

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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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. 3141

Date	10-5-22	Sec.	22	Twp.	11	Range	19	County	Ellis	State	Ks	On Location		Finish	3:00 AM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location **Yocemento 10 N E 1 N**

Lease **M R AELLEN** Well No. **18** Owner

Contractor **Discovery** To Quality Oilwell Cementing, Inc.
Type Job **Long string** 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 **7 7/8** T.D. **3730** Charge To **MUSTANG**

Csg. **5 1/2** '15.5' 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. **21.25** Shoe Joint **21.26** Cement Amount Ordered **1804 10% Salt**

Meas Line Displace **88.22** **5%G. / 500G.M.F**

EQUIPMENT
Common **1804 ~~10%~~**

Pumptrk **17** No. Cementer Helper **B & H** Poz. Mixt

Bulktrk No. Driver Driver **NICK** Gel.

Bulktrk No. Driver Driver Calcium

JOB SERVICES & REMARKS
Hulls

Remarks: Salt **15**

Rat Hole **30** Flowseal

Mouse Hole **LS** Kol-Seal **800#**

Centralizers Mud CLR 48 **500 gal**

Baskets CFL-117 or CD110 OAF 38

D/V or Port Collar **2000** Sand

Pipeset e **3728.84** Handling **203**

Shoe Jt **21.26** Mileage

Insert **3707.58**

FLOAT EQUIPMENT

500 gal MF. Guide Shoe **1 Port Collar**

Cemf w/ 135# Centralizer **7**

Pump plus w/ 88# bbls Baskets **3**

Ldnd plug e AFU Inserts

Float did hold Float Shoe **1**

Pumptrk Charge **prod string**
Mileage **15**
Tax
Discount
Total Charge

X Signature **CAB**

Thanks

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. 3136

Date	9-28-22	Sec.	22	Twp.	11	Range	19	County	Ellis	State	Ks	On Location		Finish	10:15 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	----------

Location *Yocemento 10 N E into*

Lease	<i>M.R. ALLEN</i>	Well No.	<i>18</i>	Owner	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.
Contractor	<i>Discount</i>				
Type Job	<i>SURFACE</i>				
Hole Size	<i>12 1/4</i>	T.D.	<i>221</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>1504 29/20 32</i>

Meas Line		Displace	<i>13.3</i>		
EQUIPMENT					
Pumptrk	<i>17</i>	No.		Common	<i>120</i>
		Cementer	<i>BILL</i>	Poz. Mix	<i>30</i>
		Helper		Gel.	<i>3</i>
Bulktrk		Driver	<i>NICK</i>	Calcium	<i>6</i>
Bulktrk		Driver			

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	
<i>8 5/8 set e 221</i>	Sand	
<i>Cement w/ 1504</i>	Handling	<i>159</i>
<i>pump plug w/ 13 3/8 bbls</i>	Mileage	
<i>Cement did circ.</i>		

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

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. 3291

Date	11-17-02	Sec.	Twp.	Range	County	State	On Location	Finish	
					Location <i>Yocemento 10 N E 14</i>				
Lease	<i>M.R. Allen</i>		Well No.	<i>18</i>					Owner
Contractor	<i>OUTLAW</i>		To Quality Oilwell Cementing, Inc.						
Type Job	<i>PORT COLLAR</i>		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			T.D.	Charge To <i>MUSTANG</i>					
Csg.	<i>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.			Shoe Joint	Cement Amount Ordered <i>4000 @ 2000 @ 500</i>					
Meas Line	Displace		<i>2000 @ 2000 @ 500</i>						
EQUIPMENT				Common					
Pumptrk	<i>17</i>	No.	Cementer	<i>B.H.</i>					
			Helper						
Bulktrk		No.	Driver	<i>3000</i>					Poz. Mix
			Driver						
Bulktrk	<i>19</i>	No.	Driver	<i>BP 1000</i>					Gel.
			Driver						Calcium
JOB SERVICES & REMARKS				Hulls					
Remarks:				Salt					
Rat Hole				Flowseal					
Mouse Hole				Kol-Seal					
Centralizers				Mud CLR 48					
Baskets				CFL-117 or CD110 CAF 38					
D/V or Port Collar				Sand					
				Handling					
				Mileage					
				FLOAT EQUIPMENT					
				Guide Shoe					
				Centralizer					
				Baskets					
				AFU Inserts					
				Float Shoe					
				Latch Down					
				Pumptrk Charge					
				Mileage					
				Tax					
				Discount					
				Total Charge					
X Signature	<i>R.A. R.</i>								



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

M.R. Allen

22-11-19w Ellis,KS

Start Date: 2022.10.02 @ 10:50:00

End Date: 2022.10.02 @ 16:56:30

Job Ticket #: 69861 DST #: 1

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

Printed: 2022.10.06 @ 17:00:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69861

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.10.02 @ 10:50:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:02:15

Time Test Ended: 16:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Terrance

Unit No: 75

Interval: **3574.00 ft (KB) To 3648.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 3648.00 ft (KB) (TVD)

3124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8368**

Inside

Press@RunDepth: 43.61 psig @ 3579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.02 End Date: 2022.10.02

Last Calib.: 2022.10.02

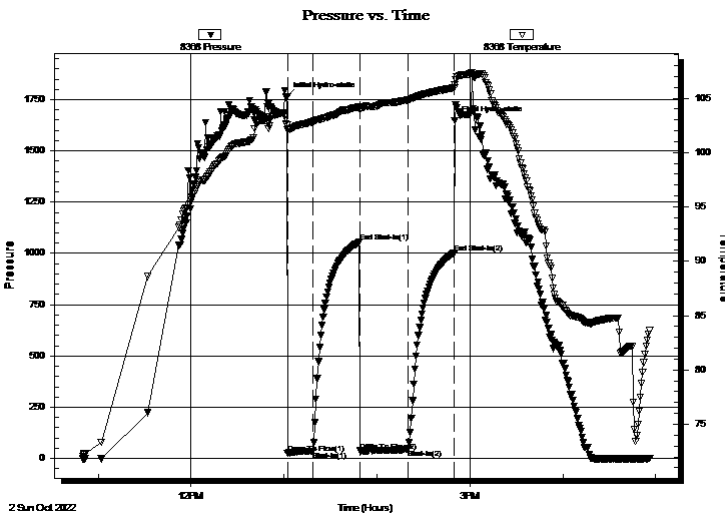
Start Time: 10:50:05 End Time: 16:56:29

Time On Btm: 2022.10.02 @ 13:02:00

Time Off Btm: 2022.10.02 @ 14:50:15

TEST COMMENT: IF-15-1 1/2"
IS-30-No return
FF-30-Surface blow
FS-30-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.16	102.55	Initial Hydro-static
1	25.17	102.06	Open To Flow (1)
17	35.76	102.83	Shut-In(1)
47	1054.59	104.21	End Shut-In(1)
48	36.77	103.96	Open To Flow (2)
78	43.61	104.83	Shut-In(2)
108	1003.78	105.98	End Shut-In(2)
109	1647.31	106.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud	0.43

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69861

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.10.02 @ 10:50:00

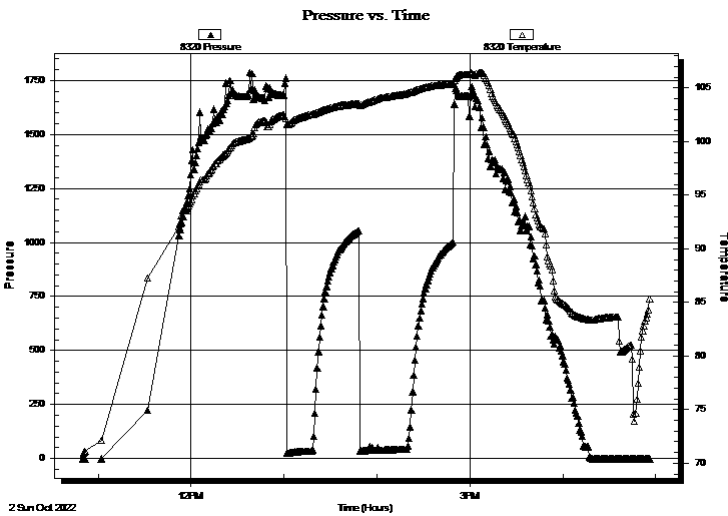
GENERAL INFORMATION:

Formation: Simpson			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 13:02:15		Tester: Terrance	
Time Test Ended: 16:56:30		Unit No: 75	
Interval: 3574.00 ft (KB) To 3648.00 ft (KB) (TVD)		Reference Elevations: 3132.00 ft (KB)	
Total Depth: 3648.00 ft (KB) (TVD)		3124.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

Serial #: 8320 Outside

Press@RunDepth: psig @ 3579.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.10.02	End Date: 2022.10.02
Start Time: 10:50:05	End Time: 16:56:14
	Last Calib.: 1899.12.30
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF-15-1 1/2"
IS-30-No return
FF-30-Surface blow
FS-30-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69861

