

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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DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601-1121

ATTN: Cameron Brin

Gary #4

31-11s-19w Ellis,KS

Start Date: 2021.08.08 @ 00:53:00

End Date: 2021.08.08 @ 06:39:02

Job Ticket #: 51069 DST #: 1

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

Printed: 2021.08.10 @ 15:03:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp
 PO Box 1121
 Hays, KS 67601-1121
 ATTN: Cameron Brin

31-11s-19w Ellis,KS

Gary #4

Job Ticket: 51069

DST#: 1

Test Start: 2021.08.08 @ 00:53:00

GENERAL INFORMATION:

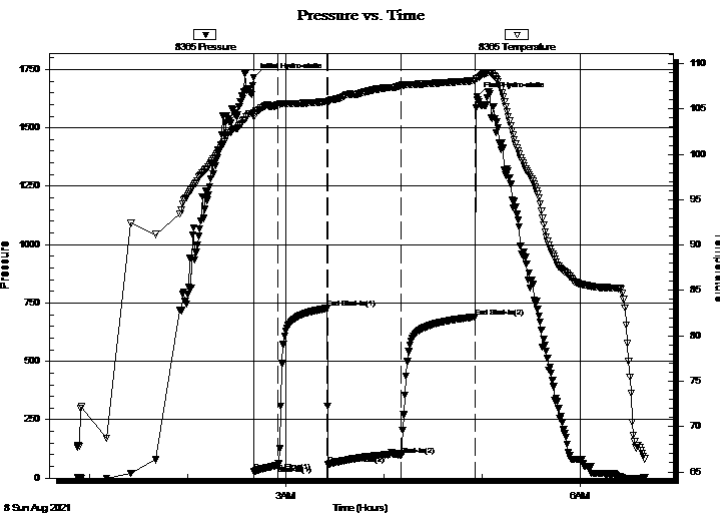
Formation: **LKC C - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:40:47
 Time Test Ended: 06:39:02
 Interval: **3441.00 ft (KB) To 3484.00 ft (KB) (TVD)**
 Total Depth: 3484.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2142.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365

Inside

Press@RunDepth: 99.20 psig @ 3476.00 ft (KB) Capacity: psig
 Start Date: 2021.08.08 End Date: 2021.08.08 Last Calib.: 2021.08.08
 Start Time: 00:53:01 End Time: 06:39:02 Time On Btm: 2021.08.08 @ 02:40:32
 Time Off Btm: 2021.08.08 @ 04:56:47

TEST COMMENT: IF- WSB built to 1.87" 15 min
 IS- No blow back 30 min
 FF- WSB built to .87" 45 min
 FS- No blow back 45 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.69	104.58	Initial Hydro-static
1	28.50	104.13	Open To Flow (1)
15	55.48	105.47	Shut-In(1)
45	727.24	105.81	End Shut-In(1)
46	59.63	105.71	Open To Flow (2)
90	99.20	107.60	Shut-In(2)
135	690.60	108.15	End Shut-In(2)
137	1633.46	108.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	100% Mud	0.72

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mustang Energy Corp

PO Box 1121
Hays, KS 67601-1121

ATTN: Cameron Brin

31-11s-19w Ellis, KS

Gary #4

Job Ticket: 51069

DST#: 1

Test Start: 2021.08.08 @ 00:53:00

GENERAL INFORMATION:

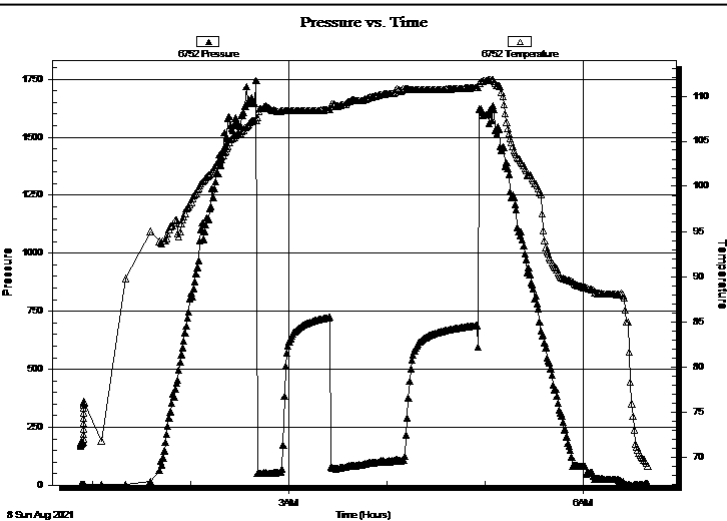
Formation: **LKC C - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:40:47
 Time Test Ended: 06:39:02
Interval: 3441.00 ft (KB) To 3484.00 ft (KB) (TVD)
 Total Depth: 3484.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2142.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6752

Outside

Press@RunDepth: psig @ 3476.00 ft (KB) Capacity: psig
 Start Date: 2021.08.08 End Date: 2021.08.08 Last Calib.: 2021.08.08
 Start Time: 00:53:01 End Time: 06:40:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- WSB built to 1.87" 15 min
 IS- No blow back 30 min
 FF- WSB built to .87" 45 min
 FS- No blow back 45 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	100% Mud	0.72

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51069
Test Start: 2021.08.08 @ 00:53:00

DST#: 1

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3441.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3427.00	
Hydraulic tool	5.00			3432.00	
Top Packer	5.00			3437.00	
Packer	4.00			3441.00	19.00 Bottom Of Top Packer
Stubb	1.00			3442.00	
Perforations	2.00			3444.00	
Change Over Sub	1.00			3445.00	
Drill Pipe	30.00			3475.00	
Change Over Sub	1.00			3476.00	
Recorder	0.00	8365	Inside	3476.00	
Recorder	0.00	6752	Outside	3476.00	
perforations	5.00			3481.00	
Bullnose	3.00			3484.00	43.00 Anchor Tool

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51069 **DST#: 1**
Test Start: 2021.08.08 @ 00:53:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

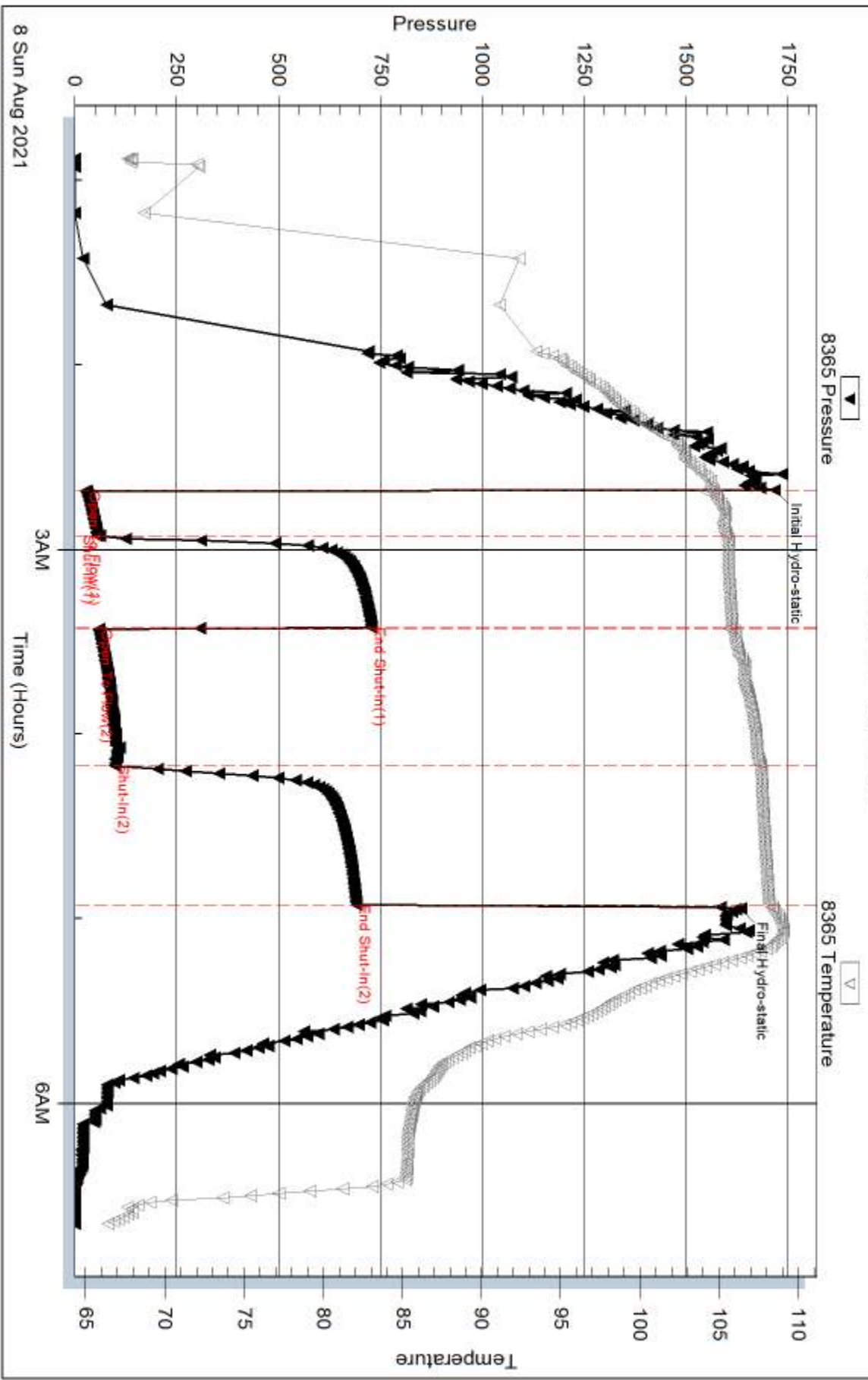
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	100% Mud	0.721

Total Length: 130.00 ft Total Volume: 0.721 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1.5# LCM

