qt  
Water Loss: 5.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 39 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OCM 15% oil 85% mud	0.344
123.00	GO 5% gas 95% oil	1.270
0.00	116 GIP	0.000

Total Length: 193.00 ft      Total Volume: 1.614 bbl

Num Fluid Samples: 0

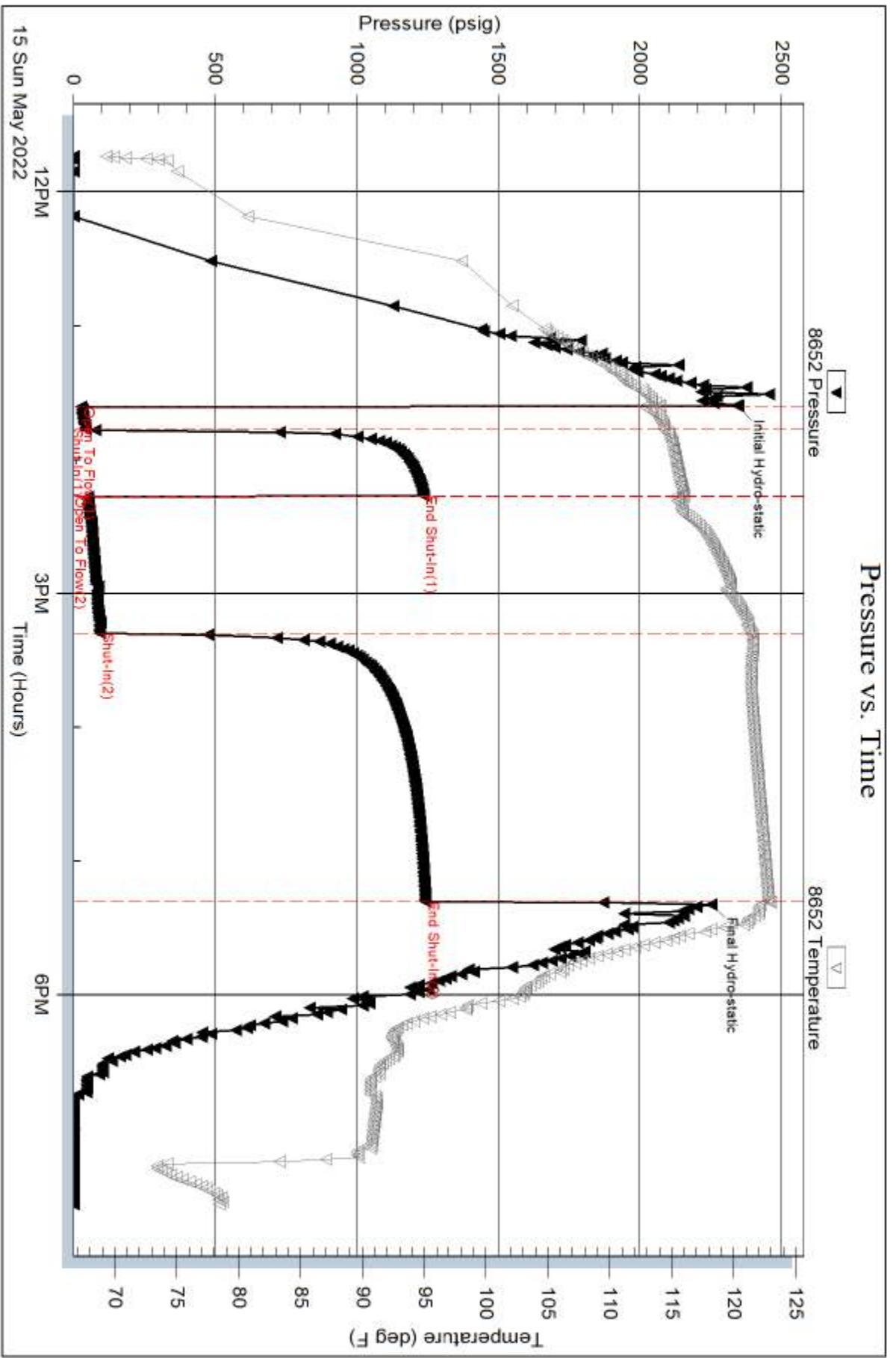
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM



