

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	PETERSON TRUST 2-31
Doc ID	1655713

All Electric Logs Run

MICRO
SONIC
DUAL INDUCTION
COMPENSATED DENSITY NEUTRON PE
LEETH

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Lighthouse
 Dr. 19
 Rig #2

Cement or Acid Field Report
 Ticket No. **6476**
 Foreman David Gaultier
 Camp Eureka

API # 15-111-20559

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-23-22	1397	Petersen Trust # 2-31	31	16S.	10E.	Lyon	KS
Customer			Unit #	Driver	Unit #	Driver	
Mull Drilling Company, INC			105	Jason			
Mailing Address			110	Procker			
1700 N. Waterfront Pkwy Bldg 1200							
City	State	Zip Code					
Wichita	KS	67206					

Job Type Surface Hole Depth 219' K.B. Slurry Vol. 33 Bbl Tubing _____
 Casing Depth 200' G.L. Hole Size 12 1/4" Slurry Wt. 15" Drill Pipe _____
 Casing Size & Wt. 8 5/8" Cement Left in Casing 15' 1/2" Water Gal/SK _____ Other _____
 Displacement 12 1/4 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 2 3/8" casing. Break circulation w/ 16 Bbl fresh water mixed 135 sks Class A Cement w/ 3 1/2 Cact, 2% Gel, 1/4" Fluorid/ks @ 15 gal yield 1.37 = 33 Bbl slurry. (mixed 46" Halls in w/ 125 sks cement for loss circulation material) Displace w/ 12 1/4 Bbl fresh water. Shut down. Close casing in. Good cement returns to surface = 16 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C111	1	Pump Charge	950.00	950.00
C107	70	Mileage	5.00	350.00
C200	135 sks	Class A Cement	18.55	2504.25
C205	380 [#]	Cact 3%	.75	285.00
C206	255 [#]	Gel 2%	.30	76.50
C209	35 [#]	Fluorid 1/4"/sk	2.80	98.00
C108B	6.34 Tons	Ton Mileage - 70 Miles	1.50	665.70
C214	40 [#]	Halls	.80	32.00
		Thank You	Sub Total	4961.45
			Less 5%	-248.07
			Sales Tax	194.72

Authorization by Duke Coulter Title Lighthouse Dr. Tool Pusher Total 4808.10

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report

Ticket No. **6518**

Foreman David Gardner

Camp Eureka

API # 15-111-20559

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-29-22	1397	Peterson Trust #2-31	31	16 S.	10 E.	Lyons	KS
Customer			Unit #	Driver	Unit #	Driver	
Mull Drilling Company, Inc.			105	Jason			
Mailing Address			112	Shannon			
1700 N. Waterfront Pkwy, Bldg. 1200			110	Steve			
City			Water Truck		Watt's		
State		Zip Code					
Wichita		KS 67206					

Job Type <u>Longstring</u>	Hole Depth <u>3197' K.B.</u>	Slurry Vol. <u>74 Bbl Lead / 43 Bbl Tail</u>	Tubing _____
Casing Depth <u>3186.05' G.L.</u>	Hole Size <u>7 7/8"</u>	Slurry Wt. <u>13" / 13.8"</u>	Drill Pipe _____
Casing Size & Wt. <u>5 1/2" 14"</u>	Cement Left in Casing <u>20' S.J.</u>	Water Gal/SK _____	Other _____
Displacement <u>79 Bbl</u>	Displacement PSI <u>1400</u>	Bump Plug to <u>1800 PSI</u>	BPM _____

Remarks: Safety Meeting: 5 1/2" 14" casing set @ 3186.05' G.L. Rig up to 5 1/2" casing w/ Rotating casing swivel + Head + Manifold. Break circulation w/ 10 Bbl KCL water. Mixed 250 sks 100/40 Pozmix Cement w/ 8% Gel, 2" Phenoseal/sk, 1/4% CFL-115 @ 13"/gal, yield 1.166 = 74 Bbl slurry. Tail in w/ 125 sks Thick Set Cement w/ 5" Kolseal/sk, 2" Phenoseal/sk, 1/4% CFL-115 @ 13.8"/gal, yield 1.93 = 43 Bbl slurry. Wash out pump & lines Shut down. Release 5 1/2" Latch Down Plug. Start rotating casing. Displace plug to seat w/ 79 Bbl fresh water (KCL in 1st 40 Bbl). Final pumping pressure of 1400 PSI. Bump plug to 1800 PSI. Wait 2 mins. Release pressure. Float + Plug held. Good circulation @ all times while cementing. Job complete. Rig down.

Thank You

Plug R.H. & Mouse hole.

Centralizers on #1, 2, 3, 5, 6, 7, 9, 10 Basket on Top of #8

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1180.00	1180.00
C107	70	Mileage	5.00	350.00
C203	250 sks	100/40 Pozmix Cement	15.75	3937.50
C206	1720#	Gel 8%	.30	516.00
C208	500#	Phenoseal 2"/sk	1.55	775.00
C211	55#	CFL-115 1/4%	12.95	712.25
C201	125 sks	Thick Set Cement	24.25	3031.25
C207	625#	Kolseal 5"/sk	.56	350.00
C208	250#	Phenoseal 2"/sk	1.55	387.50
C211	30#	CFL-115 1/4%	12.95	388.50
C108B	17.62 tons	Ton Mileage - 70 miles	1.50	1850.10
C112	1	Rotating Cement Swivel	115.00	115.00
C224	3300 Gals	City Water	12.00/1000	39.60
C222	7 Gals	KCL (10 Bbl Ahead water & 1 st 40 Bbl Displacement water)	32.00	224.00
C691	1	5 1/2" Guide Shoe	207.00	207.00
C674	1	5 1/2" AFU Float Collar	423.00	423.00
C421	1	5 1/2" Latch Down Plug	285.00	285.00
C504	8	5 1/2" - 7 7/8" Centralizers	59.00	472.00
C604	1	5 1/2" Cement Basket	278.00	278.00
C781	1	5 1/2" Stop Collar	37.00	37.00
Sub Total			15,558.70	
Less 5%			823.60	
7.5% Sales Tax			973.39	

Authorized

Robin Brown

Title

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office

Total = 15,648.49



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206

ATTN: Phil Askey

Peterson Trust #2-31

31-16S-10E Lyon,KS

Start Date: 2022.06.26 @ 09:07:22

End Date: 2022.06.26 @ 17:21:42

Job Ticket #: 68412 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.06.30 @ 16:44:10

Mull Drilling Company Inc.