Pressure vs. Time

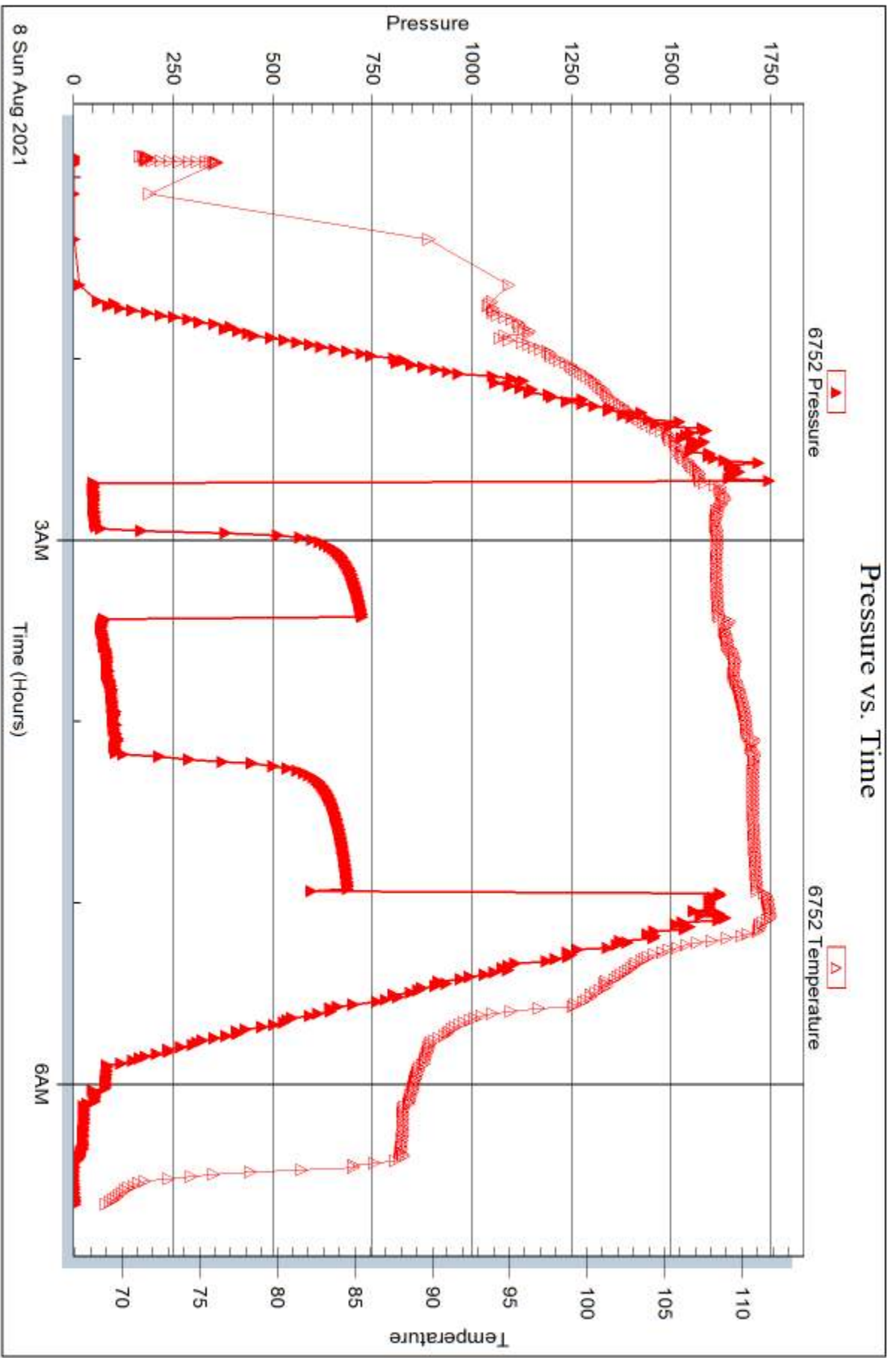


Serial #: 6752

Outside Mustang Energy Corp

Gary #4

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601-1121

ATTN: Cameron Brin

Gary #4

31-11s-19w Ellis,KS

Start Date: 2021.08.08 @ 15:01:00

End Date: 2021.08.08 @ 22:19:02

Job Ticket #: 51070 DST #: 2

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

Printed: 2021.08.10 @ 15:03:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp
 PO Box 1121
 Hays, KS 67601-1121
 ATTN: Cameron Brin

31-11s-19w Ellis,KS

Gary #4

Job Ticket: 51070

DST#: 2

Test Start: 2021.08.08 @ 15:01:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:41:32

Time Test Ended: 22:19:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Webster

Unit No: 72

Interval: 3481.00 ft (KB) To 3517.00 ft (KB) (TVD)

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3484.00 ft (KB) (TVD)

2135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

Serial #: 8365

Inside

Press@RunDepth: 118.58 psig @ 3514.00 ft (KB)

Capacity: psig

Start Date: 2021.08.08

End Date:

2021.08.08

Last Calib.:

2021.08.08

Start Time: 15:01:01

End Time:

22:19:02

Time On Btm:

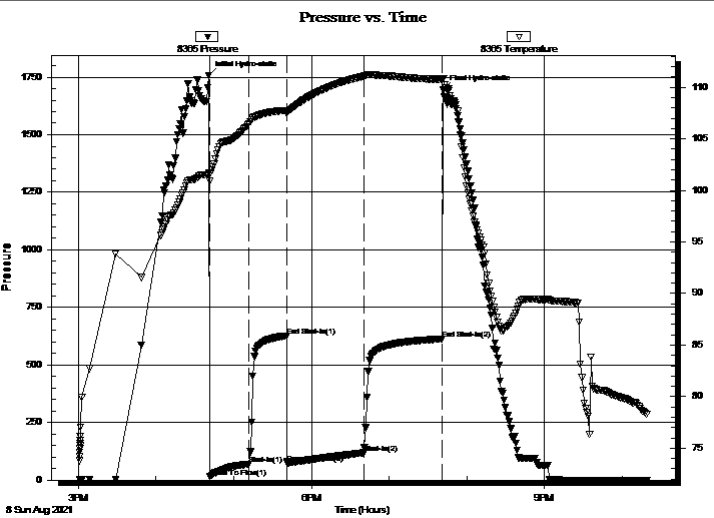
2021.08.08 @ 16:40:47

Time Off Btm:

2021.08.08 @ 19:41:47

TEST COMMENT: IF-WSB built to 2.6 30 min
 IS- No blow back 30 min
 FF- Wsb Built to 1.31 60 min
 FS- No blow back 60 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.59	101.66	Initial Hydro-static
1	14.24	100.89	Open To Flow (1)
31	69.94	106.47	Shut-In(1)
60	626.84	107.72	End Shut-In(1)
61	75.02	107.59	Open To Flow (2)
120	118.58	111.07	Shut-In(2)
180	613.56	110.79	End Shut-In(2)
181	1693.63	110.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	90% Water 10% Mud	0.59
62.00	30% Oil 35% Water 35% Mud	0.86
62.00	90% Oil 10% Gas	0.87
0.00	558' GIP	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

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51070 **DST#: 2**
Test Start: 2021.08.08 @ 15:01:00

Tool Information

Drill Pipe:	Length: 3347.00 ft	Diameter: 3.80 inches	Volume: 46.95 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3481.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Top Packer	5.00			3477.00	
Packer	4.00			3481.00	19.00 Bottom Of Top Packer
Stubb perforations	1.00			3482.00	
	32.00			3514.00	
Recorder	0.00	8365	Inside	3514.00	
Recorder	0.00	6752	Outside	3514.00	
Bullnose	3.00			3517.00	36.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51070 **DST#: 2**
Test Start: 2021.08.08 @ 15:01:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.55 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

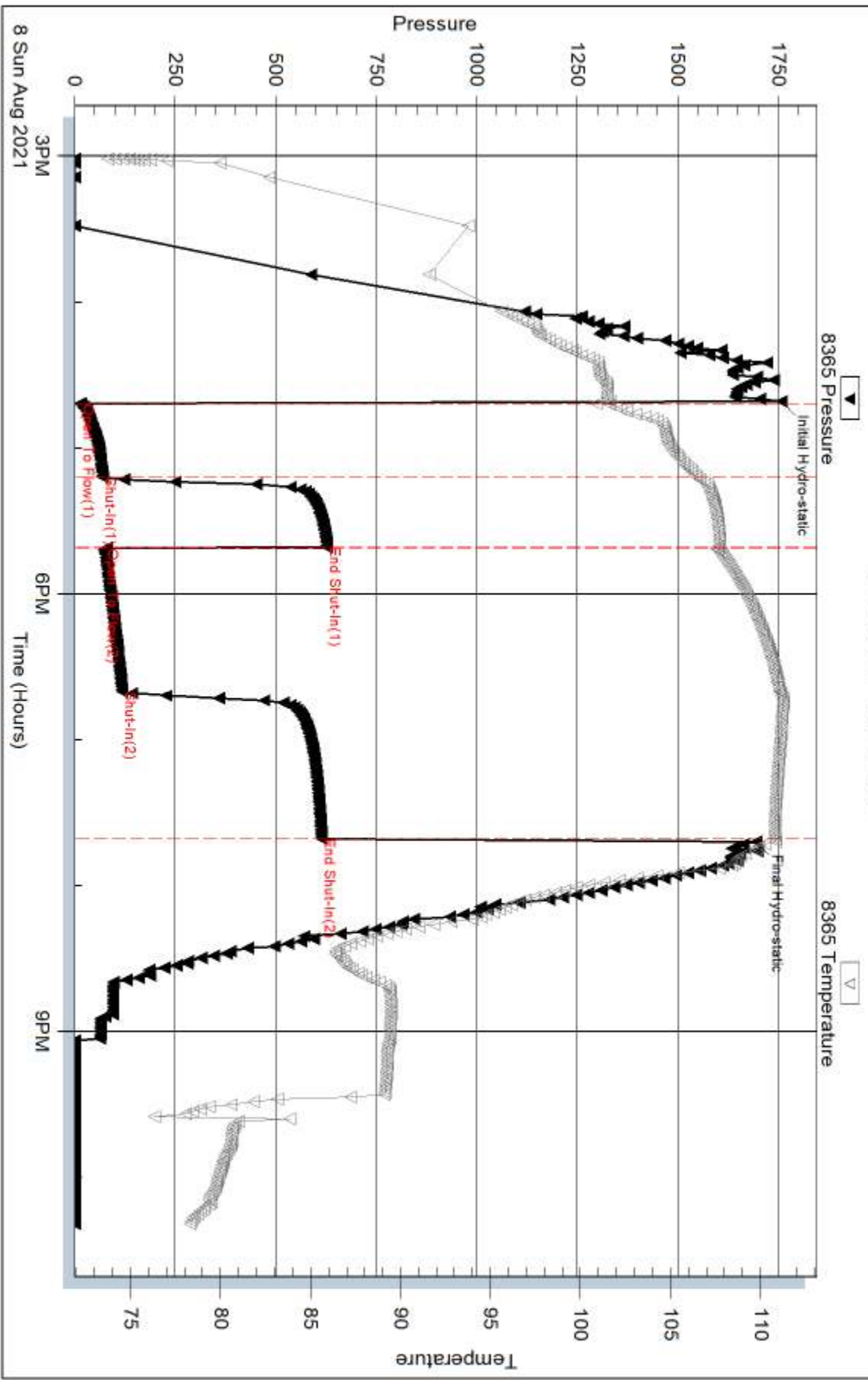
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	90% Water 10% Mud	0.590
62.00	30% Oil 35% Water 35% Mud	0.861
62.00	90% Oil 10% Gas	0.870
0.00	558' GIP	0.000

