

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 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	Mull Drilling Company, Inc.
Well Name	BBT 1-25
Doc ID	1669140

All Electric Logs Run

DUAL INDUCTION
MICRO
CNDL
SONIC

JOB LOG

SWIFT Services, Inc.

DATE 8-9-22 PAGE NO. 1

CUSTOMER Mull WELL NO. 1-25 LEASE B.B.T. JOB TYPE Surface TICKET NO. 34487

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	3:00							ON location 8 5/8" RTD 266'
	4:00							Hooks up to circulate
	4:15	4	5			100		pump 5 BBL H2O
	4:20	4.5	40			200		mix 165 SKS std, 2% gel, 3% CC
	4:35	4.5	0			200		start displacement
			11			200		CMT to surface
			16					KO shut valve + release PSI
	4:45							Wash Truck #712
	5:10							Job complete Thanks! Preston, Kirby, Isaac
								165 SKS used of std, 2% gel, 3% CC 5 SKS top it

FRANKS Oilfield Service

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

TICKET NUMBER 0684

LOCATION Honice
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
8-17-22	5144	BBT 1-25		25	15	27	Gove

CUSTOMER <u>Maill Drilling Company Inc</u>		TRUCK #	
MAILING ADDRESS <u>1700 N Waterfront Phwy Bldg 1200</u>		DRIVER	
CITY <u>Wichita</u>	STATE <u>KS</u>	TRUCK # <u>201</u>	DRIVER <u>Justin P</u>
ZIP CODE <u>67206</u>		TRUCK # <u>102</u>	DRIVER <u>Tom W</u>

JOB TYPE PTA HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2" TUBING _____ OTHER _____
 SLURRY WEIGHT 11.8 SLURRY VOL 2.34 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up in Packerall Drilling. Plug as ordered

- 1 1925' - 50 gr
- 2 900' - 100 gr
- 3 325' 50 gr
- 4 40' 10 gr with wiper plug
- 5 RH 20 gr

240 sy total

Thanks Tom & Preston

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>PL005</u>	<u>1</u>	<u>PUMP CHARGE PTA</u>		
<u>M001</u>	<u>72</u>	<u>MILEAGE</u>		
<u>M002</u>	<u>10.682005</u>			
<u>CB010</u>	<u>240 sy</u>	<u>60/40 990 gal 1/4" 5/8" 9/16"</u>		
<u>FE055</u>	<u>1</u>	<u>8 3/8" wooden plug</u>		
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION _____ 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.



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co, Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Blake Miller

BBT #1-25

25-15s-27w Gove,KS

Start Date: 2022.08.12 @ 06:18:00

End Date: 2022.08.12 @ 14:05:15

Job Ticket #: 68149 DST #: 1

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

Printed: 2022.08.18 @ 11:49:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 68149

DST#: 1

Test Start: 2022.08.12 @ 06:18:00

GENERAL INFORMATION:

Formation: **LKC G - I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:26:15

Time Test Ended: 14:05:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 3896.00 ft (KB) To 3958.00 ft (KB) (TVD)

Reference Elevations: 2458.00 ft (KB)

Total Depth: 3958.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 48.42 psig @ 3897.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.12 End Date: 2022.08.12

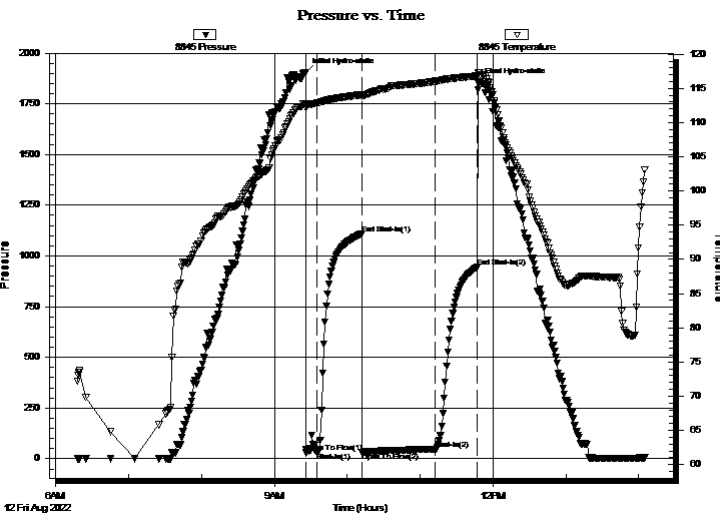
Last Calib.: 2022.08.12

Start Time: 06:18:05 End Time: 14:05:14

Time On Btm: 2022.08.12 @ 09:25:30

Time Off Btm: 2022.08.12 @ 11:48:00

TEST COMMENT: IF: 3/4" blow.
IS: No return.
FF: Surface blow.
FS: No return. 10-30-60-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.88	112.81	Initial Hydro-static
1	29.83	112.55	Open To Flow (1)
10	30.36	112.86	Shut-In(1)
47	1110.60	114.11	End Shut-In(1)
47	33.35	113.83	Open To Flow (2)
107	48.42	116.05	Shut-In(2)
142	944.60	116.83	End Shut-In(2)
143	1855.51	117.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Mud 100m Oil Spots	0.27

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
 1700 N Waterfront Pkwy
 Bldg 1200
 Wichita, KS 67206
 ATTN: Blake Miller

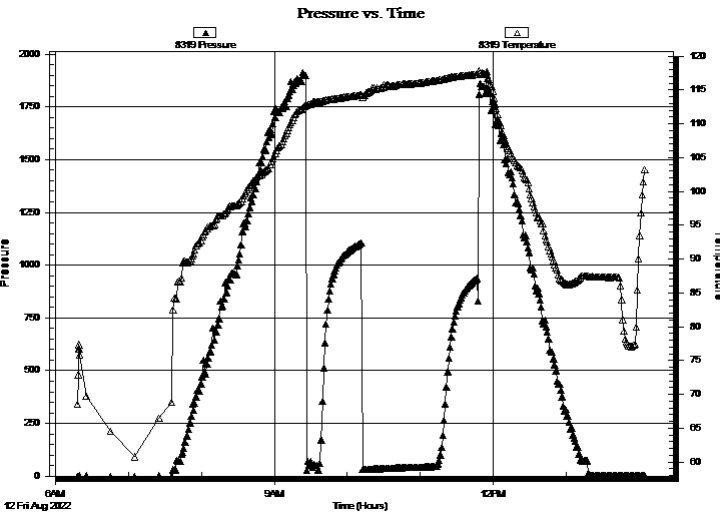
25-15s-27w Gove,KS
BBT #1-25
 Job Ticket: 68149 **DST#: 1**
 Test Start: 2022.08.12 @ 06:18:00

GENERAL INFORMATION:

Formation: **LKC G - I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:26:15
 Time Test Ended: 14:05:15
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
Interval: 3896.00 ft (KB) To 3958.00 ft (KB) (TVD)
 Total Depth: 3958.00 ft (KB) (TVD)
 Reference Elevations: 2458.00 ft (KB)
 2451.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 7.00 ft

Serial #: 8319 Inside
 Press@RunDepth: psig @ 3897.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.12 End Date: 2022.08.12 Last Calib.: 2022.08.12
 Start Time: 06:18:05 End Time: 14:05:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 3/4" blow.
 IS: No return.
 FF: Surface blow.
 FS: No return. 10-30-60-30



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Mud 100m Oil Spots	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 68149

DST#: 1

Test Start: 2022.08.12 @ 06:18:00

Tool Information

Drill Pipe:	Length: 3762.00 ft	Diameter: 3.80 inches	Volume: 52.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 80000.00 lb
			<u>Total Volume: 53.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	3896.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	92.00 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			3867.00	
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
EM Tool	3.00			3885.00	
Safety Joint	2.00			3887.00	
Packer	5.00			3892.00	30.00 Bottom Of Top Packer
Packer	4.00			3896.00	
Stubb	1.00			3897.00	
Recorder	0.00	8319	Inside	3897.00	
Recorder	0.00	8845	Outside	3897.00	
Perforations	25.00			3922.00	
Change Over Sub	1.00			3923.00	
Drill Pipe	31.00			3954.00	
Change Over Sub	1.00			3955.00	
Bullnose	3.00			3958.00	62.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 68149

DST#: 1

Test Start: 2022.08.12 @ 06:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Mud 100m Oil Spots	0.270