31-16S-10E Lyon,KS

Peterson Trust #2-31

DST # 1

Hunton Sand

2022.06.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company Inc.
 1700 N Waterfront Pkw y
 Bldg 1200
 Withchita, KS 67206
 ATTN: Phil Askey

31-16S-10E Lyon,KS

Peterson Trust #2-31

Job Ticket: 68412 **DST#: 1**
 Test Start: 2022.06.26 @ 09:07:22

GENERAL INFORMATION:

Formation: **Hunton Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:29:02
 Time Test Ended: 17:21:42
 Interval: **2910.00 ft (KB) To 2920.00 ft (KB) (TVD)**
 Total Depth: 2920.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1358.00 ft (KB)
 1350.00 ft (CF)
 KB to GR/CF: 8.00 ft

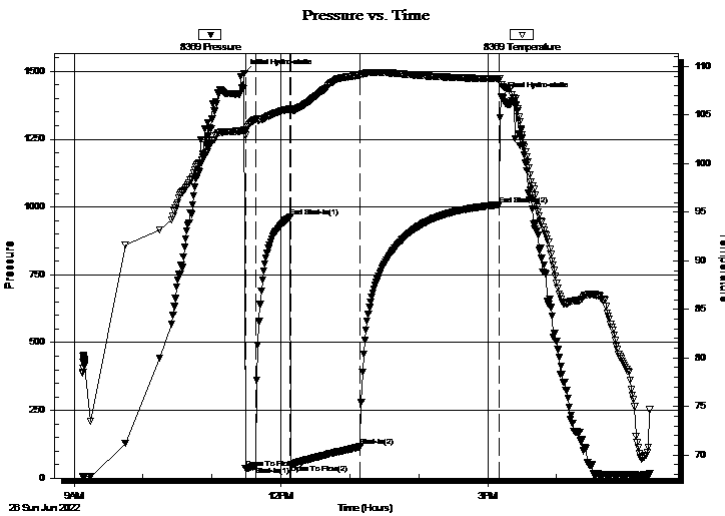
Serial #: 8369

Outside

Press@RunDepth: 116.81 psig @ 2911.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.26 End Date: 2022.06.26 Last Calib.: 2022.06.26
 Start Time: 09:07:23 End Time: 17:21:42 Time On Btm: 2022.06.26 @ 11:28:02
 Time Off Btm: 2022.06.26 @ 15:12:01

TEST COMMENT: IF:Fair Blow built 1.50" (5)
 IS:No Blow Back (30)
 FF:Fair Blow built 5.75" (60)
 FS:No Blow Back (120)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.26	103.43	Initial Hydro-static
1	35.38	102.94	Open To Flow (1)
10	45.26	104.54	Shut-In(1)
40	963.13	105.64	End Shut-In(1)
41	50.25	105.44	Open To Flow (2)
101	116.81	109.11	Shut-In(2)
222	1008.48	108.71	End Shut-In(2)
224	1407.07	108.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	MCW 5%M 95%W	0.90
61.00	MCW 15%M 85%W	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company Inc.

31-16S-10E Lyon, KS

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68412

DST#: 1

Test Start: 2022.06.26 @ 09:07:22

Tool Information

Drill Pipe:	Length: 2584.00 ft	Diameter: 3.88 inches	Volume: 37.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 304.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2910.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	41.00 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			2880.00	
Shut In Tool	5.00			2885.00	
Hydraulic tool	5.00			2890.00	
Em Tool	3.00			2893.00	
Jars	5.00			2898.00	
Safety Joint	3.00			2901.00	
Packer	4.00			2905.00	31.00 Bottom Of Top Packer
Packer	5.00			2910.00	
Stubb	1.00			2911.00	
Recorder	0.00	8369	Outside	2911.00	
Recorder	0.00	8846	Inside	2911.00	
Perforations	6.00			2917.00	
Bullnose	3.00			2920.00	10.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc.

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68412

DST#: 1

Test Start: 2022.06.26 @ 09:07:22

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:

14000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
183.00	MCW 5%M 95%W	0.900
61.00	MCW 15%M 85%W	0.300