Total Length: 244.00 ft Total Volume: 2.321 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1# LCM

Pressure vs. Time

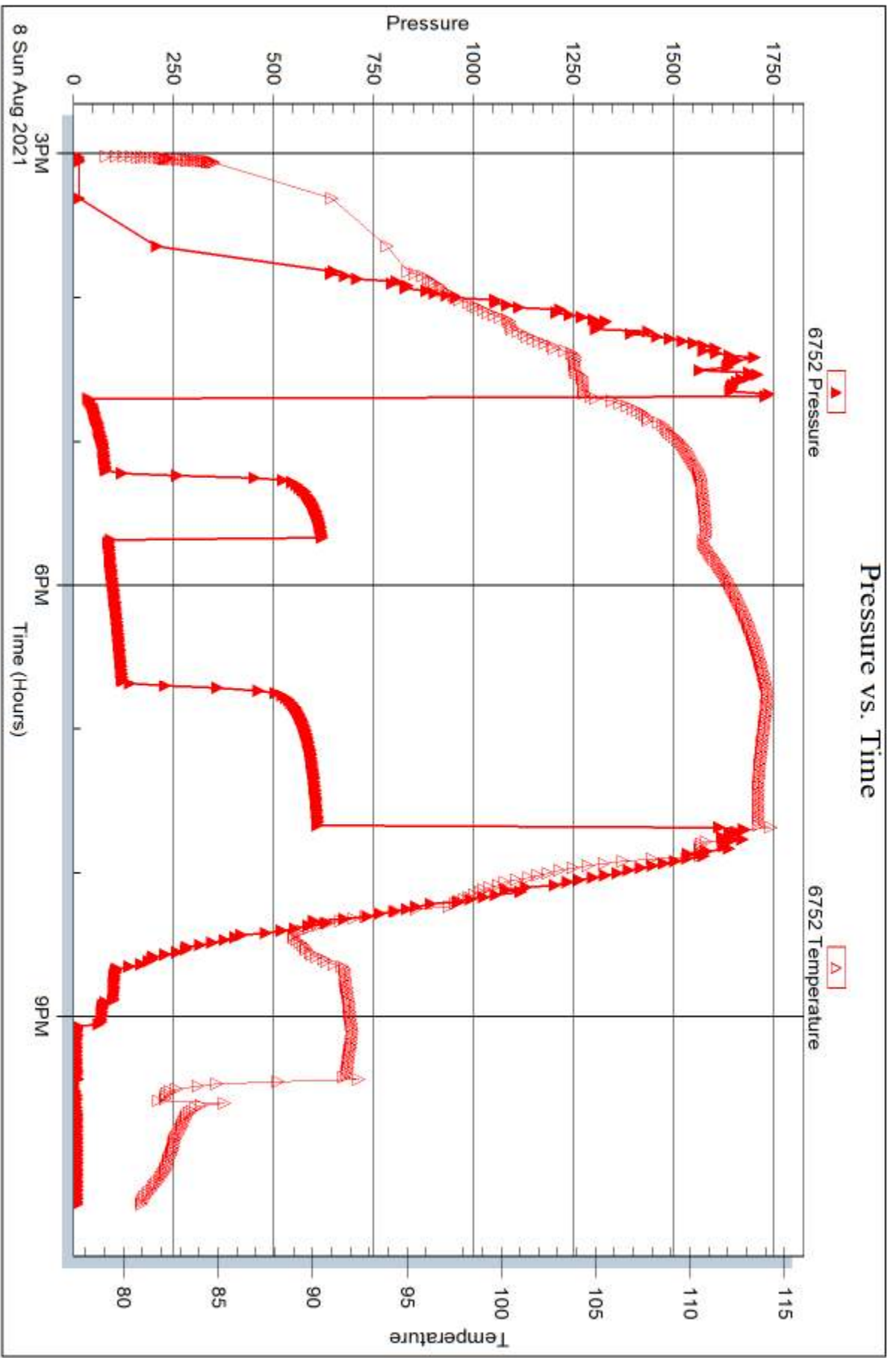


Serial #: 6752

Outside Mustang Energy Corp

Gary #4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 51070

Printed: 2021.08.10 @ 15:03:08



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601-1121

ATTN: Cameron Brin

Gary #4

31-11s-19w Ellis,KS

Start Date: 2021.08.09 @ 13:14:00

End Date: 2021.08.09 @ 19:26:02

Job Ticket #: 51071 DST #: 3

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

Printed: 2021.08.10 @ 15:02:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp
 PO Box 1121
 Hays, KS 67601-1121
 ATTN: Cameron Brin

31-11s-19w Ellis,KS

Gary #4

Job Ticket: 51071

DST#: 3

Test Start: 2021.08.09 @ 13:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:47
 Time Test Ended: 19:26:02
 Interval: **3706.00 ft (KB) To 3719.00 ft (KB) (TVD)**
 Total Depth: 3484.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2142.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 7.00 ft

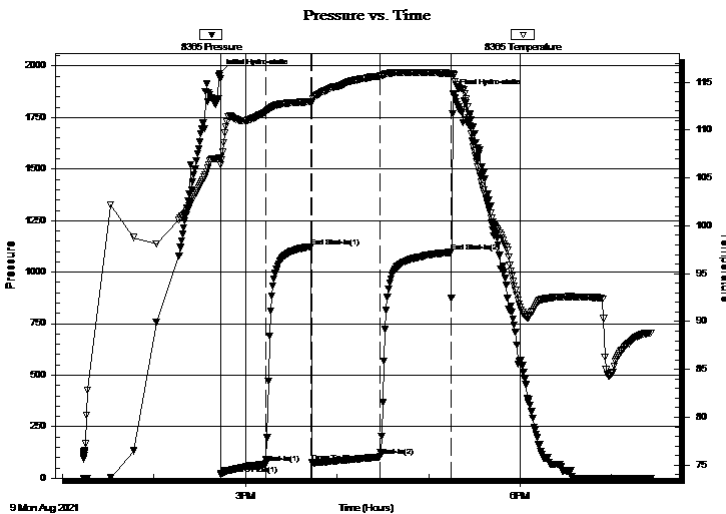
Serial #: 8365

Inside

Press@RunDepth: 106.01 psig @ 3716.00 ft (KB) Capacity: psig
 Start Date: 2021.08.09 End Date: 2021.08.09 Last Calib.: 2021.08.09
 Start Time: 13:14:01 End Time: 19:26:02 Time On Btm: 2021.08.09 @ 14:43:02
 Time Off Btm: 2021.08.09 @ 17:16:17

TEST COMMENT: IF-WSB built to 7.72 30 min
 IS- No blow back 30 min
 FF- WSB built to 9.13" 45 min
 FS- WSB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.64	107.10	Initial Hydro-static
1	18.71	106.34	Open To Flow (1)
31	69.74	111.90	Shut-In(1)
60	1122.76	112.97	End Shut-In(1)
61	77.25	112.84	Open To Flow (2)
106	106.01	115.64	Shut-In(2)
152	1096.27	115.92	End Shut-In(2)
154	1866.63	115.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	10% Oil 55% Water 35% Mud	0.59
120.00	10% Gas 90% Oil	1.67
0.00	60' GIP	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

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51071 **DST#: 3**
Test Start: 2021.08.09 @ 13:14:00

Tool Information

Drill Pipe:	Length: 3596.00 ft	Diameter: 3.80 inches	Volume: 50.44 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 51.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3706.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	32.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Top Packer	5.00			3702.00	
Packer	4.00			3706.00	19.00 Bottom Of Top Packer
Stubb	1.00			3707.00	
perforations	9.00			3716.00	
Recorder	0.00	8365	Inside	3716.00	
Recorder	0.00	6752	Outside	3716.00	
Bullnose	3.00			3719.00	13.00 Anchor Tool
Total Tool Length:	32.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp
PO Box 1121
Hays, KS 67601-1121
ATTN: Cameron Brin

31-11s-19w Ellis,KS
Gary #4
Job Ticket: 51071 **DST#: 3**
Test Start: 2021.08.09 @ 13:14:00