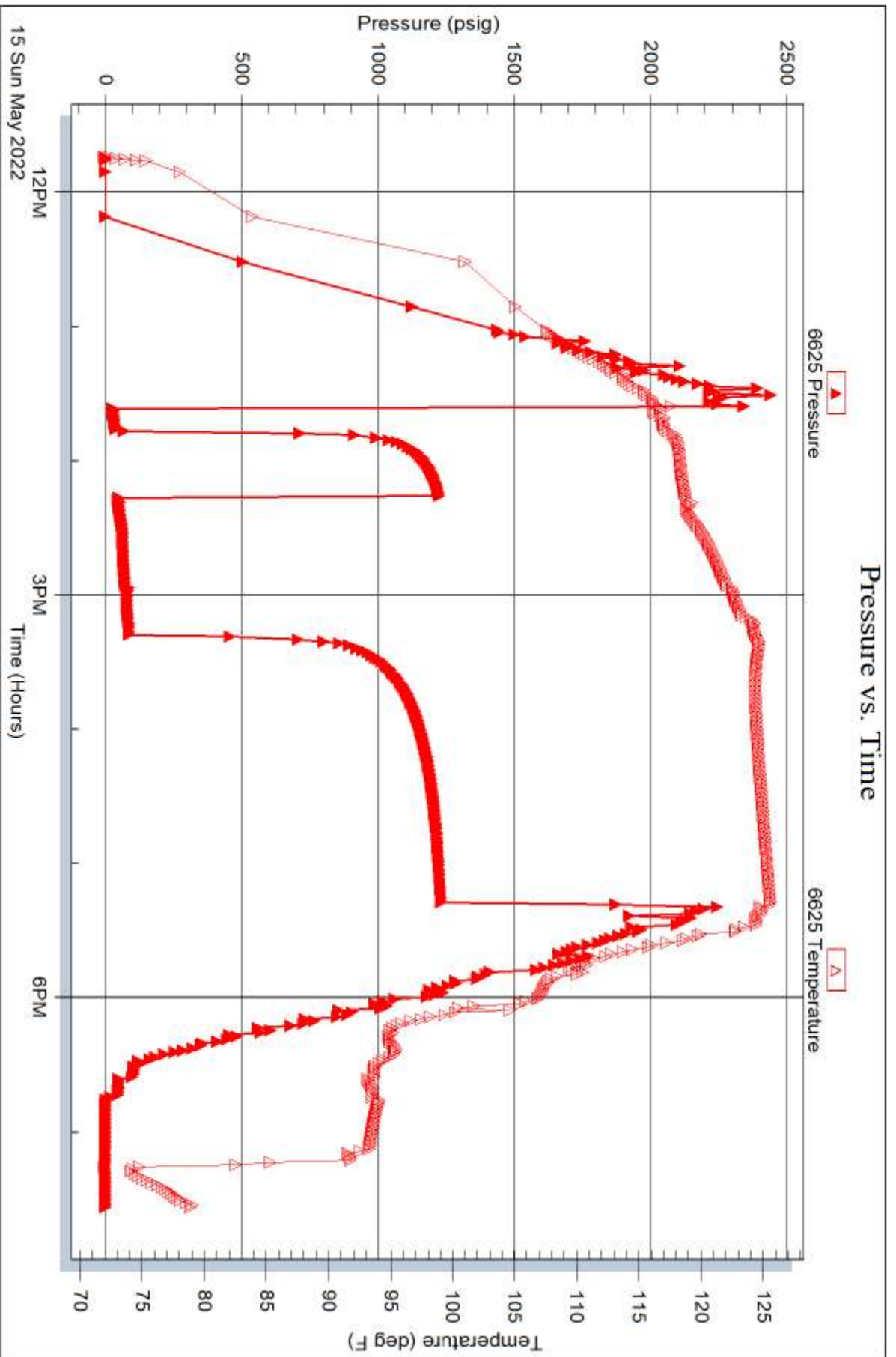
Serial #: 6625

Inside

Mull Drilling Company

Carter-Johnson #1-1

DST Test Number: 4

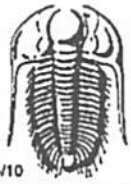


Trilobite Testing, Inc

Ref. No: 65829

Printed: 2022.05.18 @ 13:54:06





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65826

NO.

