

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 Recompletion Date _____ 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 7-31
Doc ID	1727654

All Electric Logs Run

MICRO
SONIC
DUAL INDUCTION
COMPENSATED DENSITY NEUTRON PE

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	PETERSON TRUST 7-31
Doc ID	1727654

Tops

Name	Top	Datum
Lansing	1420	-107
Cherokee	2058	-745
Mississippi	2401	-1088
Kinderhook	2720	-1407
Hunton	2863	-1550
Viola	2964	-1651
Simpson	3046	-1733
Arbuckle	3119	-1806



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

1700 N Waterfront Parkway
Building #1200
Wichita KS 67206-6637

ATTN: Roger Martin

Peterson Trust #7-31

31-16S-10E Lyon KS

Start Date: 2023.08.12 @ 14:23:00

End Date: 2023.08.12 @ 23:41:22

Job Ticket #: 71130 DST #: 1

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

Printed: 2023.08.14 @ 08:18:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company Inc
 1700 N Waterfront Parkway
 Building #1200
 Wichita KS 67206-6637
 ATTN: Roger Martin

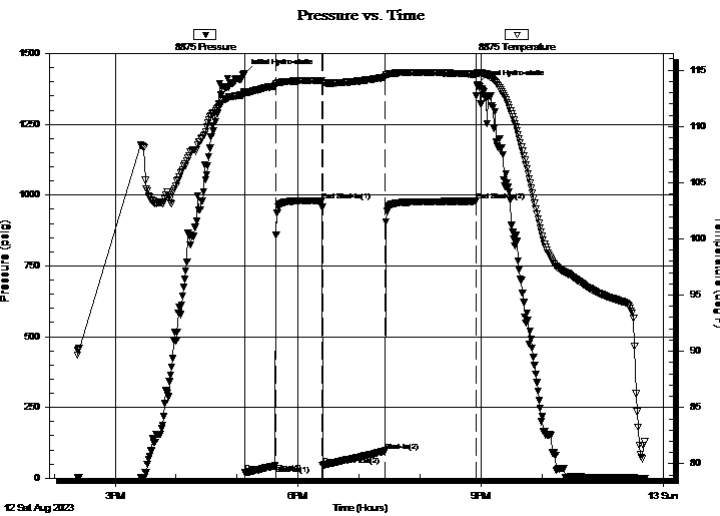
31-16S-10E Lyon KS
Peterson Trust #7-31
 Job Ticket: 71130 **DST#: 1**
 Test Start: 2023.08.12 @ 14:23:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:07:27
 Time Test Ended: 23:41:22
 Interval: **2963.00 ft (KB) To 2966.00 ft (KB) (TVD)**
 Total Depth: 2966.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1313.00 ft (KB)
 1301.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 96.59 psig @ 2964.00 ft (KB) Capacity: psig
 Start Date: 2023.08.12 End Date: 2023.08.12 Last Calib.: 2023.08.12
 Start Time: 14:23:01 End Time: 23:41:21 Time On Btm: 2023.08.12 @ 17:07:12
 Time Off Btm: 2023.08.12 @ 20:56:22

TEST COMMENT: 30-IF-Surface to 3.25"
 45-ISI-No Return
 60-FF-Surface to 5.5"
 90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1430.45	113.08	Initial Hydro-static
1	18.99	112.90	Open To Flow (1)
31	44.24	113.63	Shut-In(1)
77	980.61	114.08	End Shut-In(1)
77	45.81	113.78	Open To Flow (2)
139	96.59	114.41	Shut-In(2)
229	979.05	114.63	End Shut-In(2)
230	1391.72	114.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Thin Mud w/oil spots 100%M	0.02
215.00	Oil 100%O	1.06
0.00	Tool Sample= MCO 10%M 90%O	0.00
0.00	Gravity=19	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company Inc