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.10.02 @ 10:50:00

Tool Information

Drill Pipe:	Length: 3537.00 ft	Diameter: 3.79 inches	Volume: 49.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3574.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3544.00	
Shut In Tool	5.00			3549.00	
Hydraulic tool	5.00			3554.00	
Jars	5.00			3559.00	
EM Tool	3.00			3562.00	
Safety Joint	3.00			3565.00	
Packer	5.00			3570.00	31.00 Bottom Of Top Packer
Packer	4.00			3574.00	
Stubb	1.00			3575.00	
Perforations	4.00			3579.00	
Recorder	0.00	8368	Inside	3579.00	
Recorder	0.00	8320	Outside	3579.00	
Change Over Sub	1.00			3580.00	
Drill Pipe	63.00			3643.00	
Change Over Sub	1.00			3644.00	
Perforations	1.00			3645.00	
Bullnose	3.00			3648.00	74.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69861

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.10.02 @ 10:50:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	mud	0.426

Total Length: 50.00 ft

Total Volume: bbl

Num Fluid Samples: 0

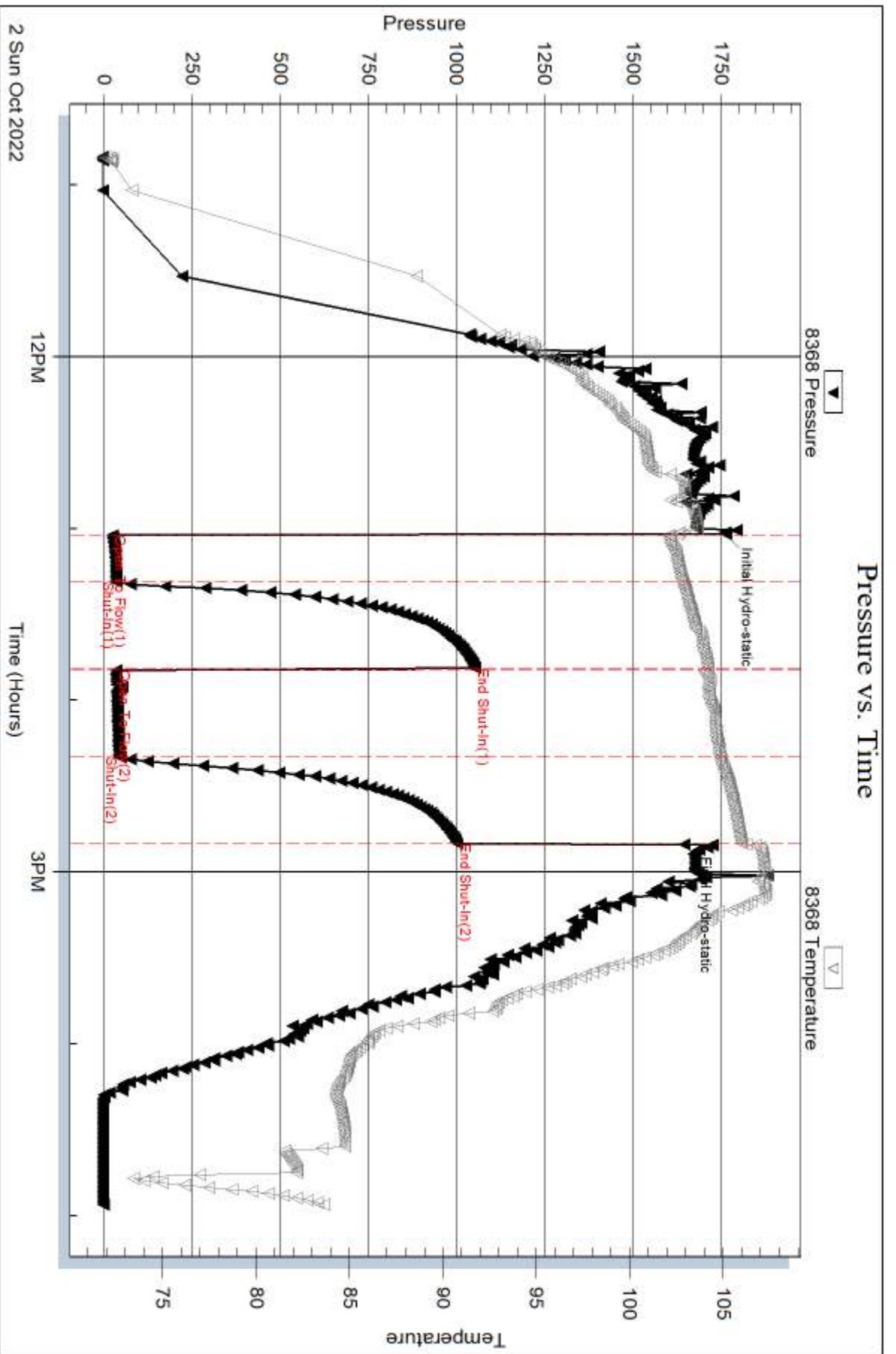
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

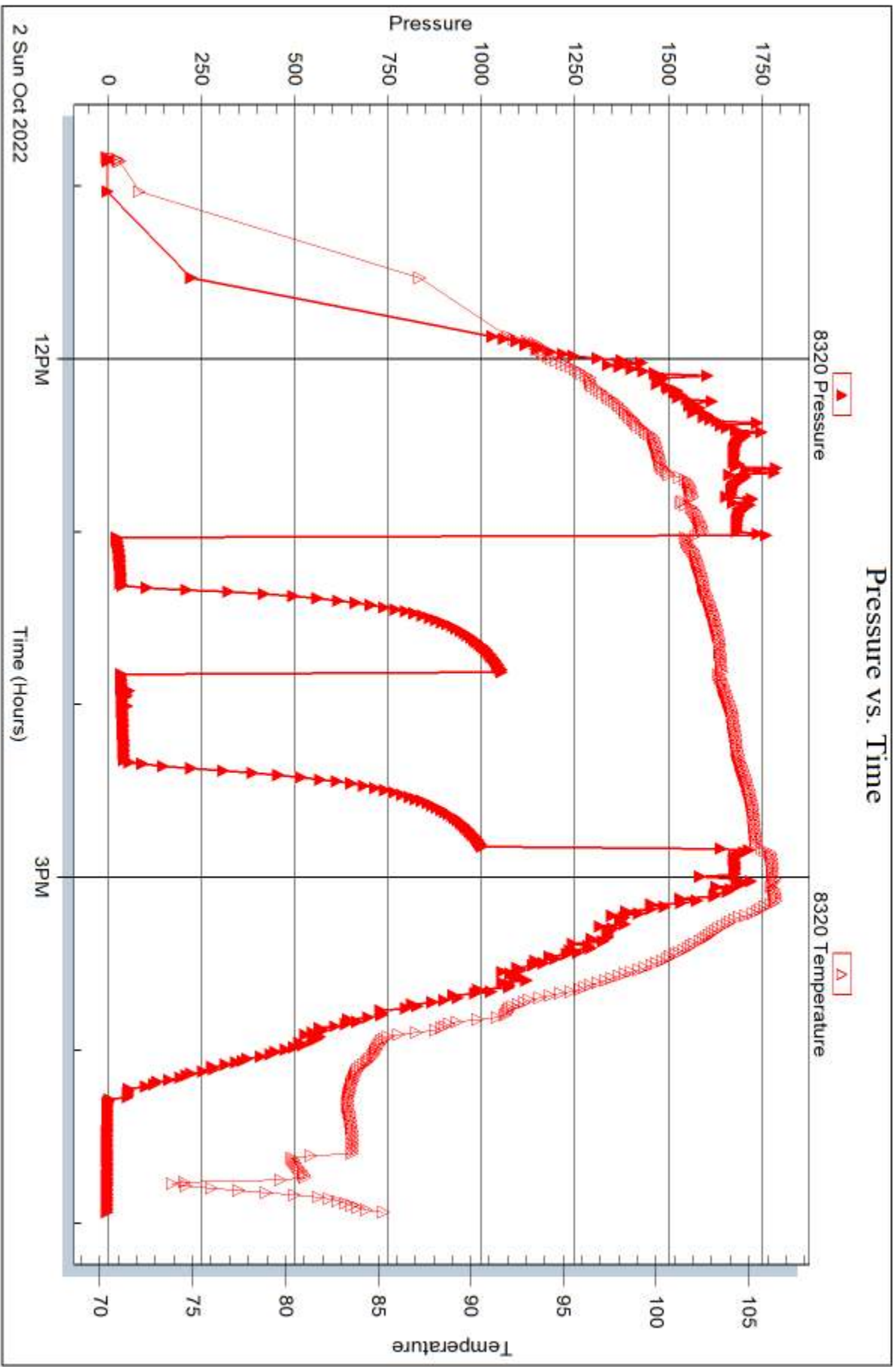


Serial #: 8320

Outside Mustang Energy Corp

M.R. Allen

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69861

Printed: 2022.10.06 @ 17:00:33



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

M.R. Allen

22-11-19w Ellis,KS

Start Date: 2022.10.03 @ 00:40:00

End Date: 2022.10.03 @ 06:58:00

Job Ticket #: 69862 DST #: 2

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

Printed: 2022.10.06 @ 17:00:02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69862