Well Name & No. Carter-Johnson #1-1 Test No. 1 Date 5/12/22  
 Company Mull Drilling Company Elevation 2626 KB 2619 GL  
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206  
 Co. Rep / Geo. Blake Miller Rig STP Rig #1  
 Location: Sec. 1 Twp 16 Rge. 27 Co. Lane State KS

Interval Tested 4065-4135 Zone Tested LKC H-J  
 Anchor Length 70' Drill Pipe Run 3942 Mud Wt. 9.1  
 Top Packer Depth 4060 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 4065 Wt. Pipe Run Ø WL 5.8  
 Total Depth 4135 Chlorides 1300 ppm System LCM 3#  
 Blow Description Packer Failure. Tried twice lost mud right away.

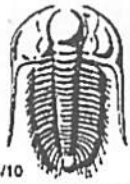
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Mud</u>			<u>100</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1500 T-On Location 17:00  
 (B) First Initial Flow \_\_\_\_\_  Jars 300 T-Started 18:28  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub NA T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 18:28 23:28  
 (F) Second Final Flow \_\_\_\_\_  Mileage 102 153 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  EM Tool 16.01 B# 30 -350  
 Initial Open \_\_\_\_\_  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Sub Total -350  
 Sub Total 1953 Total 1603 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative DUST DG

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 65827

NO.

Well Name & No. Carter-Johnson #1-1 Test No. 2 Date 5/12-13/22  
 Company Mull Drilling Company Elevation 2626 KB 2619 GL  
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206  
 Co. Rep / Geo. Blake Miller Rig STP Rig #1  
 Location: Sec. 1 Twp 11e Rge. 27 Co. Lane State KS

Interval Tested 4044-4135 Zone Tested LKC H-U  
 Anchor Length 91 Drill Pipe Run 3911 Mud Wt. 9.1  
 Top Packer Depth 4039 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 4044 Wt. Pipe Run ∅ WL 5.8  
 Total Depth 4135 Chlorides 1300 ppm System LCM 3#

Blow Description IF-BOB in 3 min, Built to 57"  
S14-NO return

FF- BOB in 2 min, Built to 342" opened choke to 48" 30 min in. GTS @ bleed off

S12-BOB in 4 min, built to 42"

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>GMO</u>	<u>35</u>	<u>35</u>	<u>30</u>	<u>30</u>
<u>504</u>	<u>OMG</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>20</u>
<u>219</u>	<u>HGCO</u>	<u>25</u>	<u>75</u>		
	<u>GTS</u>				

Rec Total 843' BHT 119 Gravity 41 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2004  Test 1950 T-On Location ---  
 (B) First Initial Flow 73  Jars 300 T-Started 23:51  
 (C) First Final Flow 126  Safety Joint --- T-Open 02:00  
 (D) Initial Shut-In 1136  Circ Sub N/A T-Pulled 04:40  
 (E) Second Initial Flow 129  Hourly Standby --- T-Out 08:01  
 (F) Second Final Flow 310  Mileage Stayed on location Comments ---  
 (G) Final Shut-In 1018  Sampler ---  
 (H) Final Hydrostatic 1938  Straddle ---  EM Tool 23.5 B#DZ-03  
 Shale Packer ---  Ruined Shale Packer ---  
 Extra Packer ---  Ruined Packer ---  
 Extra Recorder ---  Extra Copies ---  
 Day Standby --- Sub Total 0  
 Accessibility --- Total 2250  
 Sub Total 2250 MP/DST Disc't ---

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

Approved By \_\_\_\_\_ Our Representative DUST DG

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 65828

NO.

