

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

| | |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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

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

| | | |
|---|---|------------------------------------|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</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: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|-----------------------------|
| Form | ACO1 - Well Completion |
| Operator | Mull Drilling Company, Inc. |
| Well Name | PETERSON TRUST 6-31 |
| Doc ID | 1725090 |

All Electric Logs Run

| |
|--------------------------------|
| |
| MICRO |
| SONIC |
| DUAL INDUCTION |
| COMPENSATED DENSITY NEUTRON PE |
| LEETH |

| | |
|-----------|-----------------------------|
| Form | ACO1 - Well Completion |
| Operator | Mull Drilling Company, Inc. |
| Well Name | PETERSON TRUST 6-31 |
| Doc ID | 1725090 |

Tops

| Name | Top | Datum |
|---------------|------|-------|
| LANSING | 1415 | -109 |
| CHEROKEE | 2051 | -745 |
| MISSISSIPPIAN | 2407 | -1101 |
| KINDERHOOK | 2718 | -1412 |
| HUNTON | 2861 | -1555 |
| MAQUOKETA | 2893 | -1587 |
| VIOLA | 2963 | -1657 |
| SIMPSON SD | 3073 | -1767 |
| ARBUCKLE | 3121 | -1815 |

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



Lighthouse
 Drlg.
 P:9 #1

| | |
|------------------------------------|----------------------|
| Cement or Acid Field Report | |
| Ticket No. | 7365 |
| Foreman | <u>David Gardner</u> |
| Camp | <u>Eureka</u> |

API # 15-111-20565

| Date | Cust. ID # | Lease & Well Number | Section | Township | Range | County | State |
|--|--------------------|--------------------------|---|------------------------------------|---------------------------------------|--------|--------|
| 7-25-23 | 1397 | Peterson Trust #6-31 SWD | 31 | 16 S. | 10 E. | Lyon | KS |
| Customer <u>Mull Drilling Company, Inc.</u> | | | Safety Meeting <u>DG</u> <u>JH</u> <u>Jm</u> | Unit # <u>140</u> <u>113</u> | Driver <u>Jason</u> <u>Jake</u> | Unit # | Driver |
| Mailing Address <u>1700 N. Waterfront Pkwy, Bldg 1200</u> | | | | | | | |
| City <u>Wichita</u> | State <u>KS</u> | Zip Code <u>67206</u> | | | | | |

Job Type Surface Hole Depth 222' K.B. Slurry Vol. 50 Bbl Tubing _____
 Casing Depth 202' G.L. Hole Size 17 1/2" Slurry Wt. 15# Drill Pipe _____
 Casing Size & Wt. 13 3/8" 48# Cement Left in Casing 20' +/- Water Gal/SK _____ Other _____
 Displacement 29 1/2 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 13 3/8' casing. Break circulation w/ 10 Bbl fresh water. Mixed 200 SKS Class A Cement w/ 3% Cacl2, 2% Gel, 1/4" Floreal/sk @ 15#/gal, yield 1.40 = 50 Bbl slurry. Displace w/ 29 1/2 Bbl fresh water. Shut down. Close casing in. Good cement returns to surface = 19 Bbl slurry to Pit. Job complete. Rig down.

| Code | Qty or Units | Description of Product or Services | Unit Price | Total |
|------------------|--------------|------------------------------------|-----------------|----------|
| C101 | 1 | Pump Charge | 950.00 | 950.00 |
| C107 | 70 | Mileage | 5.00 | 350.00 |
| C200 | 200 SKS | Class A Cement | 18.55 | 3710.00 |
| C205 | 565# | Cacl2 3% | .75 | 423.75 |
| C206 | 375# | Gel 2% | .30 | 112.50 |
| C209 | 50# | Floreal 1/4"/sk | 2.80 | 140.00 |
| C1088 | 9.4 Tons | Ton Mileage - 70 Miles | 1.50 | 987.00 |
| <u>Thank You</u> | | | Sub Total | 6,673.25 |
| | | | Less 5% | 350.11 |
| | | | 7.5 % Sales Tax | 328.97 |

Authorization by Harley Title Lighthouse Drlg. - Tool Pusher Total 6,652.11

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



Lighthouse Drly.
 Rig #1

| | |
|------------------------------------|----------------------|
| Cement or Acid Field Report | |
| Ticket No. | 7369 |
| Foreman | <i>David Gardner</i> |
| Camp | <i>Eureka</i> |

API# 15-111-20565

| Date | Cust. ID # | Lease & Well Number | Section | Township | Range | County | State |
|-----------------------------------|------------|----------------------|---------|----------|--------|--------|-------|
| 8-2-23 | 1397 | Peterson Trust #6-31 | 31 | 16 S. | 10 E. | Lyons | KS |
| Customer | | | Unit # | Driver | Unit # | Driver | |
| Mull Drilling Company, Inc. | | | 140 | Jason | | | |
| Mailing Address | | | 110 | Broker | | | |
| 1700 N. Waterfront Pkwy Bldg 1200 | | | 112 | Shannon | | | |
| City | | | 113 | Jack | | | |
| State | | | | | | | |
| Wichita | | | | | | | |
| Zip Code | | | | | | | |
| KS | | | | | | | |
| 67206 | | | | | | | |

Job Type Longstring Hole Depth 3200' K.B. Slurry Vol. 100 Bbl - Lead Tubing _____
41 Bbl - Tail
 Casing Depth 3171.42' G.L. Hole Size 7 7/8" Slurry Wt. 12.6" - 13.8" Drill Pipe _____
 Casing Size & Wt. 5 1/2" 14" Cement Left in Casing 44.16' S.S. Water Gal/SK _____ Other _____
 Displacement 78 Bbl Displacement PSI 1300 Bump Plug to 1700 PSI BPM _____

Remarks: Safety Meeting: 5 1/2" 14" New Casing set @ 3171.42' G.L. Rig up to 5 1/2" casing. Break circulation w/ 10 Bbl fresh water, mixed 315 sks 60/40 Pozmix Cement w/ 8% Gel, 2" Phenoseal/sk @ 12.6"/gal, yield 1.78 = 100 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 1.85 = 41 Bbl slurry. Wash out pump & lines. Shut down. Release Latch Down Plug. Displace plug to seat w/ 78 Bbl fresh water (KCL in 1st 40 Bbl). Final pumping pressure of 1300 PSI. Bump plug to 1700 PSI. Wait 2 mins. Release pressure. Float & Plug held. Good cement returns to surface = 6 Bbl slurry to pit. Job complete. Rig down

Plug R.H. w/ 20 sks + M.H. w/ 15 sks
Centralizers on #2, 3, 4, 5, 6, 7, 8, 9, 12, 36 Baskets on top of #10 + 37

| Code | Qty or Units | Description of Product or Services | Unit Price | Total |
|--|--------------|--|----------------|-----------|
| C10Z | 1 | Pump Charge | 1180.00 | 1180.00 |
| C107 | 70 | Mileage | 5.00 | 350.00 |
| C203 | 350 sks | 60/40 Pozmix Cement | 15.75 | 5512.50 |
| C206 | 2410* | Gel 8% | .30 | 723.00 |
| C208 | 700* | Phenoseal 2"/sk | 1.55 | 1085.00 |
| 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 | 21.93 Tons | Ton Mileage - 70 Miles | 1.50 | 2302.65 |
| C691 | 1 | 5 1/2" Guide Shoe | 207.00 | 207.00 |
| C674 | 1 | 5 1/2" AFU Float Collar w/ Latch Down Insert | 423.00 | 423.00 |
| C421 | 1 | 5 1/2" Latch Down Plug | 285.00 | 285.00 |
| C604 | 2 | 5 1/2" Cement Baskets | 278.00 | 556.00 |
| C504 | 10 | 5 1/2" x 7 7/8" Centralizers | 59.00 | 590.00 |
| C222 | 2 1/2 Gals | KCL (In 1 st 40 Bbl Displacement water) | 32.00 | 80.00 |
| <u>Thank You</u> | | | Sub Total | 17,451.40 |
| | | | Less 5% | 923.64 |
| | | | 7.5% Sales Tax | 1,021.41 |
| Authorization <u>Robin Brown</u> Title _____ | | | Total | 17,549.17 |

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.



