

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. **3785**

Cell 785-324-1041

Date <u>9-30-23</u>	Sec. <u>2</u>	Twp. <u>12</u>	Range <u>19</u>	County <u>Ellis</u>	State <u>Ks</u>	On Location	Finish <u>12:45 pm</u>
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Location Xocamento 8 N 12 E

Lease Leimiller Well No. 5 Owner

Contractor Discovery To Quality Oilwell Cementing, Inc.
 Type Job SURFACE You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 220 Charge To MUSTANG ENERGY Co.

Csg. 8 5/8 Depth Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15 Shoe Joint Cement Amount Ordered 150.4 8/20 3-2

Meas Line Displace 13

EQUIPMENT

Pumptrk <u>17</u> No. Cementer <u>Bill</u>	Common <u>120</u>
Bulktrk No. Helper	Poz. Mix <u>30</u>
Bulktrk No. Driver <u>Tim</u>	Gel. <u>3</u>
Bulktrk <u>21</u> No. Driver <u>BRE #</u>	Calcium <u>6</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>Set 220</u>	Sand
<u>Cent w/ 150.4</u>	Handling <u>139</u>
<u>pump plug w/ 13</u>	Mileage
<u>Cent Cir</u>	

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface

Mileage 15

[Signature]

Tax
Discount
Total Charge

Thanks

X Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. **3792**
10-6-23

Date 10-5-23	Sec. 2	Twp. 12	Range 19	County Ellis	State KS	On Location	Finish 12:30 AM
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Location **Yocemento #N 2E**

Lease **Leinmiller** Well No. **5** Owner

Contractor **Discovery** To Quality Oilwell Cementing, Inc.
Type Job **PTA** You are hereby requested to rent cementing equipment and furnish
Hole Size **7 7/8** T.D. Charge To **MUSTANG ENERGY**
Csg. Depth Street
Tbg. Size Depth City State
Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered **3054 69/40-4**

Meas Line Displace **4 # 75**

EQUIPMENT

Pumptrk 18 No. Cementer Helper Bill	Common 123/183
Bulktrk No. Driver Jordan	Poz. Mix 122
Bulktrk 19 No. Driver Cory	Gel. 11
	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 75#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
3710 - 50#	Sand
1575 - 50#	Handling 316
800 - 100#	Mileage

FLOAT EQUIPMENT

275 - 50#	Guide Shoe
40 - 10#	Centralizer
30RH	Baskets
15 MH	AFU Inserts
	Float Shoe
	Latch Down
	Wood plug - 1

Pumptrk Charge **Plug**
Mileage **15**

Signature **[Signature]** Tax
Discount
Total Charge

Thanks



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp.**

PO Box 1121
Hays KS 67601

ATTN: Cameron Brin

Leinmiller #5

2-12S-19W Ellis,KS

Start Date: 2023.10.04 @ 16:35:05

End Date: 2023.10.04 @ 21:59:00

Job Ticket #: 71120 DST #: 1

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

Printed: 2023.10.09 @ 11:44:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71120

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.10.04 @ 16:35:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:40:00

Time Test Ended: 21:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3719.00 ft (KB) To 3735.00 ft (KB) (TVD)

Reference Elevations: 2181.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

2176.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8355

Press@RunDepth: 70.90 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.04 End Date: 2023.10.04

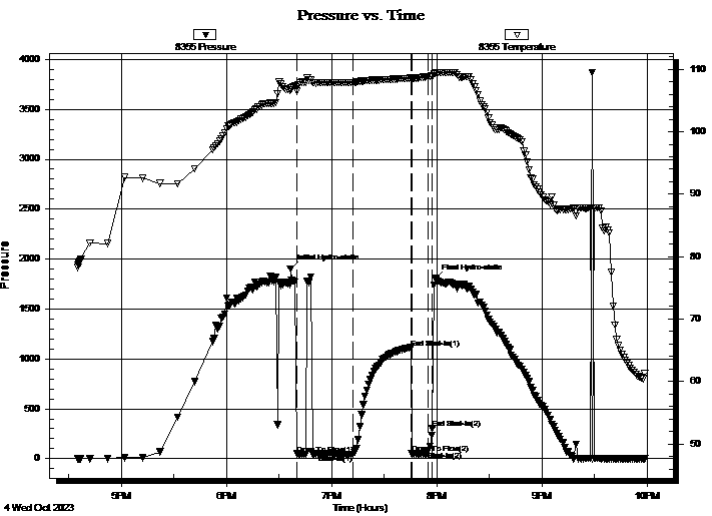
Last Calib.: 1899.12.30

Start Time: 16:35:05 End Time: 21:58:59

Time On Btm: 2023.10.04 @ 18:36:30

Time Off Btm: 2023.10.04 @ 19:59:00

TEST COMMENT: 30- IF: Weak blow 1/4" did not build Flushed Tool
30-ISI: No blow back
10-FF: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.23	106.72	Initial Hydro-static
4	49.01	106.54	Open To Flow (1)
36	45.03	107.91	Shut-In(1)
69	1112.91	108.59	End Shut-In(1)
69	50.30	108.27	Open To Flow (2)
79	70.90	108.83	Shut-In(2)
81	302.99	108.94	End Shut-In(2)
83	1804.61	109.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 10%O 90%M	0.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71120

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.10.04 @ 16:35:05

Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 51.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	3719.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Flushed Tool on IF

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3690.00	
Shut In Tool	5.00			3695.00	
Hydraulic tool	8.00		Fluid	3703.00	
EM	4.00			3707.00	
Safety Joint	3.00			3710.00	
Packer	5.00			3715.00	30.00 Bottom Of Top Packer
Packer	4.00			3719.00	
Stubb	1.00			3720.00	
Recorder Carrier	5.00			3725.00	
Recorder	0.00	6838	Inside	3725.00	
Recorder	0.00	8875	Outside	3725.00	
Perforations	7.00			3732.00	
Bullnose	3.00			3735.00	16.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71120