Total Length: 244.00 ft Total Volume: 1.200 bbf

Num Fluid Samples: 0

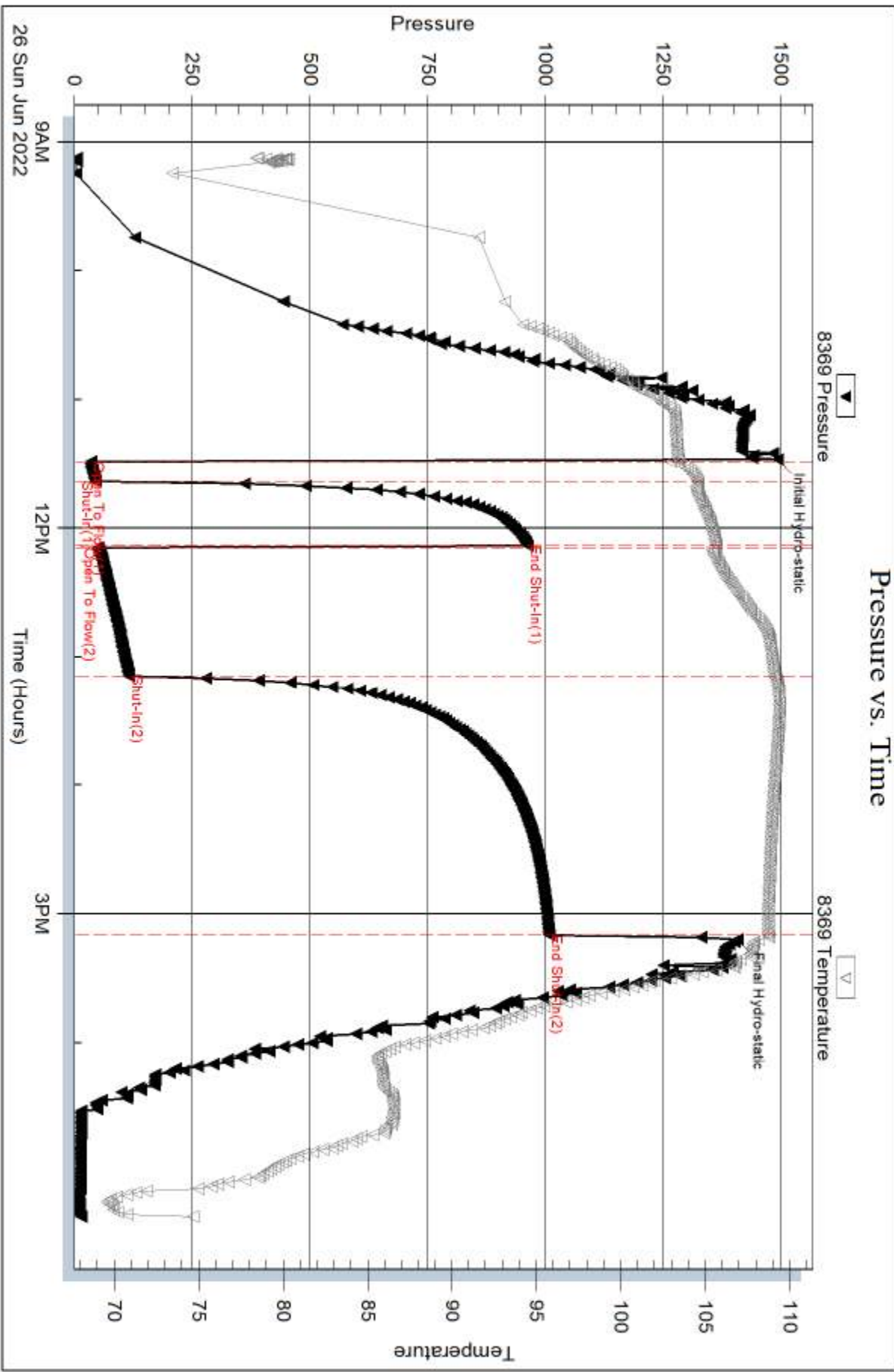
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: No other current mud info



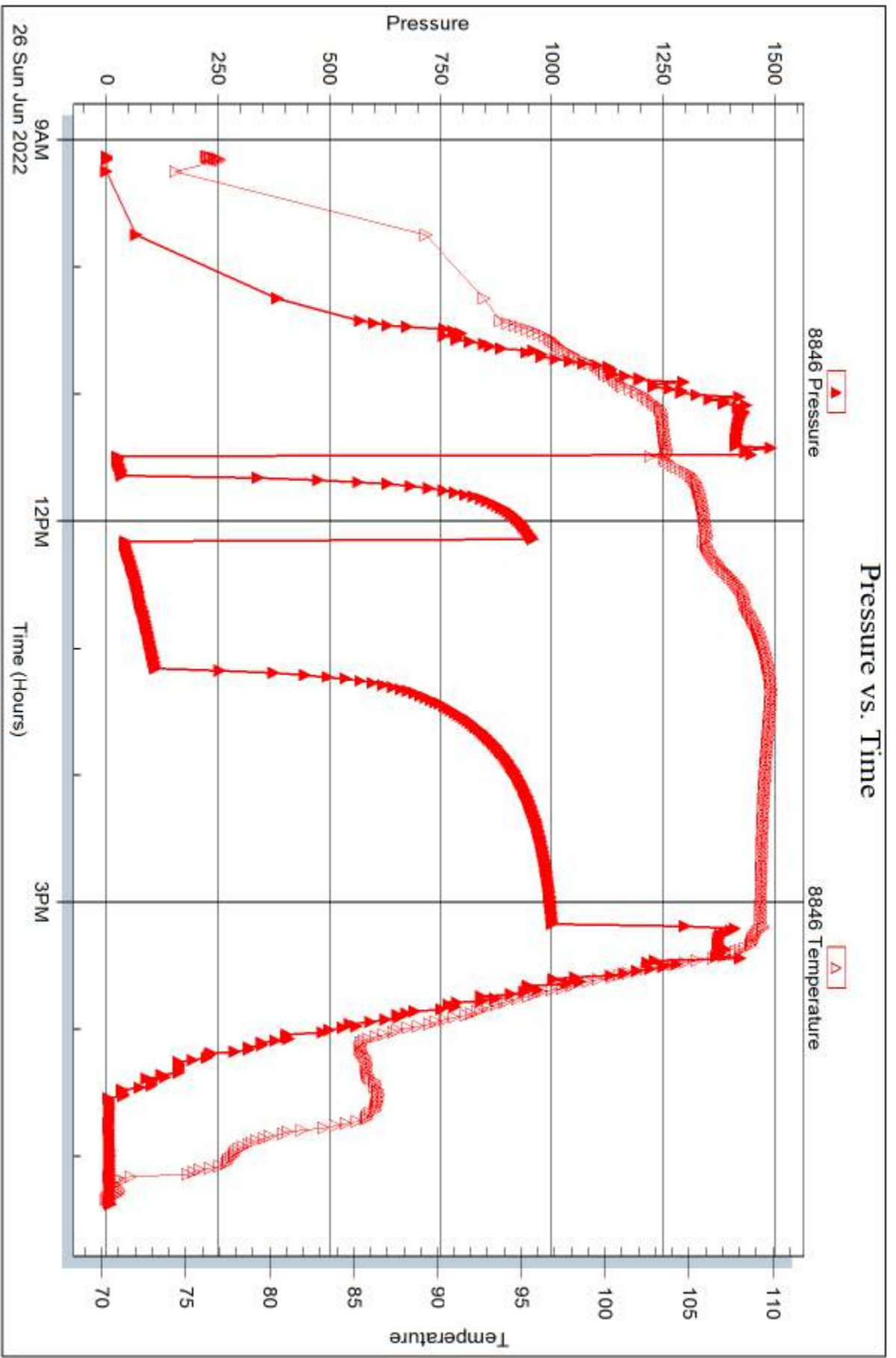
Serial #: 8846

Inside

Mull Drilling Company Inc.