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Roger Martin

Peterson Trust #6-31

31-16S-10E Lyon,KS

Start Date: 2023.07.28 @ 15:07:53

End Date: 2023.07.28 @ 22:09:23

Job Ticket #: 70558 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.04 @ 10:17:05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co
1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Roger Martin

31-16S-10E Lyon, KS

Peterson Trust #6-31

Job Ticket: 70558

DST#: 1

Test Start: 2023.07.28 @ 15:07:53

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:13

Time Test Ended: 22:09:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: 2861.00 ft (KB) To 2870.00 ft (KB) (TVD)

Reference Elevations: 1306.00 ft (KB)

Total Depth: 2870.00 ft (KB) (TVD)

1294.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 44.72 psig @ 2862.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.07.28 End Date: 2023.07.28

Last Calib.: 2023.07.28

Start Time: 15:07:54 End Time: 22:09:23

Time On Btm: 2023.07.28 @ 17:34:43

Time Off Btm: 2023.07.28 @ 19:58:53

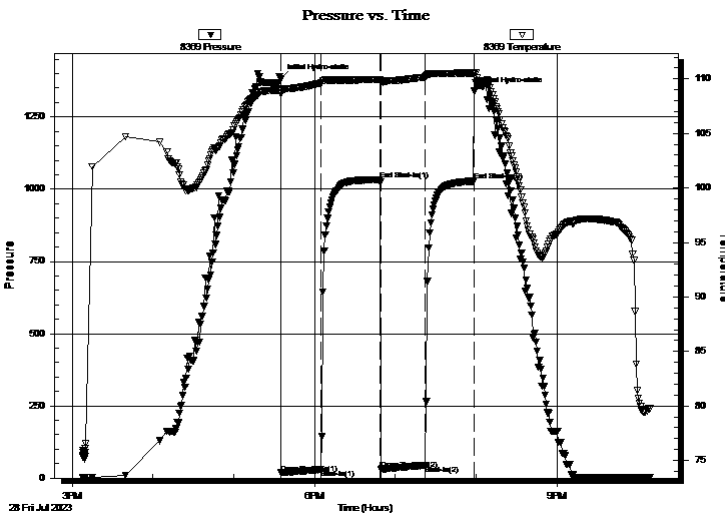
TEST COMMENT: IF:Weak Building Blow built to .52" but died back to .18" (30)

IS:No Blow Back. (45)

FF:Weak Blow only surface bubbles. (30)

FS:No Blow Back. (30)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1381.24 | 109.10 | Initial Hydro-static |
| 1 | 17.75 | 108.61 | Open To Flow (1) |
| 30 | 30.27 | 109.63 | Shut-In(1) |
| 74 | 1032.53 | 109.94 | End Shut-In(1) |
| 75 | 31.55 | 109.67 | Open To Flow (2) |
| 108 | 44.72 | 110.16 | Shut-In(2) |
| 144 | 1027.48 | 110.53 | End Shut-In(2) |
| 145 | 1339.14 | 110.59 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 60.00 | OSMW 95%W 5%M | 0.30 |
| 0.00 | Tool Sample VSOMCW 2%O 93%W 5%M | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70558

DST#: 1

Test Start: 2023.07.28 @ 15:07:53

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2510.00 ft | Diameter: 3.88 inches | Volume: 36.71 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 335.00 ft | Diameter: 2.25 inches | Volume: 1.65 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 38.36 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 16.00 ft | | | String Weight: Initial 56000.00 lb |
| Depth to Top Packer: | 2861.00 ft | | | Final 56000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 9.00 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 | | | 2830.00 | |
| Shut In Tool | 5.00 | | | 2835.00 | |
| Hydraulic tool | 5.00 | | | 2840.00 | |
| Em Tool | 3.00 | | | 2843.00 | |
| Jars | 5.00 | | | 2848.00 | |
| Safety Joint | 3.00 | | | 2851.00 | |
| Packer | 4.00 | | | 2855.00 | 32.00 Bottom Of Top Packer |
| Packer | 6.00 | | | 2861.00 | |
| Stubb | 1.00 | | | 2862.00 | |
| Recorder | 0.00 | 8369 | Outside | 2862.00 | |
| Recorder | 0.00 | 8846 | Inside | 2862.00 | |
| Perforations | 5.00 | | | 2867.00 | |
| Bullnose | 3.00 | | | 2870.00 | 9.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70558

DST#: 1

Test Start: 2023.07.28 @ 15:07:53

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: 37.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------------------|----------------|
| 60.00 | OSMW 95%W 5%M | 0.295 |
| 0.00 | Tool Sample VSOMCW 2%O 93%W 5%M | 0.000 |

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

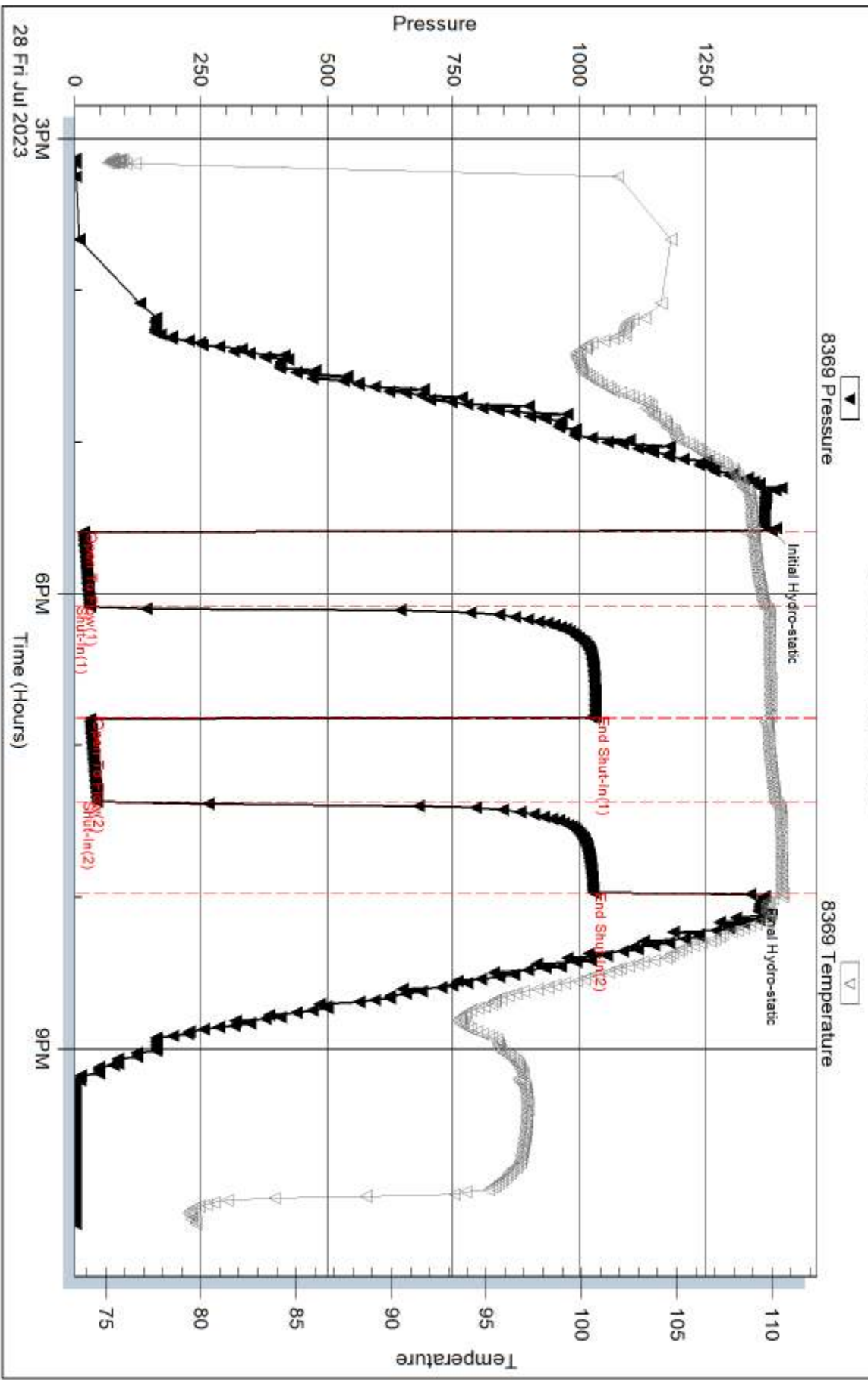
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