31-16S-10E Lyon KS

1700 N Waterfront Parkway
Building #1200
Wichita KS 67206-6637
ATTN: Roger Martin

Peterson Trust #7-31

Job Ticket: 71130

DST#: 1

Test Start: 2023.08.12 @ 14:23:00

Tool Information

Drill Pipe:	Length: 2599.00 ft	Diameter: 3.82 inches	Volume: 36.84 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 336.00 ft	Diameter: 2.25 inches	Volume: 1.65 bbl	Weight to Pull Loose:	64000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	56000.00 daN
Drill Pipe Above KB:	4.00 ft			Final	57000.00 daN
Depth to Top Packer:	2963.00 ft				
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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2932.00	
Shut In Tool	5.00			2937.00	
Hydraulic tool	5.00			2942.00	
Jars	5.00			2947.00	
Gap Sub	4.00			2951.00	
Safety Joint	3.00			2954.00	
Packer	5.00			2959.00	32.00 Bottom Of Top Packer
Packer	4.00			2963.00	
Stubb	1.00			2964.00	
Recorder	0.00	8875	Inside	2964.00	
Bullnose	2.00			2966.00	3.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company Inc

31-16S-10E Lyon KS

1700 N Waterfront Parkway
Building #1200
Wichita KS 67206-6637
ATTN: Roger Martin

Peterson Trust #7-31

Job Ticket: 71130

DST#: 1

Test Start: 2023.08.12 @ 14:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Thin Mud w /oil spots 100%M	0.025
215.00	Oil 100%O	1.057
0.00	Tool Sample= MCO 10%M 90%O	0.000
0.00	Gravity=19	0.000