Mud and Cushion Information

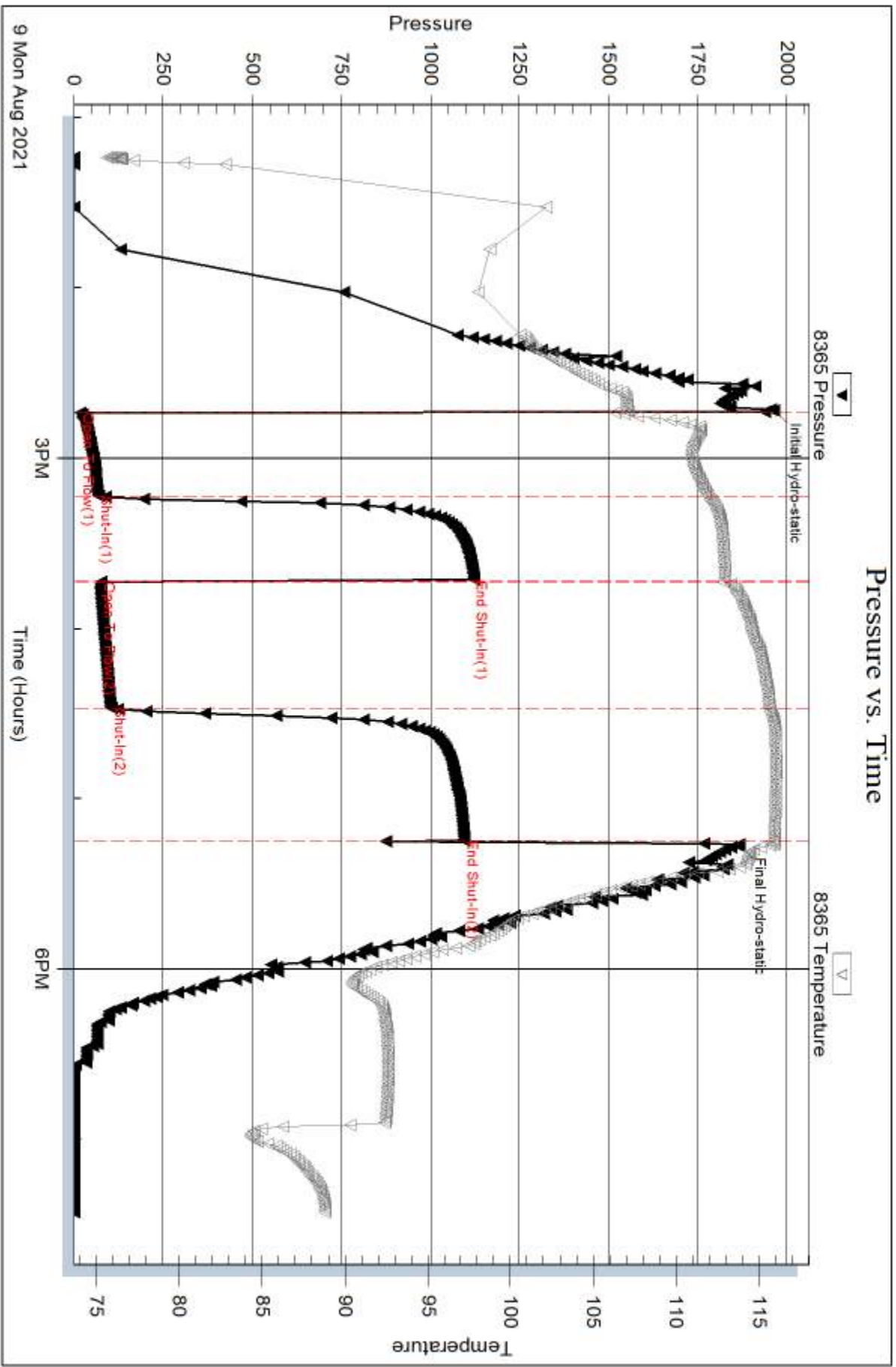
Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.37 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	10% Oil 55% Water 35% Mud	0.590
120.00	10% Gas 90% Oil	1.674
0.00	60' GIP	0.000

Total Length: 240.00 ft Total Volume: 2.264 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

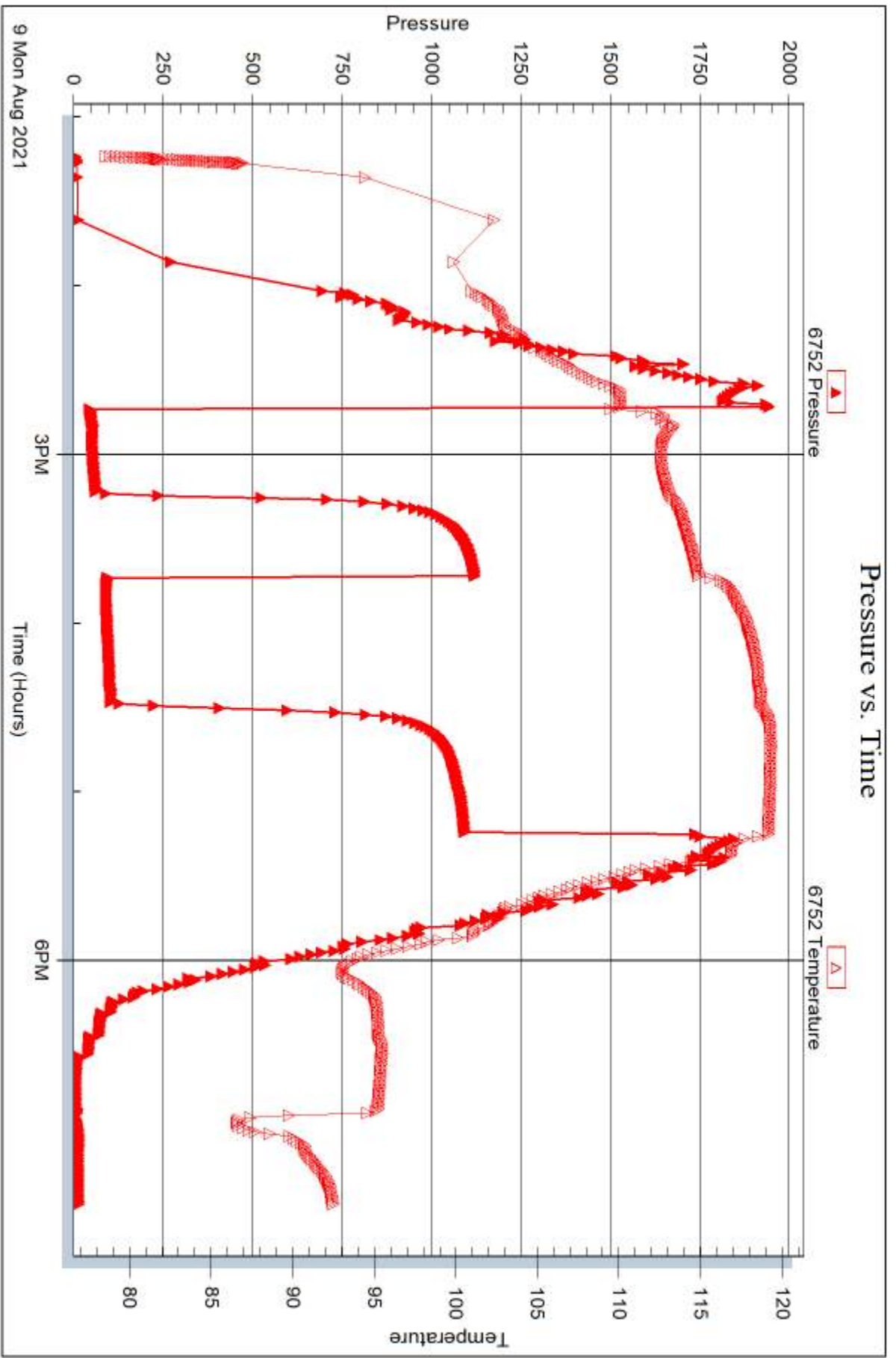


Serial #: 6752

Outside Mustang Energy Corp

Gary #4

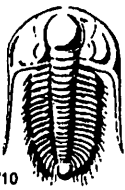
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51071

Printed: 2021.08.10 @ 15:02:35



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51069

Well Name & No. Grady #4 Test No. 1 Date 8/8/21
 Company Mustang Energy Corp Elevation 2142 KB 2135 GL
 Address Pobox 1121 Hays, KS 67601-1121
 Co. Rep / Geo. Cameron Brin Rig STP
 Location: Sec. 31 Twp. 11S Rge. 19W Co. Ellis State KS

Interval Tested 3441 - 3484 Zone Tested LKC C-D
 Anchor Length 43' Drill Pipe Run 3316 Mud Wt. 9
 Top Packer Depth 3436 Drill Collars Run 121 Vis 48
 Bottom Packer Depth 3441 Wt. Pipe Run 0 WL 2.6
 Total Depth 3484 Chlorides 3500 ppm System LCM 1.5 #

Blow Description IF - WSB built to 1.87"
ISI - No blow back
FF - WSB built to .87"
FSL - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
130	Mud			100	

Rec Total _____ BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1716
- (B) First Initial Flow 28
- (C) First Final Flow 55
- (D) Initial Shut-In 727
- (E) Second Initial Flow 59
- (F) Second Final Flow 99
- (G) Final Shut-In 690
- (H) Final Hydrostatic 1633

- Test 1300
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 40rt 50
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1350

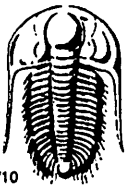
T-On Location 11:30
 T-Started 00:50 3
 T-Open 02:41
 T-Pulled 04:56
 T-Out 06:35
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1350
 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 45

Approved By _____

Our Representative Kevin Webster

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

NO. 51070

Well Name & No. Gary #4 Test No. 2 Date 8/8/21
 Company Mustang Energy Corp Elevation 2142 KB 2135 GL
 Address PO Box 1121 Hays, KS 67601-1121
 Co. Rep / Geo. Cameron Brin Rig STP
 Location: Sec. 31 Twp. 11S Rge. 19W Co. Ellis State KS

Interval Tested 3481 - 3517 Zone Tested LKC E-F
 Anchor Length 36 Drill Pipe Run 3347 Mud Wt. 9.1
 Top Packer Depth 3476 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 3481 Wt. Pipe Run 0 WL 9.6
 Total Depth 3517 Chlorides 5000 ppm System LCM 1 #