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 00:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:30

Time Test Ended: 06:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: **3574.00 ft (KB) To 3659.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 3659.00 ft (KB) (TVD)

3124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8368**

Inside

Press@RunDepth: 770.18 psig @ 3579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.03

End Date:

2022.10.03

Last Calib.: 2022.10.03

Start Time: 00:40:05

End Time:

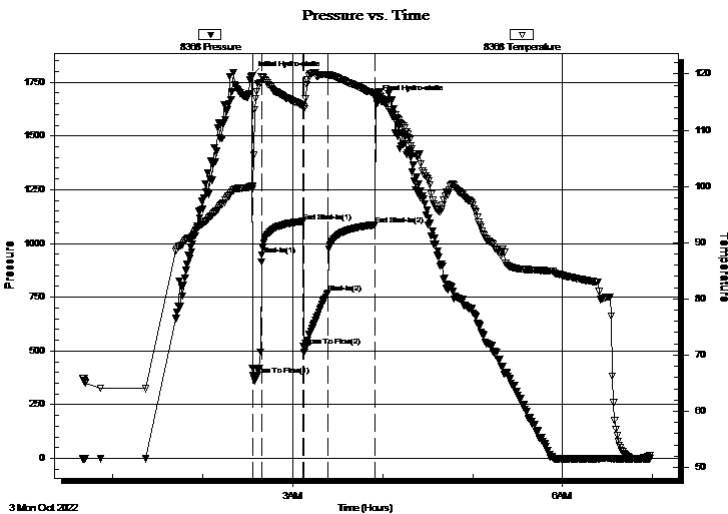
06:57:59

Time On Btm: 2022.10.03 @ 02:33:00

Time Off Btm: 2022.10.03 @ 03:55:45

TEST COMMENT: IF-5- BOB In 2 min
IS-30-No return
FF-15-BOB In 30 seconds
FS-30-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.66	100.10	Initial Hydro-static
1	385.38	100.04	Open To Flow (1)
7	948.03	119.53	Shut-In(1)
34	1102.11	114.44	End Shut-In(1)
35	520.55	114.11	Open To Flow (2)
51	770.18	119.82	Shut-In(2)
82	1086.58	116.48	End Shut-In(2)
83	1669.63	116.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1638.00	90% Water 10% Mud	22.58

* Recovery from multiple tests

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
ATTN: Cameron Brin

22-11-19w Ellis,KS

M.R. Allen

Job Ticket: 69862

DST#: 2

Test Start: 2022.10.03 @ 00:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:30

Time Test Ended: 06:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: 3574.00 ft (KB) To 3659.00 ft (KB) (TVD)

Total Depth: 3659.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3132.00 ft (KB)

3124.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3579.00 ft (KB)

Start Date: 2022.10.03 End Date: 2022.10.03

Start Time: 00:40:05 End Time: 06:57:44

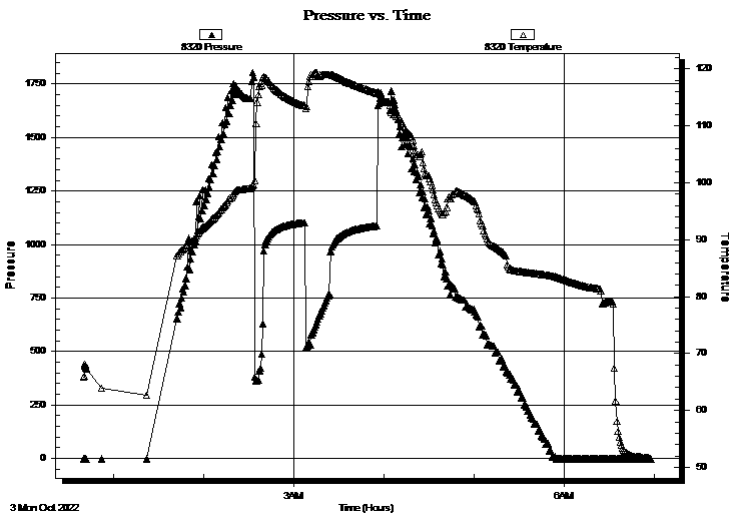
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-5- BOB In 2 min
IS-30-No return
FF-15-BOB In 30 seconds
FS-30-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1638.00	90% Water 10% Mud	22.58

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69862

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 00:40:00

Tool Information

Drill Pipe:	Length: 3538.00 ft	Diameter: 3.79 inches	Volume: 49.37 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3574.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	85.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Safety Joint	3.00			3565.00	
Packer	5.00			3570.00	23.00 Bottom Of Top Packer
Packer	4.00			3574.00	
Stubb	1.00			3575.00	
Perforations	4.00			3579.00	
Recorder	0.00	8368	Inside	3579.00	
Recorder	0.00	8320	Outside	3579.00	
Change Over Sub	1.00			3580.00	
Drill Pipe	63.00			3643.00	
Change Over Sub	1.00			3644.00	
Perforations	12.00			3656.00	
Bullnose	3.00			3659.00	85.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69862

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 00:40:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1638.00	90% Water 10%Mud	22.585

Total Length: 1638.00 ft Total Volume: 22.585 bbl

Num Fluid Samples: 0

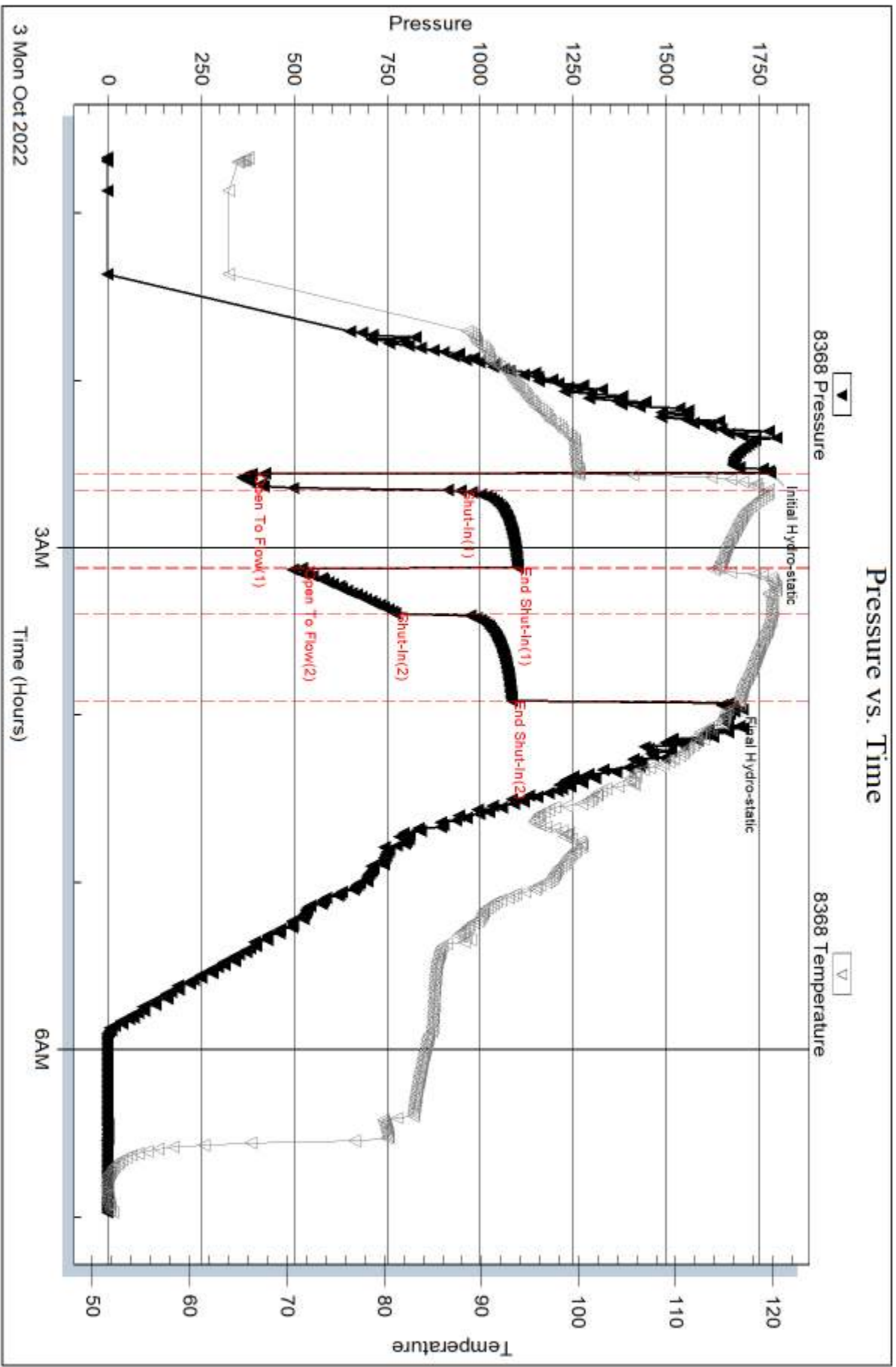
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