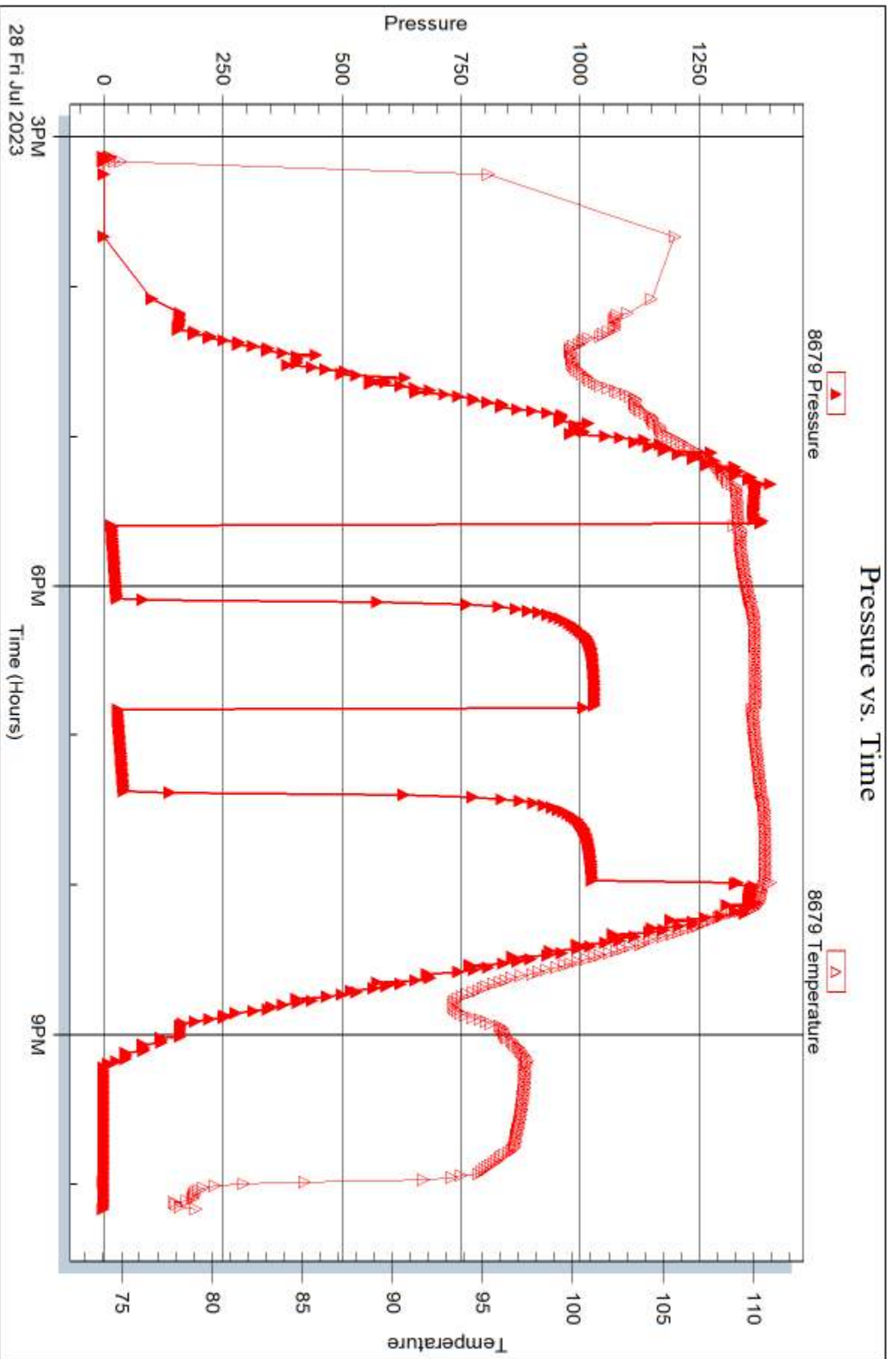


Serial #: 8679

Mull Drilling Co

Peterson Trust #6-31

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 70558

Printed: 2023.08.04 @ 10:17:06



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Roger Martin

Peterson Trust #6-31

31-16S-10E Lyon, KS

Start Date: 2023.07.29 @ 13:34:29

End Date: 2023.07.29 @ 23:21:18

Job Ticket #: 70559 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.04 @ 10:16:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Roger Martin

31-16S-10E Lyon, KS

Peterson Trust #6-31

Job Ticket: 70559

DST#: 2

Test Start: 2023.07.29 @ 13:34:29

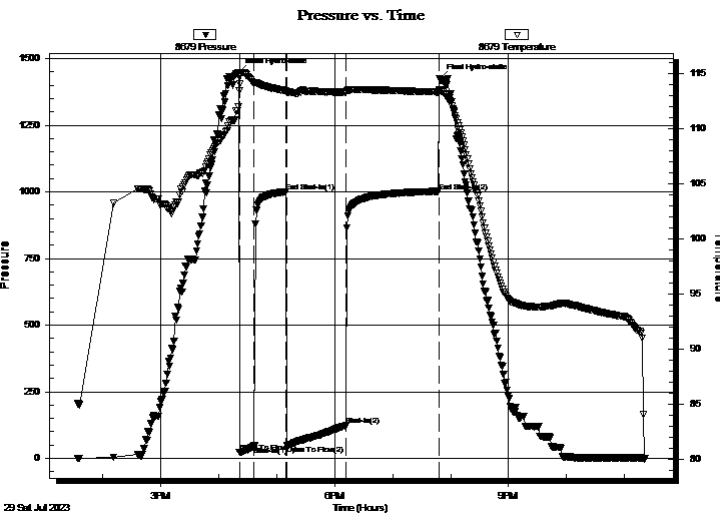
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:39
 Time Test Ended: 23:21:18
 Interval: **2964.00 ft (KB) To 2967.00 ft (KB) (TVD)**
 Total Depth: 2967.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1306.00 ft (KB)
 1294.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8679

Press@RunDepth: 123.41 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.07.29 End Date: 2023.07.29 Last Calib.: 2023.07.29
 Start Time: 13:34:30 End Time: 23:21:18 Time On Btm: 2023.07.29 @ 16:20:39
 Time Off Btm: 2023.07.29 @ 19:48:39

TEST COMMENT: IF: Fair Building Blow built to 3.17" (15)
 IS: No Blow Back. (30)
 FF: Fair Building Blow built to 5.56" (60)
 FS: No Blow Back. (90)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1447.86 | 111.95 | Initial Hydro-static |
| 1 | 21.87 | 113.43 | Open To Flow (1) |
| 17 | 44.19 | 114.10 | Shut-In(1) |
| 50 | 1000.26 | 113.41 | End Shut-In(1) |
| 51 | 47.61 | 113.24 | Open To Flow (2) |
| 112 | 123.41 | 113.29 | Shut-In(2) |
| 207 | 1001.96 | 113.30 | End Shut-In(2) |
| 208 | 1424.72 | 113.51 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 60.00 | OMCW 25%O 40%W 35%M | 0.30 |
| 60.00 | WMCO 90%O 5%W 5%M | 0.30 |
| 60.00 | Oil 100%O | 0.30 |
| 60.00 | Oil 100%O | 0.30 |
| 40.00 | Oil 100%O | 0.20 |
| 0.00 | Tool Sample OCW 5%O 95%W | 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 Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70559

DST#: 2

Test Start: 2023.07.29 @ 13:34:29

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2603.00 ft | Diameter: 3.88 inches | Volume: 38.07 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 335.00 ft | Diameter: 2.25 inches | Volume: 1.65 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 39.72 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 6.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 2964.00 ft | | | Final 54000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 3.00 ft | | | |
| Tool Length: | 35.00 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 | | | 2933.00 | |
| Shut In Tool | 5.00 | | | 2938.00 | |
| Hydraulic tool | 5.00 | | | 2943.00 | |
| Em Tool | 3.00 | | | 2946.00 | |
| Jars | 5.00 | | | 2951.00 | |
| Safety Joint | 3.00 | | | 2954.00 | |
| Packer | 4.00 | | | 2958.00 | 32.00 Bottom Of Top Packer |
| Packer | 6.00 | | | 2964.00 | |
| Stubb | 1.00 | | | 2965.00 | |
| Recorder | 0.00 | 8846 | Inside | 2965.00 | |
| Bullnose | 2.00 | | | 2967.00 | 3.00 Bottom Packers & Anchor |

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70559

DST#: 2

Test Start: 2023.07.29 @ 13:34:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 60.00 | OMCW 25%O 40%W 35%M | 0.295 |
| 60.00 | WMCO 90%O 5%W 5%M | 0.295 |
| 60.00 | Oil 100%O | 0.295 |
| 60.00 | Oil 100%O | 0.295 |
| 40.00 | Oil 100%O | 0.197 |
| 0.00 | Tool Sample OCW 5%O 95%W | 0.000 |

