

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	GILLASPIE UNIT 1-1
Doc ID	1547068

All Electric Logs Run

CDL/CNL/PE
DIL
SONIC
MEL

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	GILLASPIE UNIT 1-1
Doc ID	1547068

Tops

Name	Top	Datum
Oread	1134	+ 333
Heebner	1155	+ 312
Lansing	1386	+ 81
Stark	1647	- 180
B/KC	1693	- 226
Cherokee	1833	- 366
Arbuckle	1877	- 410
Granite Wash	2038	- 571
Granite	2047	- 580

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



Cement or Acid Field Report
 Ticket No. **5262**
 Foreman Kevin McCoy
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
10-17-20	1397	Gillaspie Unit #1-1	1	16S	7E	MORRIS	Ks	
Customer <u>MULL DRILLING COMPANY, INC.</u>			Safety Meeting <u>KM</u> <u>AM</u> <u>JV</u>		Unit #	Driver	Unit #	Driver
Mailing Address <u>1700 N. WATERFRONT PKWY Bldg 1200</u>					<u>104</u>	<u>ALAN M.</u>		
City <u>Wichita</u>			State <u>Ks</u>		Zip Code <u>67206</u>			
					<u>112</u>	<u>Josh V.</u>		

Job Type SURFACE Hole Depth 232' KB Slurry Vol. 42 BBL Tubing _____
 Casing Depth 212' G.L. Hole Size 12 1/4" Slurry Wt. 15 # Drill Pipe _____
 Casing Size & Wt. 8 5/8" 23 # Cement Left in Casing 20' Water Gal/SK 6.5 Other _____
 Displacement 13.2 BBL Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: SAFETY Meeting: Rig up to 8 5/8 Casing. Circulate w/ mud pump for 15 mins to try to seal off fluid loss area. Mixed 115 SKS CLASS A Cement w/ 3% CACL2 2% Gel, 1/4" FLOSEAL/SK @ 15 #/GAL = 28 BBL Slurry. Displace w/ 13.2 BBL water. Shut casing in. Note: Did not have complete fluid returns to surface while mixing & displacing cement. No cement to surface. Fluid fell back ~ 30' below G.L.
went to Eureka to get more cement & 1" tubing. wash down 1" Hydril tubing on annulus of 8 5/8 casing tag firm cement @ 71' below G.L. Mixed 60 SKS CLASS A Cement w/ 3% CACL2, 2% Gel, 1" Pheno Seal /SK @ 15 #/GAL = 14 BBL Slurry. Good cement to surface. Pull 1" tubing. Annulus standing full of cement.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	890.00	890.00
C 107	70	Mileage	4.20	294.00
C 200	175 SKS	CLASS A Cement	15.75	2756.25
C 205	495 #	CACL2 3%	.63 #	311.85
C 206	330 #	Gel 2%	.21 #	69.30
C 209	30 #	FLOSEAL 1/4 #/SK (IN 115 SKS)	2.35 #	70.50
C 208	60 #	PHENOSEAL 1 #/SK (IN 60 SKS)	1.30 #	78.00
C 108 B	8.22 TONS	Ton Mileage 70 miles	1.40	805.56
			Sub Total	5275.46
			Less 5%	276.09
			Sales Tax	246.44
Authorization <u>witnessed By CHARLIE COULTER Title Lighthouse Drilling</u>			Total	5245.81

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 Company, Inc.**

1700 North Waterfront Pkwy
Building 1200
Wichita, KS 67206

ATTN: Rusty Mourning

Gillaspie Unit #1-1

1-16S-7E Morris,KS

Start Date: 2020.10.18 @ 16:59:00

End Date: 2020.10.18 @ 21:57:09

Job Ticket #: 66608 DST #: 1

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

Printed: 2020.10.21 @ 10:27:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront Pkwy
 Building 1200
 Wichita, KS 67206
 ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66608

DST#: 1

Test Start: 2020.10.18 @ 16:59:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:30

Time Test Ended: 21:57:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **1387.00 ft (KB) To 1427.00 ft (KB) (TVD)**

Reference Elevations: 1467.00 ft (KB)

Total Depth: 1427.00 ft (KB) (TVD)

1455.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 43.85 psig @ 1388.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.18

End Date:

2020.10.18

Last Calib.: 2020.10.18

Start Time: 16:59:01

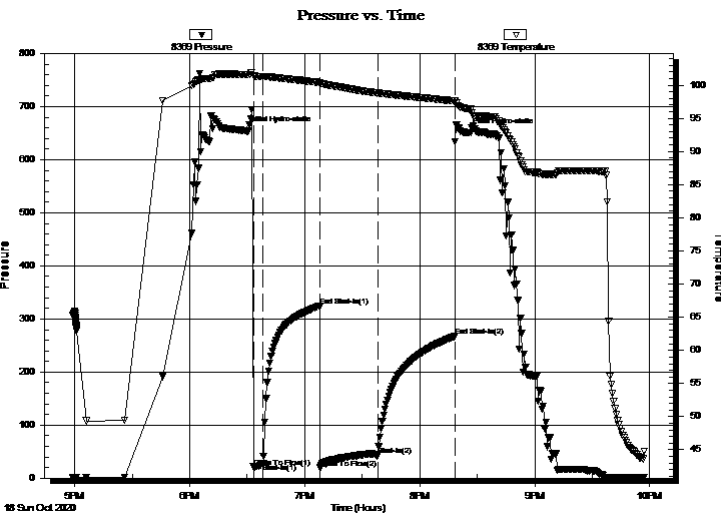
End Time:

21:57:10

Time On Btm: 2020.10.18 @ 18:27:40

Time Off Btm: 2020.10.18 @ 20:24:10

TEST COMMENT: IF - Strong blow throughout. Built to 175"
 FF - Strong blow throughout. Built to 145"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	655.20	101.63	Initial Hydro-static
6	20.38	101.37	Open To Flow (1)
11	27.90	101.30	Shut-In(1)
40	324.36	100.39	End Shut-In(1)
41	19.45	100.27	Open To Flow (2)
71	43.85	98.81	Shut-In(2)
111	267.26	97.61	End Shut-In(2)
117	651.55	96.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSSWCM Tr O 8%W & 92%M	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.
1700 North Waterfront Pkw y
Building 1200
Wichita, KS 67206
ATTN: Rusty Mourning