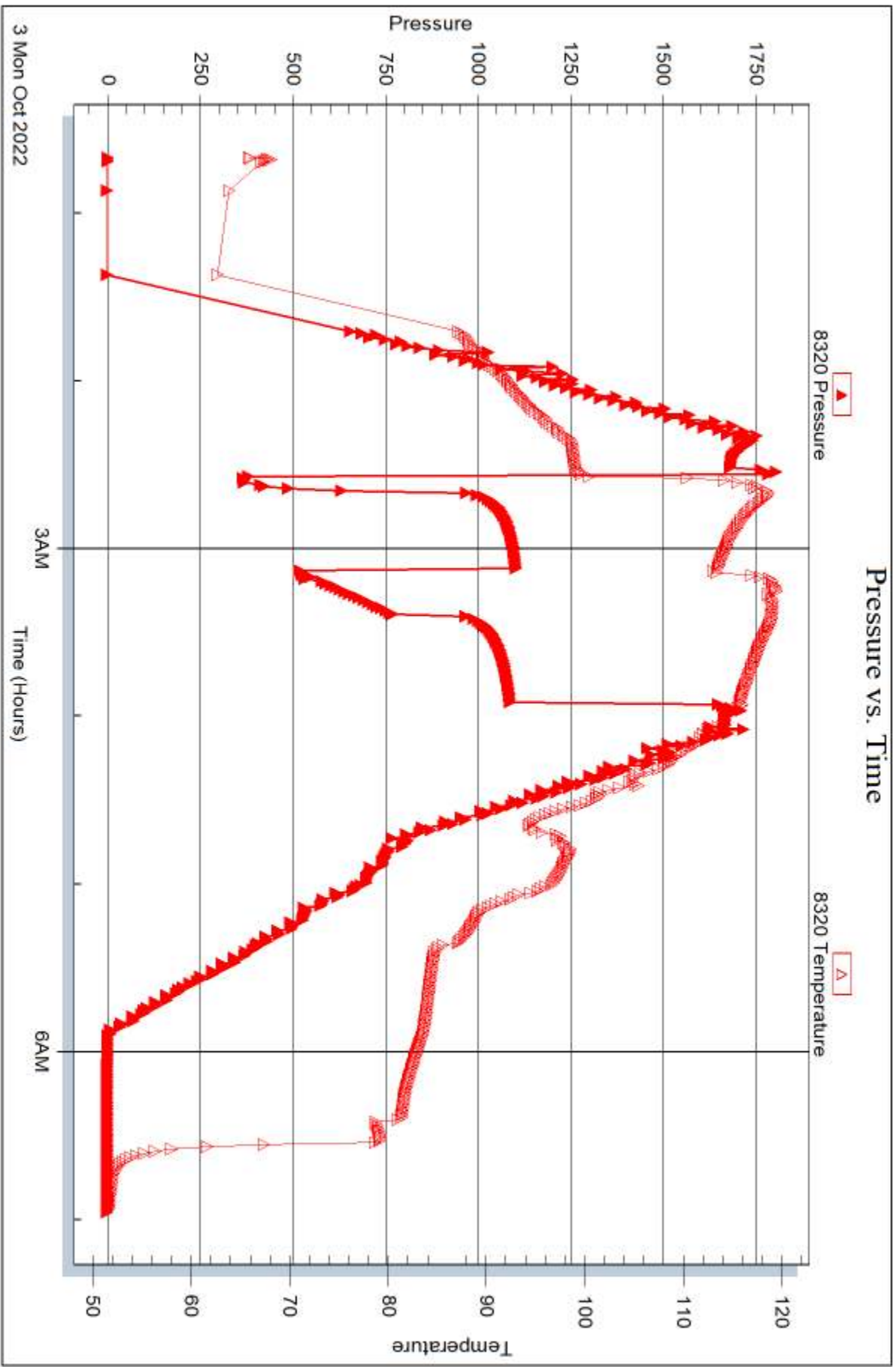


Serial #: 8320

Outside Mustang Energy Corp

M.R. Allen

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69862

Printed: 2022.10.06 @ 17:00:04



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

M.R. Allen

22-11-19w Ellis,KS

Start Date: 2022.10.03 @ 21:25:00

End Date: 2022.10.04 @ 05:57:00

Job Ticket #: 69863 DST #: 3

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

Printed: 2022.10.06 @ 16:59:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69863

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 21:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:50:30

Time Test Ended: 05:57:00

Test Type: Conventional Straddle (Reset)

Tester: Terrance

Unit No: 75

Interval: **3661.00 ft (KB) To 3677.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

3124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8957

Press@RunDepth: 608.80 psig @ 3662.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.03

End Date:

2022.10.04

Last Calib.: 2022.10.04

Start Time: 21:25:01

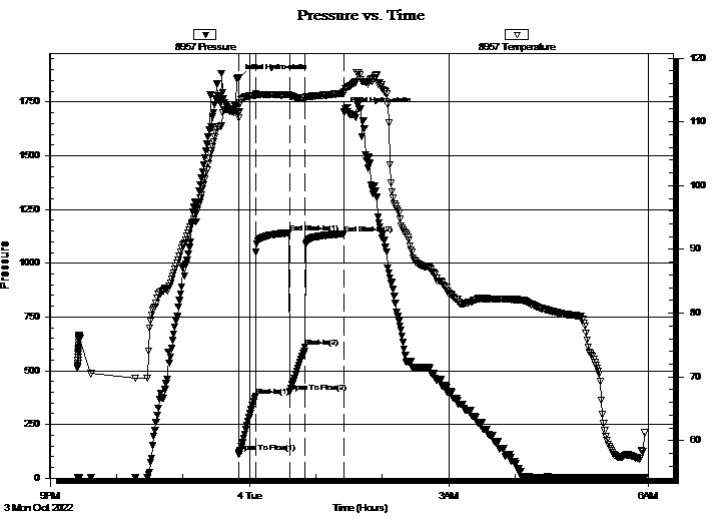
End Time:

05:57:00

Time On Btm: 2022.10.03 @ 23:50:15

Time Off Btm: 2022.10.04 @ 01:25:45

TEST COMMENT: IF-15- BOB In 7 min
IS-30- No return
FF-15-BOB In 4 min
FS-30- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.95	111.33	Initial Hydro-static
1	118.66	110.58	Open To Flow (1)
16	382.66	114.10	Shut-In(1)
46	1140.63	114.24	End Shut-In(1)
47	400.08	114.06	Open To Flow (2)
60	608.80	113.76	Shut-In(2)
96	1137.25	114.50	End Shut-In(2)
96	1703.02	114.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1320.00	92% Water 6%Oil 2%Mud	18.15

* 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

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69863

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 21:25:00

Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.79 inches	Volume: 50.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3661.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3730.00 ft			
Interval between Packers:	69.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	3	Diameter: 6.88 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3636.00	
Shut In Tool	5.00			3641.00	
Hydraulic tool	5.00			3646.00	
EM Tool	3.00			3649.00	
Safety Joint	3.00			3652.00	
Packer	5.00			3657.00	26.00 Bottom Of Top Packer
Packer	4.00			3661.00	
Stubb	1.00			3662.00	
Recorder	0.00	8368	Inside	3662.00	
Recorder	0.00	8320	Outside	3662.00	
Perforations	10.00			3672.00	
Blank Off Sub	1.00			3673.00	
Packer - Shale	4.00			3677.00	
Stubb	1.00			3678.00	
Change Over Sub	1.00			3679.00	
Drill Pipe	32.00			3711.00	
Change Over Sub	1.00			3712.00	
Perforations	15.00			3727.00	
Bullnose	3.00			3730.00	69.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69863

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.10.03 @ 21:25:00

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:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1320.00	92% Water 6%Oil 2%Mud	18.148