Total Length: 280.00 ft

Total Volume: 1.377 bbl

Num Fluid Samples: 0

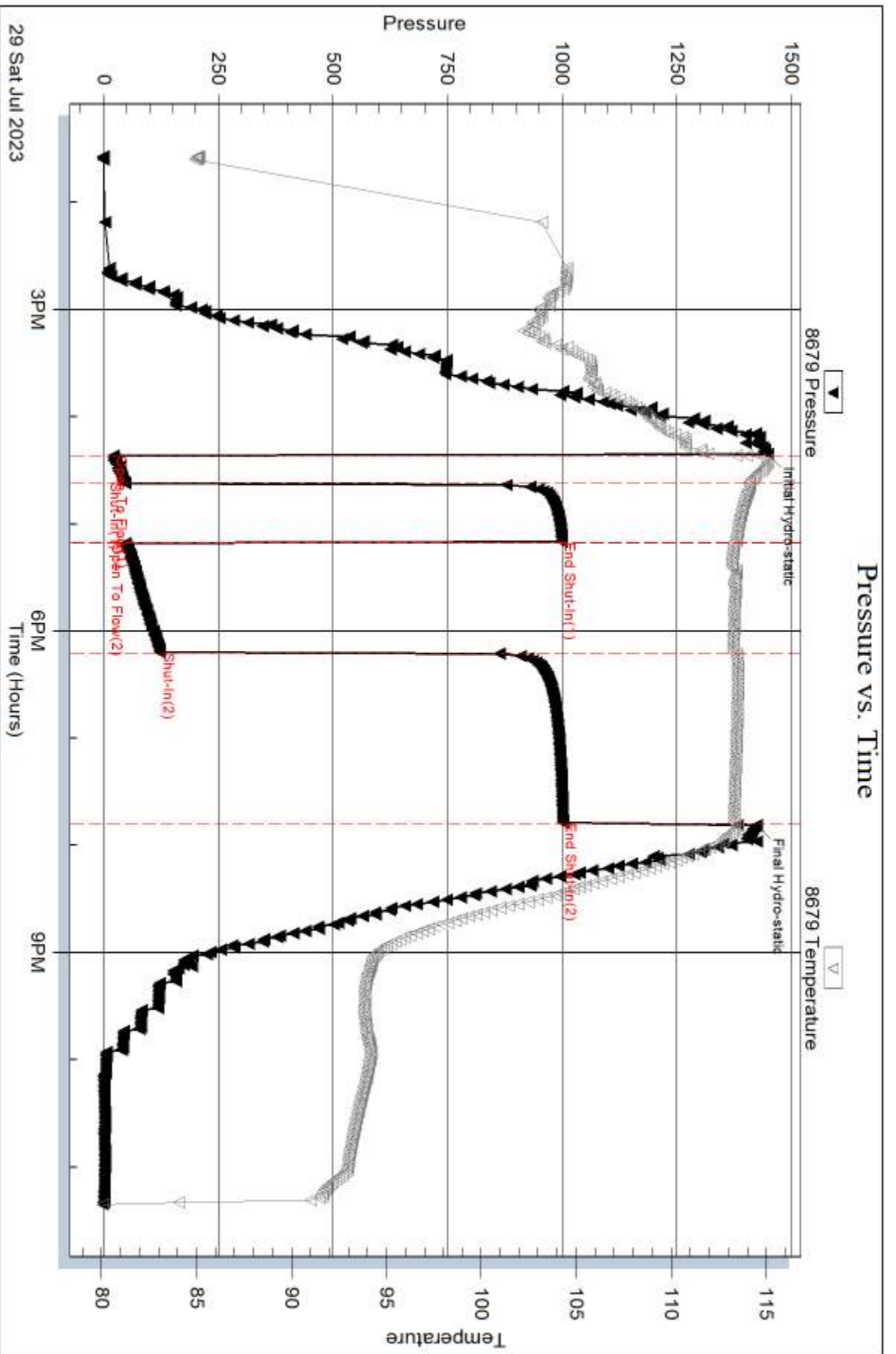
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Roger Martin

Peterson Trust #6-31

31-16S-10E Lyon, KS

Start Date: 2023.07.30 @ 07:37:03

End Date: 2023.07.30 @ 17:39:33

Job Ticket #: 70560 DST #: 3

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

Printed: 2023.08.04 @ 09:10:51



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Roger Martin

31-16S-10E Lyon, KS

Peterson Trust #6-31

Job Ticket: 70560

DST#: 3

Test Start: 2023.07.30 @ 07:37:03

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:03

Time Test Ended: 17:39:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 2967.00 ft (KB) To 2977.00 ft (KB) (TVD)

Reference Elevations: 1306.00 ft (KB)

Total Depth: 2977.00 ft (KB) (TVD)

1294.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 181.58 psig @ 2969.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.07.30

End Date:

2023.07.30

Last Calib.:

2023.07.30

Start Time:

07:37:04

End Time:

17:39:33

Time On Btm:

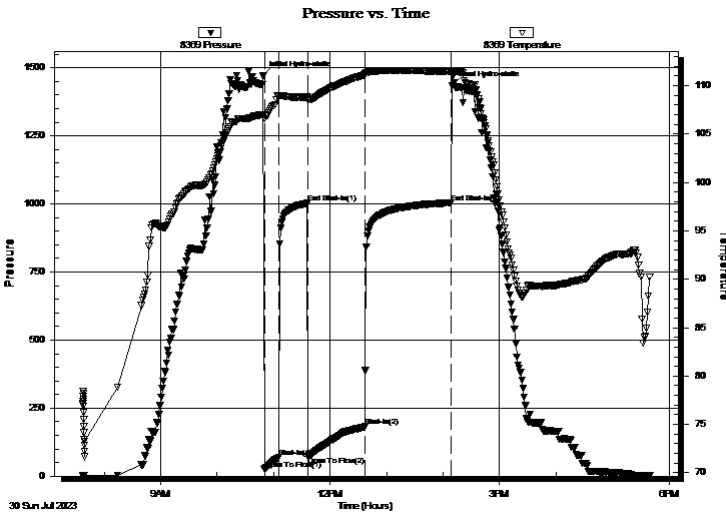
2023.07.30 @ 10:48:53

Time Off Btm:

2023.07.30 @ 14:09:33

TEST COMMENT: IF: Fair Building Blow built to 3.80" (15)
 IS: No Blow Back. (30)
 FF: Fair Building Blow built to 5.30" (60)
 FS: No Blow Back. (90)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1470.28 | 107.02 | Initial Hydro-static |
| 2 | 25.29 | 106.58 | Open To Flow (1) |
| 17 | 69.64 | 108.81 | Shut-In(1) |
| 47 | 1002.92 | 108.83 | End Shut-In(1) |
| 48 | 71.35 | 108.51 | Open To Flow (2) |
| 109 | 181.58 | 111.11 | Shut-In(2) |
| 200 | 1004.36 | 111.45 | End Shut-In(2) |
| 201 | 1433.36 | 111.56 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 60.00 | OMCW 5%O 90%W 5%M | 0.30 |
| 60.00 | OMCW 15%O 80%W 5%M | 0.30 |
| 60.00 | OWCM 30%O 30%W 40%M | 0.30 |
| 60.00 | OWCM 30%O 35%W 35%M | 0.30 |
| 60.00 | WMCO 85%O 10%W 5%M | 0.30 |
| 70.00 | Oil 100%O | 0.68 |

* 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

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70560

DST#: 3

Test Start: 2023.07.30 @ 07:37:03

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2634.00 ft | Diameter: 3.88 inches | Volume: 38.52 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 335.00 ft | Diameter: 2.25 inches | Volume: 1.65 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 40.17 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 33.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 2967.00 ft | | | Final 56000.00 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

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 2937.00 | |
| Shut In Tool | 5.00 | | | 2942.00 | |
| Hydraulic tool | 5.00 | | | 2947.00 | |
| Em Tool | 3.00 | | | 2950.00 | |
| Jars | 5.00 | | | 2955.00 | |
| Safety Joint | 3.00 | | | 2958.00 | |
| Packer | 4.00 | | | 2962.00 | 31.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 2967.00 | |
| Stubb | 1.00 | | | 2968.00 | |
| Perforations | 1.00 | | | 2969.00 | |
| Recorder | 0.00 | 8369 | Outside | 2969.00 | |
| Recorder | 0.00 | 8846 | Inside | 2969.00 | |
| Perforations | 5.00 | | | 2974.00 | |
| Bullnose | 3.00 | | | 2977.00 | 10.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70560