Total Length: 55.00 ft Total Volume: 0.270 bbl

Num Fluid Samples: 0

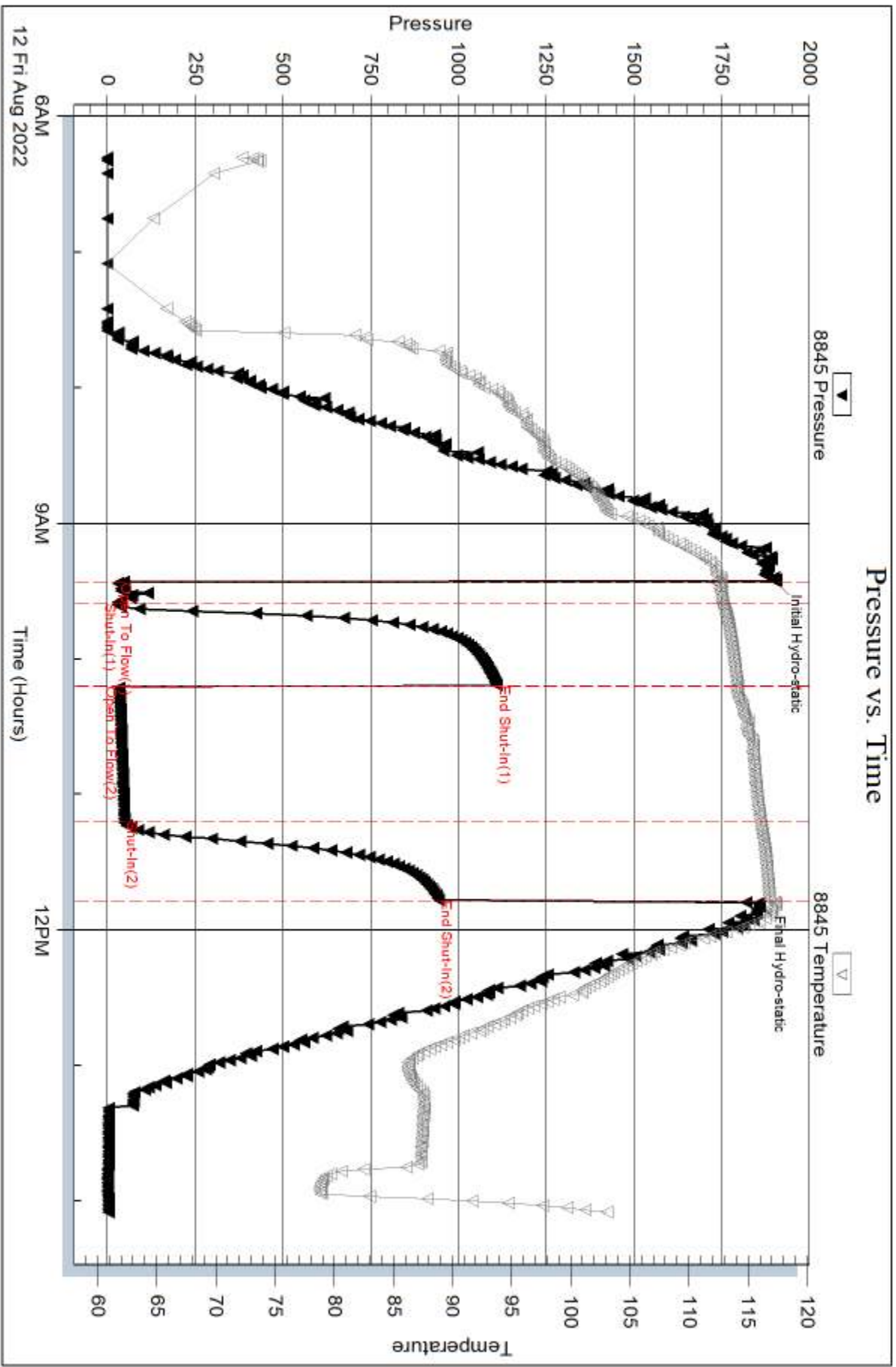
Num Gas Bombs: 0

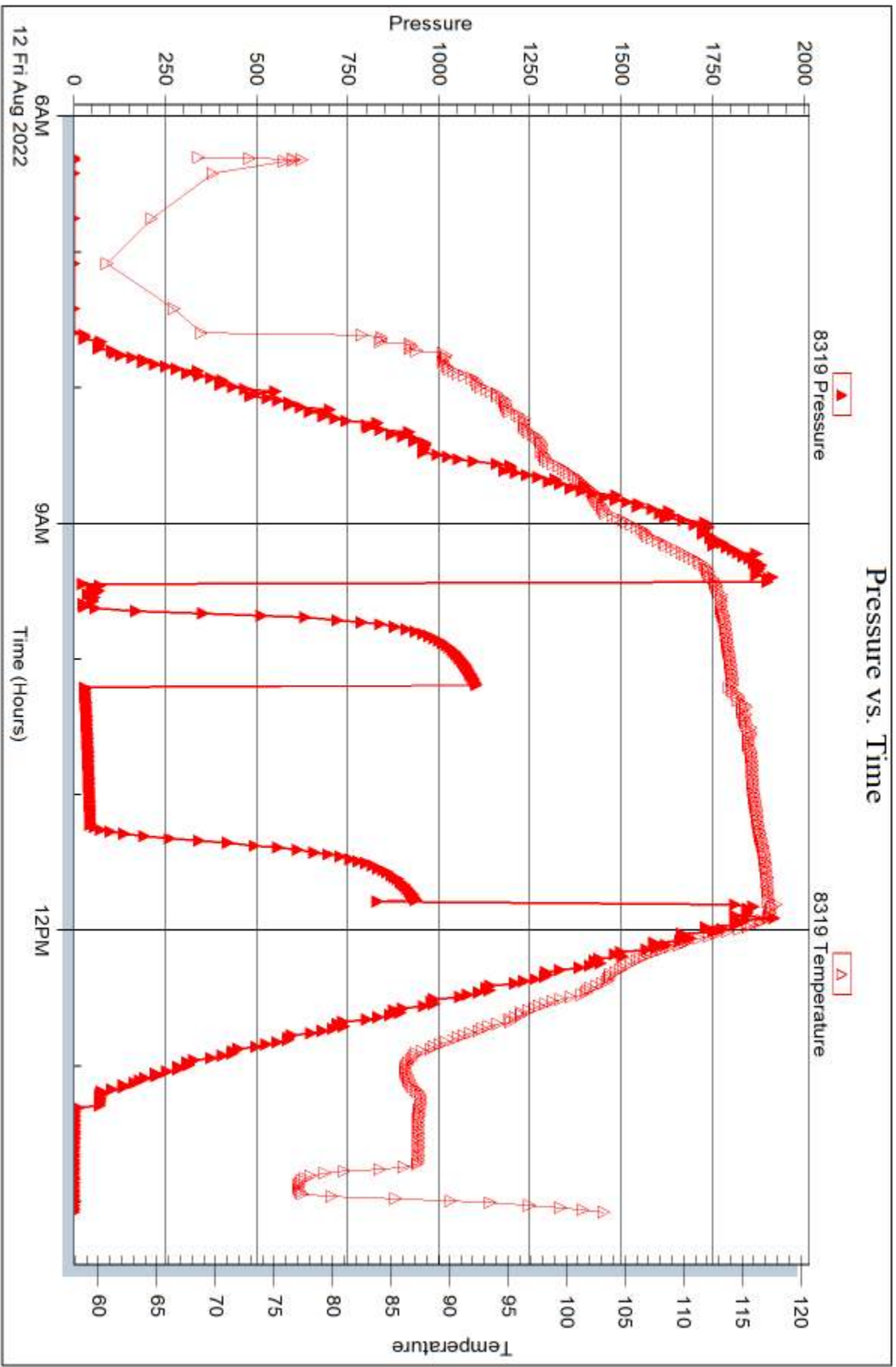
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co, Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Blake Miller

BBT #1-25

25-15s-27w Gove,KS

Start Date: 2022.08.13 @ 03:43:00

End Date: 2022.08.13 @ 12:21:00

Job Ticket #: 68150 DST #: 2

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

Printed: 2022.08.18 @ 11:47:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 68150

DST#: 2

Test Start: 2022.08.13 @ 03:43:00

GENERAL INFORMATION:

Formation: **LKC J - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:29:30

Time Test Ended: 12:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3935.00 ft (KB) To 4044.00 ft (KB) (TVD)

Reference Elevations: 2458.00 ft (KB)

Total Depth: 4044.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8319

Inside

Press@RunDepth: 38.60 psig @ 3936.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.13

End Date:

2022.08.13

Last Calib.: 2022.08.13

Start Time: 03:43:05

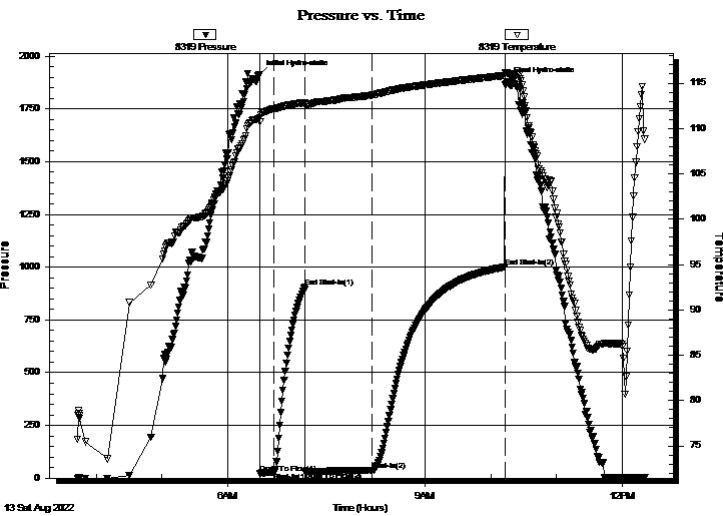
End Time:

12:21:00

Time On Btm: 2022.08.13 @ 06:29:15

Time Off Btm: 2022.08.13 @ 10:15:00

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: 1/4" blow, died @ 20 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.43	111.15	Initial Hydro-static
1	23.44	110.74	Open To Flow (1)
13	27.67	112.17	Shut-In(1)
41	907.68	112.84	End Shut-In(1)
42	30.28	112.59	Open To Flow (2)
103	38.60	113.67	Shut-In(2)
224	1000.64	115.83	End Shut-In(2)
226	1877.26	116.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m Oil Spots	0.12

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 68150

DST#: 2

Test Start: 2022.08.13 @ 03:43:00

GENERAL INFORMATION:

Formation: **LKC J - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:29:30

Time Test Ended: 12:21:00

Interval: 3935.00 ft (KB) To 4044.00 ft (KB) (TVD)

Total Depth: 4044.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 2458.00 ft (KB)

2451.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: psig @ 3936.00 ft (KB)

Start Date: 2022.08.13

End Date: 2022.08.13

Start Time: 03:43:05

End Time: 12:20:45

Capacity: 8000.00 psig

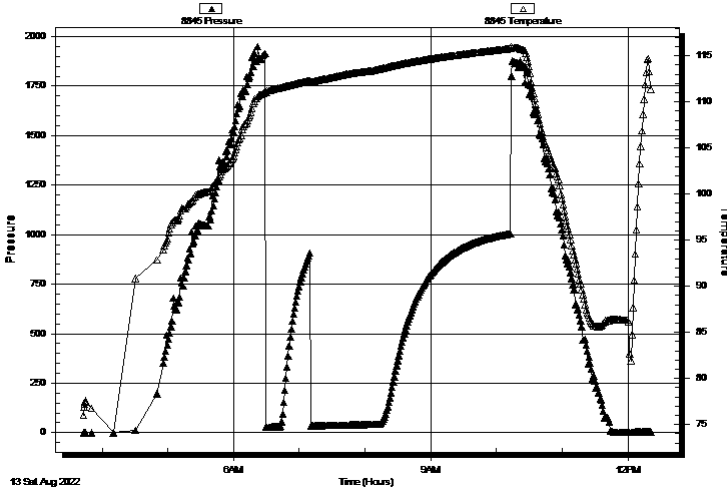
Last Calib.: 2022.08.13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: 1/4" blow, died @ 20 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m Oil Spots	0.12