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.10.04 @ 16:35:05

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 10%O 90%M	0.568

Total Length: 60.00 ft Total Volume: 0.568 bbl

Num Fluid Samples: 0

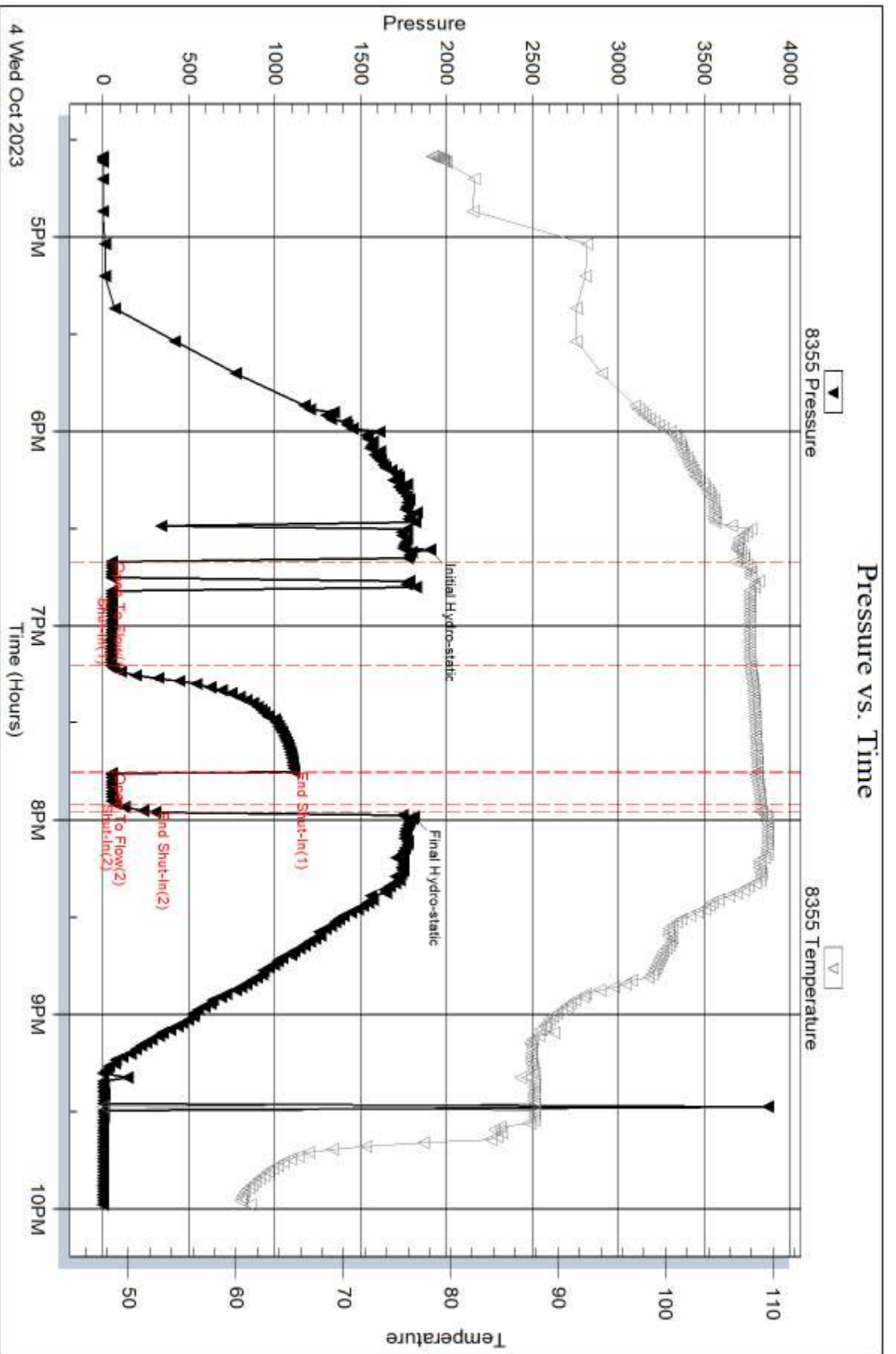
Num Gas Bombs: 0

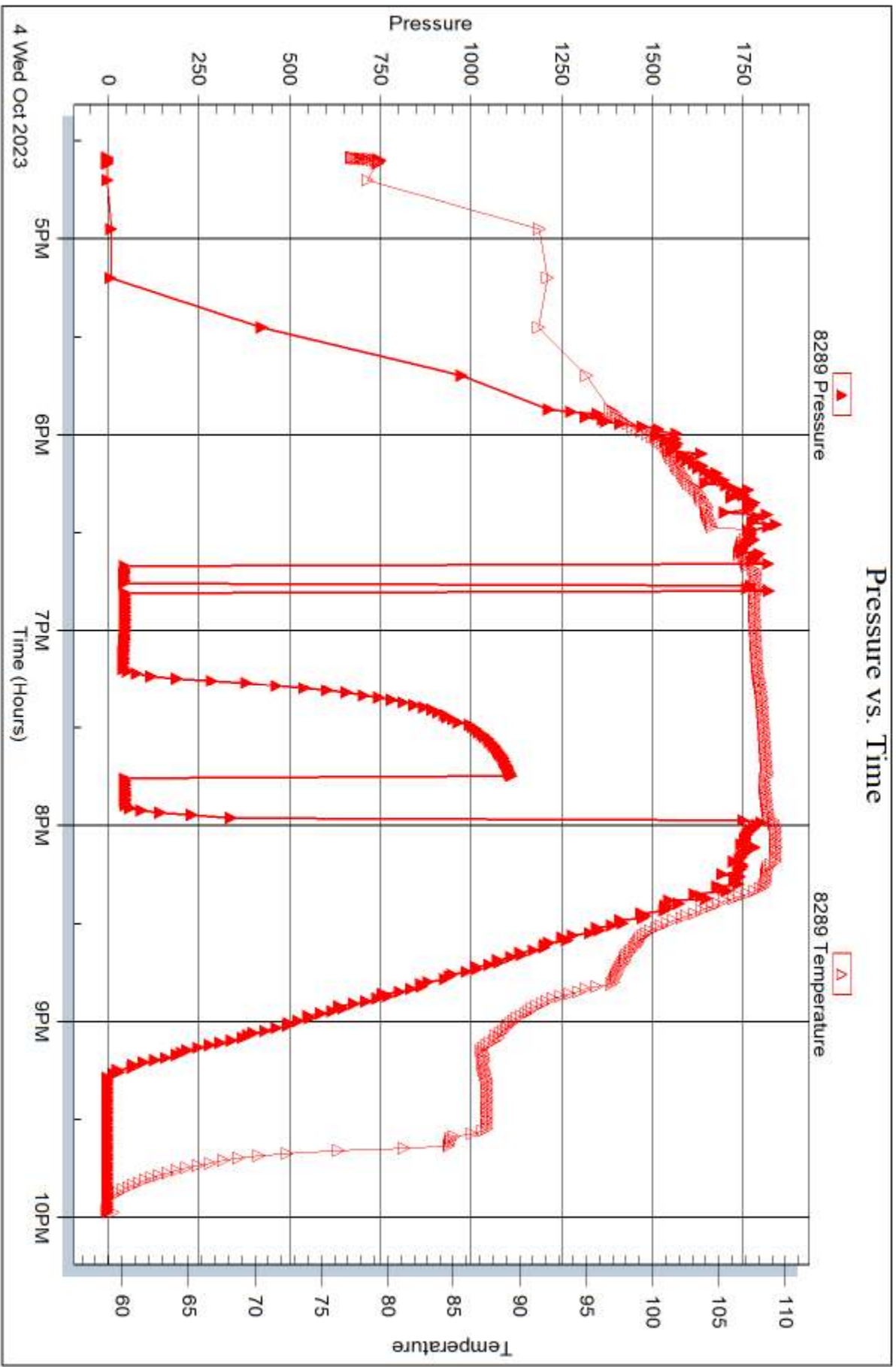
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp.**

PO Box 1121
Hays KS 67601

ATTN: Cameron Brin

Leinmiller #5

2-12S-19W Ellis,KS

Start Date: 2023.10.05 @ 11:49:00

End Date: 2023.10.05 @ 18:01:00

Job Ticket #: 71121 DST #: 2

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

Printed: 2023.10.09 @ 11:42:36



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71121

DST#: 2

ATTN: Cameron Brin

Test Start: 2023.10.05 @ 11:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:00

Time Test Ended: 18:01:00

Test Type: Conventional Straddle (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3721.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 2181.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

2176.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8355

Press@RunDepth: 38.55 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.05 End Date: 2023.10.05

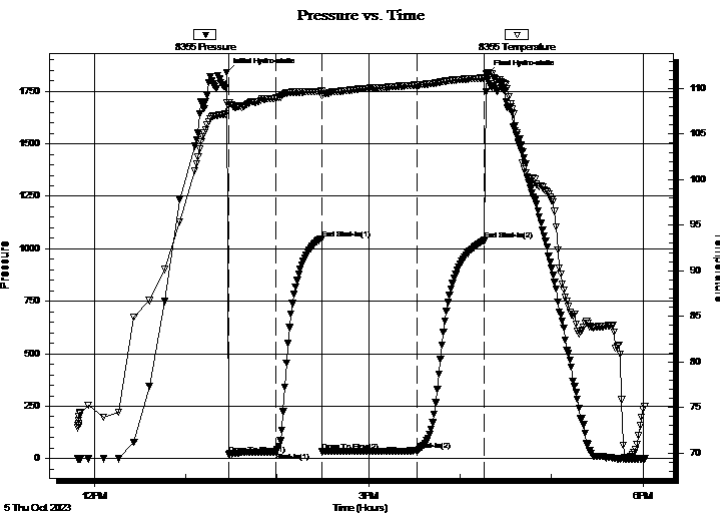
Last Calib.: 1899.12.30

Start Time: 11:49:05 End Time: 18:00:59

Time On Btm: 2023.10.05 @ 13:27:00

Time Off Btm: 2023.10.05 @ 16:17:30

TEST COMMENT: 30-IF: Weak surface blow building Built to 1.75"
30-ISI: Very weak surface blow did not build
60-FF: Weak surface blow built to .75"
45-FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.75	108.43	Initial Hydro-static
1	22.74	108.11	Open To Flow (1)
32	32.46	108.93	Shut-In(1)
62	1047.91	109.71	End Shut-In(1)
63	33.93	109.23	Open To Flow (2)
125	38.55	110.38	Shut-In(2)
169	1040.42	111.17	End Shut-In(2)
171	1830.05	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCM 15%O 85%M	0.36