Total Length: 1320.00 ft Total Volume: 18.148 bbl

Num Fluid Samples: 0

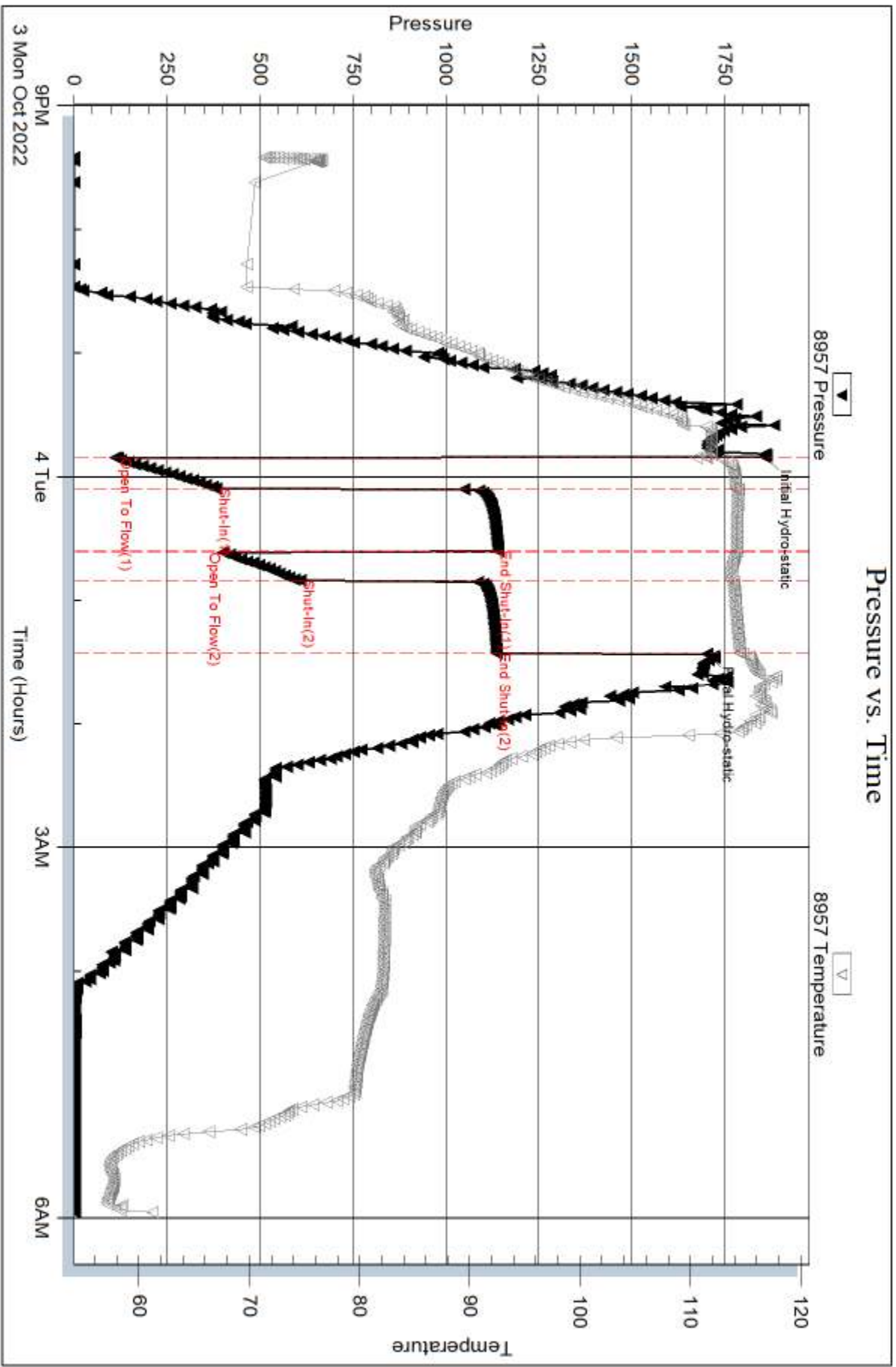
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



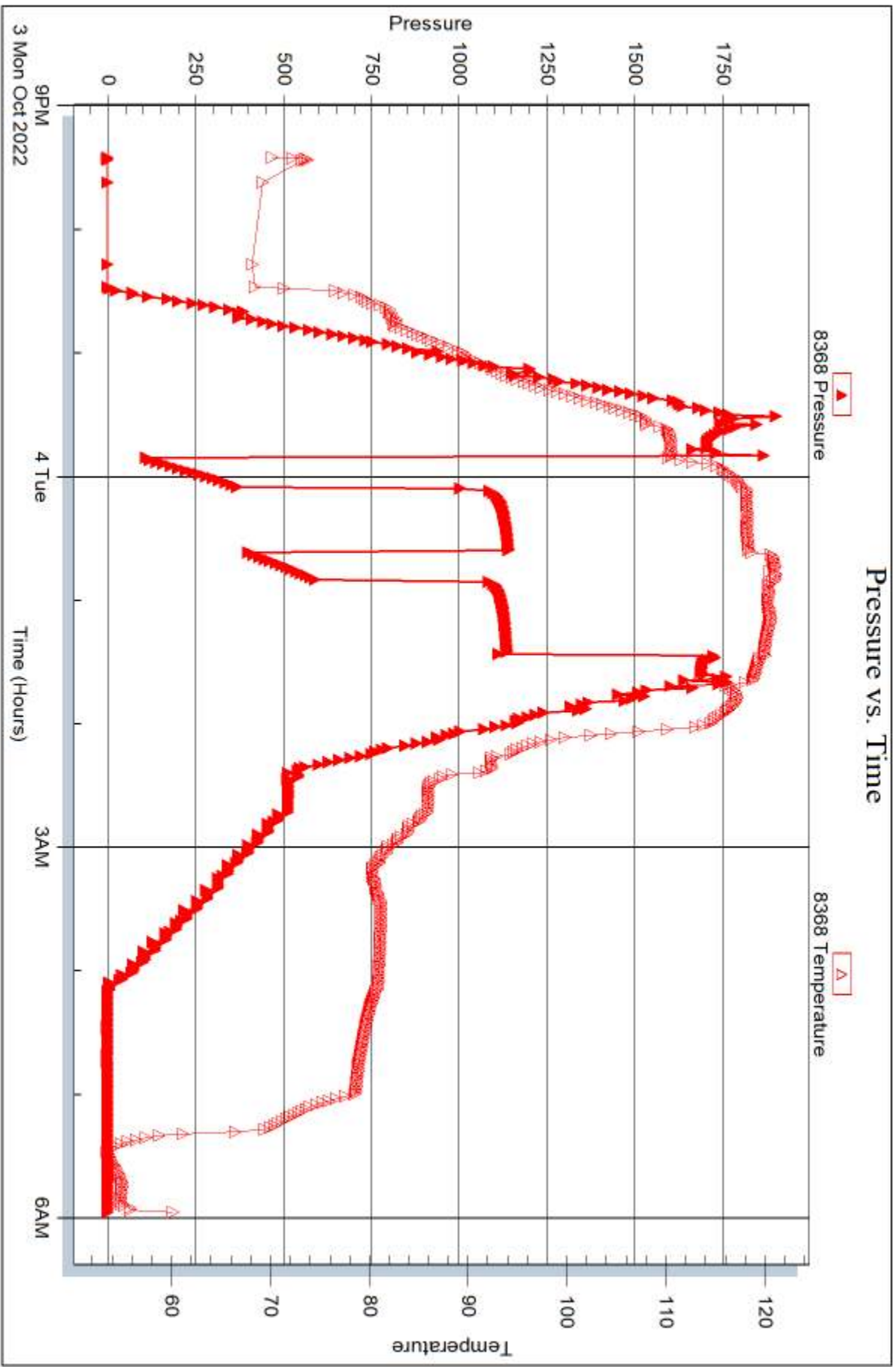
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Inside