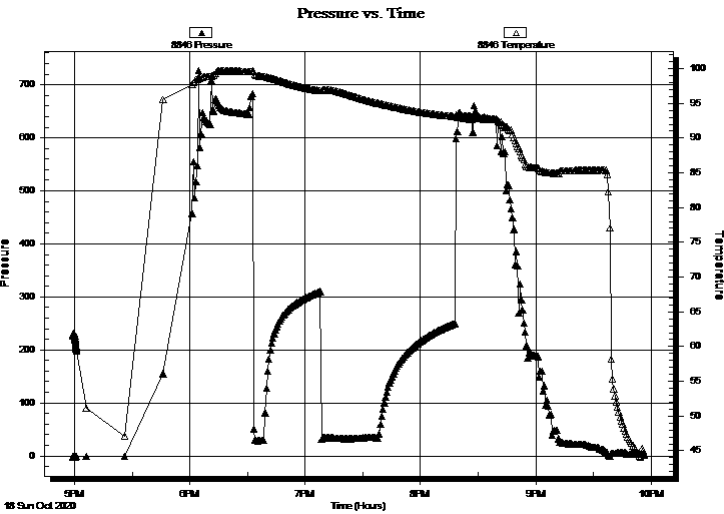
1-16S-7E Morris, KS
Gillaspie Unit #1-1
Job Ticket: 66608 **DST#: 1**
Test Start: 2020.10.18 @ 16:59:00

GENERAL INFORMATION:

Formation: **Lansing**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:33:30 Tester: Jimmy Ricketts
 Time Test Ended: 21:57:09 Unit No: 80
 Interval: **1387.00 ft (KB) To 1427.00 ft (KB) (TVD)** Reference Elevations: 1467.00 ft (KB)
 Total Depth: 1427.00 ft (KB) (TVD) 1455.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8846 Inside
 Press@RunDepth: psig @ 1388.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.10.18 End Date: 2020.10.18 Last Calib.: 1899.12.30
 Start Time: 16:59:01 End Time: 21:56:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Strong blow throughout. Built to 175"
 FF - Strong blow throughout. Built to 145"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSSWCM Tr O 8%W & 92%M	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront Pkwy
Building 1200
Wichita, KS 67206
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66608

DST#: 1

Test Start: 2020.10.18 @ 16:59:00

Tool Information

Drill Pipe:	Length: 1003.00 ft	Diameter: 3.80 inches	Volume: 14.07 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 365.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 15.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	1387.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	71.00 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			1357.00	
Shut In Tool	5.00			1362.00	
Hydraulic tool	5.00			1367.00	
Jars	5.00			1372.00	
Sampler	3.00			1375.00	
Safety Joint	3.00			1378.00	
Packer	5.00			1383.00	31.00 Bottom Of Top Packer
Packer	4.00			1387.00	
Stubb	1.00			1388.00	
Recorder	0.00	8369	Outside	1388.00	
Recorder	0.00	8846	Inside	1388.00	
Perforations	36.00			1424.00	
Bullnose	3.00			1427.00	40.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront Pkw y
Building 1200
Wichita, KS 67206
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66608

DST#: 1

Test Start: 2020.10.18 @ 16:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 11.96 in³

Resistivity: ohm.m

Salinity: 1000.00 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
65.00	OSSWCM Tr O 8%W & 92%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

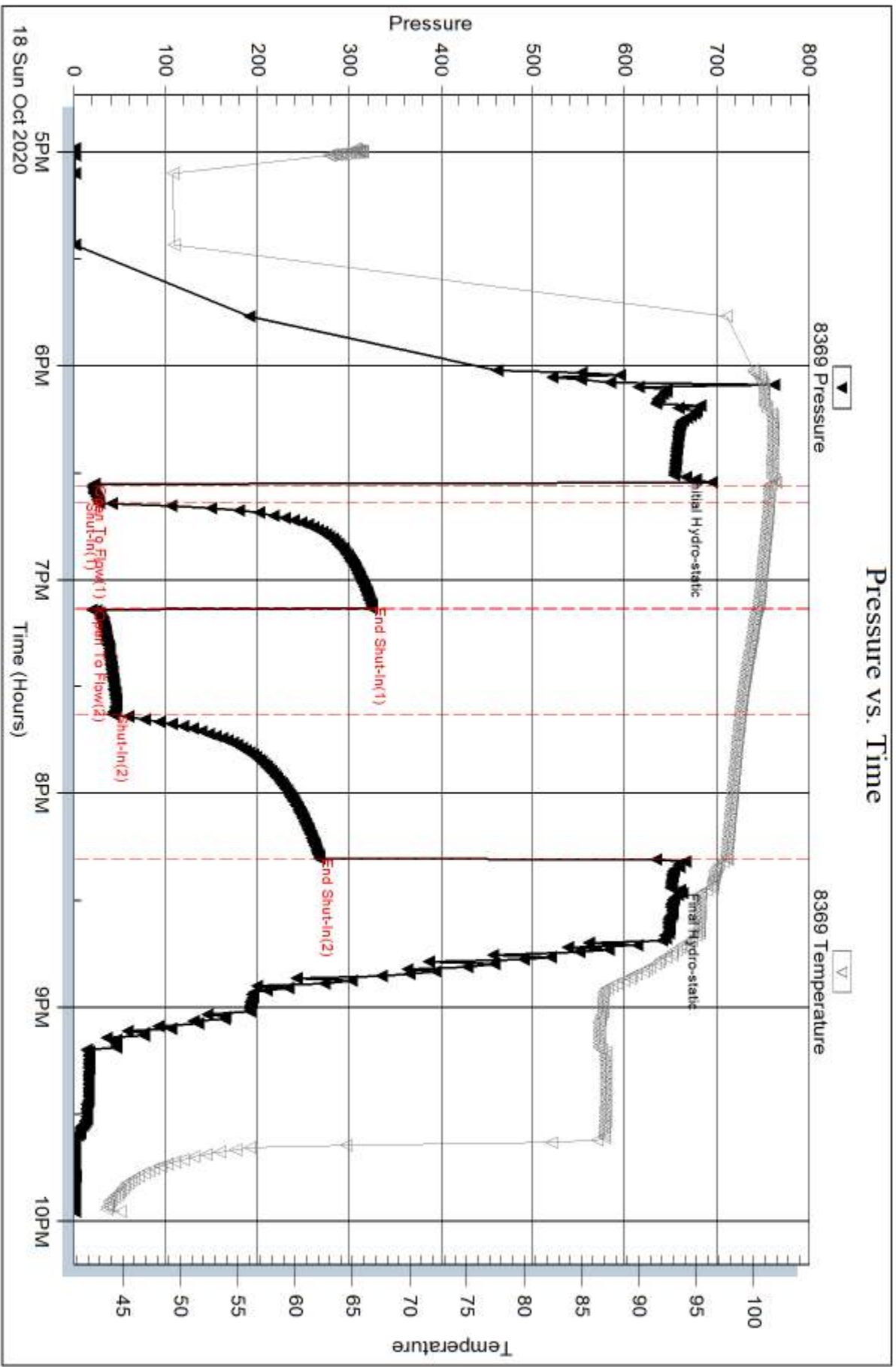
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