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71121

DST#: 2

ATTN: Cameron Brin

Test Start: 2023.10.05 @ 11:49:00

Tool Information

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.91 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3721.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	3804.00 ft			
Interval between Packers:	83.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	3	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			3692.00	
Shut In Tool	5.00			3697.00	
Hydraulic tool	8.00		Fluid	3705.00	
EM	4.00			3709.00	
Safety Joint	3.00			3712.00	
Packer	5.00			3717.00	30.00 Bottom Of Top Packer
Packer	4.00			3721.00	
Stubb	1.00			3722.00	
Recorder Carrier	5.00			3727.00	
Recorder	0.00	6838	Inside	3727.00	
Recorder	0.00	8875	Outside	3727.00	
Perforations	21.00			3748.00	
Blank Off Sub	1.00			3749.00	
Packer - Shale	5.00			3754.00	
Stubb	1.00			3755.00	
Perforations	3.00			3758.00	
Change Over Sub	1.00			3759.00	
Drill Pipe	31.00			3790.00	
Change Over Sub	1.00			3791.00	
Perforations	10.00			3801.00	
Bullnose	3.00			3804.00	83.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp.

2-12S-19W Ellis,KS

PO Box 1121
Hays KS 67601

Leinmiller #5

Job Ticket: 71121

DST#: 2

ATTN: Cameron Brin

Test Start: 2023.10.05 @ 11:49:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	OCM 15%O 85%M	0.358