Blow Description IF - WSB, built to 2.6
ISI - NO blow back
FF - WSB, built to 1.31
FST - NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>gassy oil</u>	<u>10</u>	<u>90</u>		
<u>62</u>	<u>oilcut muddy water</u>		<u>30</u>	<u>35</u>	<u>35</u>
<u>120</u>	<u>muddy water</u>		<u>TR</u>	<u>90</u>	<u>10</u>
<u>558</u>	<u>gas</u>	<u>100</u>	<u>0</u>		

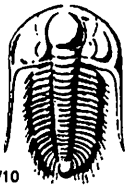
Rec Total _____ BHT 114 Gravity 33 API RW .249 @ 86 °F Chlorides 21,000 ppm

(A) Initial Hydrostatic 1757 Test 1300 T-On Location 1245
 (B) First Initial Flow 14 Jars _____ T-Started 1321
 (C) First Final Flow 69 Safety Joint _____ T-Open 15:01
 (D) Initial Shut-In 626 Circ Sub _____ T-Pulled 18:01
 (E) Second Initial Flow 75 Hourly Standby _____ T-Out 20:05
 (F) Second Final Flow 118 Mileage 40rt 50 Comments _____
 (G) Final Shut-In 613 Sampler _____
 (H) Final Hydrostatic 1693 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 0
 Total 1350
 MP/DST Disc't _____
 Sub Total 1350

Approved By _____ Our Representative Kevin Webster

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51071

Well Name & No. Grady #4 Test No. 3 Date 8/9/21
 Company Mustang Energy Corp Elevation 2142 KB 2135 GL
 Address PO box 1121 Hays, KS 67601-1121
 Co. Rep / Geo. Cameron Brinn Rig STP
 Location: Sec. 31 Twp. 11 S Rge. 19 W Co. Ellis State KS

Interval Tested 3706-3719 Zone Tested AlbucKLE
 Anchor Length 13 Drill Pipe Run 3596 Mud Wt. 9.5
 Top Packer Depth 3701 Drill Collars Run 121 Vis 58
 Bottom Packer Depth 3706 Wt. Pipe Run 0 WL 9.4
 Total Depth 3719 Chlorides 6000 ppm System LCM 1#

Blow Description IF-WSB built to 7.72"
ISI- No blow back
FF-WSB built to 9.13"
FSI-WSB

Rec	Feet of	%gas	%oil	%water	%mud
120	gassy oil	10	90		
120	Muddy oil cut water		10	55	35
60	gas	100			

Rec Total _____ BHT 116 Gravity 30 API RW .263 @ 93.4° F Chlorides 20,000 ppm

(A) Initial Hydrostatic 1964 Test 1300 T-On Location 12:55
 (B) First Initial Flow 18 Jars _____ T-Started 13:14
 (C) First Final Flow 69 Safety Joint _____ T-Open 14:43
 (D) Initial Shut-In 1122 Circ Sub _____ T-Pulled 17:43
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 19:14
 (F) Second Final Flow 106 Mileage 50 Comments _____
 (G) Final Shut-In 1096 Sampler _____
 (H) Final Hydrostatic 1866 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1350
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1350

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 45
 Approved By _____ Our Representative Kevin Webster

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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. 2403

Cell 785-324-1041

Date	8-4-21	Sec.	31	Twp.	11	Range	19	County	Ellis	State	Ks	On Location		Finish	3:15pm
------	--------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	--------

Location *YO Cement on N TO Homestead Rd*

Lease	<i>GARY</i>	Well No.	<i>4</i>	Owner	<i>2W</i>
Contractor	<i>STP</i>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	<i>SURFACE</i>				
Hole Size	<i>12 1/4</i>	T.D.	<i>214</i>	Charge To	<i>MUSTANG ENERGY</i>
Csg.	<i>8 5/8</i>	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.	<i>15</i>	Shoe Joint		Cement Amount Ordered	<i>1500 8/20 3-2</i>
Meas Line		Displace	<i>12.6</i>		

EQUIPMENT

Pumptrk	<i>17</i>	No.		Cementer	<i>Bill</i>	Common	<i>120</i>
				Helper	<i>craig</i>	Poz. Mix	<i>30</i>
Bulktrk		No.		Driver		Gel.	<i>3</i>
				Driver		Calcium	<i>6</i>
Bulktrk		No.		Driver	<i>DAVID</i>		

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	
		Sand	
	<i>Ran 5 Jts of 8 5/8</i>	Handling	<i>159</i>
	<i>Got c 213</i>	Mileage	

FLOAT EQUIPMENT

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	<i>Surface</i>	Tax	
Mileage	<i>15</i>	Discount	
Signature <i>[Signature]</i>		Total Charge	

Thanks

[Handwritten mark]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2274

Cell 785-324-1041

Date	8-10-21	Sec.	31	Twp.	11	Range	19	County	ELS	State	KS	On Location		Finish	3:45p				
Location								Cementer Homestead Rd 2 1/4 W Vinto											
Lease	Gary		Well No.		4		Owner												
Contractor	S.T.P.		To Quality Oilwell Cementing, Inc.									You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Production String		Charge To									Mustang Energy							
Hole Size	7/8		T.D.		3799		Street												
Csg.	5 1/2		Depth		3776		City									State			
Tbg. Size			Depth				The above was done to satisfaction and supervision of owner agent or contractor.												
Tool	Port Collar #59		Depth		1514		Cement Amount Ordered									180com 10/Salt + 5/Gilsonite			
Cement Left in Csg.	21/10		Shoe Joint		21/10		500gal mud clear									Common 180			
Meas Line			Displace		89' 1/4 BCL		EQUIPMENT												
Pumptrk	17		No.		Cementer		Helper		Craig		Poz. Mix								
Bulktrk			No.		Driver		Driver		Gel.										
Bulktrk	15		No.		Driver		Driver		Calcium										
JOB SERVICES & REMARKS													Hulls						
Remarks:													Salt 15						
Rat Hole	30SK												Flowseal						
Mouse Hole													Kol-Seal 800#						
Centralizers													Mud CLR 48 500 gal						
Baskets													CFL-117 or CD110 CAF 38						
D/V or Port Collar													Sand						
5 1/2 csg @ 3776. Bakt @ 3754.90												Handling 203							
Est. Circulation - Pump 500gal mud clear.												Mileage							
Plug Rathole w/ 30SK Cement												FLOAT EQUIPMENT							
5 1/2 with 150SK Clear lines x												Guide Shoe Port Collar							
Displace Plug												Centralizer 7							
Plug lander 1500#												Baskets 3							
												AFU Inserts							
												Float Shoe 1							
												Latch Down 1							
												Pumptrk Charge				prod string			
												Mileage				15			
X Signature												Thanks				Tax			
												Discount				Total Charge			



CHARGE TO: *Mustang Energy*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 35171
 PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Hwy 8*
 2.
 3.
 4.

WELL/PROJECT NO. *214*
 LEASE *Gary*
 COUNTY/PARISH *Lika*
 STATE *Ky*
 CITY
 DATE *8/23/21*
 OWNER *Sunc*

TICKET TYPE
 SERVICE
 SALES
 CONTRACTOR *Maverick*
 RIG NAME/NO.
 DELIVERED TO
 V/A *1/17*
 LCC.

WELL TYPE *Oil*
 WELL CATEGORY *Development*
 JOB PURPOSE *Cont. Port Collar*
 WELL PERMIT NO.
 WELL LOCATION

INVOICE INSTRUCTIONS

REFERRAL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			<i>MILEAGE TRK # 113</i>	<i>1.5</i>	<i>mi</i>			<i>6.00</i>	<i>90.00</i>
<i>576 D</i>		<i>1</i>			<i>Pump Service</i>	<i>1</i>	<i>ea</i>			<i>1500.00</i>	<i>1500.00</i>
<i>290</i>		<i>1</i>			<i>Air</i>	<i>1</i>	<i>gal</i>			<i>42.00</i>	<i>42.00</i>
<i>581</i>		<i>1</i>			<i>Service Charge</i>	<i>200</i>	<i>sh</i>			<i>2.00</i>	<i>400.00</i>
<i>583</i>		<i>1</i>			<i>Drayage</i>	<i>397</i>	<i>hrs</i>			<i>1.00</i>	<i>397.00</i>
<i>330</i>		<i>1</i>			<i>SMA Cement</i>	<i>100</i>	<i>sh</i>			<i>18.00</i>	<i>1800.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
X

DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL *4229.00*
 TAX
 TOTAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR _____ APPROVAL _____
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8/23/21 PAGE NO. 1

CUSTOMER Mustang Energy WELL NO. LEASE JOB TYPE Port Collier
TICKET NO. 35171

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on loc. Set up truck
	0925							Port Collier @ 1480'
	0925						1000	Test Csg. 1kbl 1,000psi
		3					300	Open Port Collier Pump 3 BPM 350 psi
	0930							Blow on Ann.
	0948							Mix SMD Cement 11.2 PPG
			55					Cut to Surface
			8					Increase weight 14.0 PPG
								100 sks total
								Displ. 85'
								Close P.C.
							1000	Test Held 1,000psi
	10:05							Run S.J.L.
	10:15							Reverse out
								20' Pumped Hole clean
								weight & Rack up truck
								JS Complete

Handwritten signature and initials at the bottom of the page.