Total Length: 220.00 ft

Total Volume: 1.082 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

Serial #: 8875

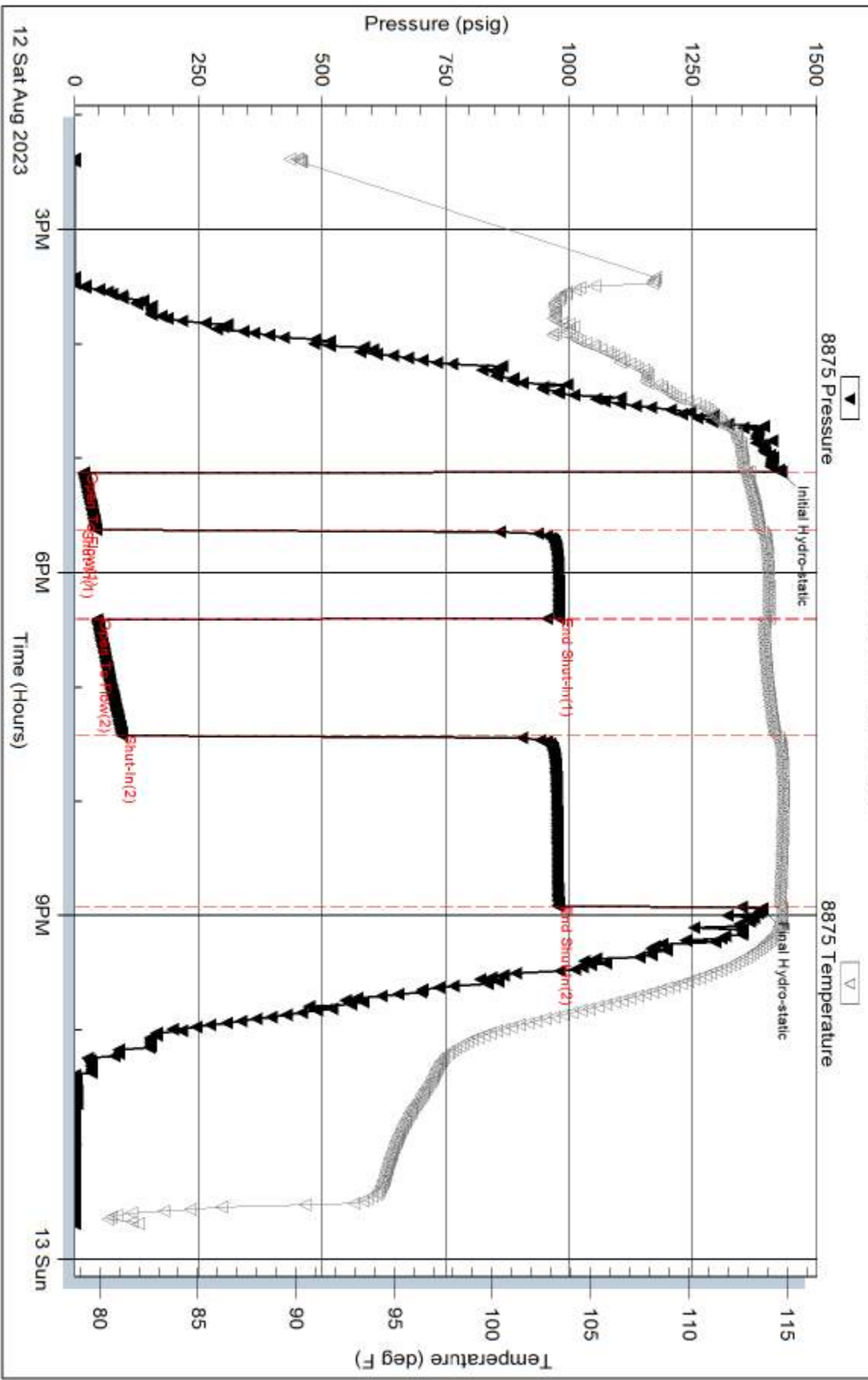
Inside

Mull Drilling Company Inc

Peterson Trust#7-31

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 71130

Printed: 2023.08.14 @ 08:18:42



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71130

Well Name & No. Peterson Trust #7-31 Test No. 1 Date 08/12/2023
 Company Mull Drilling Company Inc Elevation 1313 KB 1301 GL
 Address 1700 N Waterfront Parkway Building #1200 Wichita KS 67206-6637
 Co. Rep / Geo Roger Martin Rig Lighthouse
 Location: Sec. 31 Twp 16S Rge. 10E Co. nyon State KS

Interval Tested 2963' - 2966' Zone Tested Viola
 Anchor Length 3' Drill Pipe Run 2599' Mud Wt. 9.3
 Top Packer Depth 2958' Drill Collars Run 336' Vis 40
 Bottom Packer Depth 2963' Wt. Pipe Run - WL 10.0
 Total Depth 2966' Chlorides 1000 ppm System LCM 3H

Blow Description 17-Surface to 3.25"
150-No Return
77-Surface to 5.5"
78-No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Thin Mud w/oil spots</u>			<u>100</u>	
<u>215</u>	<u>Oil</u>		<u>100</u>		
	<u>Tool sample = MCO</u>		<u>90</u>	<u>10</u>	

Rec Total 220' BHT 114° Gravity 19° API RW - @ - *F Chlorides - ppm
 Initial Hydrostatic 14130 Test 1800 Ruined Shale Packer
 Initial Flow 18 to 44 Jars 300 Ruined Packer
 Initial Shut-In 980 Circ Sub Hotel
 Final Flow 45 to 96 Hourly Standby 2 200 EM Tool Successful -350
 Final Shut-In 979 Mileage 328R7 300rt 525 Accessibility
 Final Hydrostatic 1391 Sampler Gas Sample
 T-On Location 11:25 Straddle Oversized Hole
 Initial Flow 30 T-Started 14:23 Shale Packer 250 Sub Total -350
 Initial Shut-In 45 T-Open 17:07 Extra Packer Total 2725
 Final Flow 60 T-Pulled 20:52 Extra Recorder Tool Loaded @
 Final Shut-In 90 T-Out 23:41 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative Spencer J. Jacobs Thanks!

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. 785-259-0056

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY MULL DRILLING CO., INC.		ELEVATIONS	
LEASE PETERSON TRUST #7-31	KB 1313'	GL 1301	
FIELD RAINBOW RIDGE NORTHWEST		Measurements Are All	
LOCATION 335' FSL & 650' FWL		From KB	
SECTION 31	TOWNSHIP 16S	RANGE 10E	API # 15-111-20566
COUNTY LYON	STATE KANSAS		

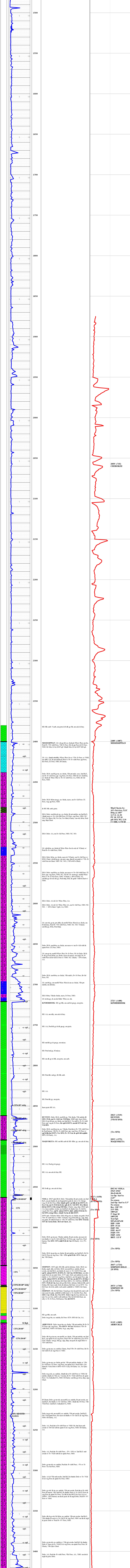
CONTRACTOR LIGHTHOUSE DRILLING, Rig #1	CASING
SPUD 08/08/2023	5.88" @ 210' KB
RTD LRTD3230';FRTD3445'	3230'
ELI DIL. CDU/CNL/PE, MEL/SONIC	PRODUCTION 5.12" @ 3166.36'