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

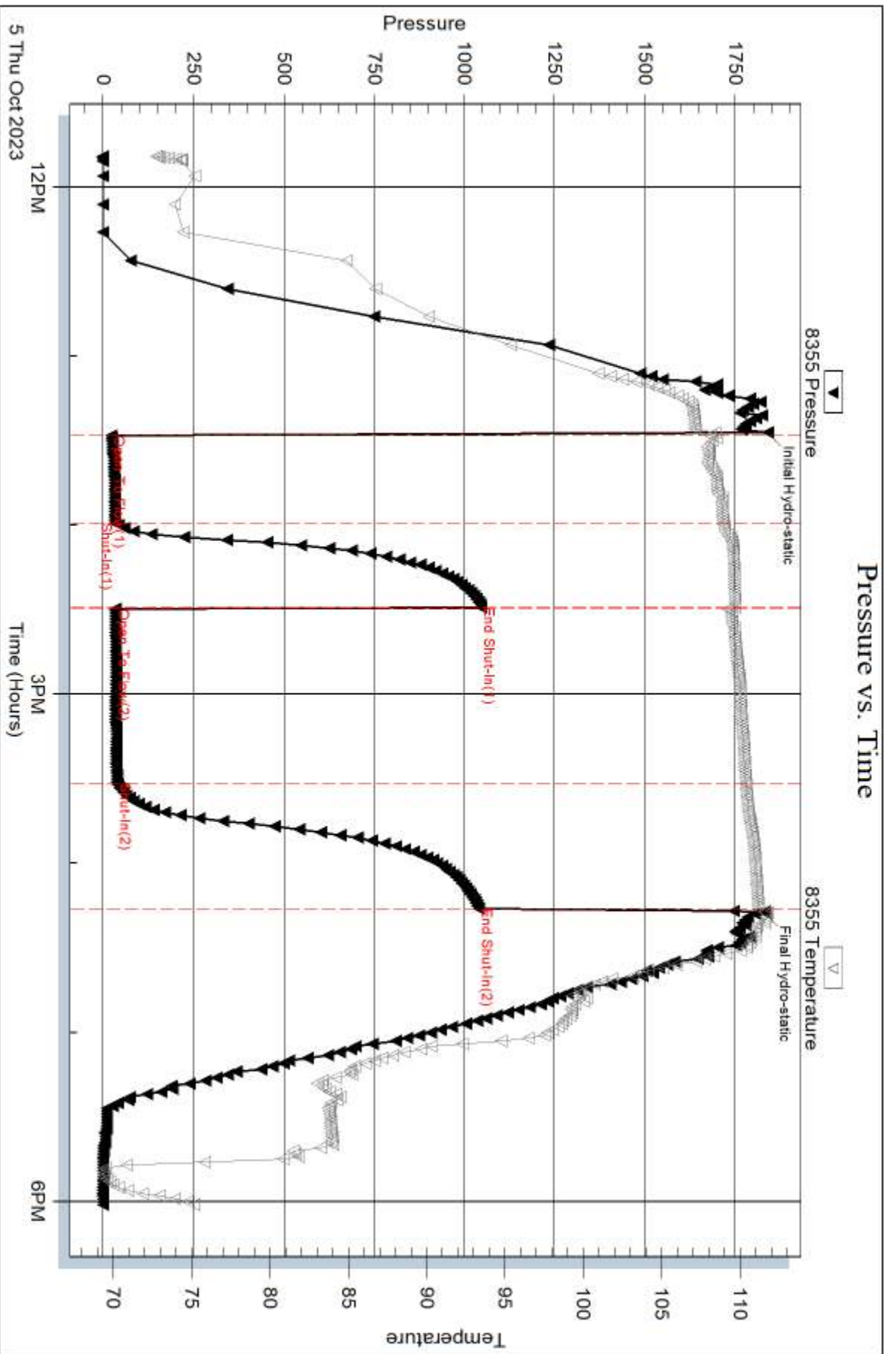
Num Gas Bombs: 0

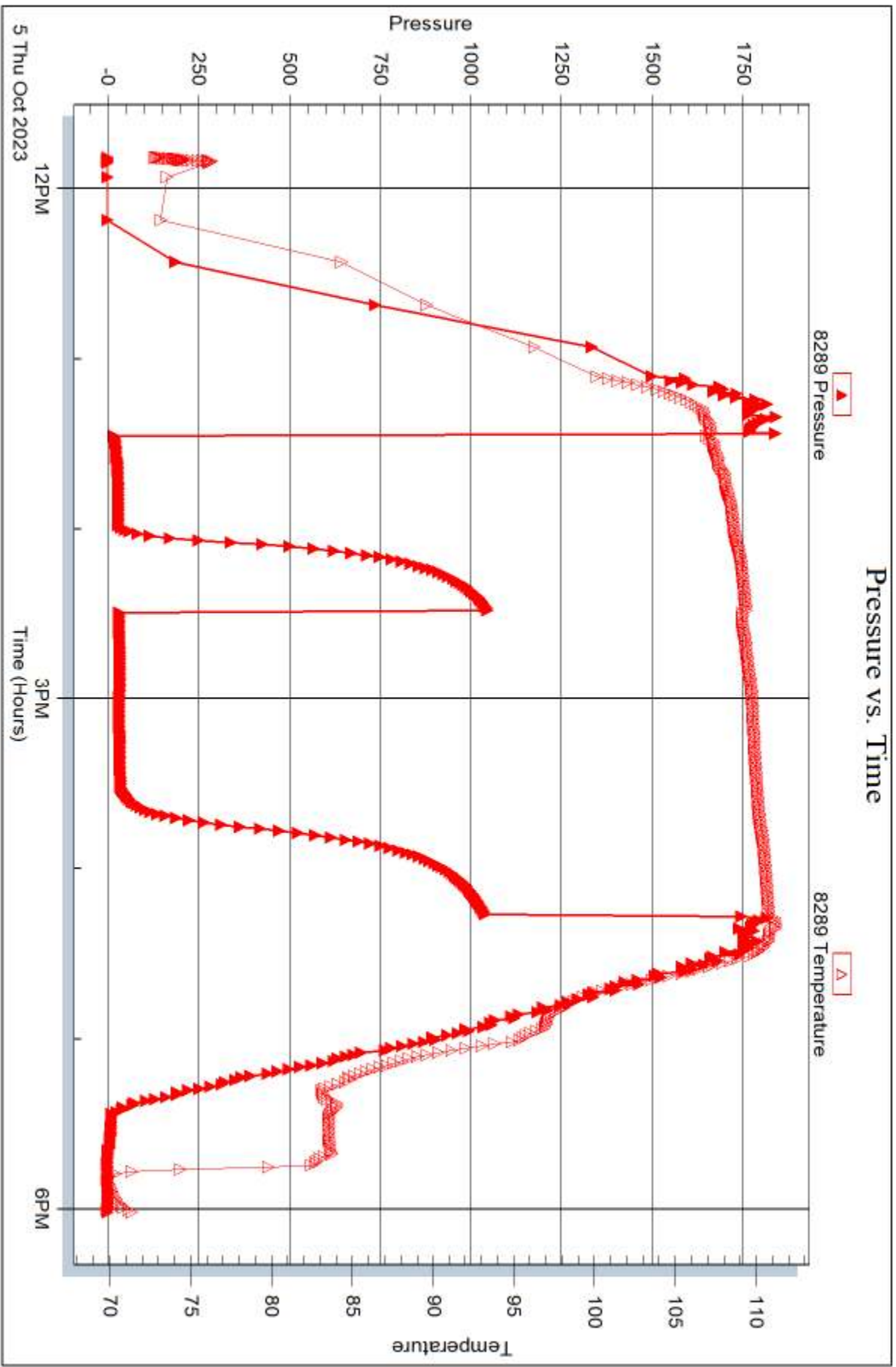
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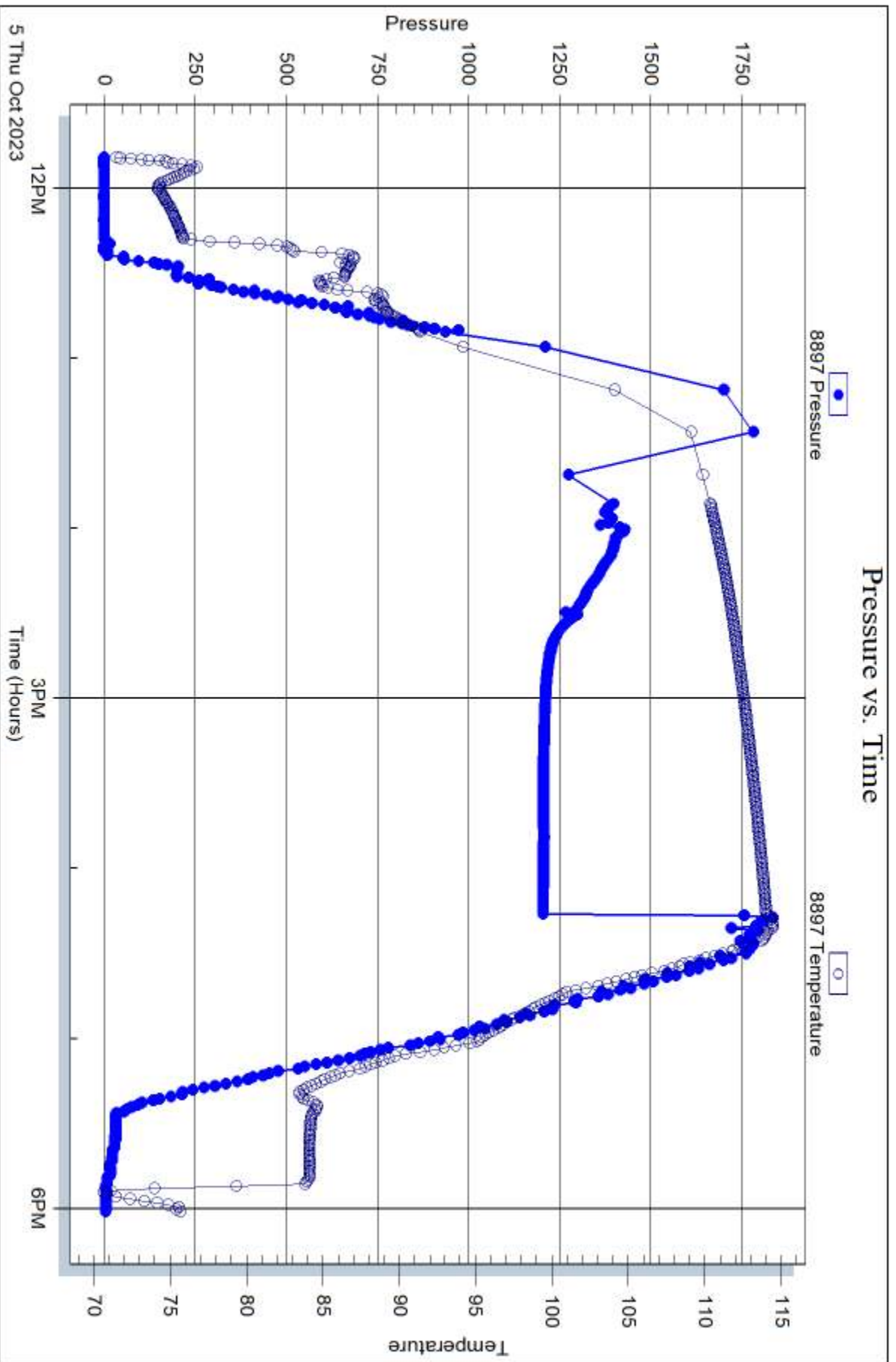
Laboratory Name:

Laboratory Location:

Recovery Comments: TOOL 50%O 50%M









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71120

Well Name & No. Leinmiller #5 Test No. 1 Date 10-4-23
 Company Mustang Energy Corp Elevation 2181 KB 2176 GL
 Address PO BOX 1124 Hays KS 67601
 Co. Rep / Geo Cameron Brin Rig Discovery 2
 Location: Sec. 2 Twp 12S Rge 15W Co. Ellis State KS

Interval Tested 3719-3735 Zone Tested Arbuckle
 Anchor Length 16' Drill Pipe Run 3694 Mud Wt. 9
 Top Packer Depth 3714 Drill Collars Run 30 Vis 46
 Bottom Packer Depth 3719 Wt. Pipe Run 0 WL 9.6
 Total Depth 3735 Chlorides 5000 ppm System LCM 2 1/2 #

Blow Description IF: weak blow 1/4" Didn't build Flushed Tool
ISI: No blow back
FF: No blow
FSI: NA

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>0.5M</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>90</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	Feet of	%gas	%oil	%water	%mud

Rec Total 60' BHT 1095 Gravity NA API RW NA @ NA °F Chlorides NA ppm
 Initial Hydrostatic 1900 Test 1800 Ruined Shale Packer
 Initial Flow 49 to 45 Jars Ruined Packer
 Initial Shut-In 1113 Circ Sub Hotel
 Final Flow 50 to 71 Hourly Standby EM Tool Successful -350
 Final Shut-In 302 Mileage 75 100rt 175 Accessibility
 Final Hydrostatic 1805 Sampler Gas Sample
 T-On Location 1612 Straddle Oversized Hole
 Initial Flow 30 T-Started 17:15 Shale Packer Sub Total -350
 Initial Shut-In 30 T-Open 18:40 Extra Packer Total 1625
 Final Flow 10 T-Pulled 20:15 Extra Recorder Tool Loaded @
 Final Shut-In X T-Out 21:55 Day Standby MP/DST Disc't
 Comments Batt @ 16:35

Approved By [Signature] Our Representative Richie Somers

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. 785-650-9628



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71121

Well Name & No. Leinmiller #5 Test No. 2 Date 10-5-23
 Company Mustang Energy Corp Elevation 2181 KB 2176 GL
 Address PO Box 1121 Hays KS 67601
 Co. Rep / Geo Cameron Brin Rig Discovery 2
 Location: Sec. 2 Twp 12S Rge. 19W Co. Ellis State KS

Interval Tested 3721 - 3750 Zone Tested Arbuckle
 Anchor Length 29' Tail 50' Drill Pipe Run 3650 Mud Wt. 9.3
 Top Packer Depth 3716 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 3721 Wt. Pipe Run 0 WL 8.8
 Total Depth 3800 Chlorides 4000 ppm System LCM B 1/2 #