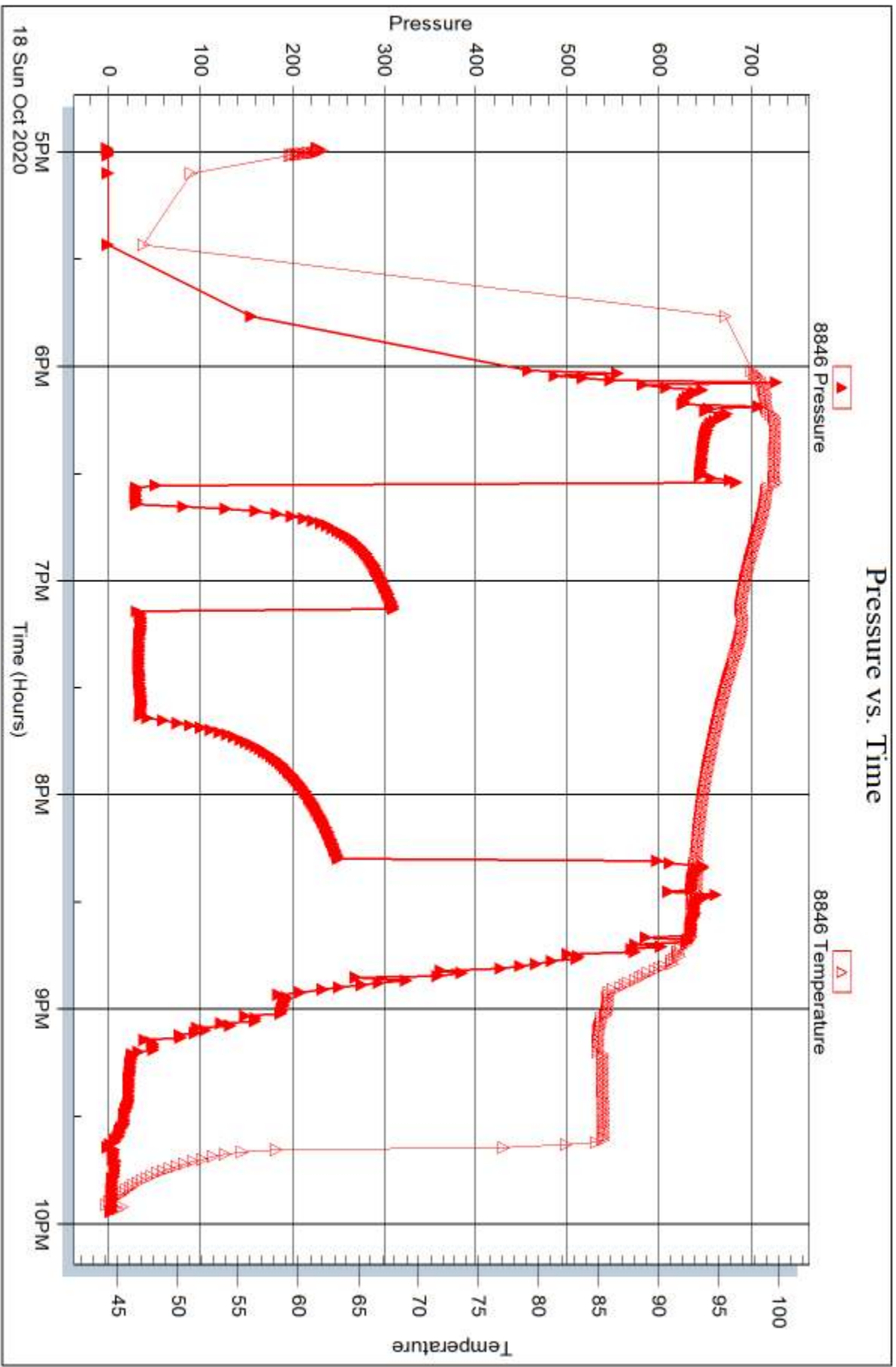
Serial #: 8846

Inside

Mull Drilling Company, Inc.

Gilaspie Unit #1-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66608

Printed: 2020.10.21 @ 10:27:39



DRILL STEM TEST REPORT

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

1700 North Waterfront PKWY
Building 1200
Wichita, KS

ATTN: Rusty Mourning

Gillaspie Unit #1-1

1-16S-7E Morris,KS

Start Date: 2020.10.19 @ 16:30:01

End Date: 2020.10.19 @ 21:48:10

Job Ticket #: 66609 DST #: 2

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

Printed: 2020.10.21 @ 10:21:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66609

DST#: 2

Test Start: 2020.10.19 @ 16:30:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:10

Time Test Ended: 21:48:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 1880.00 ft (KB) To 1910.00 ft (KB) (TVD)

Reference Elevations: 1467.00 ft (KB)

Total Depth: 1910.00 ft (KB) (TVD)

1455.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 682.88 psig @ 1881.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.19 End Date: 2020.10.19