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
LANSING	1429' (-107)	1421' (-108)	08/08/2023: SIBU Lighthouse Drilling, Rig #1. SPUD 12:10' into hole. DTD 22:00. Run 8.58" surface casing. cut @ 210'
CHEROKEE	2058' (-745)	2058' (-745)	08/09/2023: WDC @ 228' @ 7 AM. SIBS @ 7:19" - 14 deg. SIBS @ 1228" - 1/2 deg.
MISSISSIPPIAN	2401' (-1088)	2400' (-1087)	08/10/2023: Drig @ 1404' @ 7 AM. Run @ 1:14 deg.
KINDERHOOK	2429' (-1407)	2721' (-1408)	08/12/2023: Drig @ 1404' @ 7 AM. SIBS @ 17:50" - 1 deg. SIBS @ 22:45" @ 7 AM. LTO 2138'
HUNTON	2863' (-1438)	2862' (-1439)	08/13/2023: Drig @ 1404' @ 7 AM. SIBS @ 17:50" - 1 deg. SIBS @ 22:45" @ 7 AM. LTO 2138'
MAOQUOKETA	2882' (-1459)	2882' (-1459)	08/13/2023: Drig @ 1404' @ 7 AM. SIBS @ 17:50" - 1 deg. SIBS @ 22:45" @ 7 AM. LTO 2138'
VIOLA	2964' (-1453)	2963' (-1454)	08/12/2023: CFS @ 2865' @ 7 AM. Wiper Trip, DST #1.
SIMPSON DOLO	3046' (-1733)	3047' (-1734)	08/13/2023: Drig @ 1404' @ 7 AM. Wiper Trip, DST #1.
SIMPSON SD	3070' (-1757)	3073' (-1760)	08/13/2023: Drig @ 1404' @ 7 AM. Wiper Trip, DST #1.
ARBUCKLE	3119' (-1806)	3118' (-1805)	08/13/2023: Drig @ 1404' @ 7 AM. Wiper Trip, DST #1.
GRANITE WASH	3433' (-2120)	3433' (-2120)	08/15/2023: THH - w bit @ 3230' @ 7 AM. DTD 22:00. Run 5.12" production casing.
FRTD	-	3445' (-2132)	08/15/2023: Release rig @ 4:30 AM.

REMARKS:

Run 75 joints new 5.12" x 14ft casing wiper shoe split 3174.36', set @ 3166.36'.
 Latched down @ 3165.20'. Centralizers on jts #2, #3, #4, #5, #6, #7, #8, #9, #11, #66.
 Baskets on jts #18, #37.

Respectfully submitted,
 Roger L. Martin, Geologist





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company Inc
 1700 N Waterfront Parkwy
 Building #1200
 Wichita KS 67206-6637
 ATTN: Roger Martin

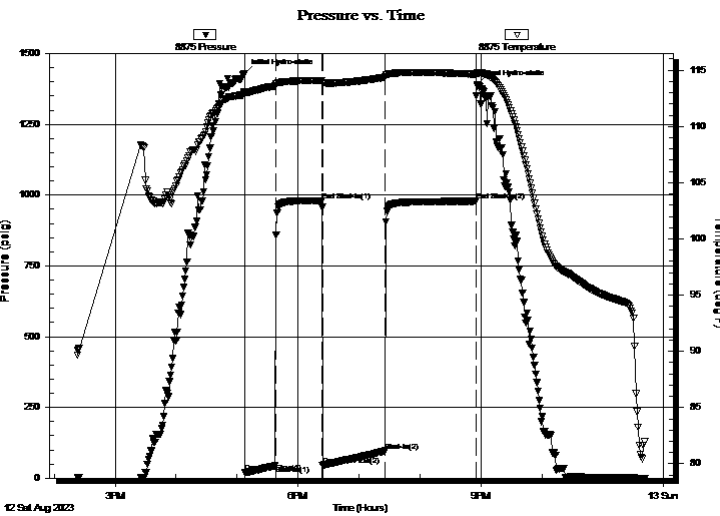
31-16S-10E Lyon KS
Peterson Trust #7-31
 Job Ticket: 71130 **DST#: 1**
 Test Start: 2023.08.12 @ 14:23:00