Blow Description IF: Weak blow built to 1.75"
IS: Very weak blow did not build
FF: Weak blow .75"
FS: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>0cm</u>	<u>0</u>	<u>15</u>	<u>0</u>	<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>Tool</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>50</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 45' BHT 111.8 Gravity NA API RW NA @ NA *F Chlorides NA ppm

Initial Hydrostatic 1840 Test 1800 Ruined Shale Packer
 Initial Flow 23 to 32 Jars Ruined Packer
 Initial Shut-In 1048 Circ-Sub Hotel
 Final Flow 34 to 39 Hourly Standby EM Tool Successful -350
 Final Shut-In 1040 Mileage 175 Accessibility
 Final Hydrostatic 1830 Sampler Gas Sample
 Initial Flow 30 T-On Location 10:25 Straddle 800 Oversized Hole
 Initial Shut-In 30 T-Started 12:20 Shale Packer Sub Total -350
 Final Flow 60 T-Open 13:27 Extra Packer Total 2425
 Final Shut-In 45 T-Pulled 16:15 Extra Recorder Tool Loaded @
 T-Out 18:00 Day Standby MP/DST Disc't

Comments Batt @ 11:49
EMG 12:12

Approved By [Signature] Our Representative Ridie Samson

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.



MUSTANG

ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: LEINMILLER #5
Surface Location: NE, NE, SW, NW, Sec. 2, T12S, R19W
Bottom Location:
API: 15-051-27097
License Number: 33922
Spud Date: 9/30/2023 Time: 8:00 AM
Region: ELLIS COUNTY
Drilling Completed: 10/5/2023 Time: 4:00 AM
Surface Coordinates: 1365' FNL & 1285' FWL
Bottom Hole Coordinates:
Ground Elevation: 2173.00ft
K.B. Elevation: 2181.00ft
Logged Interval: 3100.00ft To: 3800.00ft
Total Depth: 3800.00ft
Formation: ARBUCKLE
Drilling Fluid Type: CHEMICAL MUD

OPERATOR

Company: MUSTANG ENERGY CORPORATION
Address: PO BOX 1121
HAYS, KS 67601

Contact Geologist: ROD BRIN
Contact Phone Nbr: 785-623-0533
Well Name: LEINMILLER #5
Location: NE, NE, SW, NW, Sec. 2, T12S, R19W
API: 15-051-27097
Pool: Field: LEINMILLER
State: KS Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.403388
Latitude: 39.041172
N/S Co-ord: 1365' FNL
E/W Co-ord: 1285' FWL

LOGGED BY

Company: KEYSTONE CONSULTING, LLC
Address: 2511 E 19TH
HAYS, KS 67601

Phone Nbr: (785) 639-0721
Logged By: Geologist Name: CAMERON BRIN

CONTRACTOR

Contractor: DISCOVERY DRILLING
Rig #: 2
Rig Type: MUD ROTARY
Spud Date: 9/30/2023 Time: 8:00 AM
TD Date: 10/5/2023 Time: 4:00 AM

ELEVATIONS

K.B. Elevation: 2181.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 2173.00ft

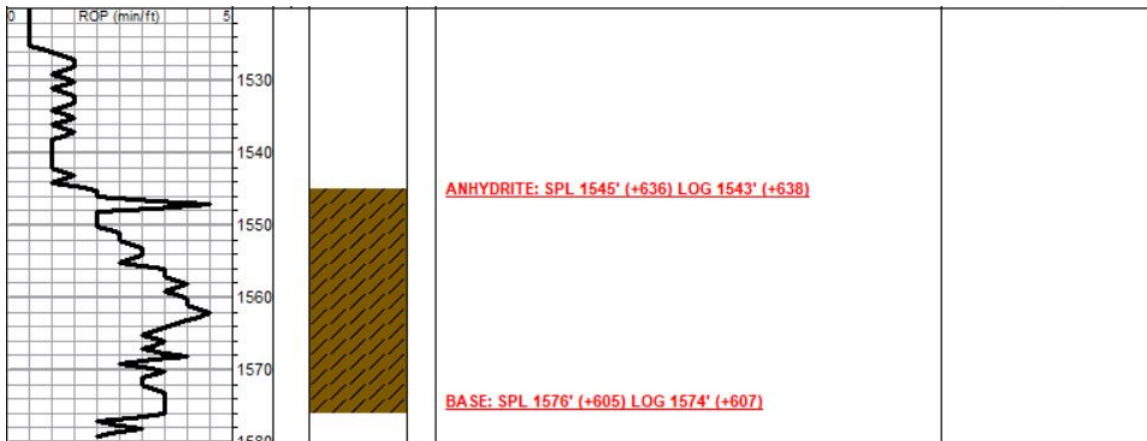
NOTES

DUE TO NEGATIVE RESULTS ON BOTH DST'S, DECISION WAS MADE TO PLUG AND ABANDON THE LEINMILLER #5.

TOPS COMPARISON

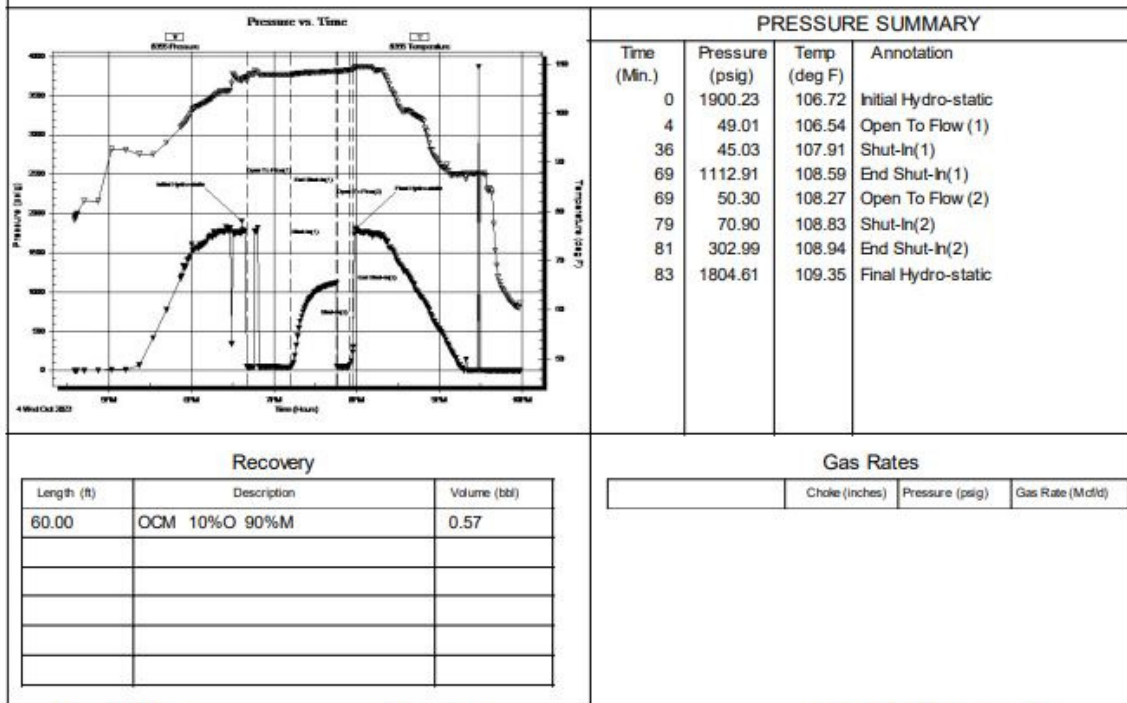
FORMATION	LEINMILLER #5								LEINMILLER #1				LEINMILLER #2				
	MUSTANG ENERGY CORP								FRANCIS V WEIGEL				FRANCIS V WEIGEL				
	SE, SW, NE, NW, Sec. 2, T12S, R19W								NW, SE, NW, Sec 2, T12S, R19W				S2, S2, NW Sec 2-12-19				
	KB		GL		2173		2173		2176		2149		KB		2149		
LOG TOPS		SAMPLE TOPS		LOG		LOG		SMPL.		LOG		LOG		SMPL.			
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	1543	638	1545	636	1533	640		- 2	- 4	1528	648	- 10	- 12	1490	659	- 21	- 23
BASE	1574	607	1576	605	1558	615		- 8	- 10	1562	614	- 7	- 9	1531	618	- 11	- 13
TOPEKA	3188	-1007	3188	-1007	3179	-1006		- 1	- 1	3173	-997	- 10	- 10	3142	-993	- 14	- 14
HEEBNER SHALE	3414	-1233	3415	-1234	3407	-1234		+ 1	+ 0	3402	-1226	- 7	- 8	3370	-1221	- 12	- 13
TORONTO	3432	-1251	3432	-1251	3424	-1251		+ 0	+ 0	3420	-1244	- 7	- 7	3389	-1240	- 11	- 11
LKC	3453	-1272	3454	-1273	3445	-1272		+ 0	- 1	3443	-1267	- 5	- 6	3411	-1262	- 10	- 11
BKC	3683	-1502	3683	-1502	3675	-1502		+ 0	+ 0	3676	-1500	- 2	- 2	3645	-1496	- 6	- 6
CONGLOMERATE																	
ARBUCKLE	3728	-1547	3730	-1549	3717	-1544		- 3	- 5	3715	-1539	- 8	- 10	3685	-1536	- 11	- 13
TOTAL DEPTH	3800	-1619	3800	-1619	3801	-1628		+ 9	+ 9	3722	-1546	- 73	- 73	3690	-1541	- 78	- 78