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 Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 68150

DST#: 2

Test Start: 2022.08.13 @ 03:43:00

Tool Information

Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 80000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3935.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.00 ft			
Tool Length:	139.00 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			3906.00	
Shut In Tool	5.00			3911.00	
Hydraulic tool	5.00			3916.00	
Jars	5.00			3921.00	
EM Tool	3.00			3924.00	
Safety Joint	2.00			3926.00	
Packer	5.00			3931.00	30.00 Bottom Of Top Packer
Packer	4.00			3935.00	
Stubb	1.00			3936.00	
Recorder	0.00	8319	Inside	3936.00	
Recorder	0.00	8845	Outside	3936.00	
Perforations	9.00			3945.00	
Change Over Sub	1.00			3946.00	
Drill Pipe	94.00			4040.00	
Change Over Sub	1.00			4041.00	
Bullnose	3.00			4044.00	109.00 Bottom Packers & Anchor
Total Tool Length:	139.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 68150

DST#: 2

Test Start: 2022.08.13 @ 03:43:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.58 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100m Oil Spots	0.123

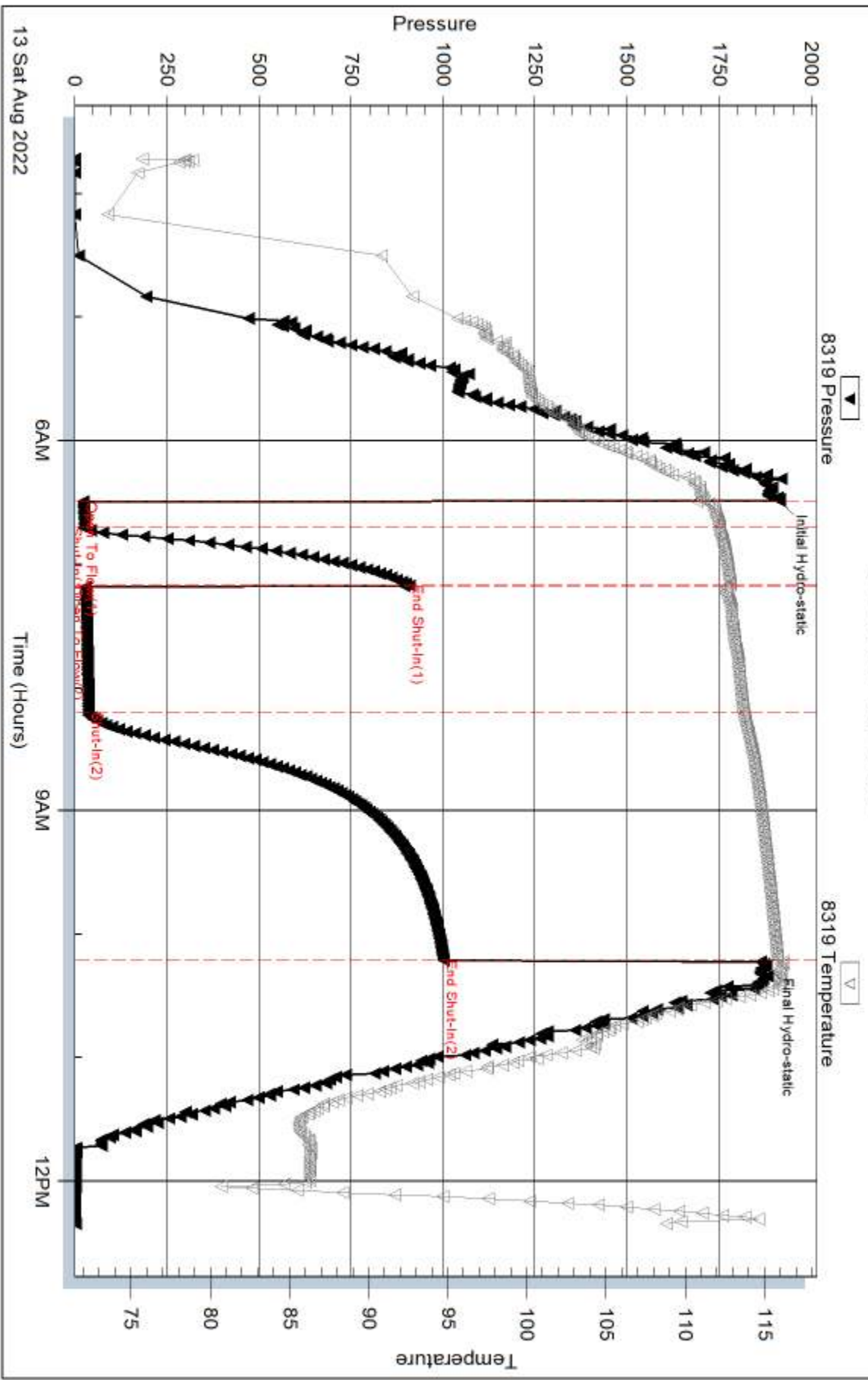
Total Length: 25.00 ft Total Volume: 0.123 bbl

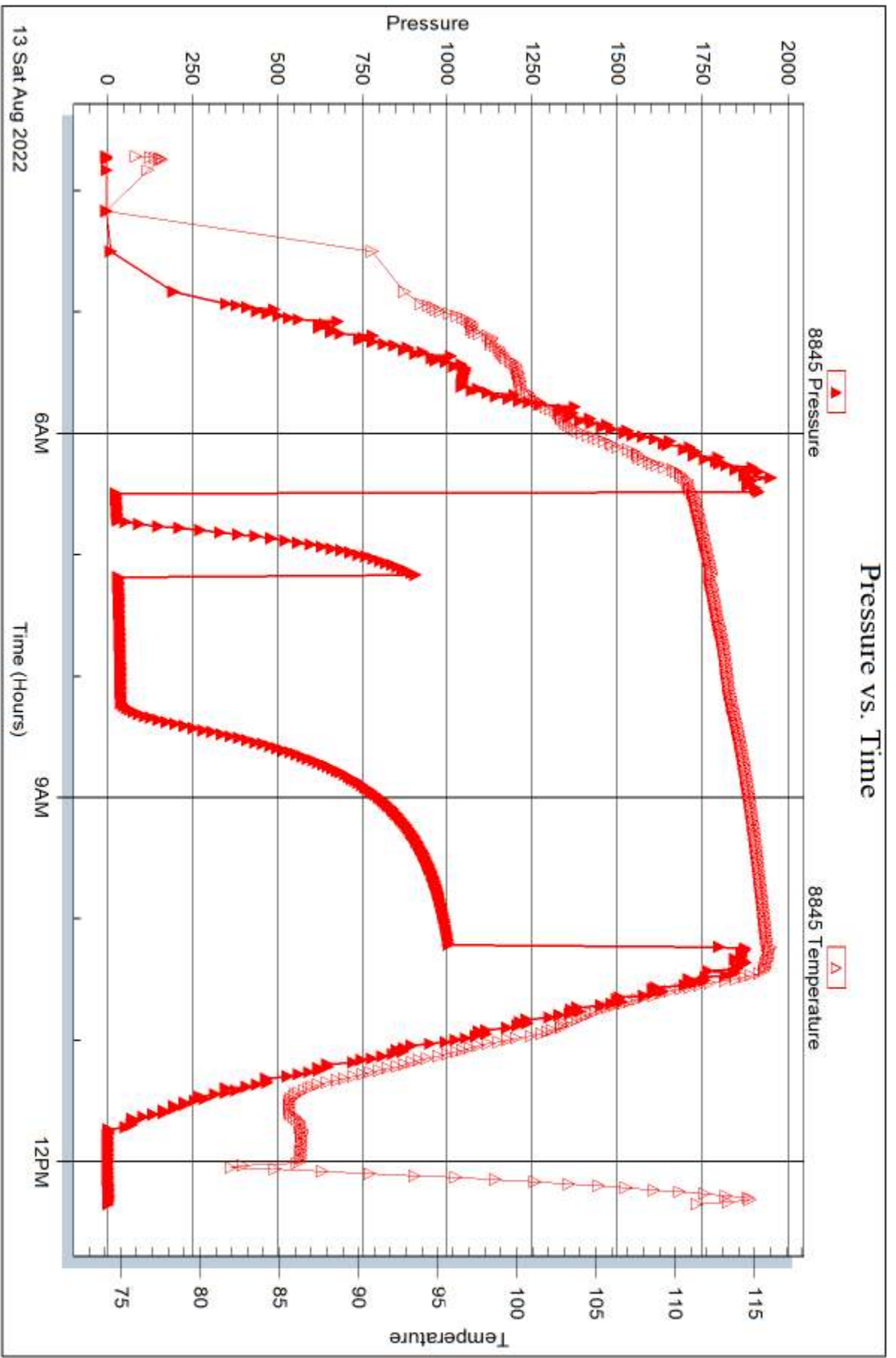
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co, Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Blake Miller

BBT #1-25

25-15s-27w Gove,KS

Start Date: 2022.08.14 @ 02:29:00

End Date: 2022.08.14 @ 09:41:45

Job Ticket #: 69153 DST #: 3

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

Printed: 2022.08.18 @ 11:46:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
 1700 N Waterfront Pkwy
 Bldg 1200
 Wichita, KS 67206
 ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 69153

DST#: 3

Test Start: 2022.08.14 @ 02:29:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:45

Time Test Ended: 09:41:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4184.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 2458.00 ft (KB)

Total Depth: 3958.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 28.38 psig @ 4185.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.14

End Date:

2022.08.14

Last Calib.: 2022.08.14

Start Time: 02:29:05

End Time:

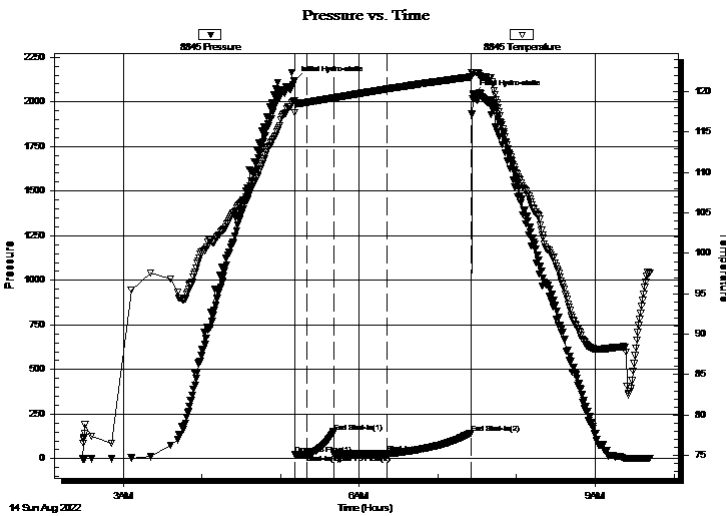
09:41:44

Time On Btm: 2022.08.14 @ 05:10:30

Time Off Btm: 2022.08.14 @ 07:27:00

TEST COMMENT: IF: 1/5" blow,
 IS: No return.
 FF: No blow.
 FS: No return. 10-30-30-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.04	118.90	Initial Hydro-static
1	22.77	117.43	Open To Flow (1)
10	25.45	118.67	Shut-In(1)
30	151.24	119.24	End Shut-In(1)
31	26.93	119.17	Open To Flow (2)
71	28.38	120.32	Shut-In(2)
135	144.24	121.82	End Shut-In(2)
137	2040.02	122.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 69153

DST#: 3

Test Start: 2022.08.14 @ 02:29:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:45

Time Test Ended: 09:41:45

Interval: 4184.00 ft (KB) To 4255.00 ft (KB) (TVD)

Total Depth: 3958.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 2458.00 ft (KB)

2451.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8319 Inside

Press@RunDepth: psig @ 4185.00 ft (KB)

Start Date: 2022.08.14

End Date:

2022.08.14

Start Time: 02:29:05

End Time:

09:41:44

Capacity: 8000.00 psig

Last Calib.:

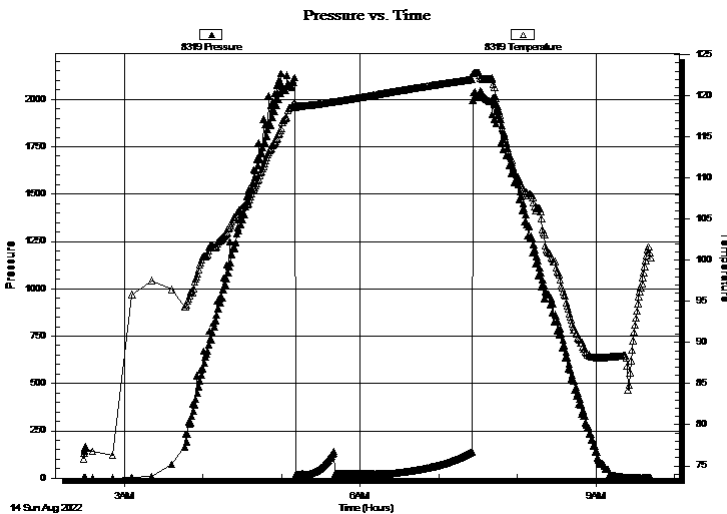
2022.08.14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/5" blow,
IS: No return.
FF: No blow.
FS: No return. 10-30-30-60

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

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 Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69153

DST#: 3

Test Start: 2022.08.14 @ 02:29:00

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 85000.00 lb
			<u>Total Volume: 57.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4184.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	101.00 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			4155.00	
Shut In Tool	5.00			4160.00	
Hydraulic tool	5.00			4165.00	
Jars	5.00			4170.00	
EM Tool	3.00			4173.00	
Safety Joint	2.00			4175.00	
Packer	5.00			4180.00	30.00 Bottom Of Top Packer
Packer	4.00			4184.00	
Stubb	1.00			4185.00	
Recorder	0.00	8319	Inside	4185.00	
Recorder	0.00	8845	Outside	4185.00	
Perforations	34.00			4219.00	
Change Over Sub	1.00			4220.00	
Drill Pipe	31.00			4251.00	
Change Over Sub	1.00			4252.00	
Bullnose	3.00			4255.00	71.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69153

DST#: 3

Test Start: 2022.08.14 @ 02:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

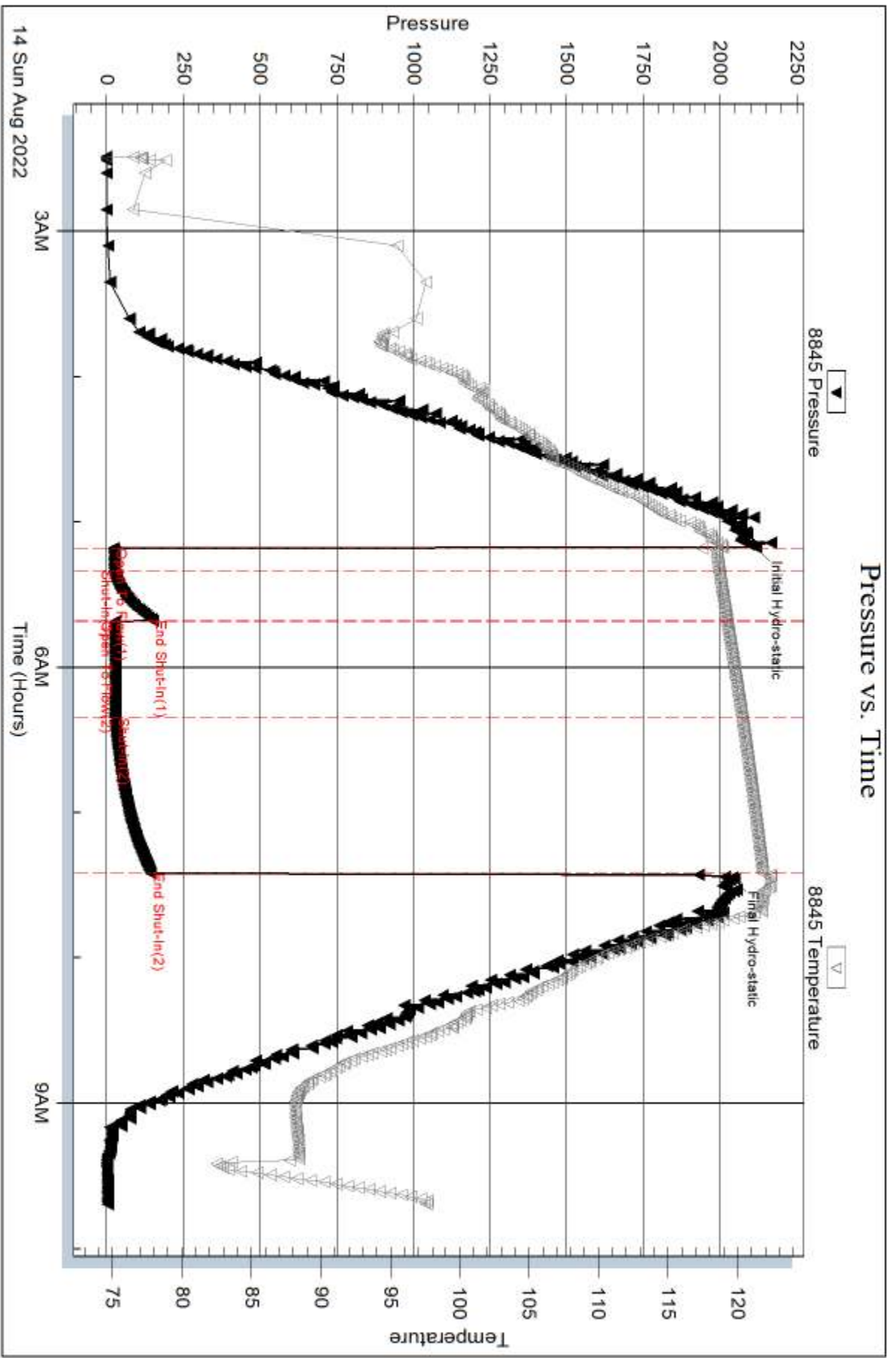
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