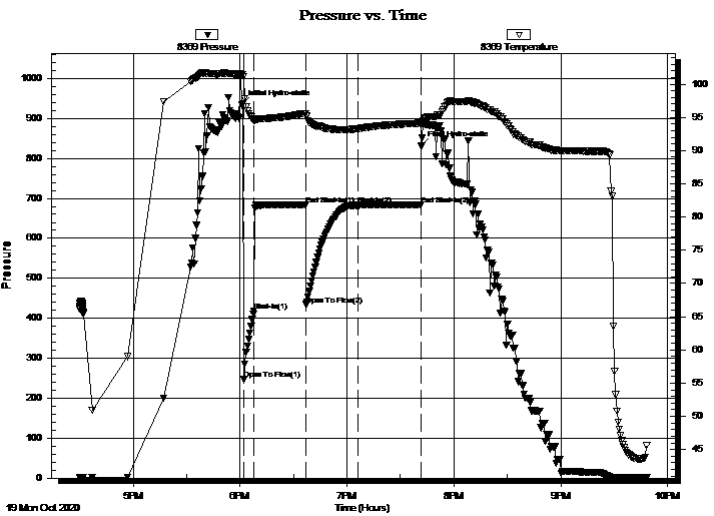
Last Calib.: 2020.10.19

Start Time: 16:30:01 End Time: 21:48:10

Time On Btm: 2020.10.19 @ 18:01:10

Time Off Btm: 2020.10.19 @ 19:41:50

TEST COMMENT: IF - Strong blow throughout. Built to 158"
FF - Strong blow throughout. Built to 275"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	934.14	101.47	Initial Hydro-static
1	246.55	101.10	Open To Flow (1)
7	418.02	94.54	Shut-In(1)
36	683.21	95.61	End Shut-In(1)
36	434.01	95.30	Open To Flow (2)
66	682.88	93.34	Shut-In(2)
101	683.33	94.14	End Shut-In(2)
101	830.95	94.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1540.00	VSMCW 96%W & 4%M	18.82

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66609 **DST#: 2**
Test Start: 2020.10.19 @ 16:30:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:10

Time Test Ended: 21:48:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 1880.00 ft (KB) To 1910.00 ft (KB) (TVD)

Reference Elevations: 1467.00 ft (KB)

Total Depth: 1910.00 ft (KB) (TVD)

1455.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8846 Inside

Press@RunDepth: psig @ 1881.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.19 End Date: 2020.10.19

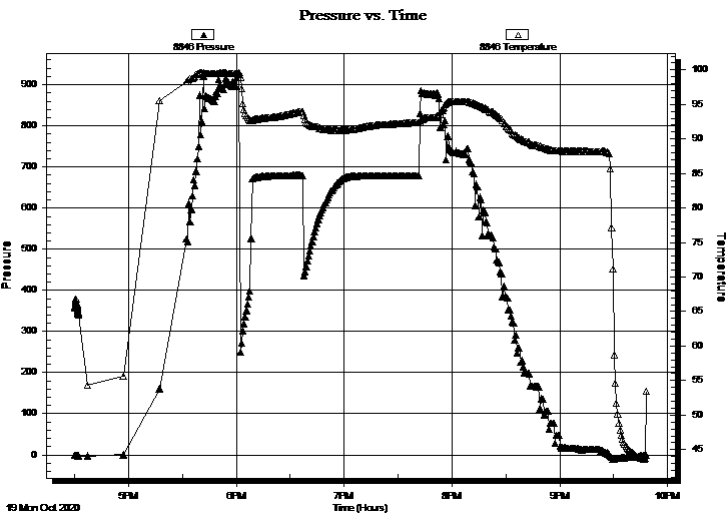
Last Calib.: 1899.12.30

Start Time: 16:30:01 End Time: 21:48:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Strong blow throughout. Built to 158"
FF - Strong blow throughout. Built to 275"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1540.00	VSMCW 96%W & 4%M	18.82

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66609

DST#: 2

Test Start: 2020.10.19 @ 16:30:01

Tool Information

Drill Pipe:	Length: 1566.00 ft	Diameter: 3.80 inches	Volume: 21.97 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 23.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	1880.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	61.00 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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Change Over Sub	1.00			1850.00	
Shut In Tool	5.00			1855.00	
Hydraulic tool	5.00			1860.00	
Jars	5.00			1865.00	
EMT	3.00			1868.00	
Safety Joint	3.00			1871.00	
Packer	5.00			1876.00	31.00 Bottom Of Top Packer
Packer	4.00			1880.00	
Stubb	1.00			1881.00	
Recorder	0.00	8369	Outside	1881.00	
Recorder	0.00	8846	Inside	1881.00	
Perforations	26.00			1907.00	
Bullnose	3.00			1910.00	30.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66609

DST#: 2

Test Start: 2020.10.19 @ 16:30:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 40.00 sec/qt

Water Loss: 10.37 in³

Resistivity: ohm.m

Salinity: 220.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 5500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1540.00	VSMCW 96%W & 4%M	18.824

Total Length: 1540.00 ft Total Volume: 18.824 bbl

Num Fluid Samples: 0

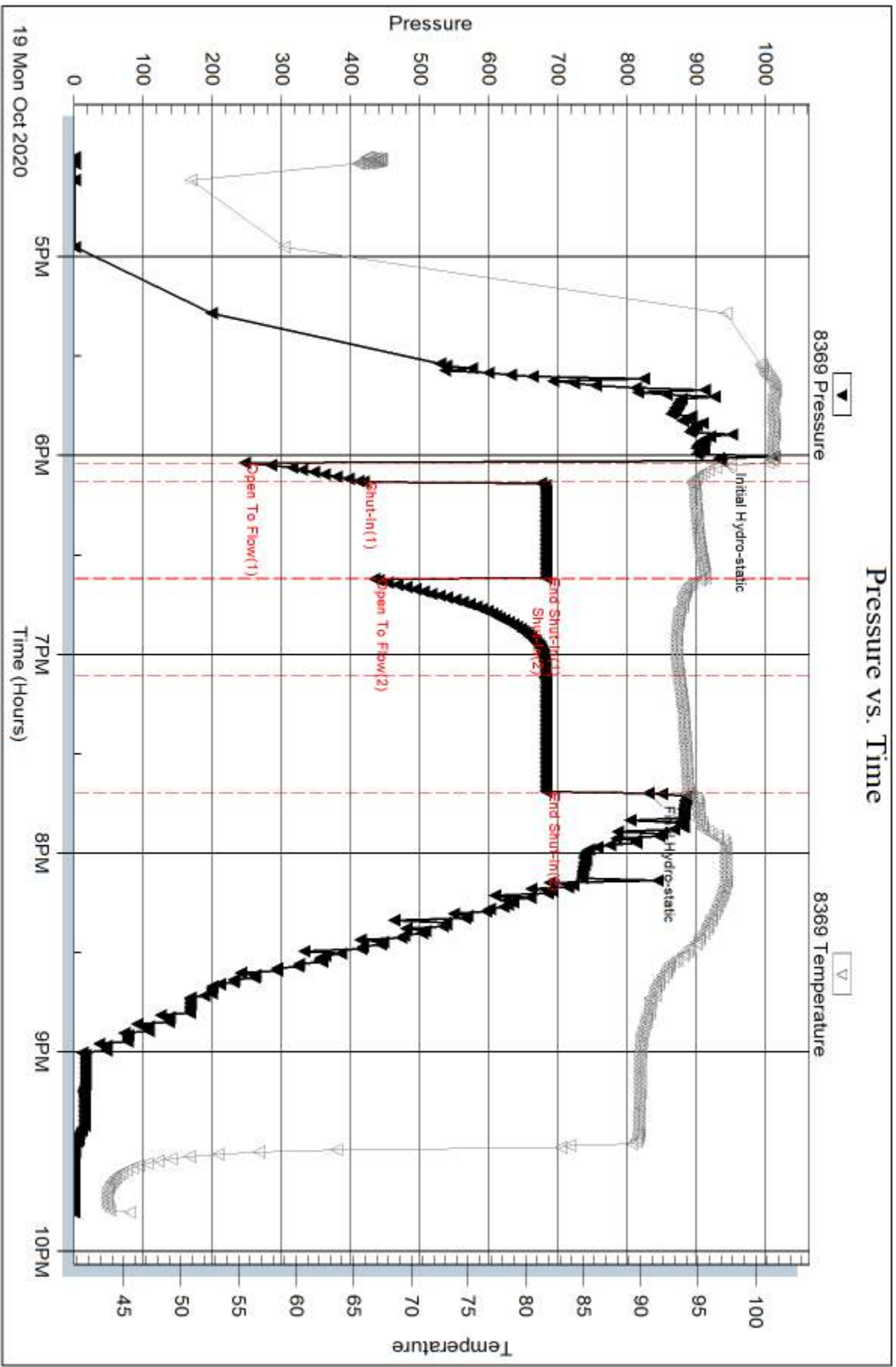
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