Peterson Trust#2-31

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68412

Printed: 2022.06.30 @ 16:44:11



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206

ATTN: Phil Askey

Peterson Trust #2-31

31-16S-10E Lyon,KS

Start Date: 2022.06.27 @ 02:28:10

End Date: 2022.06.27 @ 11:20:59

Job Ticket #: 68413 DST #: 2

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

Printed: 2022.06.30 @ 16:43:18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company Inc.

31-16S-10E Lyon, KS

1700 N Waterfront Pkw y
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68413

DST#: 2

Test Start: 2022.06.27 @ 02:28:10

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:50

Time Test Ended: 11:20:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 2998.00 ft (KB) To 3010.00 ft (KB) (TVD)

Reference Elevations: 1358.00 ft (KB)

Total Depth: 3010.00 ft (KB) (TVD)

1350.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press@RunDepth: 86.59 psig @ 2999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.27

End Date:

2022.06.27

Last Calib.:

2022.06.27

Start Time: 02:28:11

End Time:

11:20:59

Time On Btm:

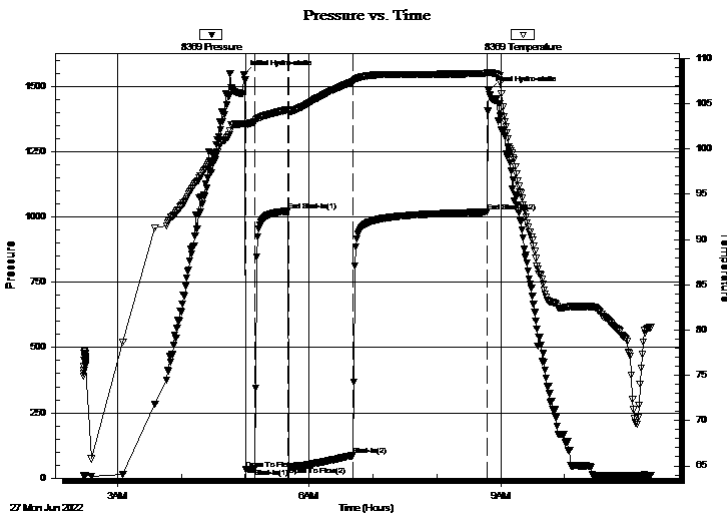
2022.06.27 @ 04:58:50

Time Off Btm:

2022.06.27 @ 08:48:49

TEST COMMENT: IF:Fair Building Blow built 1.25" in bucket (5)
IS:No Blow Back (30)
FF:Fair Building Blow built 3.5" in bucket (60)
FS:No Blow Back (120)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.21	102.80	Initial Hydro-static
2	32.98	102.66	Open To Flow (1)
10	36.90	103.01	Shut-In(1)
41	1021.84	104.33	End Shut-In(1)
42	43.42	104.11	Open To Flow (2)
102	86.59	107.39	Shut-In(2)
228	1018.10	108.33	End Shut-In(2)
230	1482.40	108.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	MCO 70%O 30%M	0.30
122.00	OIL 100%O	0.60

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 Inc.

31-16S-10E Lyon, KS

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68413

DST#: 2

Test Start: 2022.06.27 @ 02:28:10

Tool Information

Drill Pipe:	Length: 2677.00 ft	Diameter: 3.88 inches	Volume: 39.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 304.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2998.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	43.00 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			2968.00	
Shut In Tool	5.00			2973.00	
Hydraulic tool	5.00			2978.00	
Em Tool	3.00			2981.00	
Jars	5.00			2986.00	
Safety Joint	3.00			2989.00	
Packer	4.00			2993.00	31.00 Bottom Of Top Packer
Packer	5.00			2998.00	
Stubb	1.00			2999.00	
Recorder	0.00	8369	Outside	2999.00	
Recorder	0.00	8846	Inside	2999.00	
Perforations	8.00			3007.00	
Bullnose	3.00			3010.00	12.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc.

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68413

DST#: 2

Test Start: 2022.06.27 @ 02:28:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	MCO 70%O 30%M	0.300
122.00	OIL 100%O	0.600