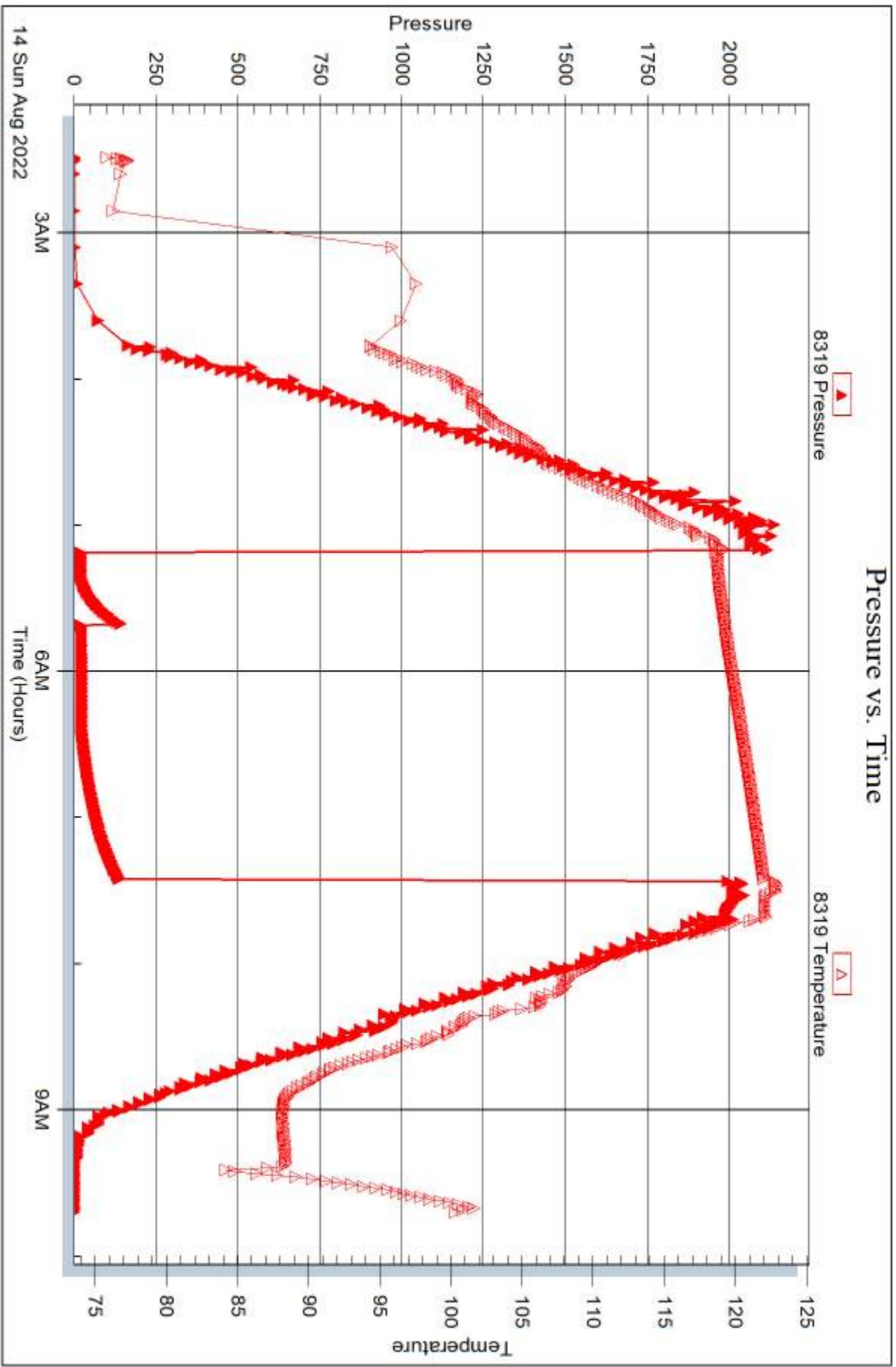
Serial #: 8319

Inside

Mull Drilling Co., Inc.

BBT #1-25

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69153

Printed: 2022.08.18 @ 11:46:05



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co, Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Blake Miller

BBT #1-25

25-15s-27w Gove,KS

Start Date: 2022.08.14 @ 23:43:00

End Date: 2022.08.15 @ 09:03:30

Job Ticket #: 69154 DST #: 4

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

Printed: 2022.08.18 @ 11:45:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 69154

DST#: 4

Test Start: 2022.08.14 @ 23:43:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:27:30
 Time Test Ended: 09:03:30
 Interval: **4277.00 ft (KB) To 4345.00 ft (KB) (TVD)**
 Total Depth: 4345.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2458.00 ft (KB)
 2451.00 ft (CF)
 KB to GR/CF: 7.00 ft

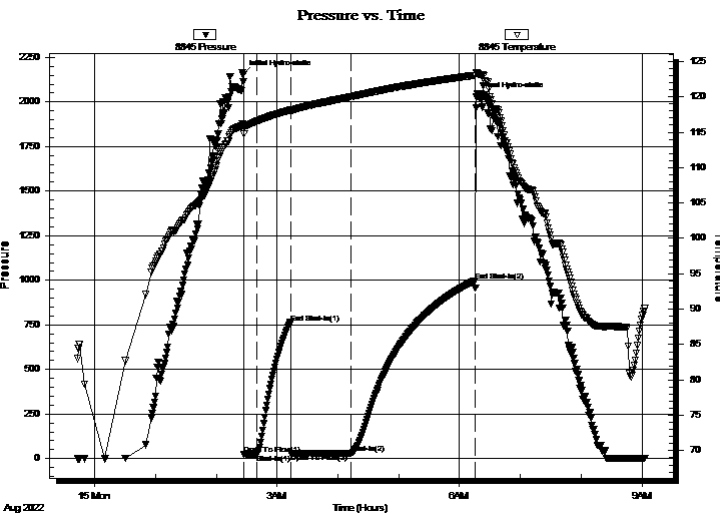
Serial #: 8845

Outside

Press@RunDepth: 30.66 psig @ 4278.00 ft (KB)
 Start Date: 2022.08.14 End Date: 2022.08.15
 Start Time: 23:43:05 End Time: 09:03:30

Capacity: 8000.00 psig
 Last Calib.: 2022.08.15
 Time On Btm: 2022.08.15 @ 02:26:30
 Time Off Btm: 2022.08.15 @ 06:16:15

TEST COMMENT: IF: 1/5" blow .
 IS: No return.
 FF: No blow .
 FS: No return. 10-30-60-120



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.70	116.09	Initial Hydro-static
1	24.92	114.83	Open To Flow (1)
14	26.18	116.55	Shut-In(1)
47	762.79	118.13	End Shut-In(1)
47	27.59	117.96	Open To Flow (2)
107	30.66	120.03	Shut-In(2)
229	996.87	123.04	End Shut-In(2)
230	2029.46	123.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.07

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
 1700 N Waterfront Pkwy
 Bldg 1200
 Wichita, KS 67206
 ATTN: Blake Miller

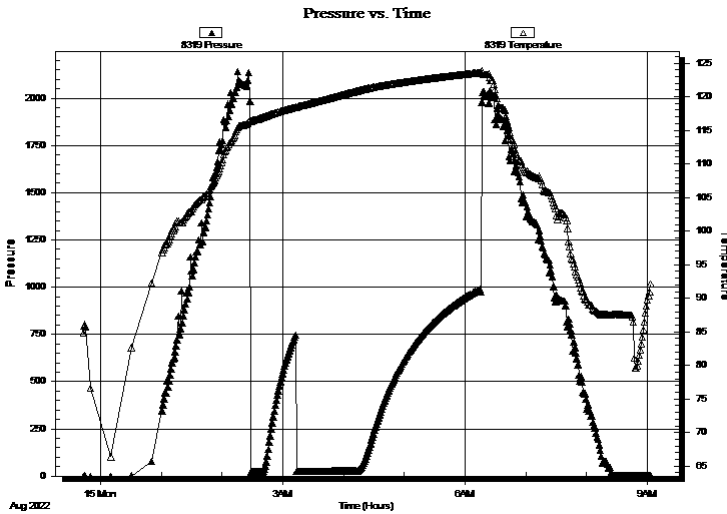
25-15s-27w Gove,KS
BBT #1-25
 Job Ticket: 69154 **DST#: 4**
 Test Start: 2022.08.14 @ 23:43:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:27:30 Tester: Bradley Walter
 Time Test Ended: 09:03:30 Unit No: 78
 Interval: **4277.00 ft (KB) To 4345.00 ft (KB) (TVD)** Reference Elevations: 2458.00 ft (KB)
 Total Depth: 4345.00 ft (KB) (TVD) 2451.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8319 Inside
 Press@RunDepth: psig @ 4278.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.14 End Date: 2022.08.15 Last Calib.: 2022.08.15
 Start Time: 23:43:05 End Time: 09:03:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/5" blow.
 IS: No return.
 FF: No blow.
 FS: No return. 10-30-60-120



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.07

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 Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69154

DST#: 4

Test Start: 2022.08.14 @ 23:43:00

Tool Information

Drill Pipe:	Length: 4141.00 ft	Diameter: 3.80 inches	Volume: 58.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 85000.00 lb
			<u>Total Volume: 58.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4277.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	98.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
EM Tool	3.00			4266.00	
Safety Joint	2.00			4268.00	
Packer	5.00			4273.00	30.00 Bottom Of Top Packer
Packer	4.00			4277.00	
Stubb	1.00			4278.00	
Recorder	0.00	8319	Inside	4278.00	
Recorder	0.00	8845	Outside	4278.00	
Perforations	31.00			4309.00	
Change Over Sub	1.00			4310.00	
Drill Pipe	31.00			4341.00	
Change Over Sub	1.00			4342.00	
Bullnose	3.00			4345.00	68.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69154

DST#: 4

Test Start: 2022.08.14 @ 23:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.49 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (oil spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

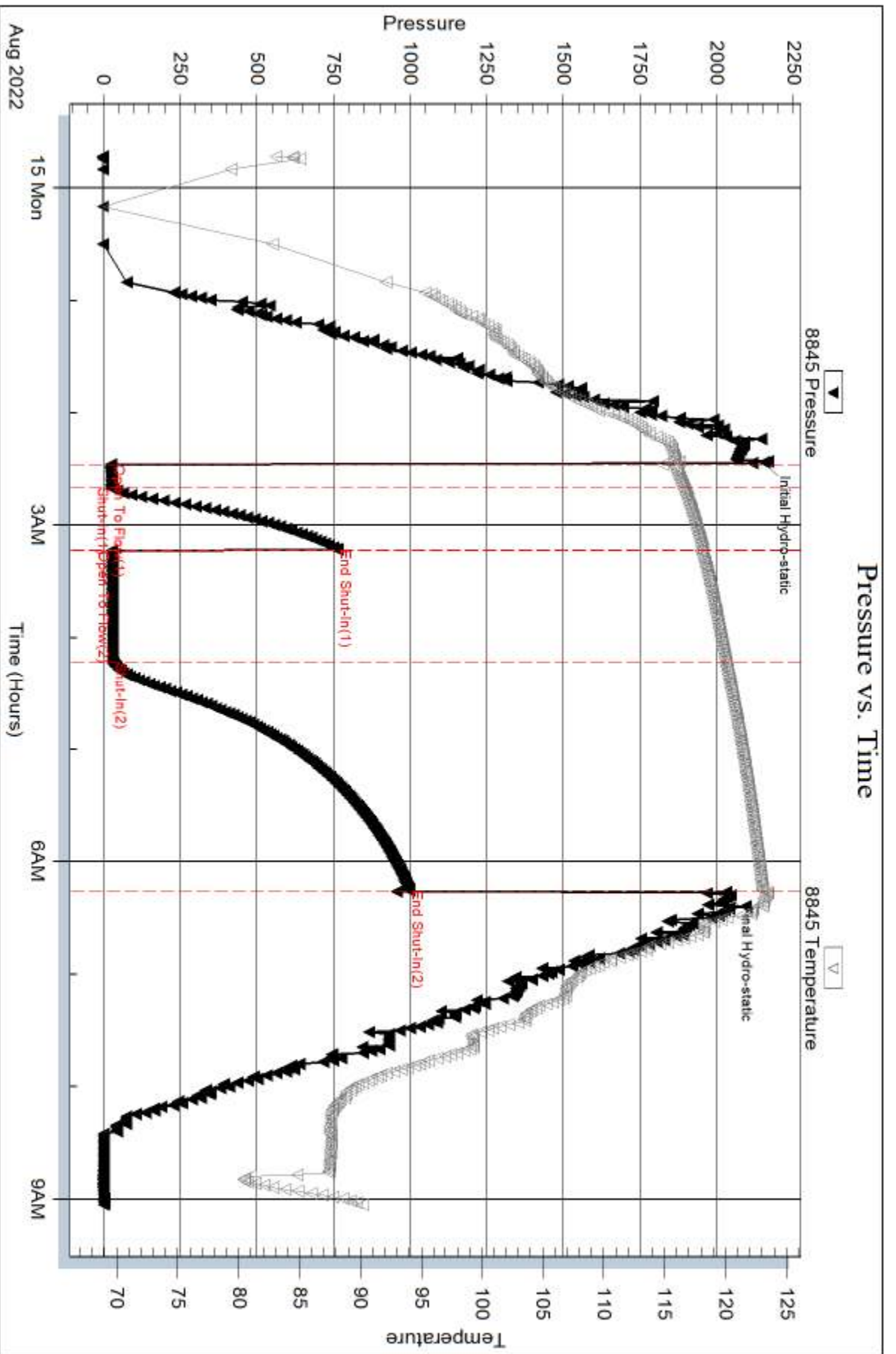
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