Mustang Energy Corp

M.R. Allen

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69863

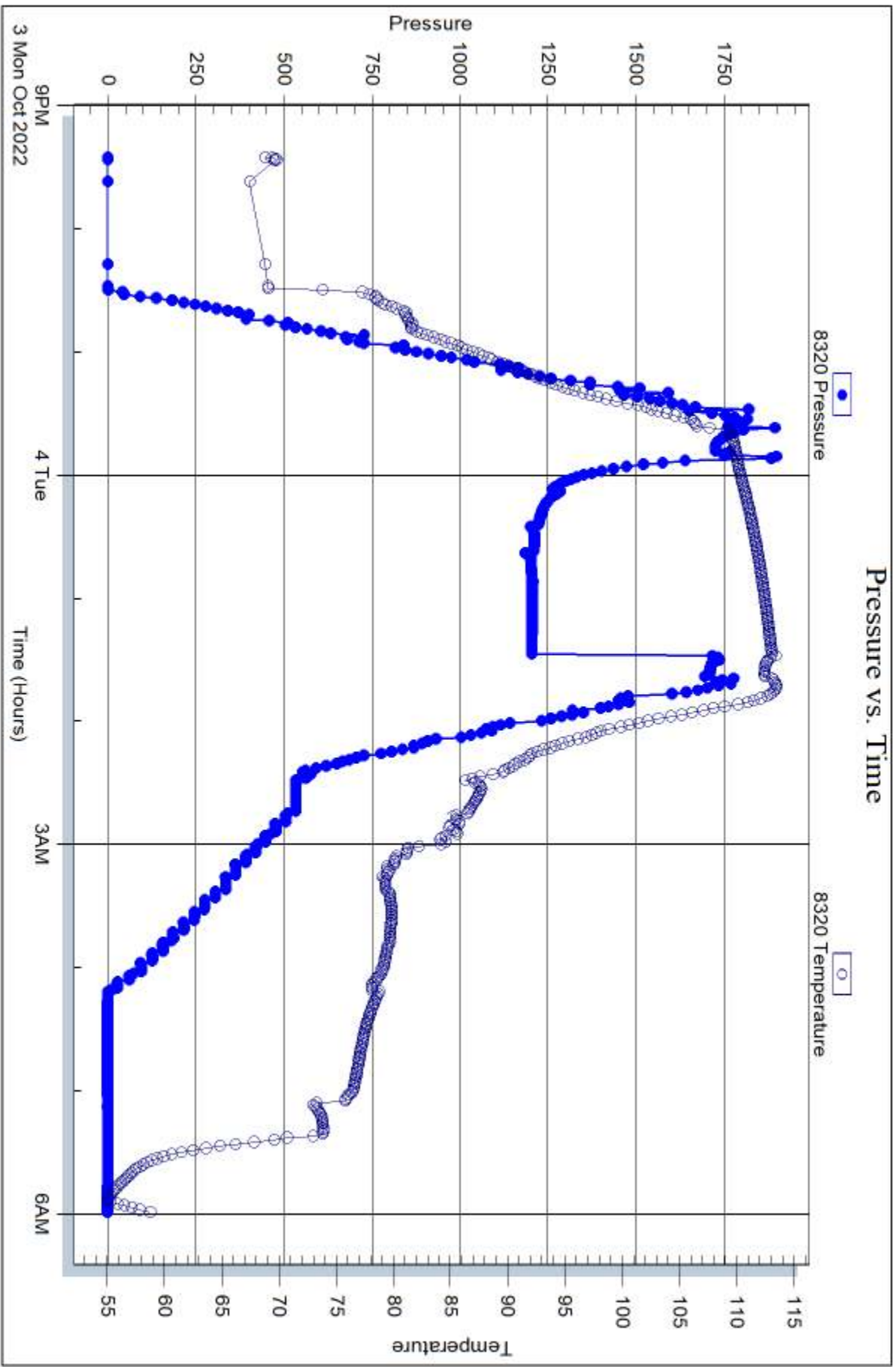
Printed: 2022.10.06 @ 16:59:27

Serial #: 8320

Outside Mustang Energy Corp

M.R. Allen

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 69863

Printed: 2022.10.06 @ 16:59:28



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

M.R. Allen

22-11-19w Ellis,KS

Start Date: 2022.10.04 @ 09:25:00

End Date: 2022.10.04 @ 16:06:00

Job Ticket #: 69864 DST #: 4

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

Printed: 2022.10.06 @ 16:58:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69864

DST#: 4

ATTN: Cameron Brin

Test Start: 2022.10.04 @ 09:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:30

Time Test Ended: 16:06:00

Test Type: Conventional Straddle (Reset)

Tester: Terrance

Unit No: 75

Interval: **3677.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

3124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8368**

Inside

Press@RunDepth: 310.02 psig @ 3678.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.04

End Date:

2022.10.04

Last Calib.: 2022.10.04

Start Time: 09:25:05

End Time:

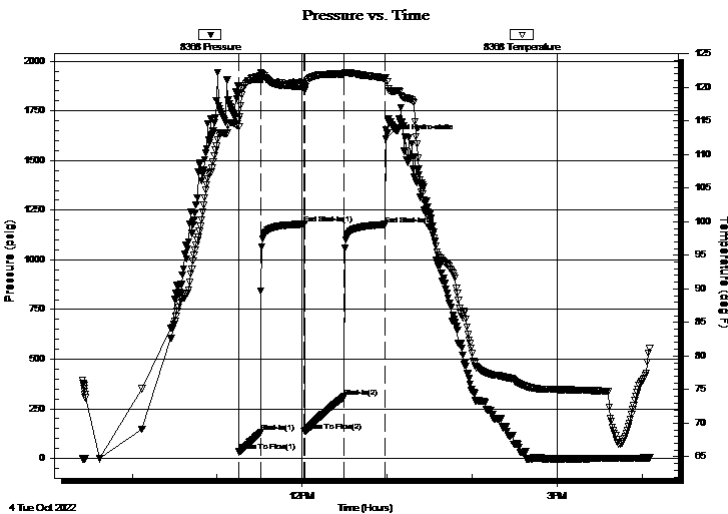
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Time On Btm: 2022.10.04 @ 11:15:15

Time Off Btm: 2022.10.04 @ 12:59:15

TEST COMMENT: IF-15-BOB In 4 min
IS-30-No return
FF-30-BOB In 14 min
FS-30-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.39	115.21	Initial Hydro-static
1	35.56	114.17	Open To Flow (1)
16	131.10	121.71	Shut-In(1)
47	1179.98	120.10	End Shut-In(1)
47	138.49	119.56	Open To Flow (2)
75	310.02	121.99	Shut-In(2)
104	1177.97	121.35	End Shut-In(2)
104	1609.25	121.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
690.00	25%Oil 75%Water	9.36

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69864

DST#: 4

ATTN: Cameron Brin

Test Start: 2022.10.04 @ 09:25:00

Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.79 inches	Volume: 50.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 5000.00 lb
Depth to Top Packer:	3677.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	3730.00 ft			
Interval between Packers:	53.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	3	Diameter: 6.88 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3647.00	
Shut In Tool	5.00			3652.00	
Hydraulic tool	5.00			3657.00	
Jars	5.00			3662.00	
EM Tool	3.00			3665.00	
Safety Joint	3.00			3668.00	
Packer	5.00			3673.00	31.00 Bottom Of Top Packer
Packer	4.00			3677.00	
Stubb	1.00			3678.00	
Recorder	0.00	8368	Inside	3678.00	
Recorder	0.00	8957	Outside	3678.00	
Perforations	7.00			3685.00	
Blank Off Sub	1.00			3686.00	
Packer - Shale	4.00			3690.00	
Stubb	1.00			3691.00	
Change Over Sub	1.00			3692.00	
Recorder	0.00	8320	Below	3692.00	
Drill Pipe	32.00			3724.00	
Change Over Sub	1.00			3725.00	
Perforations	2.00			3727.00	
Bullnose	3.00			3730.00	53.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

M.R. Allen

Job Ticket: 69864

DST#: 4

ATTN: Cameron Brin

Test Start: 2022.10.04 @ 09:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
690.00	25%Oil 75%Water	9.357

Total Length: 690.00 ft Total Volume: 9.357 bbl

Num Fluid Samples: 0

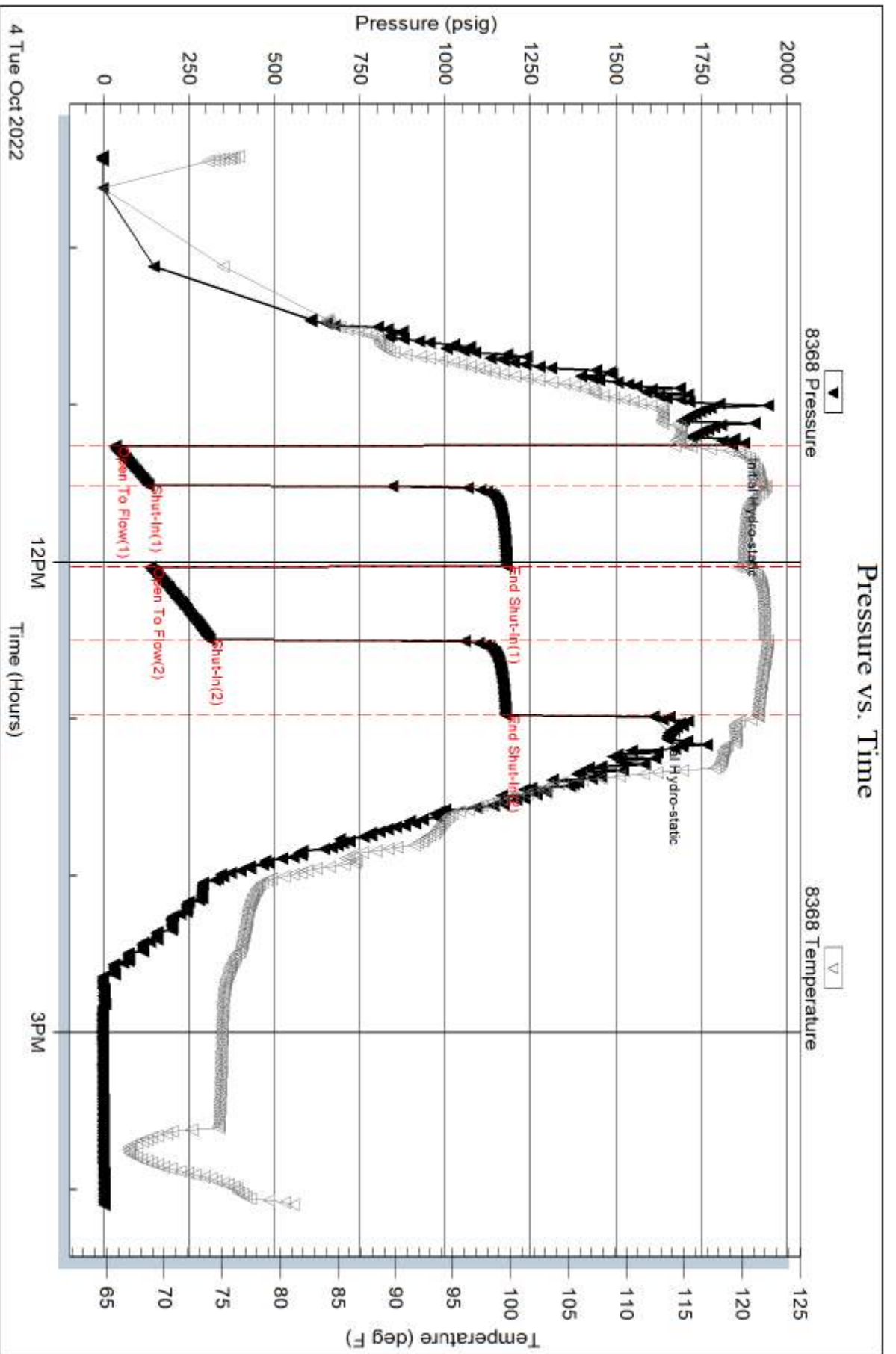
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