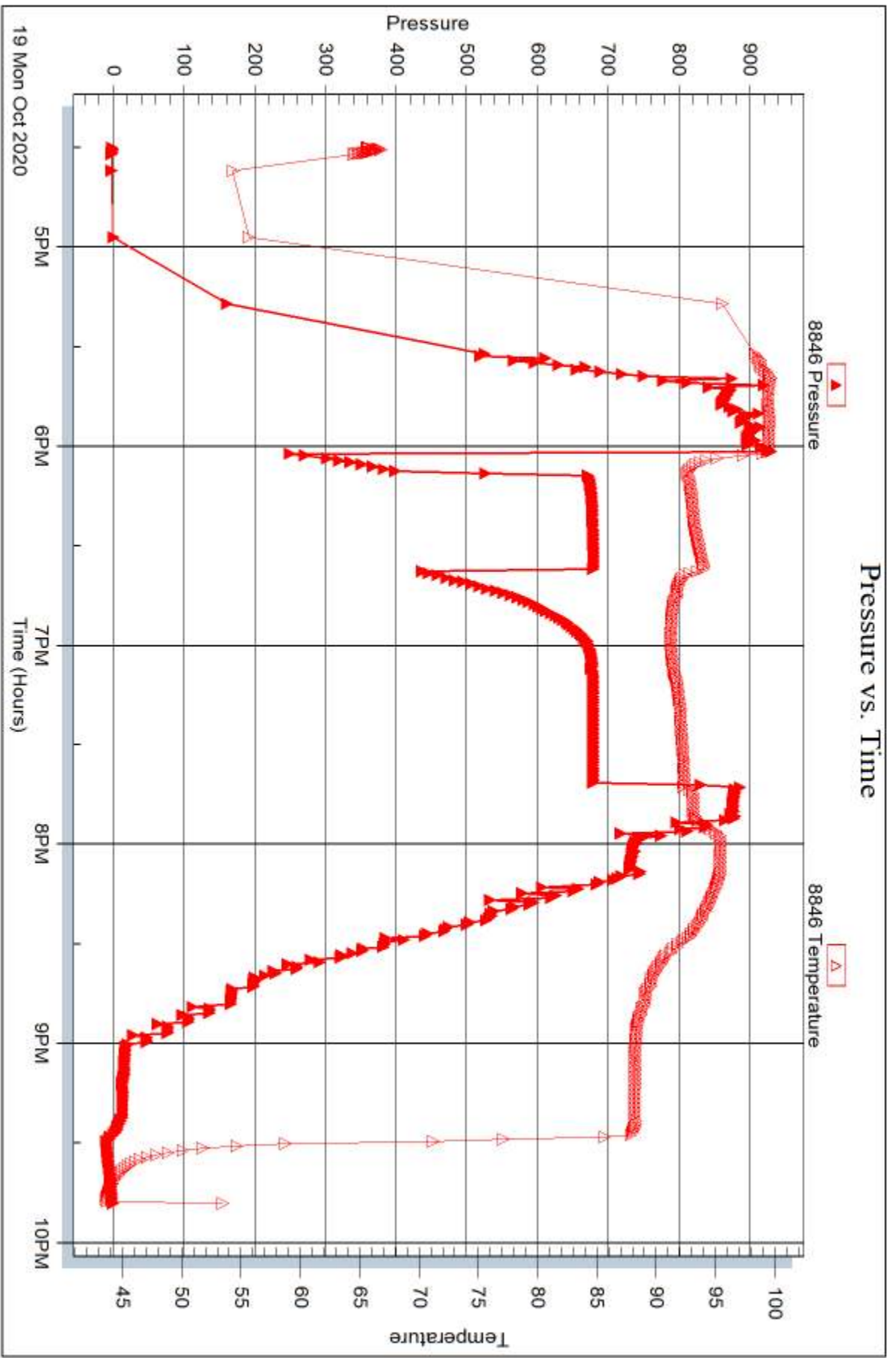
Serial #: 8846

Inside

Mull Drilling Company, Inc.