Well Name & No. Carter-Johnson #1-1 Test No. 3 Date 5/14/22  
 Company Mull Drilling Company Elevation 2626 KB 2619 GL  
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206  
 Co. Rep / Geo. Blake Miller Rig STP Rig #1  
 Location: Sec. 1 Twp 16 Rge. 27 Co. Lane State KS

Interval Tested 4375-4411 Zone Tested Fl. Scott  
 Anchor Length 36 Drill Pipe Run 4256 Mud Wt. 9.1  
 Top Packer Depth 4370 Drill Collars Run 120 Vis 66  
 Bottom Packer Depth 4375 Wt. Pipe Run φ WL 5.4  
 Total Depth 4411 Chlorides 2000 ppm System LCM 2#

Blow Description IF-weak surface blow  
SI1-NO return  
FA NO blow  
SI2-NO return

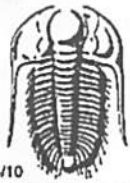
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud w/ oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2247</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>12:45</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>13:19</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>15:24</u>
(D) Initial Shut-In <u>44</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>17:34</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:28</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>102</u> 153	Comments _____
(G) Final Shut-In <u>33</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2216</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>B#30 15.3</u>
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 4.75h</u>	Sub Total <u>158.33</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2561.33</u>
	Sub Total <u>2403</u>	MR/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative DWJ

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.



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 65829

NO.

Well Name & No. Carter-Johnson #1-1 Test No. 4 Date 5/15/22  
 Company Mull Drilling Company Elevation 2626 KB 2619 GL  
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206  
 Co. Rep / Geo. Blake Miller Rig STP Rig #1  
 Location: Sec. 1 Twp 16 Rge. 27 Co. Lane State KS

Interval Tested 4479-4515 Zone Tested MISS  
 Anchor Length 36 Drill Pipe Run 4351 Mud Wt. 9.2  
 Top Packer Depth 4474 Drill Collars Run 120 Vis 51  
 Bottom Packer Depth 4479 Wt. Pipe Run Ø WL 58  
 Total Depth 4515 Chlorides 2000 ppm System LCM 2#

Blow Description IF- Built to 3"  
S12- No return  
FF- Built to 7 1/2"  
S12- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OLM</u>		<u>15</u>	<u>85</u>	
<u>123</u>	<u>60</u>	<u>5</u>	<u>95</u>		
	<u>116' GIP</u>				

Rec Total 193' BHT 122 Gravity 39 API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic 2345  Test 1950 T-On Location 11:40  
 (B) First Initial Flow 28  Jars 300 T-Started 11:44  
 (C) First Final Flow 44  Safety Joint T-Open 13:37  
 (D) Initial Shut-In 1234  Circ Sub 11/4 T-Pulled 17:17  
 (E) Second Initial Flow 53  Hourly Standby T-Out 19:34  
 (F) Second Final Flow 94  Mileage 102x2 153+153 Comments drove back to load  
 (G) Final Shut-In 1241  Sampler @ 22:00 5/15  
 (H) Final Hydrostatic 2251  Straddle EM Tool D2-03 16.25

Initial Open 10  Shale Packer  Ruined Shale Packer  
 Initial Shut-In 30  Extra Packer  Ruined Packer  
 Final Flow 60  Extra Recorder  Extra Copies  
 Final Shut-In 120  Day Standby Sub Total 0  
 Sub Total 2556 Total 2556 MP/DST Disc't

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.



# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

KET NUMBER 0587

LOCATION Hoxey

FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
05-7-22	5144	Carter-Johnson 1-1	1	16	27 W	LANE

CUSTOMER Mall Drilling Company Inc  
 MAILING ADDRESS 1700 W. Main Street P.O. Box 1200  
 CITY Victoria STATE KS ZIP CODE 67206

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom		
102	Jack		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 22.3 CASING SIZE & WEIGHT 8 1/8 23.7  
 CASING DEPTH 221 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.4 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 14 Bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & set up on STP #1. They were circulating.  
Hooked up. Mix 190 in surface bleed & displaced 14 Bbl - shut in 2:30pm  
Cement did circulate

*Thanks Tom & Jack*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P1002	1	PUMP CHARGE <u>Surface</u>	\$1150 <sup>00</sup>	\$1150 <sup>00</sup>
M001	58	MILEAGE	\$6 <sup>50</sup>	\$377 <sup>00</sup>
M002	9.31 tons	Ton Mileage delivery	\$809 <sup>97</sup>	\$809 <sup>97</sup>
C13004	190 gal	Class A 3% @ 2.90 gal	\$24 <sup>50</sup>	\$4655 <sup>00</sup>
			sub total	\$6991 <sup>97</sup>
			less 10% disc.	\$699 <sup>20</sup>
			sub total	\$6292 <sup>77</sup>
			SALES TAX	314.21
			ESTIMATED TOTAL	6606.98

AUTHORIZATION *[Signature]*

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Services, Inc.

CHARGE TO: Well Drilling  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 35420

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Haystack, KS  
 2. Ness City, KS  
 3.  
 4.

WELL/PROJECT NO. 1-1  
 LEASE Carter Johnson  
 COUNTY/PARISH Lane  
 STATE KS  
 CITY Location

TICKET TYPE SALES  
 CONTRACTOR Codel Well Service  
 RIG NAME/NO.  
 SHIPPED VIA CT  
 DELIVERED TO

WELL TYPE Oil  
 WELL CATEGORY Development  
 JOB PURPOSE Perf Collar  
 WELL PERMIT NO.

INVOICE INSTRUCTIONS  
 WELL LOCATION

DATE 06/01/02  
 ORDER NO. Sumc  
 OWNER

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
5775		1			#113	40	mi	7.00	280.00	
576D		1			Pump Charge - Perf Collar	1	EA	1600.00	1600.00	
24B		1			D-Air	3	gal	42.00	126.00	
325-8		2			60/40 Permox (80% Gel)	275	SKS	13.00	3575.00	
276		2			Fluocel	68	lbs	3.00	204.00	
581		2			Service Charge Cement	375	SKS	2.00	750.00	
583		2			Drayage	655.56	TMI	1.00	655.56	
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.					REMIT PAYMENT TO:		SURVEY		PAGE TOTAL	
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.					SWIFT SERVICES, INC.		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		7,190.34	
DATE SIGNED					P.O. BOX 466		WE UNDERSTOOD AND MET YOUR NEEDS?		TOTAL	
TIME SIGNED					NESS CITY, KS 67560		OUR SERVICE WAS PERFORMED WITHOUT DELAY?		7483.44	
<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.					785-798-2300		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES					The customer hereby acknowledges receipt of the materials and services listed on this ticket.		ARE YOU SATISFIED WITH OUR SERVICE?			
SWIFT OPERATOR					APPROVAL		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

SWIFT OPERATOR [Signature] APPROVAL [Signature]  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 06/01/22 PAGE NO. 1

CUSTOMER Mull Drilling WELL NO. 1-1 LEASE Carter Johnson JOB TYPE Port Collar TICKET NO. 35420

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							On location, set up truck.
								2 7/8" x 5 1/2" Port Collar - 2060'
		3 1/2	5			1000		Test Port Collar, Held.
						300		Open P.C., Pump into Hook up to tubing
		3 1/2				300		Start Cement
		3 1/2	6			400		Catch Circulation
		3 1/2	80			500		Cement Circulating, Raise wt.
		3 1/2	90			600		Finish Cement, Start Displacement
		3 1/2	11			750		Finish Disp, Shut Down Shut in
								Close P.C.
						1000		Test P.C., Held
		3 1/2	30					Run 4 J's Reverse Out, 2 Flags, Clean Wash up Back up
	0945							Job Complete
								Thanks Jon, Joe, Isaac
								275 SKS Total 20 SKS to Pit





CHARGE TO: Wall Drilling Co  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 35412

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Hays, KS  
 2. Miss City, KS  
 3.  
 4.