ANHYDRITE



DST #1 3719'-3735' (ARBUCKLE)

	DRILL STEM TEST REPORT	
	Mustang Energy Corp.	2-12S-19W/Ellis
	Leinmiller #5	
	Job Ticket: 71120	DST#: 1
ATTN: Cameron Brine	Test Start: 2023.10.04 @ 16:35:05	
GENERAL INFORMATION:		
Formation: Arbuckle		
Deviated: No Whipstock	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 18:40:00		Tester: Richie Samora
Time Test Ended: 21:59:00		Unit No: 66
Interval: 3719.00 ft (KB) To 3735.00 ft (KB) (TVD)	Reference Elevations: 2181.00 ft (KB)	
Total Depth: 3735.00 ft (KB) (TVD)	2176.00 ft (CF)	
Hole Diameter: 7.79 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft
Serial #: 8355		
Press@RunDepth: 70.90 psig @	ft (KB)	Capacity: 8000.00 psig
Start Date: 2023.10.04	End Date: 2023.10.04	Last Calib.: 1899.12.30
Start Time: 16:35:05	End Time: 21:59:00	Time On Btm: 2023.10.04 @ 18:36:30
		Time Off Btm: 2023.10.04 @ 19:59:00
TEST COMMENT: 30- IF: Weak blow 1/4" did not build Flushed Tool 30-IS: No blow back 10-FF: No blow		



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.23	106.72	Initial Hydro-static
4	49.01	106.54	Open To Flow (1)
36	45.03	107.91	Shut-In(1)
69	1112.91	108.59	End Shut-h(1)
69	50.30	108.27	Open To Flow (2)
79	70.90	108.83	Shut-In(2)
81	302.99	108.94	End Shut-h(2)
83	1804.61	109.35	Final Hydro-static

Length (ft)	Description	Volume (bbl)
60.00	OCM 10%O 90%M	0.57


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

TriLOBite Testing, Inc

Ref. No: 71120

Printed: 2023.10.04 @ 22:23:28

DST #2 3721'-3750' (ARBUCKLE)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp. **2-12S-19W Ellis,KS**

PO Box 1121 **Leinmiller #5**
Hays KS 67601

Job Ticket: 71121 **DST#: 2**

ATTN: Cameron Brin **Test Start: 2023.10.05 @ 11:49:00**

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:28:00
 Time Test Ended: 18:01:00

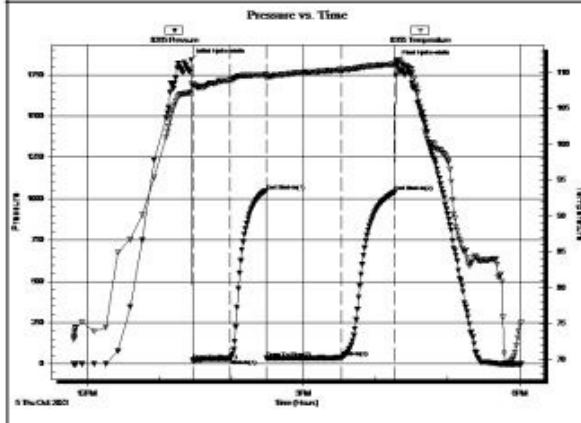
Test Type: Conventional Straddle (Reset)
 Tester: Richie Samora
 Unit No: 66

Interval: **3721.00 ft (KB) To 3750.00 ft (KB) (TVD)**
 Reference Elevations: 2181.00 ft (KB)
 Total Depth: 3800.00 ft (KB) (TVD) 2176.00 ft (CF)
 Hole Diameter: 7.79 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8355

Press@RunDepth: 38.55 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.10.05 End Date: 2023.10.05 Last Calib.: 1899.12.30
 Start Time: 11:49:05 End Time: 18:00:59 Time On Btm: 2023.10.05 @ 13:27:00
 Time Off Btm: 2023.10.05 @ 16:17:30

TEST COMMENT: 30-F: Weak surface blow building Built to 1.75"
 30-1st Very weak surface blow did not build
 60-FF: Weak surface blow built to .75"
 45-FSt No blow back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.75	108.43	Initial Hydro-static
1	22.74	108.11	Open To Flow (1)
32	32.46	108.93	Shut-h(1)
62	1047.91	109.71	End Shut-h(1)
63	33.93	109.23	Open To Flow (2)
125	38.55	110.38	Shut-h(2)
169	1040.42	111.17	End Shut-h(2)
171	1830.05	111.76	Final Hydro-static

Length (ft)	Description	Volume (bbl)

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

45.00	OCM 15%O 85%M	0.36




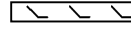

* Recovery from multiple tests

Tribolite Testing, Inc

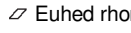



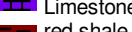
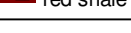