Gilaspie Unit #1-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66609

Printed: 2020.10.21 @ 10:21:39



DRILL STEM TEST REPORT

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

1700 North Waterfront PKWY
Building 1200
Wichita, KS

ATTN: Rusty Mourning

Gillaspie Unit #1-1

1-16S-7E Morris,KS

Start Date: 2020.10.20 @ 10:02:00

End Date: 2020.10.20 @ 15:13:09

Job Ticket #: 66610 DST #: 3

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

Printed: 2020.10.21 @ 10:20:23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66610

DST#: 3

Test Start: 2020.10.20 @ 10:02:00

GENERAL INFORMATION:

Formation: **Granite Wash**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:27:20

Time Test Ended: 15:13:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 2037.00 ft (KB) To 2060.00 ft (KB) (TVD)

Reference Elevations: 1467.00 ft (KB)

Total Depth: 2060.00 ft (KB) (TVD)

1455.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 19.50 psig @ 2038.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.20 End Date: 2020.10.20

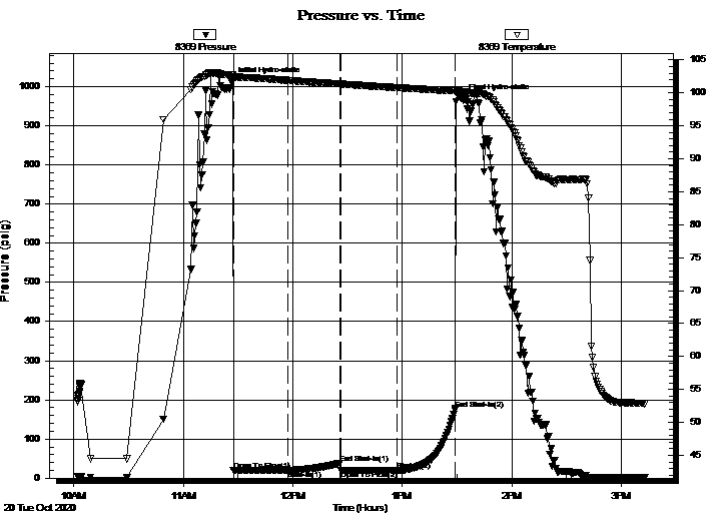
Last Calib.: 2020.10.20

Start Time: 10:02:01 End Time: 15:13:10

Time On Btm: 2020.10.20 @ 11:26:30

Time Off Btm: 2020.10.20 @ 13:32:50

TEST COMMENT: IF - Weak blow building to 1/2" then died to no blow.
FF - No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1013.69	102.74	Initial Hydro-static
1	20.22	102.35	Open To Flow (1)
31	19.99	101.89	Shut-In(1)
60	38.64	101.35	End Shut-In(1)
60	19.31	101.34	Open To Flow (2)
91	19.50	100.80	Shut-In(2)
123	177.19	100.31	End Shut-In(2)
127	969.15	100.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling mud 100%M	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66610

DST#: 3

Test Start: 2020.10.20 @ 10:02:00

Tool Information

Drill Pipe:	Length: 1786.00 ft	Diameter: 3.80 inches	Volume: 25.05 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 26.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2037.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	54.00 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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Change Over Sub	1.00			2007.00	
Shut In Tool	5.00			2012.00	
Hydraulic tool	5.00			2017.00	
Jars	5.00			2022.00	
EMT	3.00			2025.00	
Safety Joint	3.00			2028.00	
Packer	5.00			2033.00	31.00 Bottom Of Top Packer
Packer	4.00			2037.00	
Stubb	1.00			2038.00	
Recorder	0.00	8369	Outside	2038.00	
Recorder	0.00	8846	Inside	2038.00	
Perforations	19.00			2057.00	
Bullnose	3.00			2060.00	23.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

1-16S-7E Morris,KS

1700 North Waterfront PKWY
Building 1200
Wichita, KS
ATTN: Rusty Mourning

Gillaspie Unit #1-1

Job Ticket: 66610

DST#: 3

Test Start: 2020.10.20 @ 10:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 9.08 in³

Resistivity: ohm.m

Salinity: 220.00 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
1.00	Drilling mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

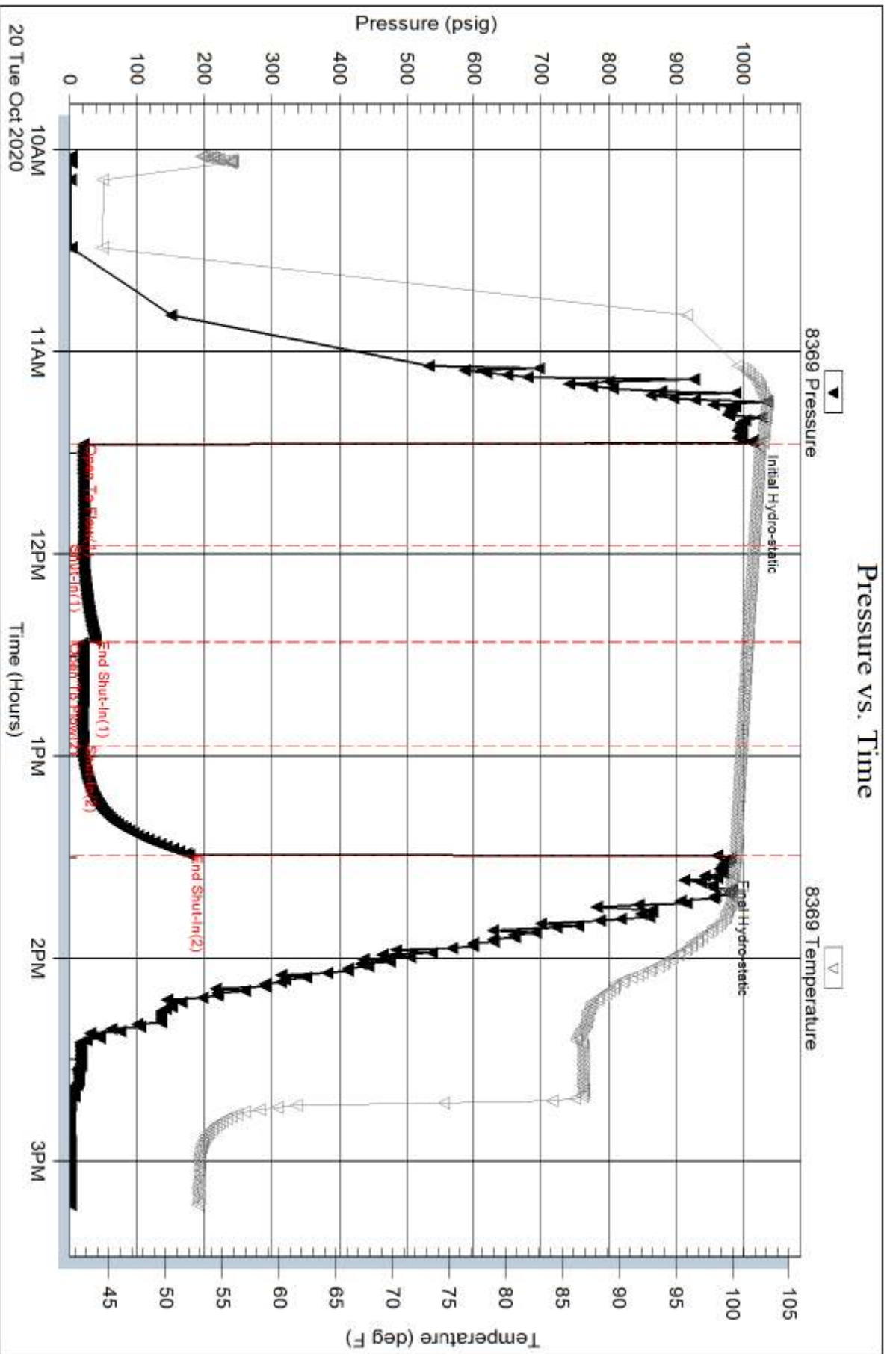
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