MUSTANG

ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: GARY #4
Surface Location: E2, SE, SW, SE, Sec. 31, T11S, R19W
Bottom Location:
API: 15-051-27008
License Number: 33922
Spud Date: 8/4/2021 Time: 9:15 AM
Region: ELLIS CO
Drilling Completed: 8/9/2021 Time: 11:15 PM
Surface Coordinates: 330' FSL & 1600' FEL
Bottom Hole Coordinates:
Ground Elevation: 2135.00ft
K.B. Elevation: 2142.00ft
Logged Interval: 3050.00ft To: 3779.00ft
Total Depth: 3779.00ft
Formation: ARBUCKLE, LKC
Drilling Fluid Type: CHEMICAL MUD

OPERATOR

Company: MUSTANG ENERGY CORPORATION
Address: P.O. BOX 1121

Contact Geologist: ROD BRIN
Contact Phone Nbr: 785-623-0533
Well Name: GARY #4
Location: E2, SE, SW, SE, Sec. 31, T11S, R19W
API: 15-051-27008
Pool: Field: STAR
State: KS Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.46966
Latitude: 39.04600
N/S Co-ord: 330' FSL
E/W Co-ord: 1600' FEL

LOGGED BY

Company:
Address: 2511 E 19TH
HAYS, KS 67601
Phone Nbr: (785) 639-0721
Logged By: Geologist Name: CAMERON BRIN

CONTRACTOR

Contractor: STP DRILLING
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 8/4/2021 Time: 9:15 AM
TD Date: 8/9/2021 Time: 11:15 PM

ELEVATIONS

K.B. Elevation: 2142.00ft
K.B. to Ground: 7.00ft

Ground Elevation: 2135.00ft

NOTES

DUE TO POSITIVE RESULTS IN DST #2 & #3, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE GARY #4 WELL.

STRUCTURAL COMPARISON

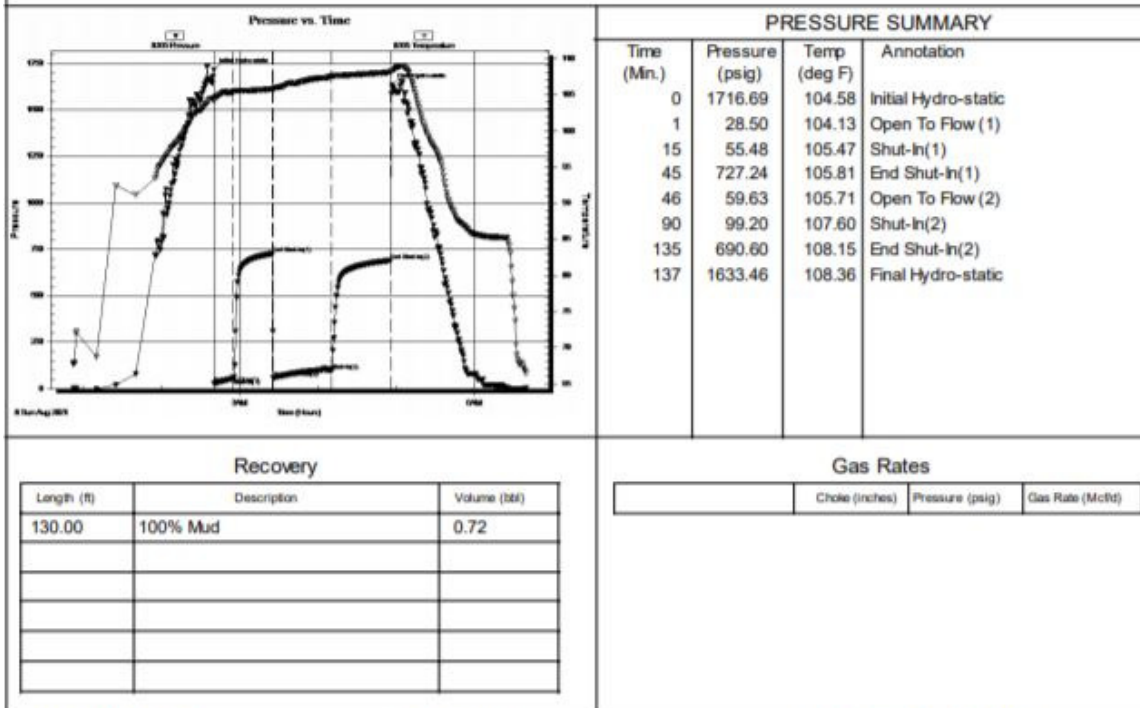
FORMATION	P&A 12/7/90 DALE SOLOMON #3 DON E PRATT				D&A 6/2/52 ZERFAS #1 BRADEN DRILLING CO				GARY #2 MUSTANG ENERGY				P&A 10/2/78 MASSIER #3 TOMKAT LTD				GARY #1 MUSTANG ENERGY CORP			
	GARY #4		2132		2131		2115		2138		2152		2152		2152		2152			
	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL		
	LOG TOPS	SAMPLE TOPS	LOG	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	LOGS	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	LOGS	LOG	SAMPL.			
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM		
ANHYDRITE TOP	1488	654	1490	652	1475	657	-3	-5	1462	653	+1	-1	1484	654	+0	-2	1505	647	+7	+5
BASE	1533	609	1534	608	1513	619	-10	-11	1505	610	-1	-2					1543	609	+0	-1
TOPEKA	3157	-1015	3158	-1016	3150	-1018	+3	+2	3122	-1007	-8	-9	3152	-1014	-1	-2	3167	-1015	+0	-1
HEBNER SHALE	3379	-1237	3381	-1239	3372	-1240	+3	+1	3380	-1249	+12	+10	3344	-1229	-8	-10	3376	-1238	+1	-1
TORONTO	3399	-1257	3402	-1260	3394	-1262	+5	+2	3398	-1267	+10	+7	3365	-1250	-7	-10	3396	-1258	+1	-2
LKC	3418	-1276	3421	-1279	3413	-1281	+5	+2	3421	-1290	+14	+11	3384	-1269	-7	-10	3415	-1277	+1	-2
BKC	3642	-1500	3643	-1501	3640	-1508	+8	+7	3646	-1515	+15	+14	3605	-1490	-10	-11				
CONGLOMERATE					3696	-1564			3705	-1574							3698	-1560		
ARBUCKLE	3712	-1570	3713	-1571	3727	-1595	+25	+24	3763	-1632	+62	+61	3674	-1559	-11	-12				
TOTAL DEPTH	3779	-1637	3779	-1637	3729	-1597	-40	-40	3797	-1666	+29	+29	3750	-1635	-2	-2	3770	-1632	-5	-5

ANHYDRITE



DST #3 3441'-3484' (LKC C-D)

	DRILL STEM TEST REPORT	
	Mustang Energy Corp	31-11s-19w Ellis, KS
	PO Box 1121 Hays, KS 67601-1121 ATTN: Cameron Brin	Gary #4 Job Ticket: 51069 DST#: 1 Test Start: 2021.08.08 @ 00:53:00
GENERAL INFORMATION:		
Formation: LKC C - D	Deviated: No Whipstock	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:40:47	ft (KB)	Tester: Kevin Webster
Time Test Ended: 06:39:02		Unit No: 72
Interval: 3441.00 ft (KB) To 3484.00 ft (KB) (TVD)		Reference Elevations: 2142.00 ft (KB)
Total Depth: 3484.00 ft (KB) (TVD)		2135.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft
Serial #: 8365 Inside		
Press@RunDepth: 99.20 psig @ 3476.00 ft (KB)	Capacity:	psig
Start Date: 2021.08.08	End Date: 2021.08.08	Last Calib.: 2021.08.08
Start Time: 00:53:01	End Time: 06:39:02	Time On Btm: 2021.08.08 @ 02:40:32
		Time Off Btm: 2021.08.08 @ 04:56:47
TEST COMMENT: F- WSB built to 1.87" 15 min IS- No blow back 30 min FF- WSB built to .87" 45 min		




Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)
130.00	100% Mud	0.72			

TriLOBITE Testing, Inc

Ref. No: 51069

Printed: 2021.08.10 @ 15:03:37

DST #2 3481'-3517' (LKC E-F)



DRILL STEM TEST REPORT

Mustang Energy Corp **31-11s-19w Ellis, KS**

PO Box 1121 **Gary #4**
Hays, KS 67601-1121

ATTN: Cameron Brin Job Ticket: 51070 **DST#: 2**

Test Start: 2021.08.08 @ 15:01:00

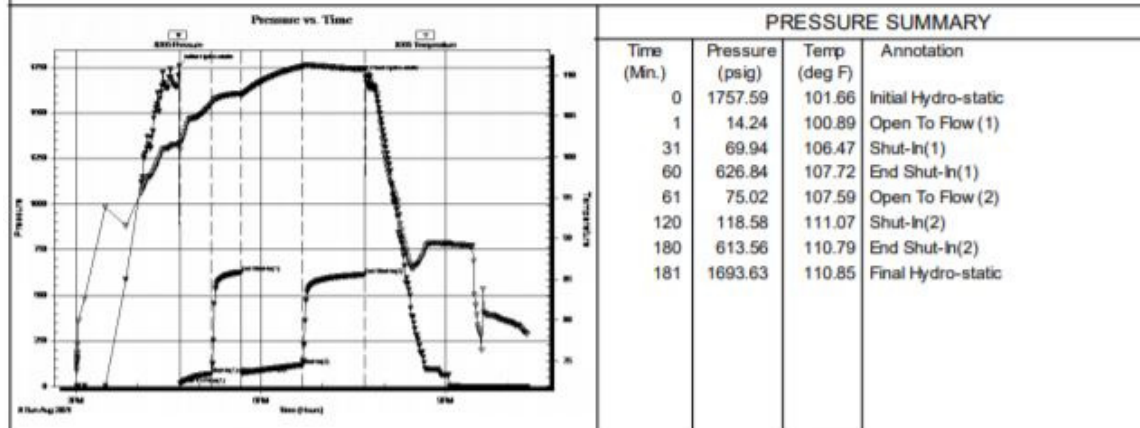
GENERAL INFORMATION:

Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:41:32
 Time Test Ended: 22:19:02
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72
 Interval: **3481.00 ft (KB) To 3517.00 ft (KB) (TVD)**
 Reference Elevations: 2142.00 ft (KB)
 Total Depth: 3484.00 ft (KB) (TVD) 2135.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8365

Inside
 Press@RunDepth: 118.58 psig @ 3514.00 ft (KB) Capacity: psig
 Start Date: 2021.08.08 End Date: 2021.08.08 Last Calib.: 2021.08.08
 Start Time: 15:01:01 End Time: 22:19:02 Time On Btm: 2021.08.08 @ 16:40:47
 Time Off Btm: 2021.08.08 @ 19:41:47