WELL/PROJECT NO. 1-1  
 LEASE Carter-Johnson  
 COUNTY/PARISH Lane  
 STATE KS  
 CITY

TICKET TYPE  SERVICE  
 SALES  
 CONTRACTOR STP Drilling  
 RIG NAME/NO. #1  
 SHIPPED VIA CT  
 DELIVERED TO Location

WELL TYPE Oil  
 WELL CATEGORY Development  
 JOB PURPOSE Long string  
 WELL PERMIT NO.

INVOICE INSTRUCTIONS

DATE 05/17/22 OWNER same  
 ORDER NO.

WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT DF					
575		1		MILEAGE #113	40	mi	7.00	280.00
578		1		Pump Charge - Long string	1	EA	1600.00	1600.00
290		1		B-Air	3	gal	42.00	126.00
403		1		Cement Basket 5 1/2"	1	EA	300.00	300.00
404		1		Port Collar 5 1/2"	1	EA	2500.00	2500.00
406		1		Latch Down Plug + Baffle 5 1/2"	1	EA	250.00	250.00
407		1		Insect Fleat shoe w/blade till 5 1/2"	1	EA	350.00	350.00
409		1		Turbolizer - 5 1/2"	1	EA	180.00	180.00
413		1		Roto Wall Scraper 5 1/2"	1	EA	35.00	35.00
280		1		Flocheel 21	1	gal	350.00	350.00
201		1		Liquid KCL	4	gal	2.50	10.00
419		1		Rotating Head Rental 5 1/2"	1	EA	250.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 DATE SIGNED [Signature] TIME SIGNED MOC  
 A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE 1  
 PAGE TOTAL 15989.98  
 5th total 14977.00  
 TOTAL 15989.98

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR [Signature] APPROVAL  
 Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 35412

CUSTOMER  
Mull Drilling Co

WELL  
Carter Johnson 1-1

DATE  
05/17/2008

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
327		2				50/50 Pozmix (20% Gel)	200	SKS			11.00	2200.00	
283		2				SALT	1000	LBS			0.25	250.00	
292		2				Hard 322	99	LBS			9.00	891.00	
276		2				Flare	50	LBS			3.00	150.00	
582		2				Minimum Drayage Charge			1	EA	350.00	350.00	
581		2				Service Charge Cement			2	EA	2.00	4.00	
MILEAGE TOTAL WEIGHT CHARGE							16	SYN					
LOADED MILES							40						
ORIGINAL TONNAGES							200	SKS					

CONTINUATION TOTAL 4,196.00

JOB LOG

SWIFT Services, Inc.

DATE 05/17/22 PAGE NO. 1

CUSTOMER Mull Drilling Co WELL NO. 1-1 LEASE Carter-Johnson JOB TYPE Long String TICKET NO. 35412

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							On location w/ Float Equipment
								BTD + LTD - 4625'
								110 JTs of 5 1/2" x 14 # set @ 4619'
								Shoe JT - 40'
								Centralizers - 1, 2, 3, 4, 4, 8, 10, 12, 14, 62
								Basket - 63 Btm of,
								Port Collar - Top of 63 @ 2063'
								75' of Scratchers used.
	1025							Start casing w/ Float Equipment
	1250							Break circulation on bottom
	1430							Hook up to Swift
		2	7					Plug Bathole w/ 30 SKS
								Plug Mansehole w/ 15 SKS No Mansehole
		4	15			400		Pump 15 bbl KCL water ahead of
		4	24			400		Pump Flocheck 21
		4	5			400		Pump 5 bbl KCL water behind
		4	10					Start Cement mix @ 14.5 #
	1525	4	40					Finish Cement
		7 1/2						Drop Plug, washout Pump & Lines
		7	90			300		Start Displacement
		6	110			600		Catch Cement
	1555	6	113			1200		Lift
								Land Plug
								Release, Dry
								Wash up
								Rack up
	1625							Job Complete

Thanks  
Jan, Joe, John