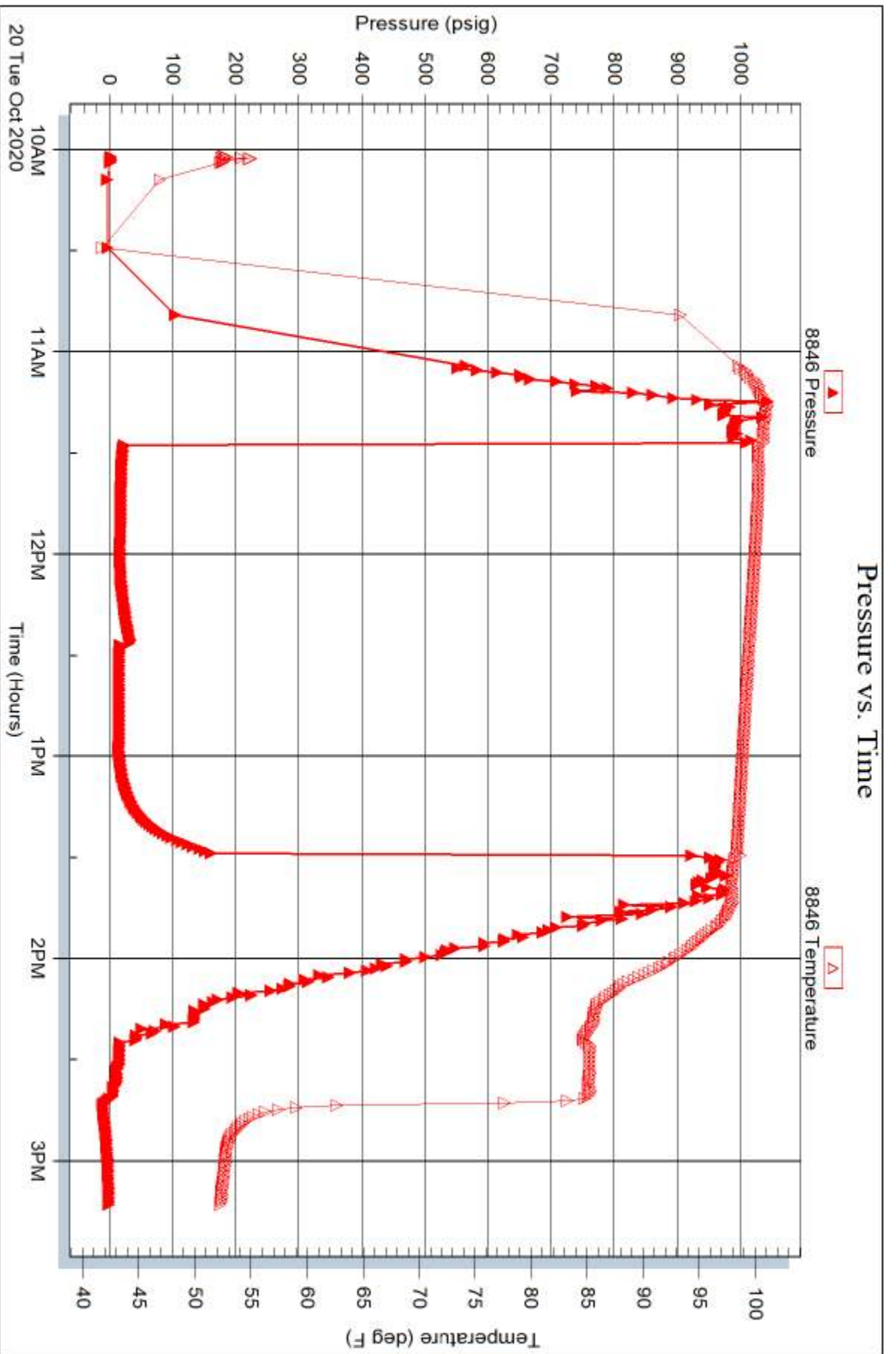
Serial #: 8846

Inside

Mull Drilling Company, Inc.

Gilaspie Unit #1-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66610

Printed: 2020.10.21 @ 10:20:26



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66608

NO.

Well Name & No. Gillaspie Unit #1-1 Test No. 1 Date 10-18-2020
 Company Mull Drilling Co., Inc. Elevation 1467 KB 1455 GL
 Address 1700 N. Waterfront PKWY BLDG 1260 Wichita, KS
 Co. Rep / Geo. Rusty Mournings Rig Lighthouse #1
 Location: Sec. 1 Twp 16 S Rge. 7E Co. Morris State KS

Interval Tested 1387-1427 Zone Tested Lansing
 Anchor Length 40' Drill Pipe Run ~~1007~~ 1003 Mud Wt. 9.1
 Top Packer Depth 1382 Drill Collars Run 365 Vls 45
 Bottom Packer Depth 1387 Wt. Pipe Run 0 WL 12.0
 Total Depth 1427 Chlorides 1000 ppm System LCM
 Blow Description IF- Strong blow throughout IFF Building to 175 inches
FF- Strong blow throughout FFP. continuing to bail to 145+
inches

Rec	Feet of	%gas	TR	%oil	%water	%mud
<u>65</u>	<u>055 WCM</u>				<u>8</u>	<u>92</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 65 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>655</u>	<input checked="" type="checkbox"/> Test 1200	T-On Location <u>1530</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1659</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1833</u>
(D) Initial Shut-In <u>324</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2018</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2150</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>330</u> <u>RT 220</u>	Comments _____
(G) Final Shut-In <u>267</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>652</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
Final Shut-In <u>40</u>	<input type="checkbox"/> Accessibility _____	Total <u>2105</u>
	Sub Total <u>2105</u>	MP/DST Disc't _____

Approved By _____ Our Representative Jimmy D. [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 use of its equipment, or its statements or opinion concerning the results of any test, tests test 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 66609

NO.