TEST COMMENT: F-WSB built to 2.6 30 min
 IS- No blow back 30 min
 FF- Wsb Built to 1.31 60 min
 FSI- No blow back 60 min



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Length (ft)	Description	Volume (bbl)
120.00	90% Water 10% Mud	0.59
62.00	30% Oil 35% Water 35% Mud	0.86
62.00	90% Oil 10% Gas	0.87
0.00	558' GIP	0.00

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 51070

Printed: 2021.08.10 @ 15:03:06

DST #3 3706'-3719' (ARB)

DRILL STEM TEST REPORT

Mustang Energy Corp **31-11s-19w Ellis, KS**

PO Box 1121 **Gary #4**
Hays, KS 67601-1121

ATTN: Cameron Brin Job Ticket: 51071 **DST#: 3**

Test Start: 2021.08.09 @ 13:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:47
 Time Test Ended: 19:26:02

Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 72

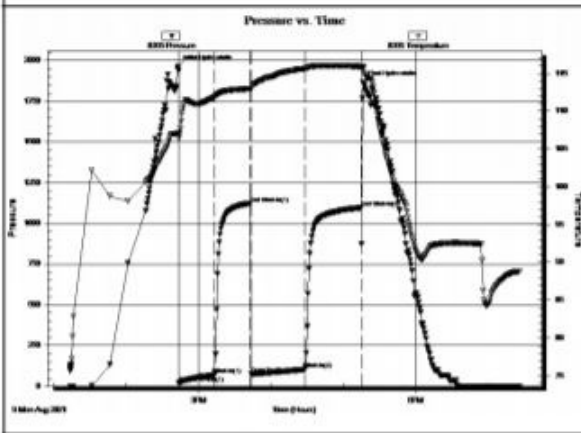
Interval: **3706.00 ft (KB) To 3719.00 ft (KB) (TVD)**
 Total Depth: 3484.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2142.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Inside

Press@RunDepth: 106.01 psig @ 3716.00 ft (KB) Capacity: psig
 Start Date: 2021.08.09 End Date: 2021.08.09 Last Calib.: 2021.08.09
 Start Time: 13:14:01 End Time: 19:26:02 Time On Btm: 2021.08.09 @ 14:43:02
 Time Off Btm: 2021.08.09 @ 17:16:17

TEST COMMENT: F-WSB built to 7.72 30 min
 IS- No blow back 30 min
 FF- WSB built to 9.13" 45 min
 FS- WSB



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.64	107.10	Initial Hydro-static
1	18.71	106.34	Open To Flow (1)
31	69.74	111.90	Shut-in(1)
60	1122.76	112.97	End Shut-in(1)
61	77.25	112.84	Open To Flow (2)
106	106.01	115.64	Shut-in(2)
152	1096.27	115.92	End Shut-in(2)
154	1866.63	115.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	10% Oil 55% Water 35% Mud	0.59
120.00	10% Gas 90% Oil	1.67
0.00	60' GIP	0.00

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 51071

Printed: 2021.08.10 @ 15:02:35

Gas Rates

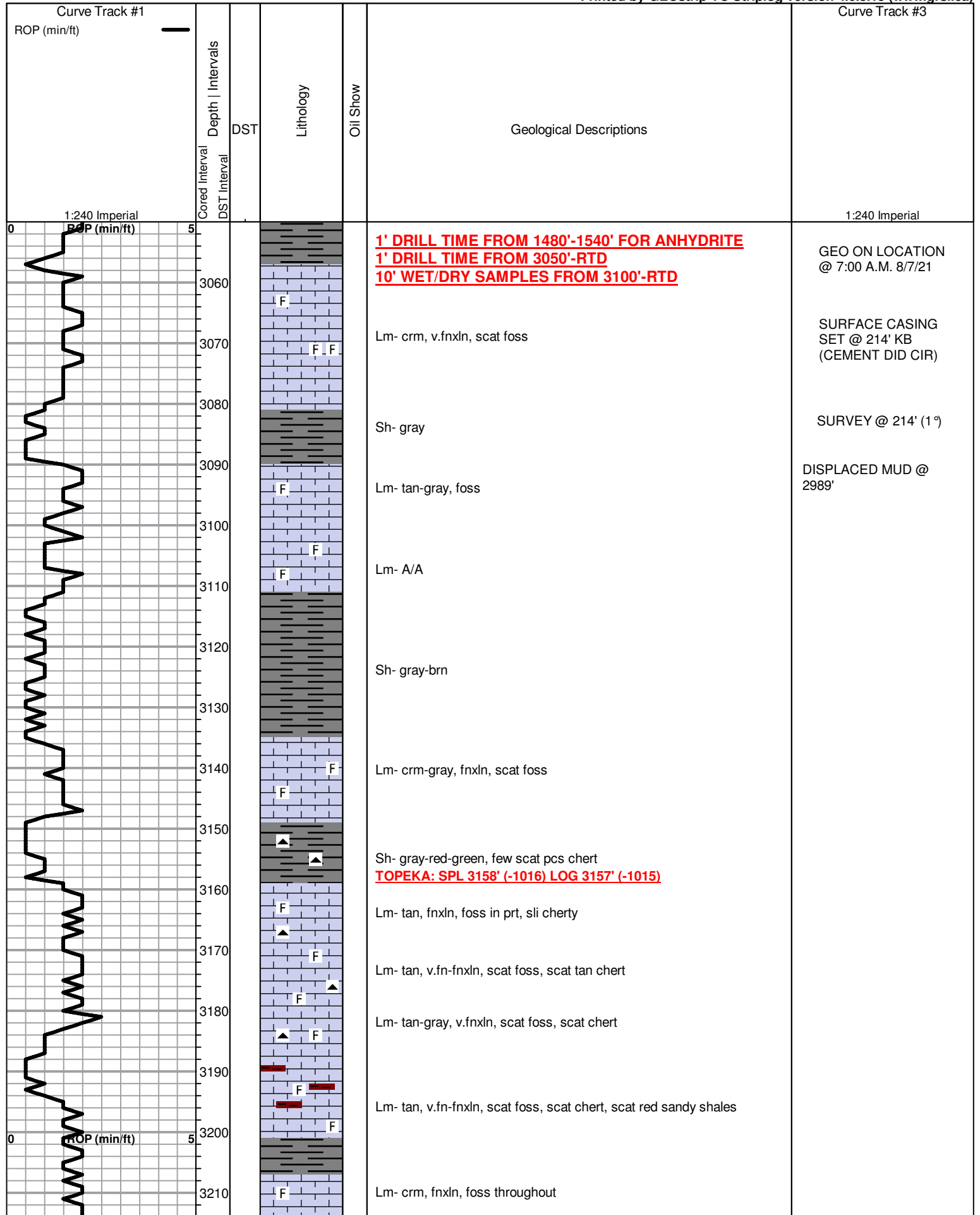
	Choke (inches)	Pressure (psig)	Gas Rate (Mcft)

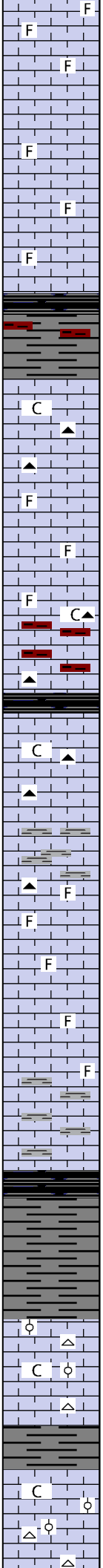
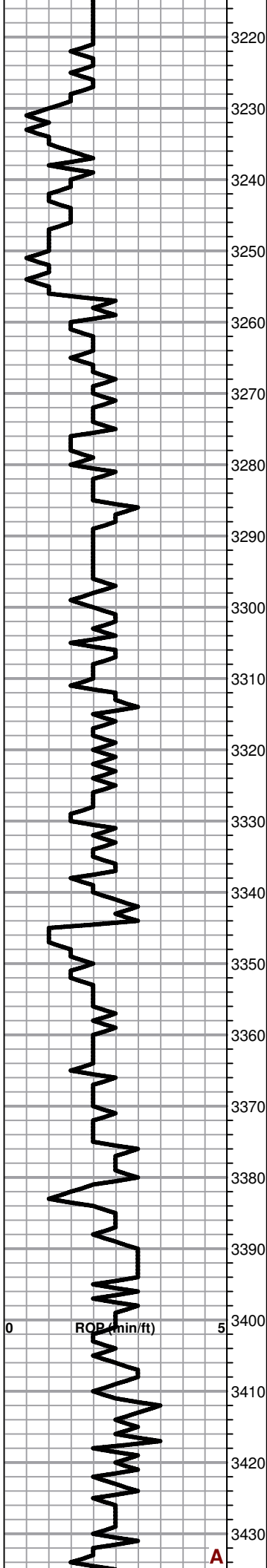
ROCK TYPES

- Chtcong1
- Lmst fw7>
- shale, gry
- Carbon Sh
- Dolprim
- Lscong1

ACCESSORIES

- MINERAL**
▲ Chert, dark
△ Chert, White
- FOSSIL**
F Fossils < 20%
♣ Corals
- STRINGER**
~ Chert
~ Shale
- TEXTURE**
C Chalky





Lm- crm, fnxln, scat foss, scat pr inxln por, NSO

Lm- A/A, fairly dense

Lm- A/A

Sh- blk, carb

Lm- crm-tan, fnxln, chalky in prt, scat brn chert

Lm- tan-crm, v.fn-fnxln, foss, few scat pcs w/ pr inxln por, NSO

Lm- crm-tan, v.fn-fnxln, foss, chalky in prt
 Sh- red, sandy
 Chert, wt-gray

Lm- A/A

Lm- crm, micro-v.fnxln, foss in prt, chalky in prt, scat wt-tan chert

Lm- crm- fnxln, scat foss, chalky in prt, **few scat pcs pr inxln por, pr lt brn stn, NSFO, sli-no odor**