DST#: 3

Test Start: 2023.07.30 @ 07:37:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7500 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 60.00 | OMCW 5%O 90%W 5%M | 0.295 |
| 60.00 | OMCW 15%O 80%W 5%M | 0.295 |
| 60.00 | OWCM 30%O 30%W 40%M | 0.295 |
| 60.00 | OWCM 30%O 35%W 35%M | 0.295 |
| 60.00 | WMCO 85%O 10%W 5%M | 0.295 |
| 70.00 | Oil 100%O | 0.684 |
| 0.00 | TS VSOCW 1%O 99%W | 0.000 |

Total Length: 370.00 ft

Total Volume: 2.159 bbl

Num Fluid Samples: 0

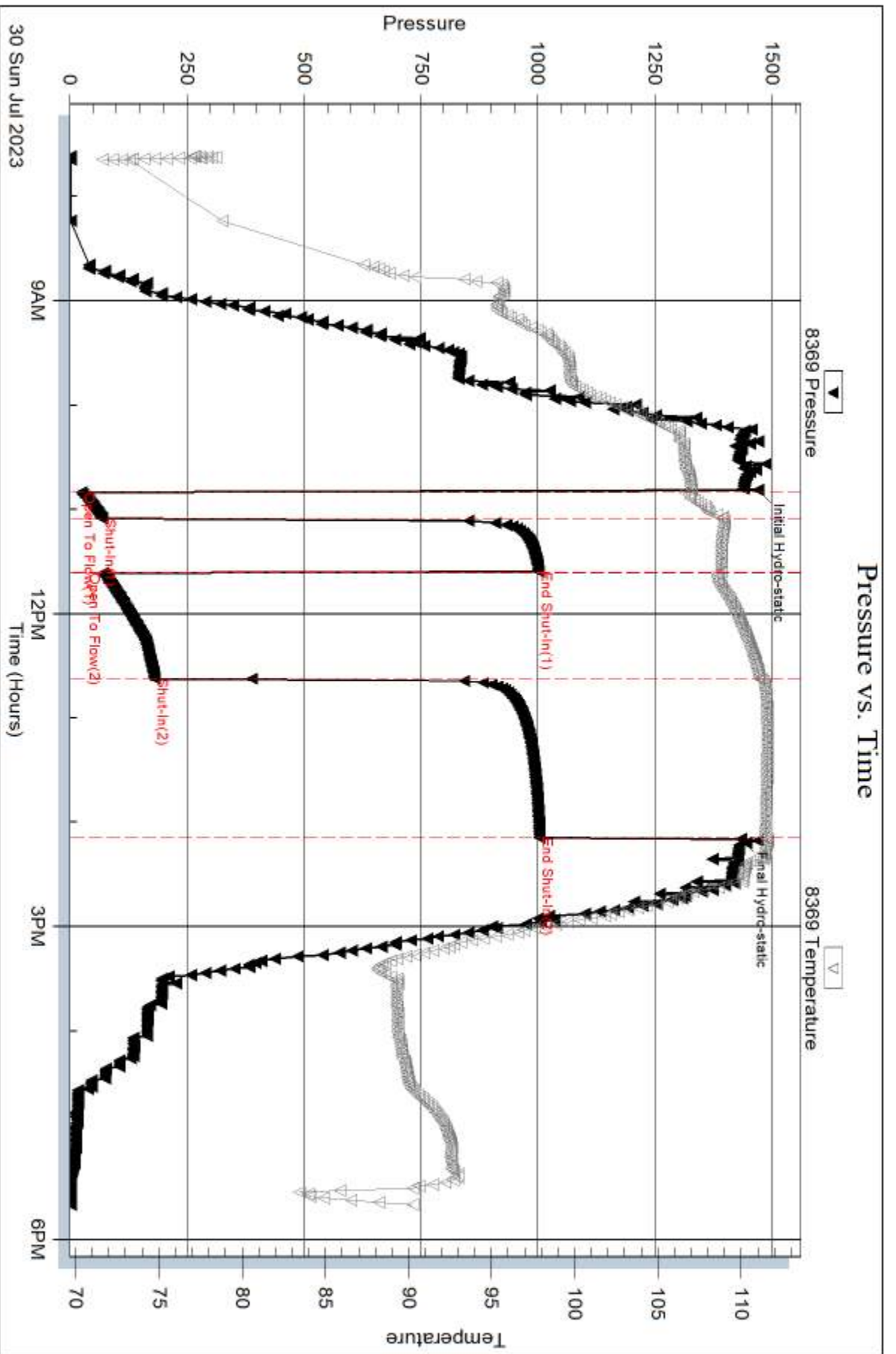
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

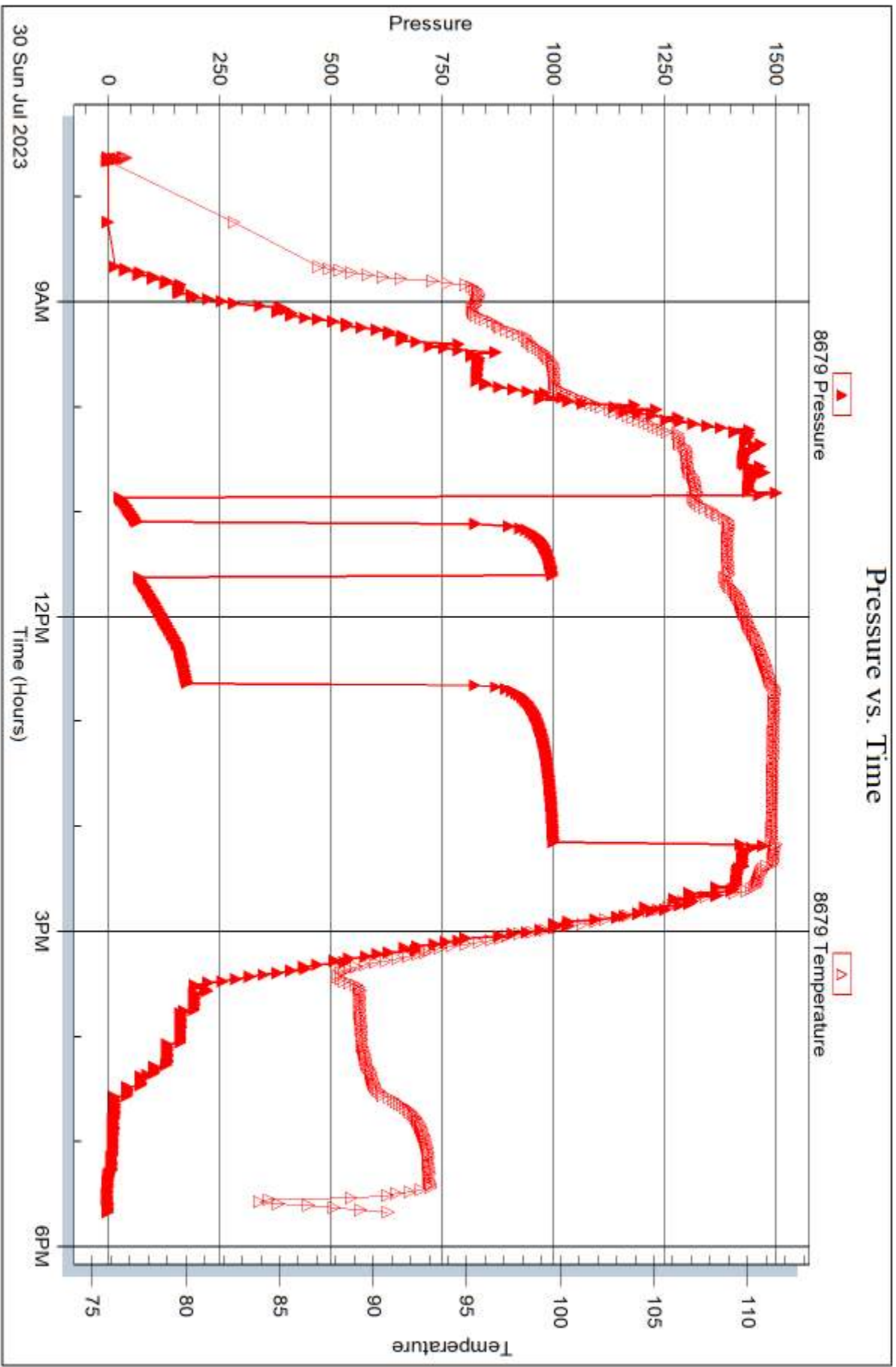


Serial #: 8679

Mull Drilling Co

Peterson Trust #6-31

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Roger Martin

Peterson Trust #6-31

31-16S-10E Lyon, KS

Start Date: 2023.07.31 @ 11:00:58

End Date: 2023.07.31 @ 19:21:18

Job Ticket #: 70561 DST #: 4

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

Printed: 2023.08.04 @ 09:09:48

Mull Drilling Co
31-16S-10E Lyon, KS
Peterson Trust #6-31
DST # 4
Simpson Sand
2023.07.31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Roger Martin