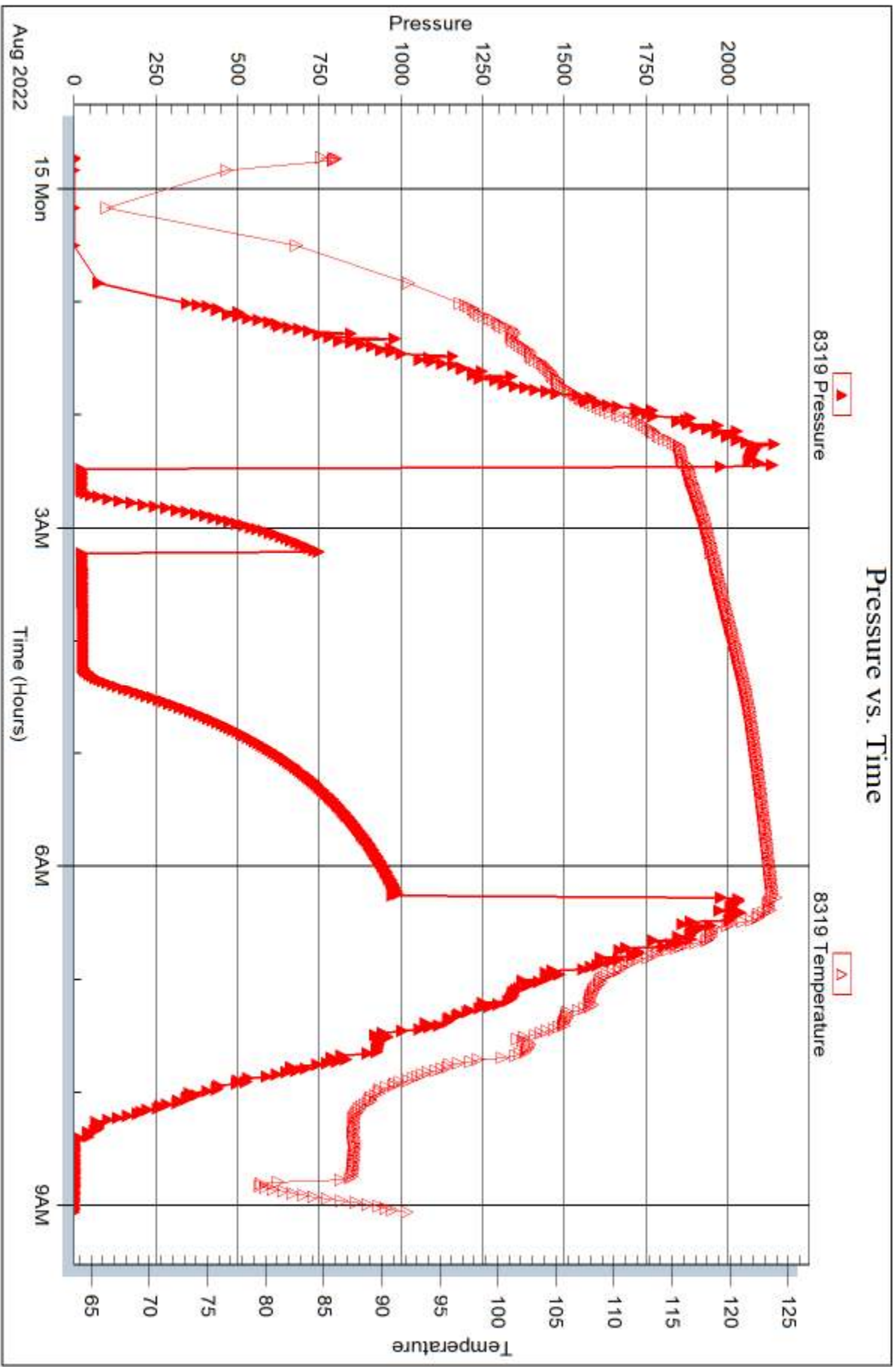
Serial #: 8319

Inside

Mull Drilling Co. Inc.

BBT #1-25

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co, Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Blake Miller

BBT #1-25

25-15s-27w Gove,KS

Start Date: 2022.08.15 @ 18:47:00

End Date: 2022.08.16 @ 02:03:00

Job Ticket #: 69155 DST #: 5

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

Printed: 2022.08.18 @ 11:44:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

25-15s-27w Gove,KS

BBT #1-25

Job Ticket: 69155

DST#: 5

Test Start: 2022.08.15 @ 18:47:00

GENERAL INFORMATION:

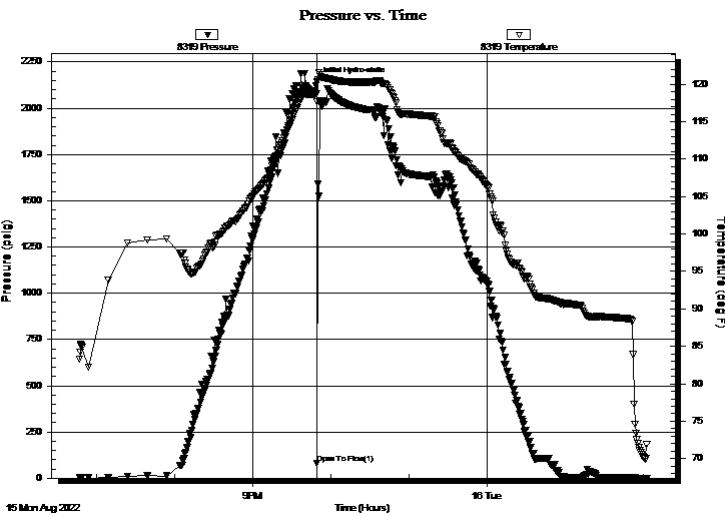
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:49:30
 Time Test Ended: 02:03:00
 Interval: **4327.00 ft (KB) To 4355.00 ft (KB) (TVD)**
 Total Depth: 4355.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2458.00 ft (KB)
 2451.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 4328.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.15 End Date: 2022.08.16 Last Calib.: 2022.08.16
 Start Time: 18:47:05 End Time: 02:02:59 Time On Btm: 2022.08.15 @ 21:49:15
 Time Off Btm:

TEST COMMENT: Packer didnt seat
Misrun



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.22	118.73	Initial Hydro-static
1	79.76	117.66	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud	3.12

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co, Inc.
 1700 N Waterfront Pkwy
 Bldg 1200
 Wichita, KS 67206
 ATTN: Blake Miller

25-15s-27w Gove, KS

BBT #1-25

Job Ticket: 69155

DST#: 5

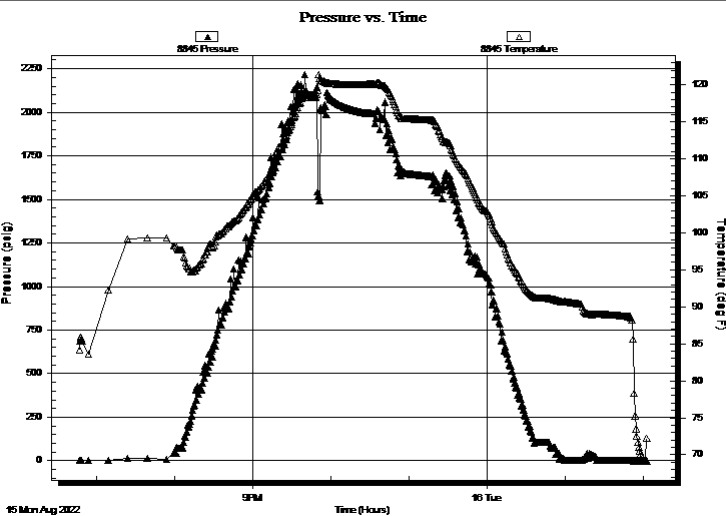
Test Start: 2022.08.15 @ 18:47:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:49:30
 Time Test Ended: 02:03:00
 Interval: **4327.00 ft (KB) To 4355.00 ft (KB) (TVD)**
 Total Depth: 4355.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2458.00 ft (KB)
 2451.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8845 Outside
 Press@RunDepth: psig @ 4328.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.15 End Date: 2022.08.16 Last Calib.: 1899.12.30
 Start Time: 18:47:05 End Time: 02:02:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: Packer didnt seat
 Misrun



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud	3.12

* 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 Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69155

DST#: 5

Test Start: 2022.08.15 @ 18:47:00

Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 85000.00 lb
			<u>Total Volume: 59.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4327.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	58.00 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			4298.00	
Shut In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Jars	5.00			4313.00	
EM Tool	3.00			4316.00	
Safety Joint	2.00			4318.00	
Packer	5.00			4323.00	30.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	8319	Inside	4328.00	
Recorder	0.00	8845	Outside	4328.00	
Perforations	24.00			4352.00	
Bullnose	3.00			4355.00	28.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc.