Total Length: 183.00 ft Total Volume: 0.900 bbl

Num Fluid Samples: 0

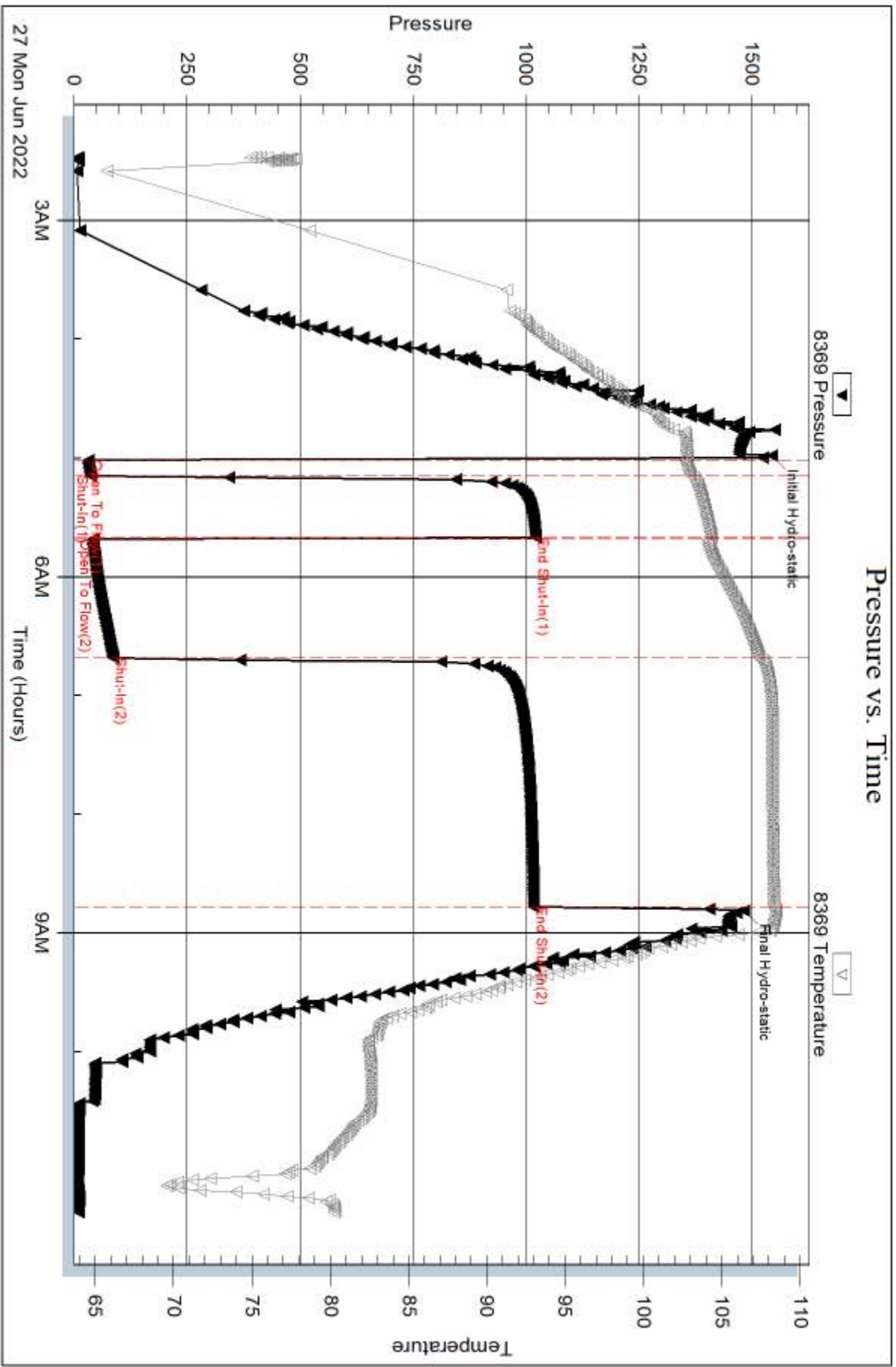
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



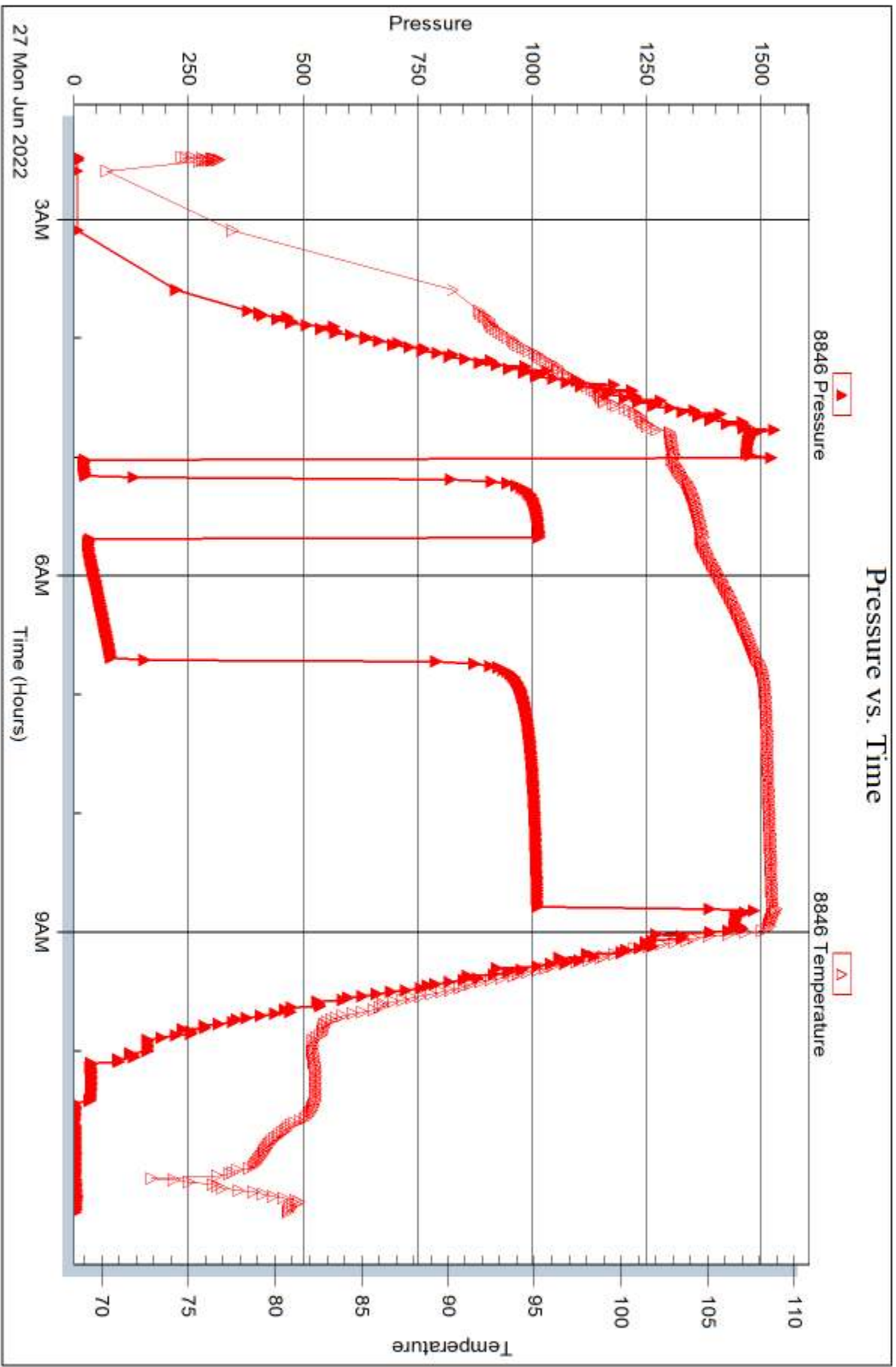
Serial #: 8846

Inside

Mull Drilling Company Inc.