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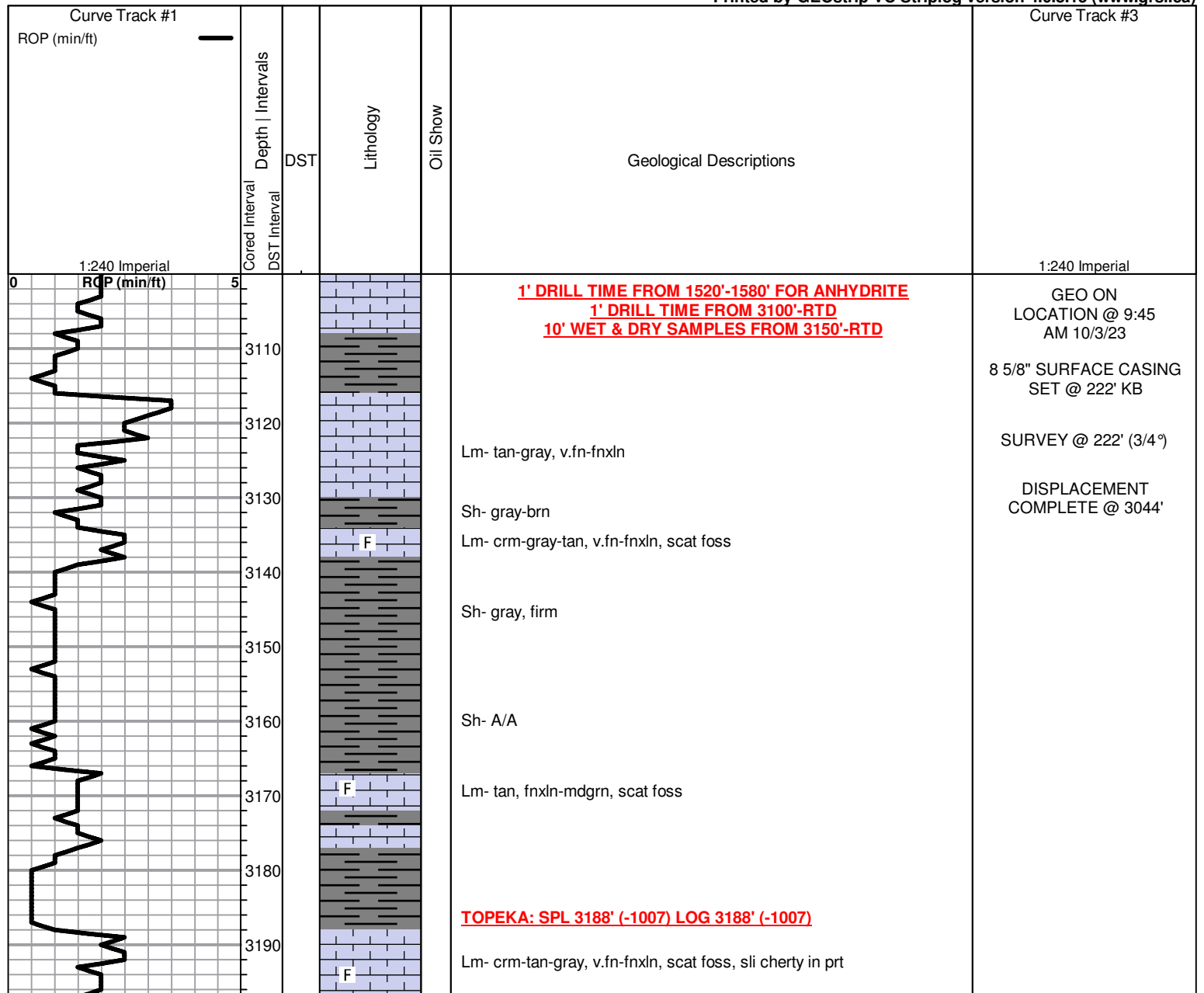
ROCK TYPES

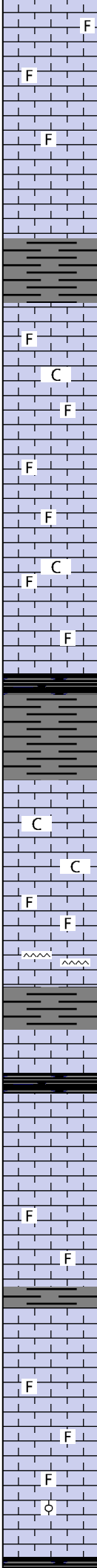
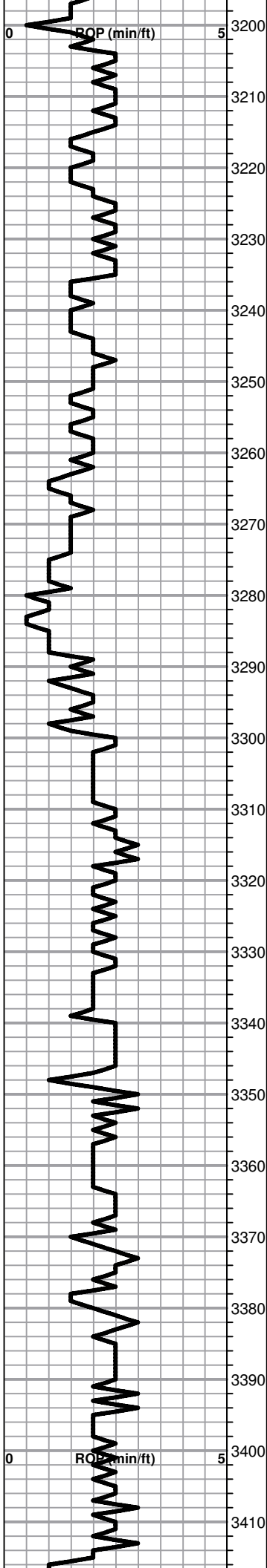
-  Dolprim
-  Lmst fw7>
-  Carbon Sh
-  Dol Lime
-  shale, gry

ACCESSORIES

- MINERAL**
 Euhed rhombs of dol or l
- FOSSIL**
 F Fossils < 20%
 phi Oolite
- STRINGER**
 Chert
 Limestone
 red shale
- TEXTURE**
 C Chalky

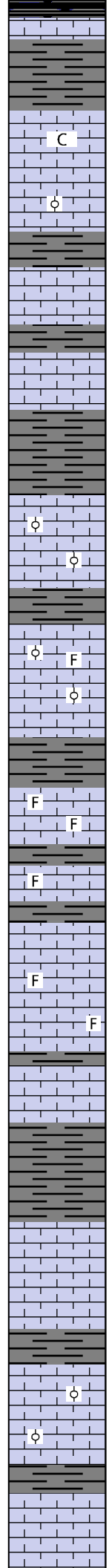
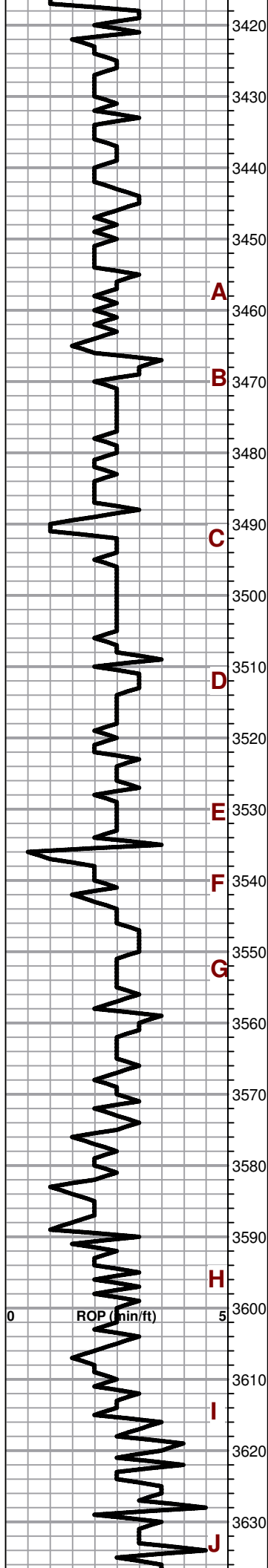
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F Lm- A/A, sli chalky
 F Lm- A/A
 F Lm- A/A
 O Lm- crm-tan, v.fn-fnxln, v. few scat pcs w/ pr ppt por, 3-4 pcs w/ v. spotty brn stn, v. sli SFO upon crush, faint odor
 Sh- gray, muddy
 F Lm- crm, v.fn-fnxln, sli cherty, chalky in prt, scat foss
 C Lm- A/A
 F Lm- A/A
 F Lm- A/A
 F Lm- A/A
 C Lm- crm-tan, v.fn-fnxln, scat foss
 F Lm- crm-tan, v.fn-fnxln, scat foss
 Sh- blk, carb
 Sh- gray
 C Lm- crm-tan, fnxln-fngrn, chalky
 C Lm- crm, v.fn-fnxln, cherty, scat foss
 F Lm- crm, v.fn-fnxln, cherty, scat foss
 F Lm- crm, v.fn-fnxln, cherty, scat foss
 Chert- gray, foss, angular
 Lm- crm-tan, v.fnxln- cherty
 Sh- blk, carb
 Lm- crm-tan, v.fnxln, cherty
 F Lm- crm-tan, v.fn-fnxln, scat foss, cherty in prt
 F Lm- A/A
 Sh- gray-green, earthy
 F Lm- crm-wt, v.fnxln, cherty
 F Lm- crm-tan, v.fnxln-mdgrn, cherty in prt, scat foss
 F Lm- crm-tan, fnxln, scat foss, oolitic in prt, few scat pcs w/ pr ppt & tr fr oolitic por, 1 pc w/ brn sli sat stn in por, sheen FO upon crush, faint odor
 O

HEEBNER: SPL 3415' (-1234) LOG 3414' (-1233)



Sh- blk, carb

Lm- crm-tan, v.fnxln, dense

Sh- gray

TORONTO: SPL 3432' (-1251) LOG 3432' (-1251)