25-15s-27w Gove,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Blake Miller

BBT #1-25

Job Ticket: 69155

DST#: 5

Test Start: 2022.08.15 @ 18:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	mud	3.115

Total Length: 300.00 ft Total Volume: 3.115 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

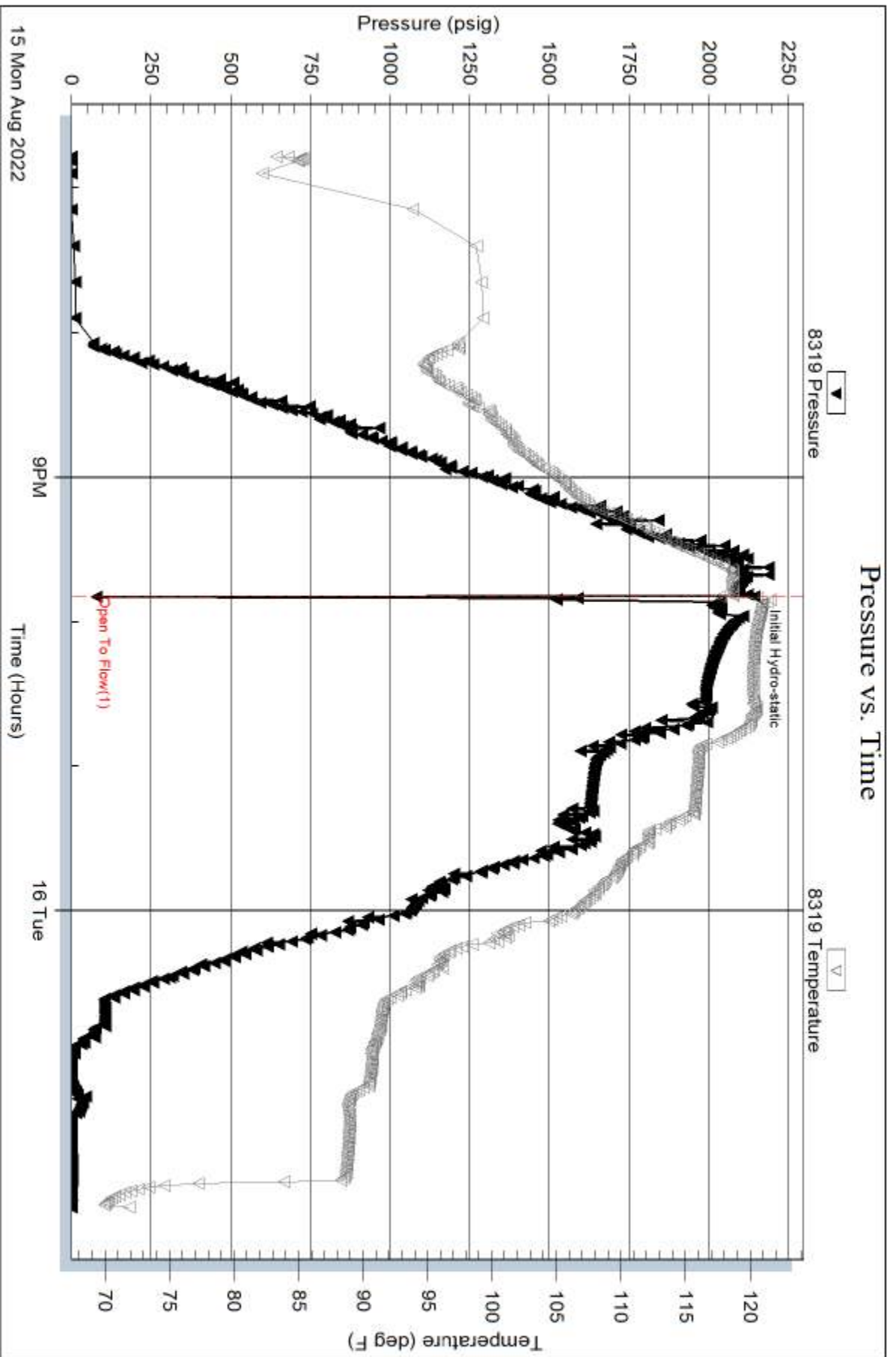
Serial #: 8319

Inside

Mull Drilling Co. Inc.

BBT #1-25

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 69155

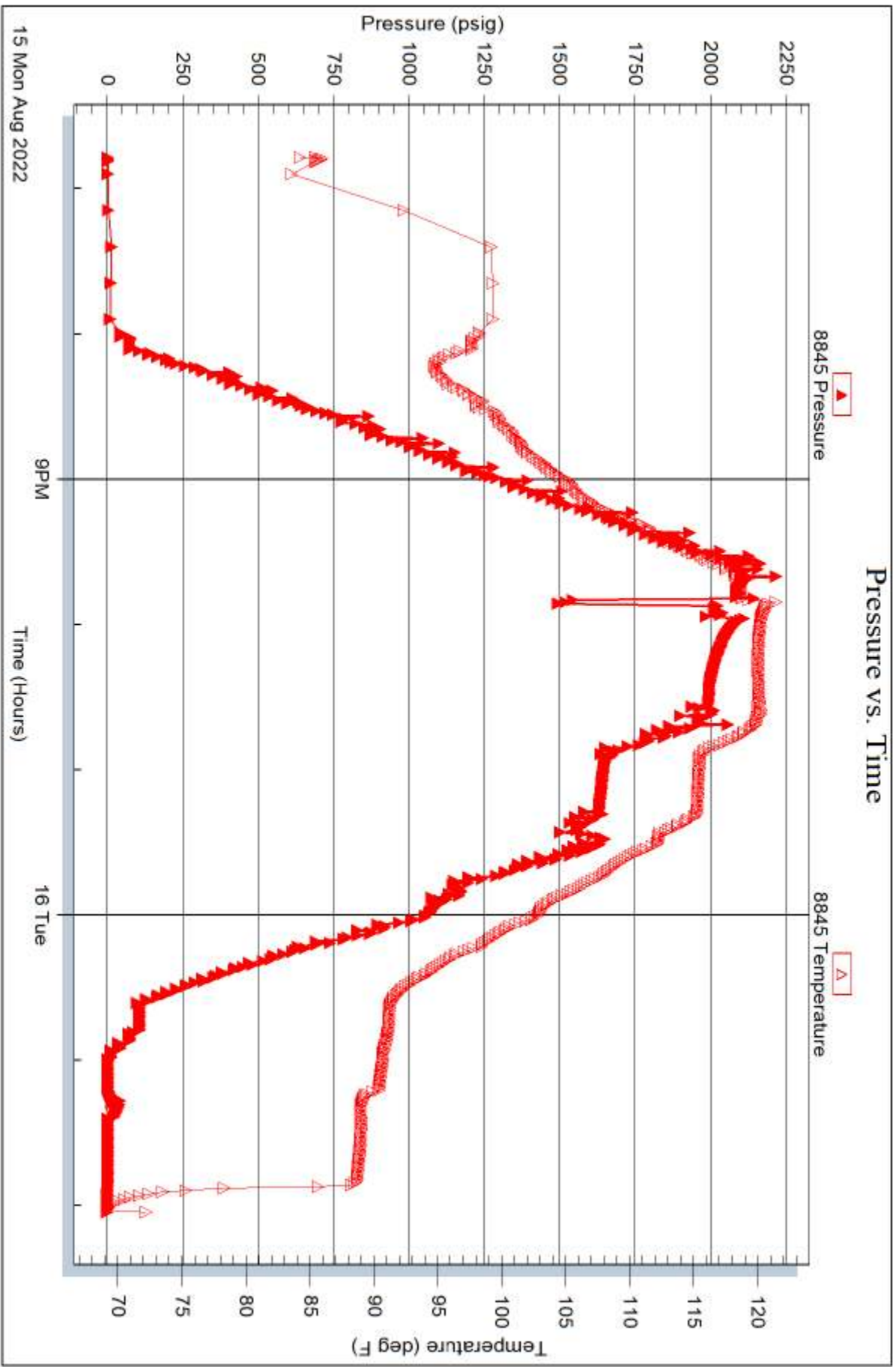
Printed: 2022.08.18 @ 11:44:42

Serial #: 8845

Outside Mall Drilling Co. Inc.