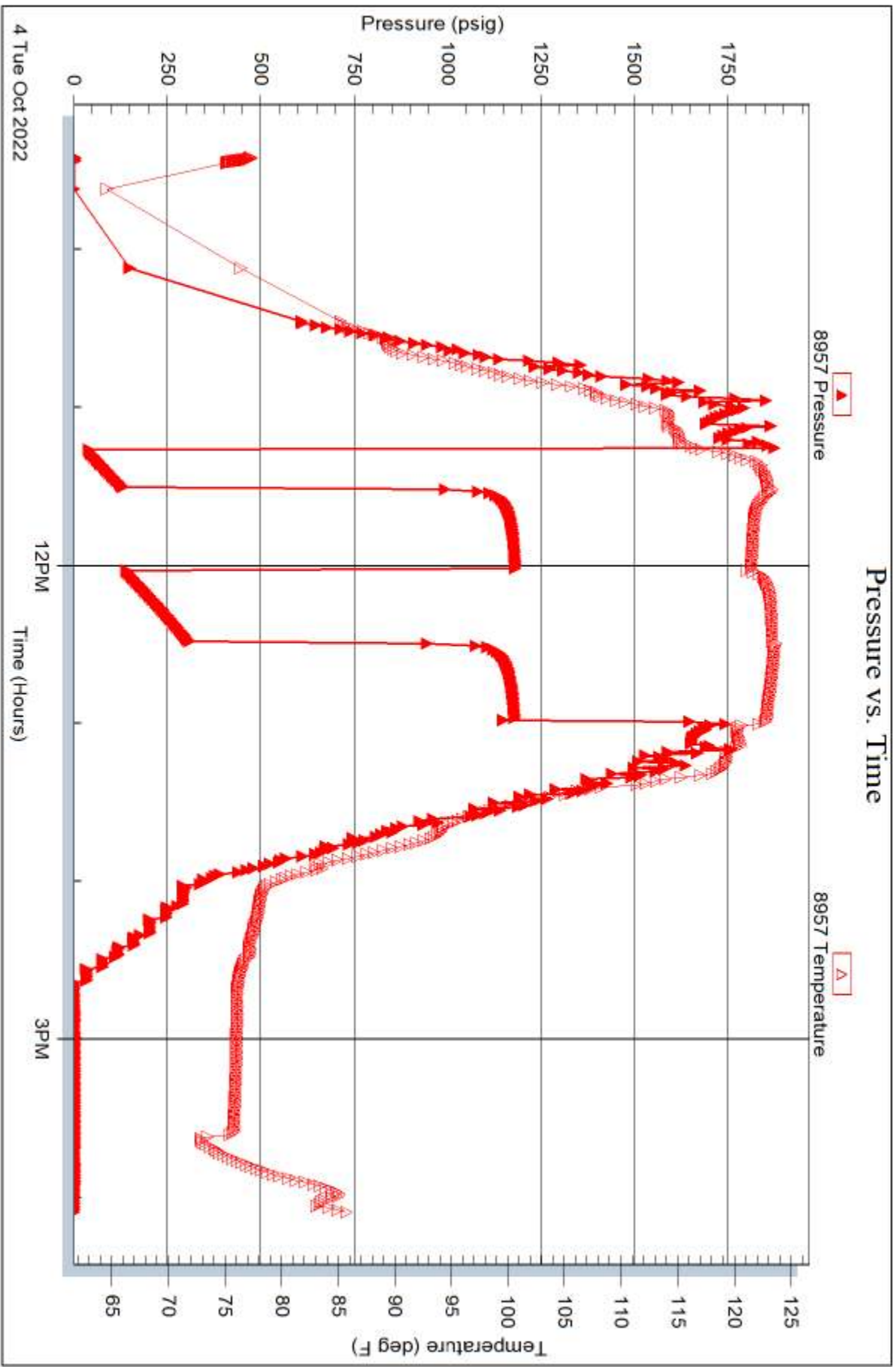


Serial #: 8957

Outside Mustang Energy Corp

M.R. Allen

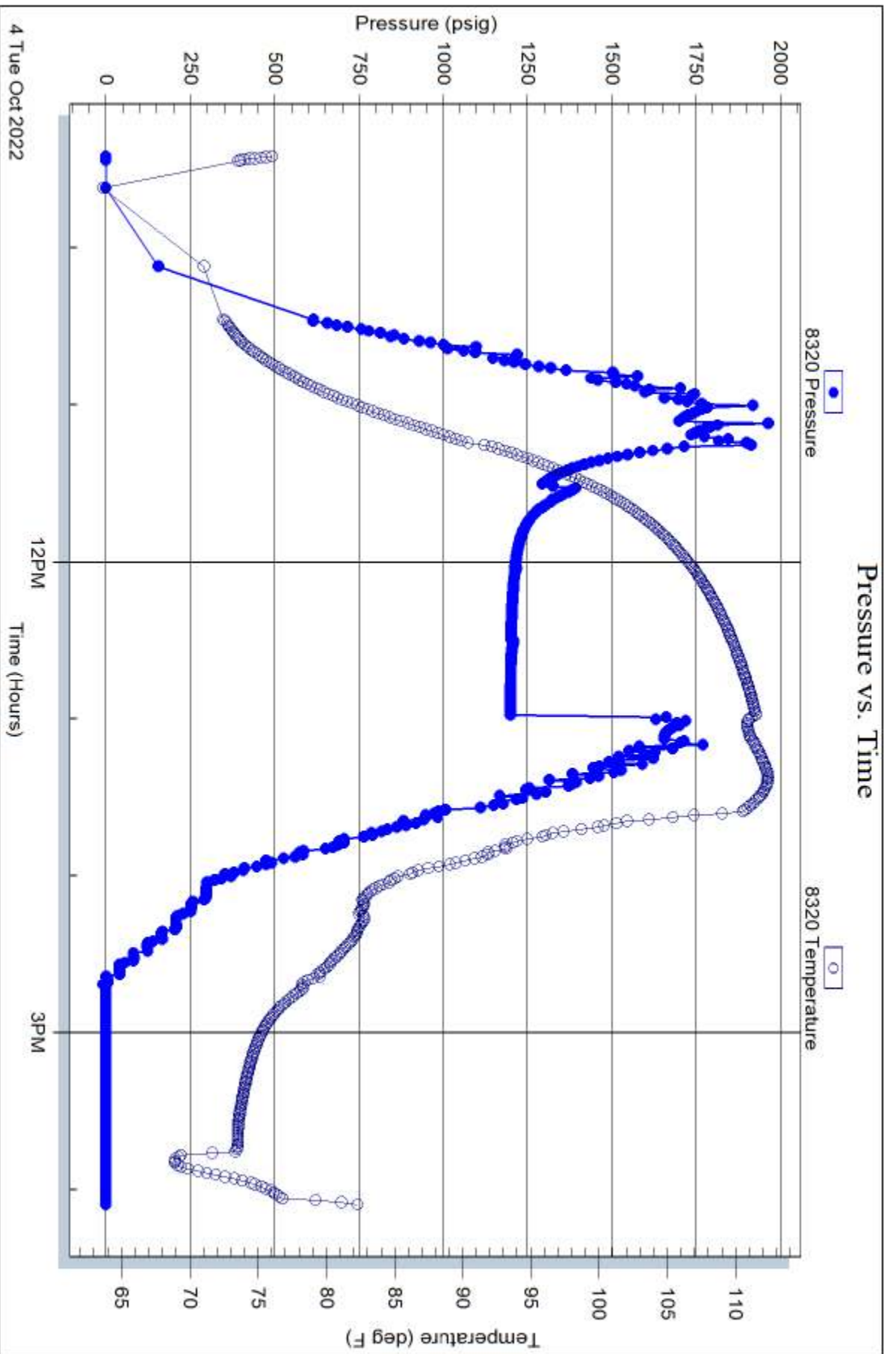
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 69864