Lm- crm-tan, fnxln, foss, oolitic in prt, scat pr inxln por, NSO, scat wt-brn chert

Lm- A/A

Lm- tan, fnxln, scat brn chert
 Sh- blk-gray

HEEBNER: SPL 3381' (-1239) LOG 3379' (-1237)

Sh- blk, carb

Sh- gray

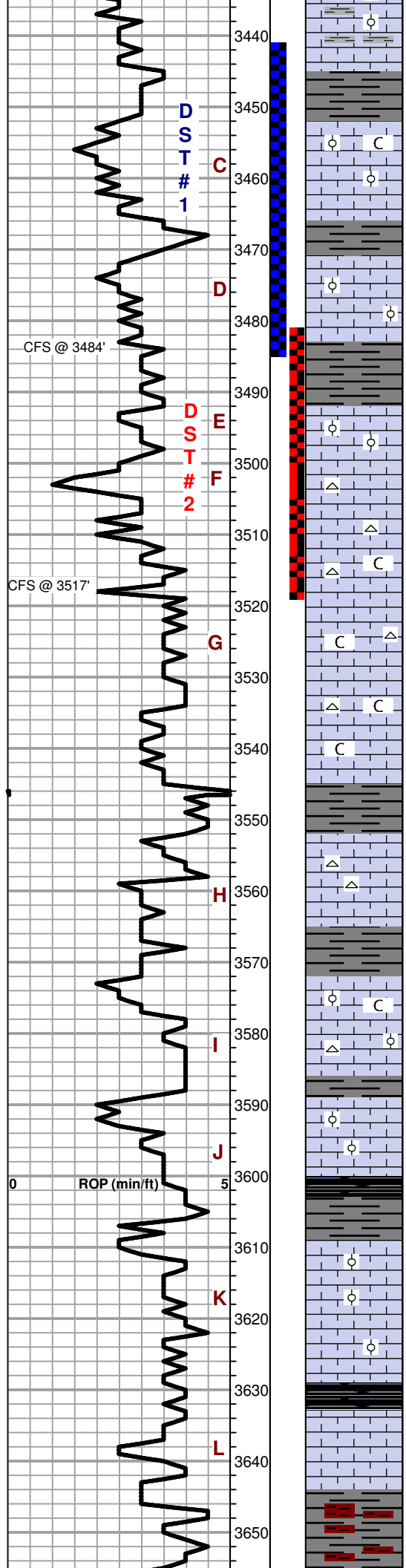
TORONTO: SPL 3402' (-1260) LOG 3399' (-1257)

Lm- wt-crm, v.fn-fnxln, foss, oolitic in prt, chalky in prt, scat wt chert

LKC: SPL 3421' (-1279) LOG 3418' (-1276)

Lm- crm, v.fnxln, foss, sli chalky in prt, barren

A



Lm- A/A oolitic in prt, scat wt-brn chert, scat gray shales

Lm- crm, v.fn-fnxln, foss, oolitic, chalky in prt, scat pr w/ few pcs fr inxln-infoss por, pr-fr brn stn, sli sheen FO upon crush, sli odor

Lm- crm, v.fn-fnxln, foss, oolitic, scat pr-fr inxln-infoss por, scat pr-fr brn-blk stn, sli sheen FO in spl, sli odor

Lm- crm, fnxln, oolitic, scat pr w/ few pcs fr oolitic-inxln por, pr-fr brn-blk stn, FO droplets in cup and sheen upon crush, fr-gd odor

Lm- crm, v.fn-fnxln, scat wt chert, fairly barren, scat pr w/ few pcs fr oolitic-inxln por, pr brn stn, v.sli sheen FO, sli odor

Lm- crm, v.fnxln, foss, barren, cherty, chalky, v. few scat pcs v. pr inxln-infoss por, v. pr lt brn stn, NSFO, sli-no odor

Lm- wt, microxln, barren, chalky, scat wt-brn chert

Lm- A/A, scat foss

Sh- gray-green, brown

Lm- wt- v. fn-fnxln, barren, scat wt-tan chert

Lm- crm, fnxln mostly barren, scat brn-wt chert, 3-4 scat pcs pr inxln, 1 pc fr inxln por, pr-fr brn stn, sli sheen FO upon crush, sli odor

Lm- crm, v.fn-fnxln, chalky in prt, scat foss, oolitic, scat chert, mostly tight, pr inxln-oolitic por, pr brn-blk stn, sli sheen FO upon crush, sli odor

Lm- crm, v.fn-fnxln, oolitic in prt, tight, scat pr inxln por, pr brn stn, sli sheen FO in spl & cup, sli odor

Sh- blk, carb

Lm- crm, v.fnxln, oolitic in prt, tight, mostly dnse & barren

Lm- crm, v.fnxln, tight, scat pr inxln por, pr brn stn, NSFO, no odor

Sh- blk, carb

Lm- crm, v.fnxln, fairly barren, scat v.pr inxln por, pr brn-blk stn, NSFO, sli odor

BKC: SPL 3643' (-1501) LOG 3642' (-1500)

Sh- gray-brown

DST #1

3441'-3484' (LKC C-D)
15-30-45-45

130' M

SIP: 727-690#

PIPE STRAP 1.53'
LONG TO BOARD

SURVEY @ 3484'
(MISRUN)

DST #2

3481'-3517' (LKC E-F)
30-30-60-60

558' GIP

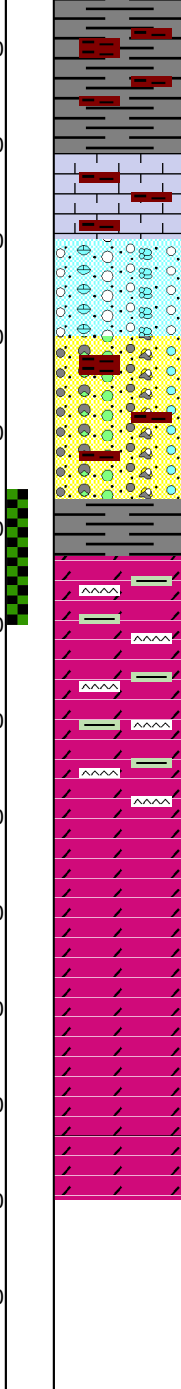
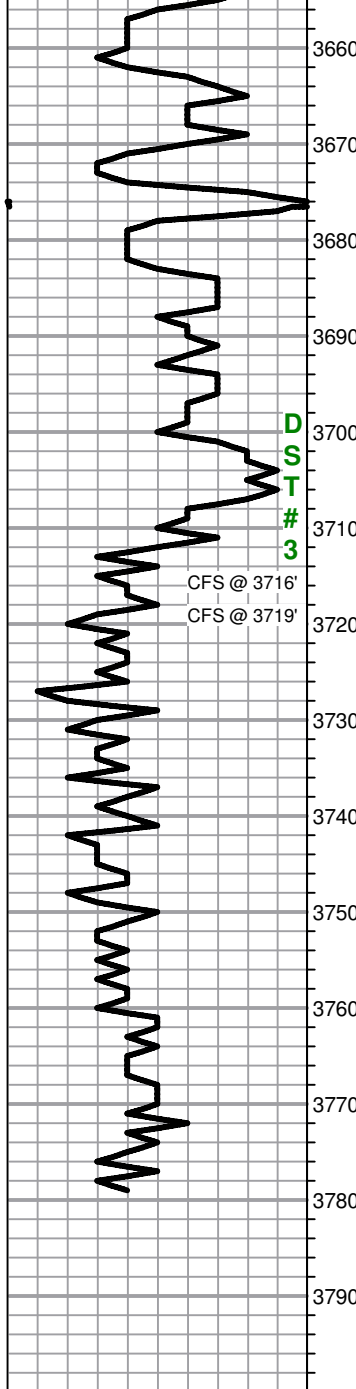
120' MW

62' OCMW

62' GO

SIP: 627-614#

SURVEY @ 3517' (1°)



Sh- gray-brn, muddy red was

Lm- crm, v.fnxln, scat foss, chalky in prt
 Chert- orange
 Sh- red-gray

Lm-cong, wt, fnxln, scat foss, chalky in prt
 Chert- orange
 Sh- brn-gray

ARBUCKLE: SPL 3713' (-1571) LOG 3712' (-1570)

- ① Dolo- wt, v.fn-fnxln, sucrosic in prt, scat pr w/ few pcs fr inxln por, few scat vugs, scat pr-fr brn-blk stn, pr-fr sheen FO in cup & spl, sli odor
 - ① Dolo-wt, fn-mdxln, sucrosic in prt, weathered in prt, scat fr inxln por, fr blk sat stn, fr-gd SFO in spl & drops in cup, fr odor
 - ① Dolo- wt, fnxln, sucrosic in prt, fairly tight, scat pr w/ few pcs fr inxln por, pr-fr brn stn, fr sheen FO in spl & drops in cup, sli odor
 - ① Dolo- wt, fnxln, sucrosic, scat pr inxln por, pr brn stn, fr sheen FO in cup, sli-no odor
 - ① Dolo- crm, fnxln, sucrosic, scat pr-fr inxln por w/ few scat vugs, pr-fr brn-blk stn, few pcs pr-fr sat, fr- gd sheen FO in spl & drops in cup, pr-fr odor
 - Dolo- crm, fnxln, sucrosic in prt, mostly barren, scat pr inxln por, pr brn stn, sli sheen FO in cup, sli odor
- Dolo- wt-pink, fnxln, sucrosic in prt, barren

RTD: SPL 3779' (-1637) LOG 3779' (-1637)

DST #3

3706'-3719' (ARB)
 30-30-45-45

60' GIP
 120' OCMW
 120' GO
 SIP: 1122-1096#

SAMPLES FROM THE TOP OF THE ARBUCKLE TO 3740 CARRIED A LARGE AMOUNT OF BRN-TRUQ SHALES AND ORANGE-WT CHERT

SURVEY @ RTD (3/4°)

GEO OFF LOCATION @ 6 A.M. 8/10/21