Well Name & No. Gillaspie Unit #1-1 Test No. 2 Date 10-19-2020
 Company Mull Drilling Co, Inc. Elevation 1467 KB 1455 GL
 Address 1700 N. Waterfront PKWY BLDG 1200 Wichita KS
 Co. Rep / Geo. Rusty Maupping Rig Light house Drilling #1
 Location: Sec. 1 Twp 16 S Rge. 7 E Co. Morris State KS

Interval Tested 1880-1910 Zone Tested Arbuckle
 Anchor Length 30 Drill Pipe Run 1566 Mud Wt. 9.4
 Top Packer Depth 1875 Drill Collars Run 305 Vis 40
 Bottom Packer Depth 1880 Wt. Pipe Run 0 WL 10.4
 Total Depth 1910 Chlorides 220 ppm System LCM

Blow Description IF - Strong blow throughout IEP. Continuing to Build to 158 inches
FF - Strong blow throughout FEP. Continued to Build to 275+ inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>1540</u>	<u>VS MCW</u>		<u>96</u>		<u>4</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 1540 BHT 101 Gravity 1.04 @ 755 °F Chlorides 5500 ppm
 (A) Initial Hydrostatic 934 Test 1200 T-On Location 1515
 (B) First Initial Flow 247 Jars 250 T-Started 1630
 (C) First Final Flow 418 Safety Joint 75 T-Open 1802
 (D) Initial Shut-In 683 Circ Sub _____ T-Pulled 1942
 (E) Second Initial Flow 434 Hourly Standby _____ T-Out 2140
 (F) Second Final Flow 683 Mileage 183 RT 183 Comments _____
 (G) Final Shut-In 683 Sampler _____ EM Tool 350
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1958
 Sub Total 1958 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66610

NO.

Well Name & No. Gillaspie Unit #1-1 Test No. 3 Date 10-20-2020
 Company Mull Drilling Co, Inc Elevation 1467 KB 1455 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS.
 Co. Rep / Geo. Rusty Mourning Rig Lighthouse Drilling #1
 Location: Sec. 1 Twp 16S Rge. 7E Co. Morris State KS

Interval Tested 2037 - 2060 Zone Tested Granite Wash
 Anchor Length 23 Drill Pipe Run 1786 Mud Wt. 9.4
 Top Packer Depth 2032 Drill Collars Run 245 Vis 45
 Bottom Packer Depth 2037 Wt. Pipe Run 0 WL 9.1
 Total Depth 2060 Chlorides 220 ppm System LCM
 Blow Description IF - weak blow building to 1/2 inch then dying to No blow
FF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
1	Drilling Mud			100	

Rec Total 1 BHT 103 Gravity API RW @ F Chlorides ppm

(A) Initial Hydrostatic <u>1014</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0935</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1002</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1127</u>
(D) Initial Shut-In <u>39</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1330</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1440</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>183</u> <u>(RT 2)</u>	Comments
(G) Final Shut-In <u>177</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>969</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>33</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1958</u>
	Sub Total <u>1958</u>	MP/DST Disc'l

Approved By _____ Our Representative Jimmy Richards

Trilobite Testing Inc. shall not be liable for damaged or 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, tests lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Cores

DSTs

ROCK TYPES

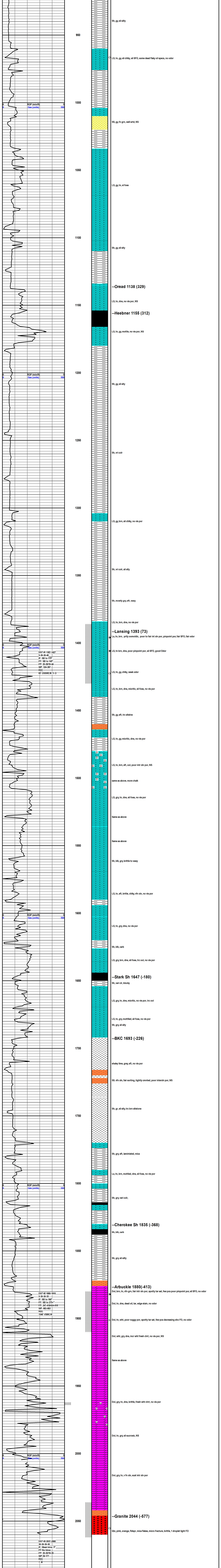
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sitsst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

ACCESSORIES

ANHY	Gyp	ALGAE	Ostra	Siltstrg
ARGGRN	Kaol	Amph	Pelec	Boundst
ARG	Marl	Belm	Pellet	Chalky
BENT	Minxl	Bioclst	Pisolite	Earthy
BIT	Nodule	Brach	Plant	Cryxln
BRECLRAG	Phos	Bryozoa	Strom	Grainst
CALC	Pyr	Cephal	STRINGER	Lithogr
CARB	Salt	Coral	Anhy	Finexln
CHTDK	Silty	Crin	Arg	Glnst
CHTLT	Sandy	Echin	Bent	Mudst
DOL	Silt	Foram	Coal	Packst
FELDSPAR	Sulphur	Fossil	Dol	Wackest
FERRPEL	Tuff	Gastro	Ls	
GLAU		Oolite	Mrst	

OTHER SYMBOLS

EARTHY	<input type="checkbox"/> Vuggy	ROUNDED	Spotted	Rft
FRACTURE	SORTING	SUBRND	Ques	Sidewall
INTER	Well	ANGULAR	Dead	
MOLDIC	Moderate	OIL SHOW	INTERVAL	
ORGANIC	Poor	Even	Dst3e72	
PINPOINT			Core	
			Dst	



DST #1 1387-1427
 S-30 30-40
 FF: SB to 175"
 FF: SB to 145"
 FP: 20-2019-44
 SIP: 324-267
 REC: 65 OSSWCM Tr O

DST #2 1880-1910
 S-30 30-35
 FF: SB to 160"
 FF: Weak blow 5"
 FP: 247-41834-818
 SIP: 683-683
 REC: 1548' VSMCW

DST #3 2037-2060
 30-30 30-30
 FF: Weak blow 5"
 FP: 247-41834-818
 SIP: 38-177
 REC: 1' M