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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1313.00 ft (KB)
 1301.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 96.59 psig @ 2964.00 ft (KB) Capacity: psig
 Start Date: 2023.08.12 End Date: 2023.08.12 Last Calib.: 2023.08.12
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PRESSURE SUMMARY

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Recovery

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215.00	Oil 100%O	1.06
0.00	Tool Sample= MCO 10%M 90%O	0.00
0.00	Gravity=19	0.00

Gas Rates

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

Serial #: 8875

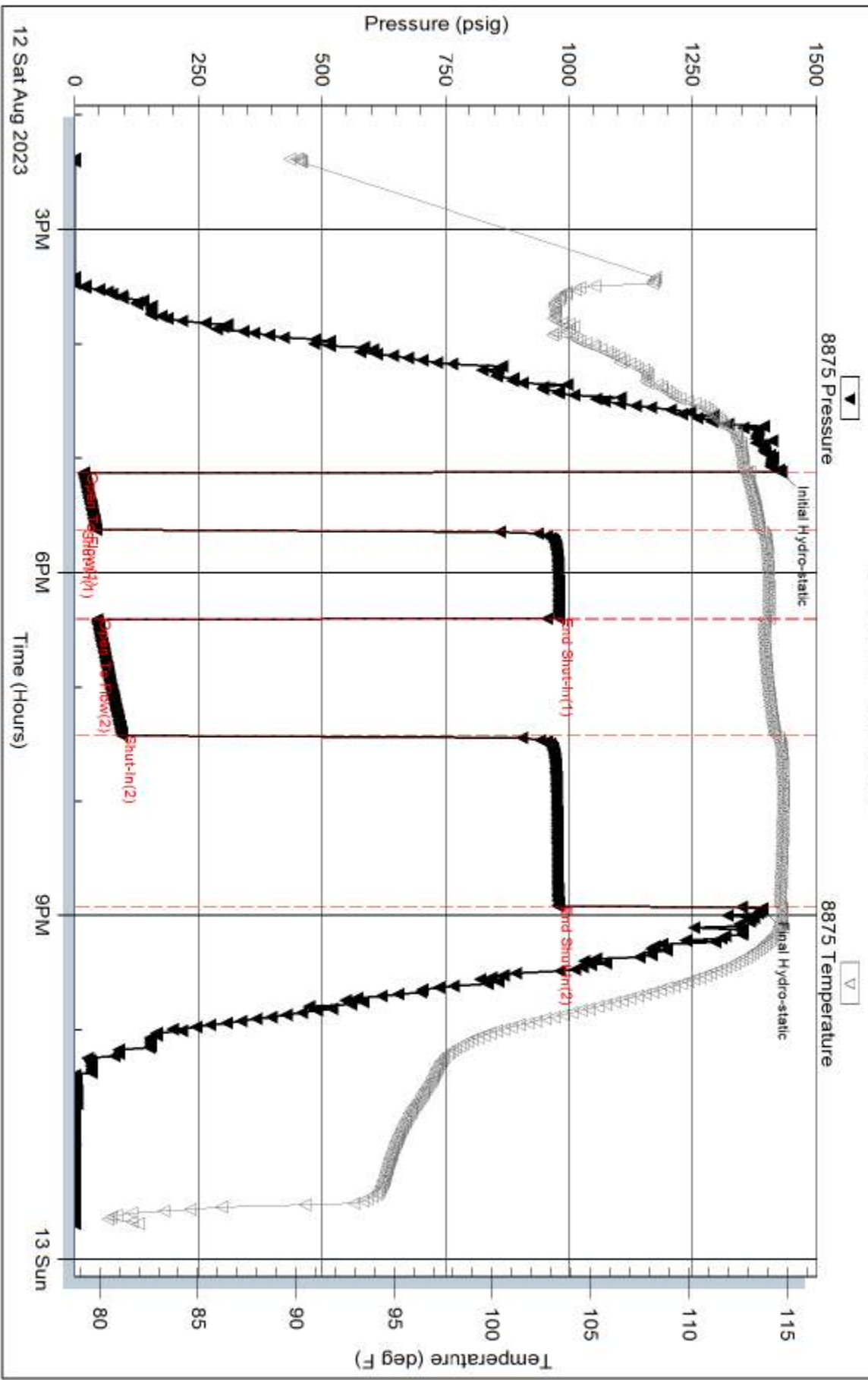
Inside

Mull Drilling Company Inc

Peterson Trust#7-31

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 71130

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