Peterson Trust#2-31

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68413

Printed: 2022.06.30 @ 16:43:20



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc.**

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206

ATTN: Phil Askey

Peterson Trust #2-31

31-16S-10E Lyon,KS

Start Date: 2022.06.27 @ 18:25:59

End Date: 2022.06.28 @ 03:59:39

Job Ticket #: 68414 DST #: 3

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

Printed: 2022.06.30 @ 16:31:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company Inc.

31-16S-10E Lyon, KS

1700 N Waterfront Pkw y
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68414

DST#: 3

Test Start: 2022.06.27 @ 18:25:59

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:11:29

Time Test Ended: 03:59:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3010.00 ft (KB) To 3022.00 ft (KB) (TVD)

Reference Elevations: 1358.00 ft (KB)

Total Depth: 3022.00 ft (KB) (TVD)

1350.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press@RunDepth: 131.81 psig @ 3011.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.27

End Date:

2022.06.28

Last Calib.:

2022.06.28

Start Time: 18:26:00

End Time:

03:59:39

Time On Btm:

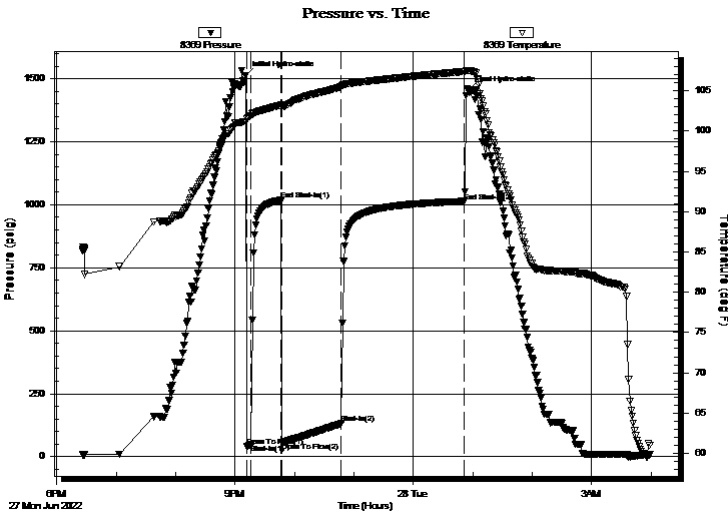
2022.06.27 @ 21:10:19

Time Off Btm:

2022.06.28 @ 00:55:29

TEST COMMENT: IF:Fair Building Blow built 2.75" in bucket (5)
IS:No Blow Back (30)
FF:Fair Building Blow built 6" in bucket (60)
FS:No Blow Back (120)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.49	101.17	Initial Hydro-static
2	40.17	101.54	Open To Flow (1)
6	48.77	101.89	Shut-In(1)
37	1017.62	103.22	End Shut-In(1)
38	57.43	103.00	Open To Flow (2)
97	131.81	105.48	Shut-In(2)
221	1013.30	107.38	End Shut-In(2)
226	1452.25	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	WOCM 50%M 5%W 45%O	0.30
61.00	MWCO 75%O 10%W 15%M	0.30
127.00	OIL 100%O	0.62

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 Inc.

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68414

DST#: 3

Test Start: 2022.06.27 @ 18:25:59

Tool Information

Drill Pipe:	Length: 2677.00 ft	Diameter: 3.88 inches	Volume: 39.15 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 304.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose:	25000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	2.00 ft			Final	50000.00 lb
Depth to Top Packer:	3010.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	43.00 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			2980.00	
Shut In Tool	5.00			2985.00	
Hydraulic tool	5.00			2990.00	
Em Tool	3.00			2993.00	
Jars	5.00			2998.00	
Safety Joint	3.00			3001.00	
Packer	4.00			3005.00	31.00 Bottom Of Top Packer
Packer	5.00			3010.00	
Stubb	1.00			3011.00	
Recorder	0.00	8369	Outside	3011.00	
Recorder	0.00	8846	Inside	3011.00	
Perforations	8.00			3019.00	
Bullnose	3.00			3022.00	12.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc.

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Withchita, KS 67206
ATTN: Phil Askey

Peterson Trust #2-31

Job Ticket: 68414

DST#: 3

Test Start: 2022.06.27 @ 18:25:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	WOCM 50%M 5%W 45%O	0.300
61.00	MWCO 75%O 10%W 15%M	0.300
127.00	OIL 100%O	0.625