31-16S-10E Lyon, KS

Peterson Trust #6-31

Job Ticket: 70561

DST#: 4

Test Start: 2023.07.31 @ 11:00:58

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:44:08
 Time Test Ended: 19:21:18
 Interval: **3064.00 ft (KB) To 3073.00 ft (KB) (TVD)**
 Total Depth: 3073.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1306.00 ft (KB)
 1294.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8369

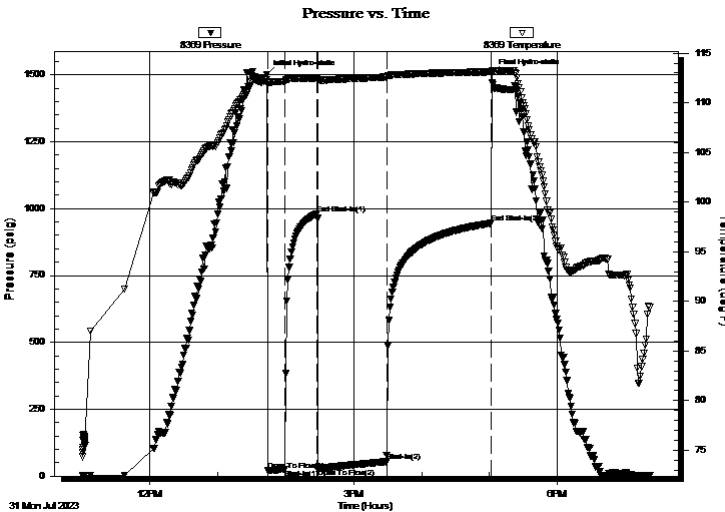
Outside

Press@RunDepth: 54.38 psig @ 3065.00 ft (KB)
 Start Date: 2023.07.31 End Date: 2023.07.31
 Start Time: 11:00:59 End Time: 19:21:18

Capacity: 8000.00 psig
 Last Calib.: 2023.07.31
 Time On Btm: 2023.07.31 @ 13:43:08
 Time Off Btm: 2023.07.31 @ 17:01:58

TEST COMMENT: IF:Weak Building Blow built to 1.01" (15)
 IS:No Blow Back. (30)
 FF:Weak Blow Built to .25" in bucket. (60)
 FS:No Blow Back. (90)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1500.61 | 112.36 | Initial Hydro-static |
| 1 | 21.12 | 112.03 | Open To Flow (1) |
| 16 | 26.58 | 112.17 | Shut-In(1) |
| 45 | 981.10 | 112.52 | End Shut-In(1) |
| 46 | 28.21 | 112.28 | Open To Flow (2) |
| 106 | 54.38 | 112.59 | Shut-In(2) |
| 199 | 945.44 | 113.12 | End Shut-In(2) |
| 199 | 1505.48 | 113.26 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 60.00 | OSMCW <1%O <70%W 30%M | 0.30 |
| 40.00 | OSW <1%O <100%W | 0.20 |
| 0.00 | TS 3%O 62%W 35%M | 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 Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkwy
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70561

DST#: 4

Test Start: 2023.07.31 @ 11:00:58

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2729.00 ft | Diameter: 3.88 inches | Volume: 39.91 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 335.00 ft | Diameter: 2.25 inches | Volume: 1.65 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 41.56 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 56000.00 lb |
| Depth to Top Packer: | 3064.00 ft | | | Final 57000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 9.00 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 | | | 3033.00 | |
| Shut In Tool | 5.00 | | | 3038.00 | |
| Hydraulic tool | 5.00 | | | 3043.00 | |
| Em Tool | 3.00 | | | 3046.00 | |
| Jars | 5.00 | | | 3051.00 | |
| Safety Joint | 3.00 | | | 3054.00 | |
| Packer | 4.00 | | | 3058.00 | 32.00 Bottom Of Top Packer |
| Packer | 6.00 | | | 3064.00 | |
| Stubb | 1.00 | | | 3065.00 | |
| Recorder | 0.00 | 8369 | Outside | 3065.00 | |
| Recorder | 0.00 | 8846 | Inside | 3065.00 | |
| Perforations | 5.00 | | | 3070.00 | |
| Bullnose | 3.00 | | | 3073.00 | 9.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

31-16S-10E Lyon,KS

1700 N Waterfront Pkw y
Bldg 1200
Witchita,KS 67206
ATTN: Roger Martin

Peterson Trust #6-31

Job Ticket: 70561

DST#: 4

Test Start: 2023.07.31 @ 11:00:58

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:

4200 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|-----------------------|---------------|
| 60.00 | OSMCW <1%O <70%W 30%M | 0.295 |
| 40.00 | OSW <1%O <100%W | 0.197 |
| 0.00 | TS 3%O 62%W 35%M | 0.000 |