BBT #1-25

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68149

Well Name & No. BBT 1-25 Test No. 1 Date 8/12/2022
 Company Mull Drilling Co Elevation 2458 KB 2451 GL
 Address Wichita Ks
 Co. Rep / Geo. Blake Miller Rig Pickrell 10
 Location: Sec. 25 Twp 15s Rge. 27w Co. Gove State Ks

Interval Tested 3896-3958 Zone Tested LKL GFI,I
 Anchor Length 62 Drill Pipe Run 3762 Mud Wt. 9.0
 Top Packer Depth 3891 Drill Collars Run 120 Vls 56
 Bottom Packer Depth 3896 Wt. Pipe Run — WL 6.8
 Total Depth 3958 Chlorides 6000 ppm System LCM 2#

Blow Description FF: 3/4" blow
ISI: No return.
FF: Surface blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>mod</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 55 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1903</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>0500</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0618</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0926</u>
(D) Initial Shut-In <u>1110</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1143</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1405</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>100</u> <u>150</u>	Comments
(G) Final Shut-In <u>944</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1855</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1900</u>
	Sub Total <u>2250</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68150

Well Name & No. BBT 1-25 Test No. 2 Date 09/13/2022
 Company Wichita Ks Moll Drilling Co Elevation 2458 KB 2451 GL
 Address Wichita Ks
 Co. Rep / Geo. Blake Miller Rig Reckrell 10
 Location: Sec. 25 Twp 15s Rge. 27w Co. Boone State Ks

Interval Tested 3935-4044 Zone Tested LKC J-L
 Anchor Length 109 Drill Pipe Run 3794 Mud Wt. 9.2
 Top Packer Depth 3930 Drill Collars Run 120 Vls 48
 Bottom Packer Depth 3935 Wt. Pipe Run — WL 6.6
 Total Depth 4044 Chlorides 6,000 ppm System LCM 2#
 Blow Description IF: 1" blow
ISI: No return
FF: 3/4" blow dried @ 20 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 25 BHT 116 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1914</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0343</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0630</u>
(D) Initial Shut-In <u>907</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1010</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1220</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>100rt 150</u>	Comments
(G) Final Shut-In <u>1000</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1877</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool <u>-350</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility	Total <u>2050</u>
	Sub Total <u>2400</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69153

Well Name & No. BBT 1-25 Test No. 3 Date 08/14/2022
 Company Mull Drilling Co Elevation 2458 KB 2451 GL
 Address Wichita Ks
 Co. Rep / Geo. Blake Miller Rig Picknell 10
 Location: Sec. 25 Twp 15S Rge. 27W Co. Gove State Ks

Interval Tested 3935-4044 ⁴¹⁸⁴⁻⁴²⁵⁵ Zone Tested Ft Scott
 Anchor Length 10 71 Drill Pipe Run 4048 Mud Wt. 9.1
 Top Packer Depth 4179 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 4184 Wt. Pipe Run — WL 8.0
 Total Depth 4255 Chlorides 6500 ppm System LCM 2#

Blow Description IF 1/2" blow
ISI No return.
FF No blow
KSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 5 BHT 121 Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 21 18 Test 1950 T-On Location 0200
 (B) First Initial Flow 22 Jars 300 T-Started 0229
 (C) First Final Flow 25 Safety Joint — T-Open 0610
 (D) Initial Shut-In 151 Circ Sub — T-Pulled 0720
 (E) Second Initial Flow 26 Hourly Standby — T-Out 0942
 (F) Second Final Flow 28 Mileage 100rt 150 Comments —
 (G) Final Shut-In 144 Sampler —
 (H) Final Hydrostatic 20 40 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Initial Open 10
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60
 Sub Total 2400
 EM Tool -350 didn't run
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total -350
 Total 2050
 MP/DSP Disc't —

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69154

Well Name & No. BBT 1-25 Test No. 4 Date 08/15/2022
 Company Mull Drilling Co Elevation 2456 KB 2451 GL
 Address Wichita Ks
 Co. Rep / Geo. Blake Miller Rig Pickrell 10
 Location: Sec. 25 Twp 15S Rge. 27W Co. Gove State Ks

Interval Tested 4277 - 4345 Zone Tested Mississippian
 Anchor Length 68' Drill Pipe Run 4141 Mud Wt. 9.1
 Top Packer Depth 4272 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 4277 Wt. Pipe Run — WL 6.5
 Total Depth 4345 Chlorides 6500 ppm System LCM 2#

Blow Description IF 1/2" blow
ISI No return
FF No blow
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 15 BHT 123 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 2153 Test 1950 T-On Location 2300
 (B) First Initial Flow 24 Jars 300 T-Started 2343
 (C) First Final Flow 26 Safety Joint — T-Open 0230
 (D) Initial Shut-In 762 Circ Sub — T-Pulled 0615
 (E) Second Initial Flow 27 Hourly Standby — T-Out 0908
 (F) Second Final Flow 30 Mileage 100rt 150 Comments —
 (G) Final Shut-In 996 Sampler —
 (H) Final Hydrostatic 2029 Straddle — EM Tool -350 didnt run
 Shale Packer — Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total -350
 Accessibility — Total 2050
 Sub Total 2400 MP/DST Disc# —

Initial Open 10
 Initial Shut-In 30
 Final Flow 100
 Final Shut-In 120

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69155

Well Name & No. BBT 1-25 Test No. 5 Date 08/16/2022
 Company Mull Drilling Co Elevation 2458 KB 2451 GL
 Address Wichita Ks
 Co. Rep / Geo. Blake Miller Rig Pickrell 10
 Location: Sec. 25 Twp 15s Rge. 27w Co. Gove State Ks

Interval Tested 4327-4355 Zone Tested Mississippian
 Anchor Length 28' Drill Pipe Run 4207 Mud Wt. 9.6
 Top Packer Depth 4322 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 4327 Wt. Pipe Run — WL 6.6
 Total Depth 4355 Chlorides 6500 ppm System LCM 2#
 Blow Description IF Missrun
ISI packers didnt hold
FL
FSI

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>MUD</u>				

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 1550 T-On Location 1730
 (B) First Initial Flow M _____ Jars 300 T-Started 1730
 (C) First Final Flow _____ Safety Joint _____ T-Open 2150
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 2200
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 0202
 (F) Second Final Flow _____ Mileage X2 100rt 150+150 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ EM Tool -350 didnt run
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open _____ Day Standby _____ Sub Total -350
 Initial Shut-In _____ Accessibility _____ Total 1800
 Final Flow _____ Sub Total 2150 MP/DST Disc't _____
 Final Shut-In _____

Approved By _____ Our Representative _____

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Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: BBT #1-25
API: 15-063-22414-00-00
Location: 15S-27W-sec. 25 / SW SE NW NW / 1192' FNL & 727' FWL
License Number: Spud Date:
Surface Coordinates: 15S-27W-sec. 25 / SW SE NW NW / 1192' FNL & 727' FWL
Region: GOVE Cty.
Drilling Completed:

Bottom Hole Coordinates: NA
Ground Elevation (ft): 2451
Logged Interval (ft): To: RTD
Formation: MS>LA>MA
Type of Drilling Fluid: CHEMICAL MUD DISPLACED ~ 3500'
K.B. Elevation (ft): 2458
Total Depth (ft): RTD
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MULL DRILLING COMPANY
Address: MULL DRILLING COMPANY

GEOLOGIST

Name: Blake Miller
Company: Blake S. Miller - Wellsite & Consulting Geologist
Address: 235 N. Zelta
Wichita, KS 67206

COMMENTS

Surface Casing:
Production Casing:
Deviation Surveys:
Pipe Strap @
Contractor Bit Record:
1.)
2.) 7 7/8" SMITH MDSI516, JV 4953, 5/14 JET, IN @ 266'

Gas Detector: NONE
Mud System: CHEMICAL MUD DISPLACED @~3500', by MUD-CO.
DSTs: TRILOBITE TESTING (WALT)

DSTs

TRILOBITE TESTING (WALT):
DST #1) KC 'G-H-' (3896-3958) 10-30-60-30, (1) 3/4" BLO, (2) SURF BLO, 55' M w/ O SPTS, [1111-945] FP: 30-30/33-48
DST #2) KC 'I-J-K' (3935-4044) 10-30-60-120, (1) 1" BLO, (2) 1/4" > DIED/20", 25' M w/ O SPTS, [908-1001] FP: 23-28/30-39
DST #3) FT SC (4185-4255) 10-30-30-60, (1) 1/5" BLO, (2) NO BLO, 5' M, [151-144] FP: 23-25/27-28

CREWS

TOOL PUSHER: SCOTT HIGHLAND
DRILLERS:
DAYLIGHTS: SAM
EVENING: CORY (DRILLER)
MORNING:
ALTERNATE:

ROCK TYPES legend table with 3 columns of rock types and their corresponding symbols.

ACCESSORIES legend table with 3 columns of accessory types and their corresponding symbols.

MINERAL legend table with 2 columns of mineral types and their corresponding symbols.

FOSSIL legend table with 2 columns of fossil types and their corresponding symbols.

STRINGER legend table with 2 columns of stringer types and their corresponding symbols.

TEXTURE legend table with 2 columns of texture types and their corresponding symbols.

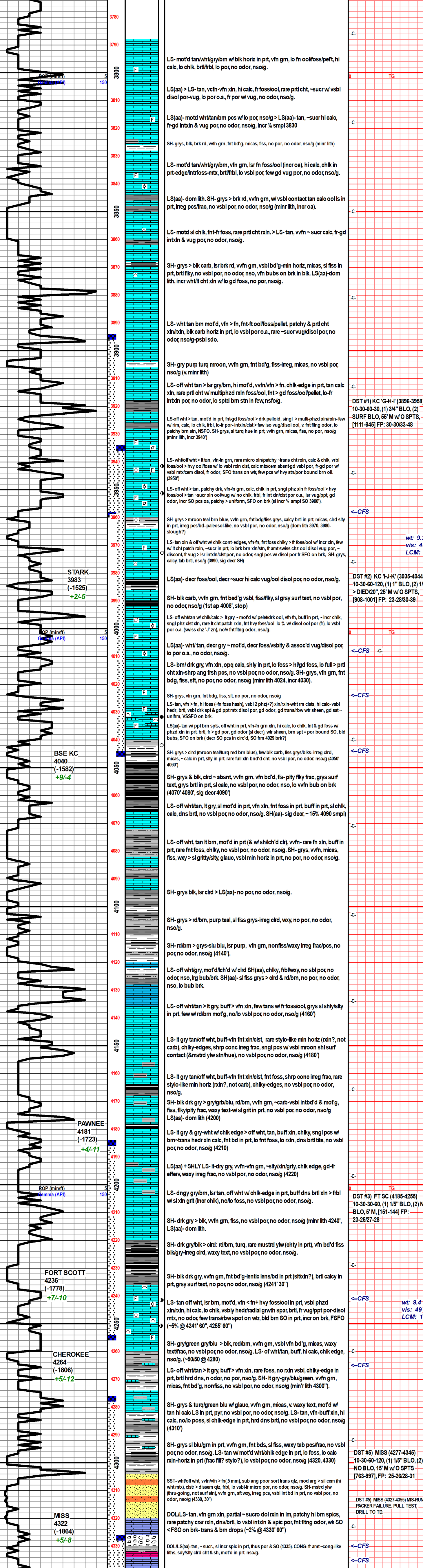


Table on the right side of the log plot containing TG, C1-C5 data and DST information for various tests.