Total Length: 249.00 ft

Total Volume: 1.225 bbl

Num Fluid Samples: 0

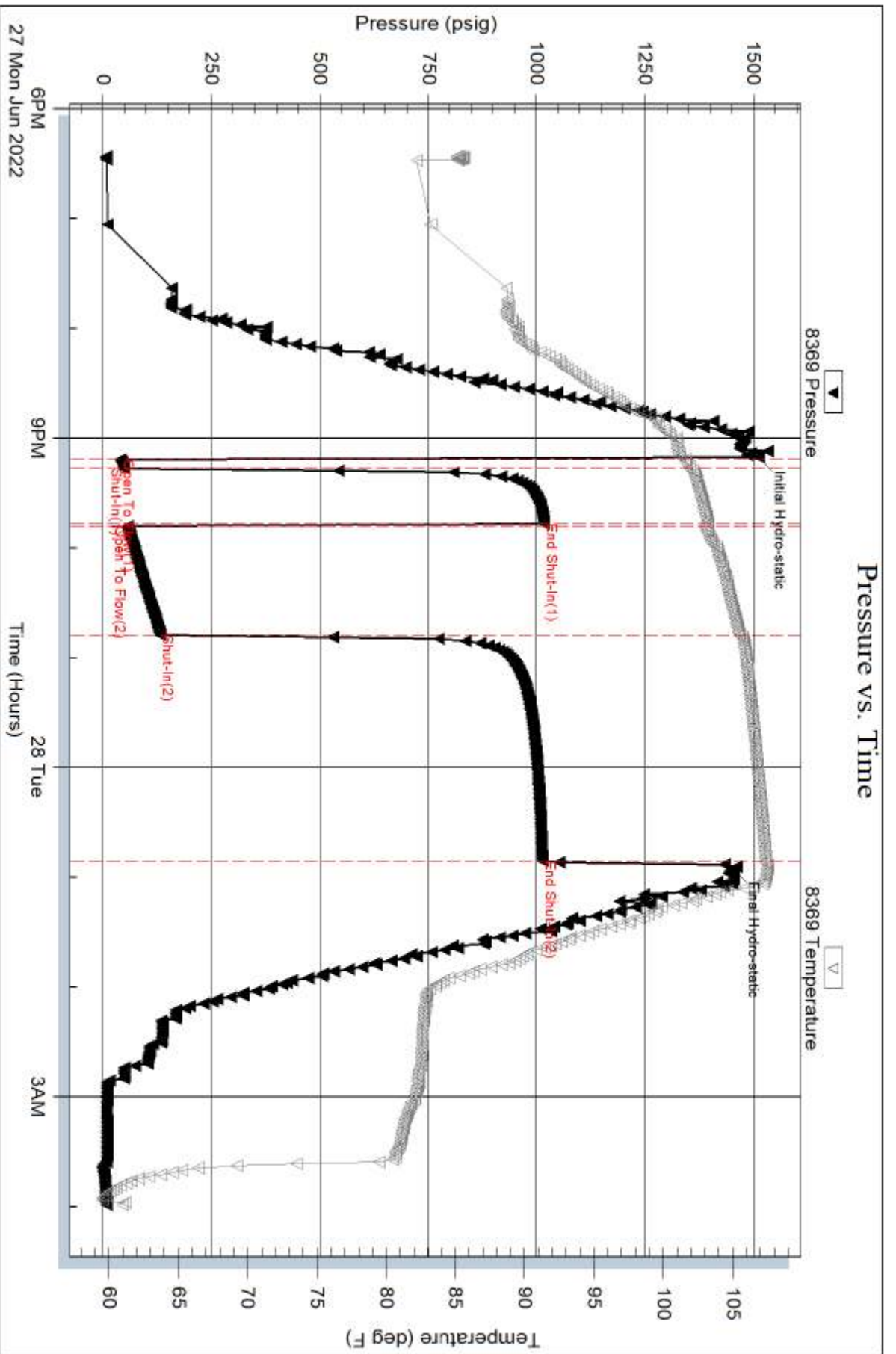
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



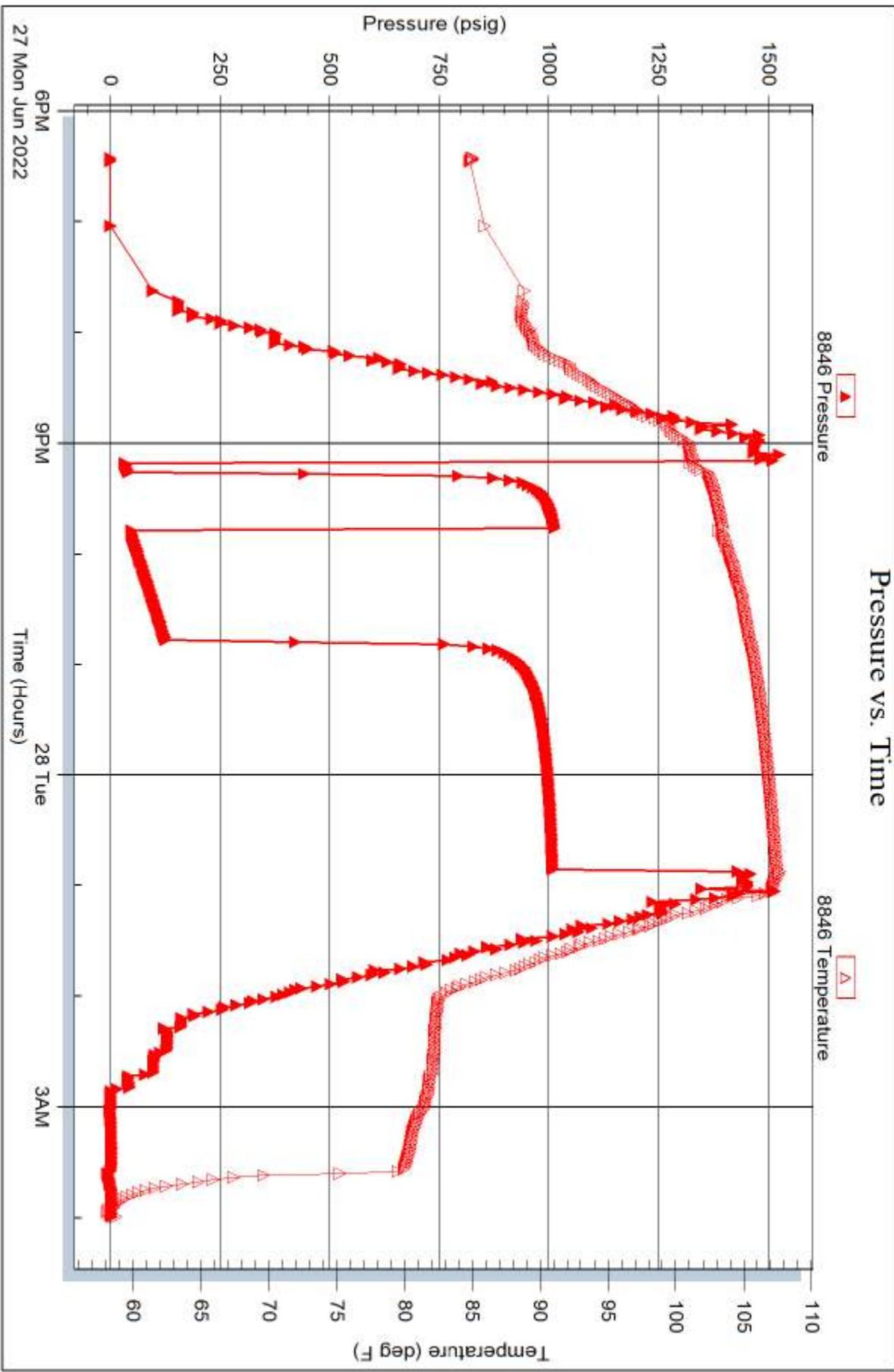
Serial #: 8846

Inside

Mull Drilling Company Inc.