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

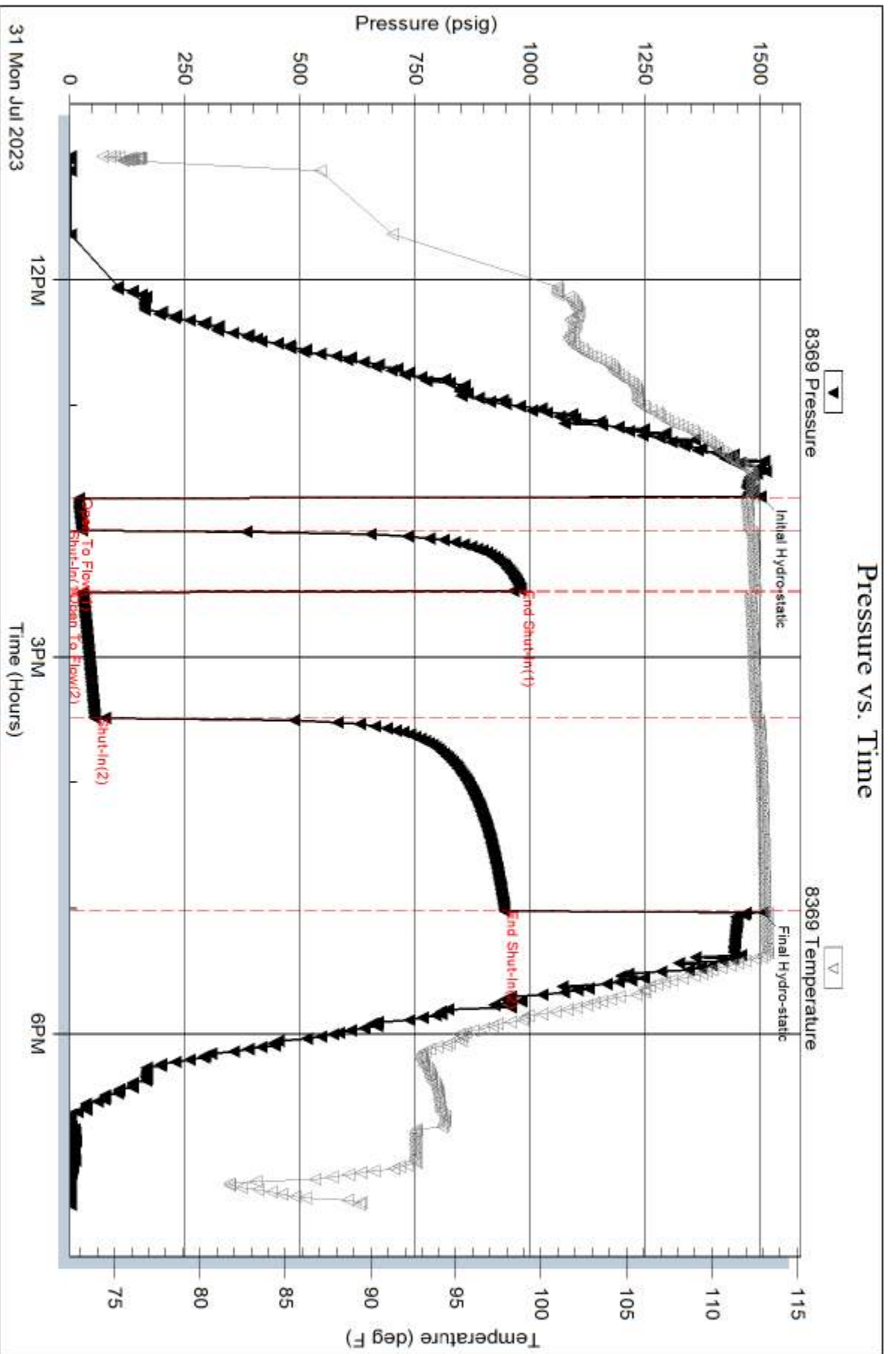
Num Gas Bombs: 0

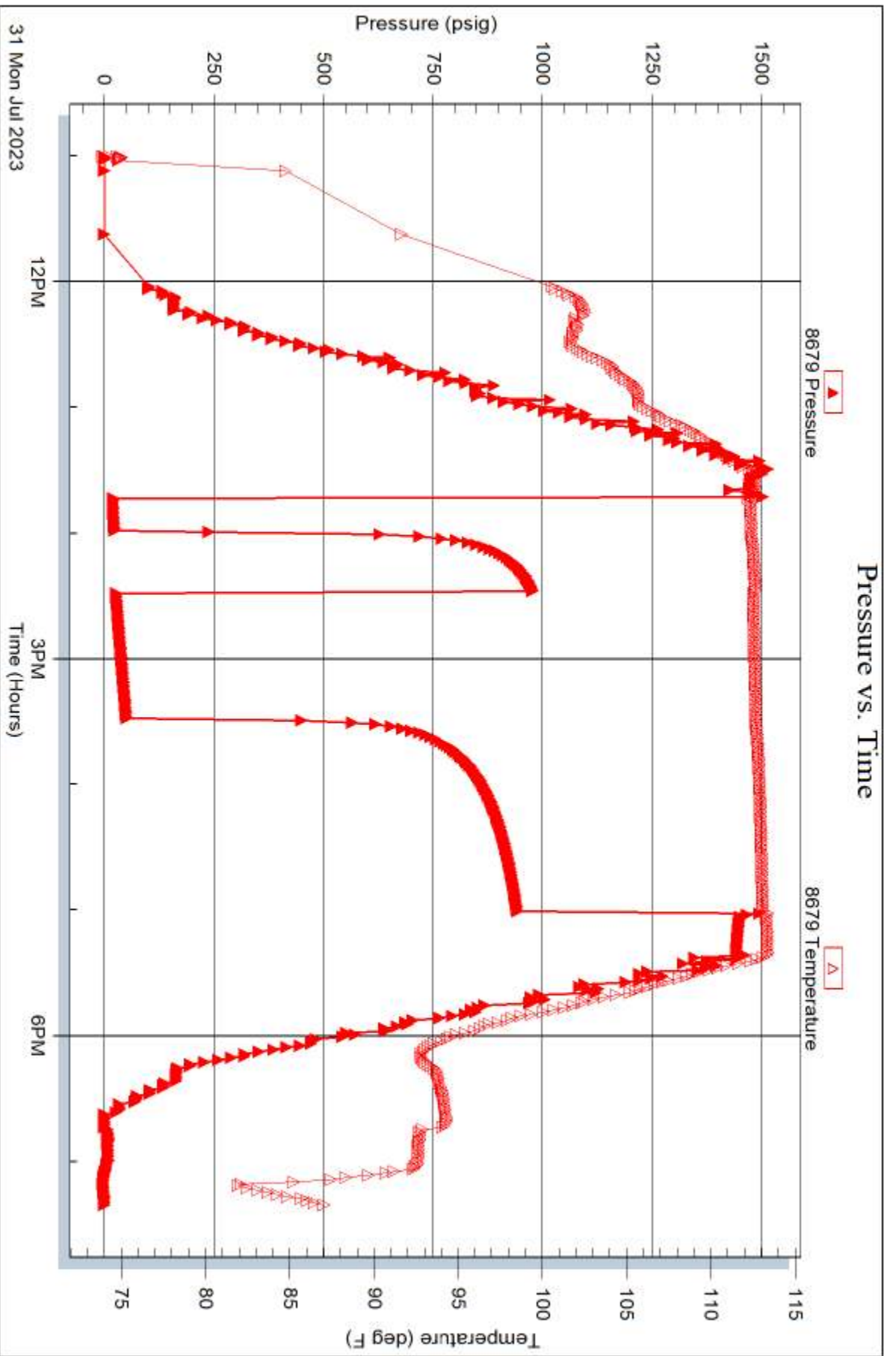
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70558

Well Name & No. Peterson Trust 6-31 Test No. 1 Date 7/28/23
 Company MILL Elevation 1306 KB 1294 GL
 Address 1700 N Water Front Pkwy Bldg 1200 White, KS. 67206
 Co. Rep / Geo Roger Martin Rig Lighthouse 3
 Location: Sec. 31 Twp 16S Rge. 10E Co. Law State KS

Interval Tested 2861' - 2870' Zone Tested Hunter
 Anchor Length 9' Drill Pipe Run 2570 Mud Wt. 9.1
 Top Packer Depth 2853 Drill Collars Run 335 Vis 37
 Bottom Packer Depth 2857' Wt. Pipe Run Ø WL 11.2
 Total Depth 2870 Chlorides 500 ppm System LCM 6

Blow Description IF: Weak Building Blow built to 52" but died back to 18" (70)
IS: no blow back. (45)
FF: Weak Blow only surface bubbles. (70)
FS: no blow back. (50)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------|------|----------|-----------|----------|
| <u>60</u> | <u>OSMW</u> | | | <u>95</u> | <u>5</u> |
| <u>TS</u> | <u>VSO m.c.w</u> | | <u>2</u> | <u>93</u> | <u>5</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 60 BHT 110 Gravity _____ API RW 1.64 @ 74 °F Chlorides 3800 ppm

Initial Hydrostatic 1381 Test 1800 Ruined Shale Packer _____
 Initial Flow 18 to 30 Jars 300 Ruined Packer _____
 Initial Shut-In 1033 Circ Sub _____ Hotel Left on location after test
 Final Flow 32 to 45 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 1027 Mileage 320 150mi 262.50 Accessibility _____
 Final Hydrostatic 1339 Sampler _____ Gas Sample _____
 T-On Location 1400 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 1507 Shale Packer 250 Sub Total 0
 Initial Shut-In 45 T-Open 1732 Extra Packer _____ Total 2602.50
 Final Flow 30 T-Pulled 1959 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 30 T-Out 2209 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70559

Well Name & No. Peterson Trust 6-31 Test No. 2 Date 7/29/23
 Company Mull Elevation 1306 KB 1294 GL
 Address 1700 N Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo Robert Martin Rig Lightwell 3
 Location: Sec. 31 Twp 16S Rge. 10E Co. Lyon State KS

Interval Tested 2964'-2965' Zone Tested Viola
 Anchor Length 3' Drill Pipe Run 2603' Mud Wt. 9.2
 Top Packer Depth 2956' Drill Collars Run 335' Vis 42
 Bottom Packer Depth 2960' Wt. Pipe Run Ø WL 9.6
 Total Depth 2967' Chlorides 900 ppm System LCM 5

Block Description IF: Fair Building Blow built to 3.17" (15)
ISL: No Blow Back. (30)
FF: Fair Building Blow built to 5.56" (60)
FSI: NO Blow Back. (90)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|-------------|------|------------|-----------|-----------|
| <u>40</u> | <u>Oil</u> | | <u>100</u> | | |
| <u>60</u> | <u>Oil</u> | | <u>100</u> | | |
| <u>60</u> | <u>Oil</u> | | <u>100</u> | | |
| <u>60</u> | <u>WACO</u> | | <u>90</u> | <u>5</u> | <u>5</u> |
| <u>60</u> | <u>OMCW</u> | | <u>25</u> | <u>40</u> | <u>35</u> |
| <u>TS</u> | <u>OCW</u> | | <u>5</u> | <u>95</u> | |
| | | | | | |

Rec Total 280 BHT 113 Gravity 37060 API RW 1.05 @ 72 °F Chlorides 6000 ppm

Initial Hydrostatic 1448 Test 1800 Ruined Shale Packer
 Initial Flow 22 to 44 Jars 300 Ruined Packer
 Initial Shut-In 1000 Circ Sub Hotel Stayed on Location until 10
 Final Flow 48 to 123 Hourly Standby EM Tool Successful
 Final Shut-In 1002 Mileage 320 Accessibility
 Final Hydrostatic 1425 Sampler Gas Sample
 T- On Location location location Straddle Oversized Hole
 Initial Flow 15 T-Started 1334 Shale Packer 250 Sub Total 0
 Initial Shut-In 30 T-Open 1620 Extra Packer Total 2350
 Final Flow 60 T-Pulled 1744 Extra Recorder Tool Loaded @
 Final Shut-In 90 T-Out 8321 Day Standby MP/DST Disc't