Lm- crm-tan, v.fn-fnxln, cherty, chalky in prt

Lm- crm, v.fn-fnxln, cherty, oolitic in prt, few scat pcs w/ pr ppt-xln & 1 pc pr-fr oolitic por, lt brn spotty face stn & tr stn in por, tr FO in cup & upon crush, pr- no odor

Sh- gray

LANSING: SPL 3454' (-1273) LOG 3453' (-1272)

Lm- crm, v.fn-fnxln, cherty in prt, few scat pcs w/ pr xln-ppt & tr vuggy por, 2-3 pcs w/ brn stn in por, tr FO upon crush, pr-no odor

Sh- gray-green, blkcky, firm

Lm- crm-tan, v.fn-fnxln, cherty

Sh- gray-green, firm

Lm- crm, fnxln, oolitic in prt, few scat pcs w/ pr xln-inoolitic por, 2-3 pcs w/ brn stn in por & tr sat, tr FO upon crush, pr-no odor

Lm- crm, fnxln, foss in prt, oolitic in prt, scat pr inxln-ppt-infoss-inoolitic por, 7-8 pcs w/ brn spotty & tr sat stn, sli SFO upon crush, faint odor

Sh- gray-brn

Lm- crm, fnxln, foss, few scat pcs w/ pr ppt-infoss & tr vuggy por, 2-3 pcs w/ brn spotty stn in por, tr FO in cup, pr-no odor

Sh- gray

Lm- crm, fnxln, foss, chalky in prt, scat pr ppt-infoss por, few scat pcs w/ spotty brn face-porosity stn, tr FO upon crush, pr-no odor

Lm- crm, v.fnxln, cherty, scat pr ppt por, few scat pcs w/ brn spotty stn, NSFO, no odor

Lm- crm, v.fn-fnxln, cherty, scat foss

Lm- crm, v.fnxln, cherty, barren

Sh- gray-blk, earthy

Lm- crm, v.fnxln, cherty, v. few pcs w/ pr xln-inoolitic por, 3 pcs w/ brn spotty stn, NSFO, faint odor

Sh- gray-brn

Lm- crm, v.fnxln, oolitic in prt, tr pr ppt por, 1 pc w/ spotty brn stn, NSFO, no odor

Sh- gray

Lm- crm-tan, v.fnxln, cherty, tr pr ppt por, 2-3 pcs w/ brn spotty stn, NSFO, no odor

A

B

C

D

E

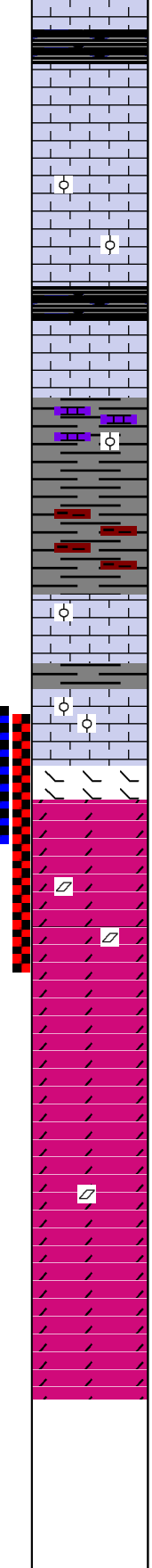
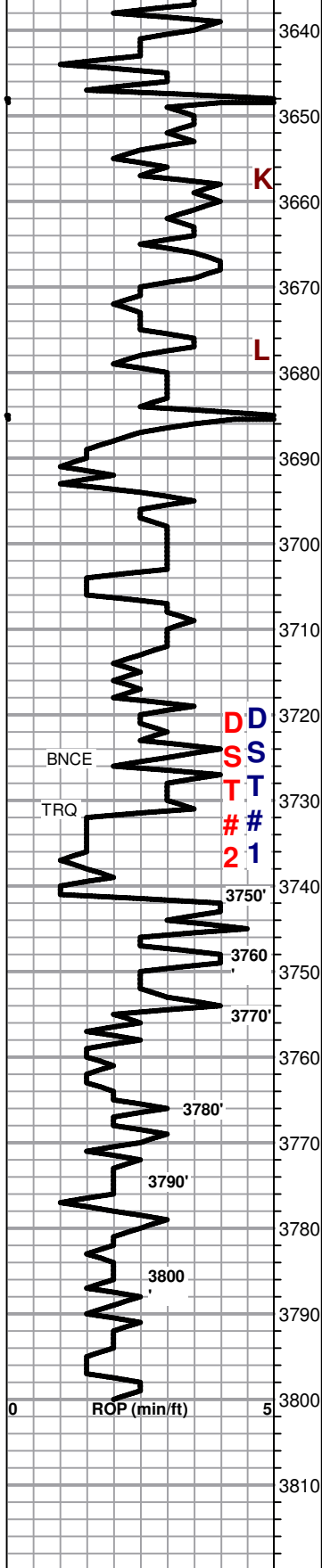
F

G

H

I

J



Sh- blk, carb

Lm- crm, v.fnxln, cherty

Lm- crm, v. fnxln, cherty, tr pr xln por, NSO

Lm- crm, v.fn-fnxln, oolitic in prt, few scat pcs w/ pr ppt-inoolitic por, 4-5 pcs w/ spotty brn stn, tr FO in cup, pr-no odor

Sh- blk, carb

Lm- crm, v.fnxln, cherty

BKC: SPL 3683' (-1502) LOG 3683' (-1502)

Lm- crm, v.fnxln, oolitic

Sh- gray

Sh- gray-brn, sli muddy red wash

Lm- crm v.fnxln, cherty, oolitic in prt, dense

Lm- crm, v.fn-fnxln, cherty in prt, oolitic in prt

Lm- crm, fn-mdxln, dolomitic in prt, oolitic in prt, scat pr inxln por, scat spotty- sub sat stn, sli SFO upon crush, faint odor

ARBUCKLE: SPL 3730' (-1549) LOG 3728' (-1547)

3733'- Dolo- crm, fn-mdxln, sucrosic in prt, scat mostly tight ppt & some pr-fr inxln por, scat spotty stn & 3-4 pcs w/ gd sat stn, sheen FO in cup & upon crush, fr-gd odor

3735'- Dolo- crm, fn-mdxln, sucrosic in prt, rhombic in prt, pr-fr inxln & tr vuggy por, brn sub sat-sat stn, fr SFO in cup & upon crush, fr-gd odor

3750'- Dolo- crm, fn-mdxln, sucrosic in prt, scat mostly tight inxln-ppt por, brn spotty & tr sat stn, sheen FO in cup, fr odor

3760'- Dolo- crm, v.fn-mdxln, dense, scat tight xln & tr vuggy por, few scat pcs w/ brn stn in por, mod sheen FO in cup, mod odor

3770'- Dolo- crm, v.fn-mdxln, sucrosic in prt, scat pr-fr ppt-xln por, scat brn spotty-sat stn, fr SFO in cup & spl, mod odor

3780'- Dolo- crm, fn-mdxln, sucrosic in prt, sli rhombic, scat pr-fr inxln por, brn-blk spotty- sat stn, sli SFO in cup & mod SFO upon crush, mod odor

3790'- Dolo- A/A

3800'- Dolo- crm, fn-mdxln, cherty, scat pr ppt-inxln por, scat blk tarry-flaky stn, SFO when heated, faint odor

RTD- Dolo- A/A

RTD: SPL 3800' (-1619) LOG 3800' (-1619)

DST #1
3719'-3735' (ARB)
 30-30-10
60' OCM (10% O)
 SIP: 1113-302#
FLUSHED TOOL IN 1ST OPEN, PULLED 10 MIN INTO 2ND OPEN

CFS @ 3729'
 CFS @ 3733'
 CFS @ 3735'

SURVEY @ 3735'
 (2 1/2°)

DST #2 (STRADDLE)
3721'-3750' (ARB)
 30-30-60-45
45' OCM (15% O)
 SIP: 1048-1040#

SURVEY @ RTD (2 1/2°)

GEO OFF LOCATION
 @ 6:30 AM 9/5/23