Peterson Trust#2-31

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 68414

Printed: 2022.06.30 @ 16:31:22



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68412

Well Name & No. Peppers Trust #2-31 Test No. 1 Date 6/26/22
 Company Well Drilling Company, Inc. Elevation 1358 KB 1350 GL
 Address 1200 N. Waterfront Hwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Phil Arkes Rig Light House 2
 Location: Sec. 31 Twp 16S Rge. 10E Co. Lyon State KS

Interval Tested 2910' - 2920' Zone Tested Hunter Sand
 Anchor Length 10' Drill Pipe Run 2584 Mud Wt. 9.4
 Top Packer Depth 2902' Drill Collars Run 304 Vis 52
 Bottom Packer Depth 2906' Wt. Pipe Run 0 WL ?
 Total Depth 2920' Chlorides ? ppm System LCM 3

Blow Description IF: Feb Flow built 1.50" (57)

IS: 10 Blw Sack (30)

FK: Feb Flow built 5.75" (607)

FS: 10 Blw Sack (120)

Rec	Feet of	%gas	%oil	%water	%mud
183	Feet of <u>MCW</u>		95	5	
61	Feet of <u>MCW</u>		85	15	
	Feet of				
	Feet of				
	Feet of				

Rec Total 244 BHT 108 Gravity _____ API RW .67 @ 67 °F Chlorides 14,000 pp

- (A) Initial Hydrostatic 193
- (B) First Initial Flow 35
- (C) First Final Flow 45
- (D) Initial Shut-In 963
- (E) Second Initial Flow 50
- (F) Second Final Flow 117
- (G) Final Shut-In 1008
- (H) Final Hydrostatic 1407

- Test 1800
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 330 495
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

- T-On Location 0751
- T-Started 0907
- T-Open 1135
- T-Pulled 1515
- T-Out 1722
- Comments _____
- EM Tool _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 2295
- MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Approved By _____

Our Representative [Signature]

Triobite 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 test, 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.



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68413

Well Name & No. Peterson Trust #2-31 Test No. 2 Date 6/22/22
 Company Mull Drilling Company, Inc Elevation 1358 KB 1350 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS. 67206
 Co. Rep / Geo. Phil Askey Rig Light House 2
 Location: Sec. 31 Twp 16S Rge. 10E Co. 450N State KS

Interval Tested 2998'-3010' Zone Tested viola
 Anchor Length 12' Drill Pipe Run 2677 Mud Wt. 9.4
 Top Packer Depth 2990' Drill Collars Run 304 Vls 48
 Bottom Packer Depth 2994' Wt. Pipe Run Ø WL ?
 Total Depth 3010' Chlorides ? ppm System LCM 4

Blow Description FF: Fair Building Blow built 1.25" in bucket (5)
ISI: No Blow Back (90)
FF: Fair Building Blow built 3.5" in bucket (60)
ISI: No Blow Back (120)

Rec	Feet of	%gas	%oil	%water	%mud
122	oil	100			
61	MCO	70		30	

Rec Total 183 BHT _____ Gravity 32.8@60 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1544 Test 1800
 (B) First Initial Flow 33 Jars _____
 (C) First Final Flow 37 Safety Joint _____
 (D) Initial Shut-In 1022 Circ Sub _____
 (E) Second Initial Flow 43 Hourly Standby _____
 (F) Second Final Flow 87 Mileage 330 495
 (G) Final Shut-In 1018 Sampler _____
 (H) Final Hydrostatic 1482 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 2295

T-On Location 0150
 T-Started 0506 0228
 T-Open 0506
 T-Pulled 0845
 T-Out 1120
 Comments _____
 EM Tool -175
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total -175
 Total 2120
 MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Approved By _____ Our Representative _____

Triobite 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

1515 Commerce Parkway • Hays, Kansas 67601

NO. 000

Date 7/11/22

Test Ticket

NO. **68414**



TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

1515 Commerce Parkway • Hays, Kansas 67601

Well Name & No. Peterson Trust # 2-31 Test No. 3 Date 6/27/22
 Company Mull Drilling Company Inc Elevation 1358 KB 1350 GL
 Address 1700 N Waterfront Pkwy Bldg 1000 Hays, KS 67206 Rig Lighthouse 2
 Co. Rep / Geo. Phil Askey Co. Lynn State KS
 Location: Sec. 31 Twp 16S Rge. 10E

Interval Tested 3010' - 3022' Zone Tested Viola Mud Wt. 9.4
 Anchor Length 12' Drill Pipe Run 2677 Vis 48
 Top Packer Depth 3002' Drill Collars Run 304 WL ?
 Bottom Packer Depth 3006' Wt. Pipe Run 0 LCM 4
 Total Depth 3022' Chlorides ? ppm System

Blow Description IF: Fair Building Blow built 2.75" in Bucket (57)
ISF: NO Blow Back (70)
FF: Fair Building Blow built 6" in bucket (607)
ISF: NO Blow Back (100)

Rec	Feet of	%gas	%oil	%water	%mud
127	Oil	100			
61	Mud	75	10	15	
61	WOCM	45	75	5	15

Rec Total 249 BHT _____ Gravity 33@60 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1512
 (B) First Initial Flow 40
 (C) First Final Flow 49
 (D) Initial Shut-In 1018
 (E) Second Initial Flow 57
 (F) Second Final Flow 132
 (G) Final Shut-In 1013
 (H) Final Hydrostatic 1452

- Test 1800
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 330 495
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

T-On Location 1800
 T-Started 1825
 T-Open 2116
 T-Pulled 0056
 T-Out 0359
 Comments Out of Tool Joint

Initial Open 5
 Initial Shut-In 70
 Initial Flow 60
 Initial Shut-In 120

EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2295

Sub Total 2295 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 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 services 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.