Comments Run only one recorder due to short anchor,

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70560

Well Name & No. Peterson Trust 6-31 Test No. 3 Date 7/30/23
 Company Mull Elevation 1306 KB 1294 GL
 Address 1700 W. Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo Roger Martin Rig Lighthouse 3
 Location: Sec. 31 Twp 16 S Rge. 10E Co. Lyon State KS

Interval Tested 2767' - 2777' Zone Tested Viola
 Anchor Length 10' Drill Pipe Run 2634' Mud Wt. 9.0
 Top Packer Depth 2759' Drill Collars Run 335' Vis 49
 Bottom Packer Depth 2963' Wt. Pipe Run Ø WL 9.6
 Total Depth 2977' Chlorides 900 ppm System LCM 6

Blow Description IF: Fair Building Blow built 3.86" (151)
ISI: no Blow Back. (70)
FF: fair Building Blow built 5.30" (160)
FST: no Blow Back. (90)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
| 70' | oil | | 100 | | |
| 60 | WACO | | 85 | 10 | 5 |
| 60 | OWCM | | 30 | 35 | 35 |
| 60 | OWCM | | 30 | 30 | 40 |
| 60 | OWCW | | 15 | 80 | 5 |
| 60 | OWCW | | 5 | 90 | 5 |
| TS | OWSCW | | 1 | 99 | |

Rec Total 370 BHT _____ Gravity 37 API RW .84 @ 70 °F Chlorides 7500 ppm
 Initial Hydrostatic 1470 Test 1800 Ruined Shale Packer _____
 Initial Flow 25 to 70 Jars 300 Ruined Packer _____
 Initial Shut-In 1003 Circ Sub _____ Hotel Stayed on location
 Final Flow 71 to 182 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 1004 Mileage 320 20mi to hotel Accessibility _____
 Final Hydrostatic 1433 Sampler _____ 35 Gas Sample _____
 T- On Location Stayed Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 1007 0737 Shale Packer 250 Sub Total 0
 Initial Shut-In 30 T-Open 1049 Extra Packer _____ Total 2385
 Final Flow 60 T-Pulled 1407 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 90 T-Out 1740 Day Standby _____ MP/DST Disc't _____

Comments _____
 Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70561

Well Name & No. Peterson Trust 6-31 Test No. 4 Date 7/31/23
 Company Mull Elevation 1306 KB 1294 GL
 Address 1700 N Water Street Pkwy Bldg 1200 Wichita, KS 67208
 Co. Rep / Geo. Roger Martin Rig Light house 3
 Location: Sec. 31 Twp 16S Rge. 10E Co. Lyon State KS

Interval Tested 3064' - 3073' Zone Tested SIMPSON sand
 Anchor Length 9' Drill Pipe Run 2729' Mud Wt. 9.3
 Top Packer Depth 3056' Drill Collars Run 335' Vis 47
 Bottom Packer Depth 3060' Wt. Pipe Run Ø WL 10
 Total Depth 3073' Chlorides 1200 ppm System LCM #6

Blow Description IF: Weak Building Blow built to 1.01" (K)
ISL: No Blow Back (30)
FF: Weak Blow Built to .25" in bucket (60)
FSL: No Blow Back (90)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|---------------|--------------|------------|-----------|----------|
| <u>40</u> | <u>OSW</u> | <u><1</u> | <u>100</u> | <u>0</u> | <u>0</u> |
| <u>60</u> | <u>OSACW</u> | <u><1</u> | <u>70</u> | <u>30</u> | <u>0</u> |
| <u>TS</u> | <u>VSOMCW</u> | <u>3</u> | <u>62</u> | <u>35</u> | <u>0</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 100 BHT 113 Gravity 1.23 @ 75 °F Chlorides 4200 ppm
 Initial Hydrostatic 1501 Test 1800 Ruined Shale Packer
 Initial Flow 21 to 27 Jars 300 Ruined Packer
 Initial Shut-In 981 Circ Sub Hotel
 Final Flow 28 to 54 Hourly Standby EM Tool Successful NOT WORKING -350
 Final Shut-In 945 Mileage 380 Accessibility
 Final Hydrostatic 1508 Sampler 252.50 + 525 Gas Sample
 Straddle Oversized Hole

Initial Flow 15 T-On Location 1027 Shale Packer 250 Sub Total -350
 Initial Shut-In 30 T-Started 1100 Extra Packer Total 3127.50
 Final Flow 60 T-Open 1337 Extra Recorder Tool Loaded 8/1 @ 16:00
 Final Shut-In 90 T-Pulled 1653 Day Standby MP/DST Disc't

Comments Went back to Pratt for another shale packer at Roger's request for a straddle.

Approved By _____ Our Representative [Signature]

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GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

| | |
|--|--|
| COMPANY MULL DRILLING CO., INC. | ELEVATIONS |
| LEASE PETERSON TRUST #6-31 | KB 1306' GL 1294' |
| FIELD RAINBOW RIDGE NORTHWEST | Measurements Are All From KB |
| LOCATION 335' FSL & 435' FWL | API # 15-111-20565 |
| SECTION 31 TOWNSHIP 16S RANGE 10E | |
| COUNTY LYON STATE KANSAS | |
| CONTRACTOR LIGHTHOUSE DRILLING, Rig #1 | CASING |
| SPUD 07/24/2023 COMP 08/01/2023 | SURFACE 222' 13.38" set @ 222' w/200 sks Class A, 3% CC, 2% Gel, 1/4" sk Floeal. |
| RTD 3200' LTD 3200' | PRODUCTION 73 jts 5 1/2" csg set @ 3183.42' w/315 sks Poz, 125 sks ThickSet. |
| ELECTRICAL SURVEYS | |
| ELI: DIL, CDL/CNL/PE MEL/SONIC | |

| FORMATION TOPS | LOG | SAMPLES | CHRONOLOGY |
|------------------|---------------|---------------|--|
| MISSISSIPPIAN LS | 2407' (-1101) | 2396' (-1090) | 07/24/2023- MIRU Lighthouse Drilling, Rig #1. SPUD 12 1/4" hole. |
| KINDERHOOK | 2718' (-1412) | 2717' (-1411) | 07/25/2023- TOH @ 222' @ 7 AM. Run 202' 13.38", cnt w/200 sks Class A, 3% cc, 2% gel, 1/4" Floeal/ sk. |
| HUNTON | 2861' (-1555) | 2860' (-1554) | 07/26/2023- Drlg @ 372' @ 7 AM. SHS @ 531' = 0 deg, SHS @ 1008' = 1/2 deg. SHS @ 1516' = 1 deg. |
| MAQUOKETA | 2893' (-1587) | 2893' (-1587) | 07/27/2023- SHS @ 2023' @ 7 AM. SHS @ 2500' = 1 deg |
| VIOLA | 2963' (-1657) | 2963' (-1657) | 07/28/2023- CFS @ 2860' @ 7 AM. Run DST #1. |
| SIMPSON DOLO | 3047' (-1741) | 3044' (-1738) | 07/29/2023- Drlg @ 2950' @ 7 AM. Run DST #2. |
| SIMPSON SD | 3073' (-1767) | 3068' (-1762) | 07/30/2023- TOH @ 2977' @ 7 AM. Run DST #3. |
| ARBUCKLE | 3121' (-1815) | 3122' (-1816) | 07/31/2023- WOO @ 3073' @ 7 AM. Short trip 5 stands. |
| RTD/LTD | 3200' (-1894) | 3200' (-1894) | 08/01/2023- Drlg @ 3180' @ 7 AM. Run OH E-logs, Run 5 1/2" production casing. Release rig @ 7 AM 08/02/2023. |

REMARKS:

08/01/2023- Run 73 joints new 5 1/2" 14# casing = 3171.42', set @ 3183.42', Shoe joint = 44.16', Latched plug @ 3139.26'.
Centralizers on Jts #2, 3, 4, 5, 6, 7, 8, 9, 11, 36. Baskets on Jt #10 @ 2764.04' & #37 @ 1594.19'. CTCM to 40 vis LH Elite
Cementing, pumped 10 bbl water, 315 sks 60/40 poz w/ 8% gel & 125 sks Thickest cement, displaced plug w/ 78 bbl fresh
water w/ KCl in first 40 bbl, lift pressures up to 1300#, plug landed @ 1700#, Released pressure, Latched
down held, circ 6 bbl cement to pit. Plug down @ 5:20 AM 08/02/2023. Plugged RH w/ 20 sks & MH w/ 15 sks 60/40 poz.

Respectfully submitted,
Roger L. Martin, Geologist