Printed: 2022.10.06 @ 16:58:56





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69861**

Well Name & No. M.R. Allen #18 Test No. 1 Date 10-2-22
 Company Mustang Energy Corp Elevation 2132 KB 2124 GL
 Address P.O. Box 1121
 Co. Rep / Geo. Cameron Brin Rig Discovery 2
 Location: Sec. 22 Twp 11S Rge. 19W Co. Ellis State KS

Interval Tested 3574-3648 Zone Tested Simpson
 Anchor Length 74 Drill Pipe Run 3537 Mud Wt. 8.8
 Top Packer Depth 3569 Drill Collars Run 30 Vis 45
 Bottom Packer Depth 3574 Wt. Pipe Run _____ WL 7.2
 Total Depth 3648 Chlorides 3000 ppm System LCM 1H

Blow Description RF-15 - 1 1/2 inch
ISI-30 - No Return
FS-30 - Surface blow
FSTI-30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1764 Test 1800 T-On Location 7:30
 (B) First Initial Flow 25 Jars _____ T-Started 10:50
 (C) First Final Flow 36 Safety Joint _____ T-Open 1:05
 (D) Initial Shut-In 1055 Circ Sub _____ T-Pulled 14:50
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 17:00
 (F) Second Final Flow 44 Mileage 22x2 ⁶⁶ Comments _____
 (G) Final Shut-In 1004 Sampler _____
 (H) Final Hydrostatic 1647 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Extra Copies _____
 Day Standby _____
 Accessibility _____
 Sub Total 1866 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative Terrence Wickham

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. 69862

Well Name & No. M.R. Allen Test No. 2 Date 10-3-27
 Company Mustang Energy Corp Elevation 2132 KB 2124 GL
 Address P.O. Box 1121 Hays, KS 67601
 Co. Rep / Geo. Cameron Brin Rig Discovery 2
 Location: Sec. 22 Twp 11s Rge. 19w Co. Ellis State KS

Interval Tested 3574-3659 Zone Tested Arkuslo
 Anchor Length 85 Drill Pipe Run 3538 Mud Wt. 9.1
 Top Packer Depth 3569 Drill Collars Run 30 Vls 60
 Bottom Packer Depth 3574 Wt. Pipe Run 3000 WL 8.0
 Total Depth 3659 Chlorides _____ ppm System LCM 14

Blow Description FF - 5 - BOB in 2 min
FSI - 30 - No Return
FF - 15 - BOB in 30 seconds
FSI - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1634</u>	<u>05MW</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1638 BHT 115 Gravity _____ API RW 1 @ 90 ° F Chlorides 60,000 ppm
 (A) Initial Hydrostatic 1781 Test _____ T-On Location 12:00 AM
 (B) First Initial Flow 345 Jars _____ T-Started 12:40
 (C) First Final Flow 948 Safety Joint _____ T-Open 2:35
 (D) Initial Shut-In 1102 Circ Sub _____ T-Pulled 355
 (E) Second Initial Flow 520 Hourly Standby _____ T-Out 7:00
 (F) Second Final Flow 170 Mileage 22x2 ⁶⁶ Comments _____
 (G) Final Shut-In 1086 Sampler _____
 (H) Final Hydrostatic 1669 Straddle _____ EM Tool -175

Initial Open 5 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total -175
 Sub Total 1866 Accessibility _____ Total 1691
 MP/DST Disc't _____

Approved By _____ Our Representative Terrance Wicklan

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. 69863

Well Name & No. MR Allen Test No. 3 Date 10-4-22
 Company Mustang Energy Corp Elevation 2132 KB 2124 GL
 Address P.O. Box 1121 Hays, KS 67601
 Co. Rep / Geo. Cameron Brin Rig Discovery 2
 Location: Sec. 32 Twp 11s Rge. 19w Co. Ellis State KS

Interval Tested 3661-3677 Zone Tested Arbuckle
 Anchor Length 14 53 Tail Drill Pipe Run 3633 Mud Wt. _____
 Top Packer Depth 3656 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 3661 Wt. Pipe Run _____ WL _____
 Total Depth 3730 Chlorides _____ ppm System LCM _____
 Blow Description FF - 15 - BOB 7min
ISI - 30 - No Return
FF - 15 - BOB 4min
FSI - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1320</u>	<u>OLW</u>	<u>6</u>	<u>92</u>	<u>2</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 _____ BHT 114 Gravity _____ API RW 1 @ 90° F Chlorides 60,000 ppm
 (A) Initial Hydrostatic 1858 Test 1800 T-On Location 18:30
 (B) First Initial Flow 119 Jars _____ T-Started 21:25
 (C) First Final Flow 363 Safety Joint _____ T-Open 18:54 23:54
 (D) Initial Shut-In 114 Circ Sub _____ T-Pulled 1:25
 (E) Second Initial Flow 400 Hourly Standby _____ T-Out 6:00
 (F) Second Final Flow 609 Mileage 22 x 2 66 Comments _____
 (G) Final Shut-In 1137 Sampler _____
 (H) Final Hydrostatic 1703 Straddle 600 EM Tool -175
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 15 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 2541
 Final Flow 15 Sub Total 2716 MP/DST Disc't _____
 Final Shut-In 30

Approved By _____ Our Representative Terrance Witz Khan

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. 69864

Well Name & No. M R Allen #158 Test No. 4 Date 10-4-22
 Company Mustang Energy Corp Elevation 2132 KB 2124 GL
 Address P.O. Box 1121 Hays, KS 67601
 Co. Rep / Geo. Cameron Brin Rig Discovery 2
 Location: Sec. 32 Twp 11S Rge. 19W Co. Ellis State KS

Interval Tested 3677 - 3690 Zone Tested Arbuckle
 Anchor Length 13 Drill Pipe Run 3633 Mud Wt. 9.1
 Top Packer Depth 3672 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3677 Wt. Pipe Run _____ WL 8.0
 Total Depth 3730 Chlorides 3000 ppm System LCM 1#

Blow Description IS-15 - Bob in 4 min
ISI-30 - No Return
FS-30 - Bob in 4 min
FSI-30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>690</u>	<u>OCW</u>	<u>25</u>	<u>75</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 690 BHT 21 Gravity 14 API RW .1 @ 80° F Chlorides 60,000 ppm
 (A) Initial Hydrostatic 1439 Test 1800 T-On Location 7:00 AM
 (B) First Initial Flow 36 Jars _____ T-Started 9:25
 (C) First Final Flow 131 Safety Joint _____ T-Open 11:18
 (D) Initial Shut-In 1180 Circ Sub _____ T-Pulled 12:02
 (E) Second Initial Flow 138 Hourly Standby _____ T-Out 3:15
 (F) Second Final Flow 310 Mileage 22x2 ⁶⁶ Comments _____
 (G) Final Shut-In 1177 Sampler _____
 (H) Final Hydrostatic 1609 Straddle 600 EM Tool -350
 Shale Packer 250 Ruined Shale Packer _____

Initial Open 15 Extra Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Recorder _____ Extra Copies _____
 Final Flow 30 Day Standby _____ Sub Total -350
 Final Shut-In 30 Accessibility _____ Total 2366
 Sub Total 2716 MP/DST Disc't _____

Approved By _____ Our Representative Terrance Wickham

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.



MUSTANG

ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: M.R. ALLEN #18
Surface Location: SW,SE,SW, Sec. 22, T11S, R19W
Bottom Location:
API: 15-051-27055
License Number: 33922
Spud Date: 9/28/2022 Time: 4:30 PM
Region: ELLIS COUNTY
Drilling Completed: 10/3/2022 Time: 1:00 PM
Surface Coordinates: 330' FSL & 1650' FWL
Bottom Hole Coordinates:
Ground Elevation: 2124.00ft
K.B. Elevation: 2132.00ft
Logged Interval: 3000.00ft To: 3730.00ft
Total Depth: 3730.00ft
Formation: ARBUCKLE
Drilling Fluid Type: CHEMICAL MUD

OPERATOR

Company: MUSTANG ENERGY CORPORATION
Address: PO BOX 1121

Contact Geologist: ROD BRIN
Contact Phone Nbr: 785-623-0533
Well Name: M.R. ALLEN #18
Location: SW,SE,SW, Sec. 22, T11S, R19W
API: 15-051-27055
Pool: Field: SOLOMON
State: KS Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.420178
Latitude: 39.074827
N/S Co-ord: 330' FSL
E/W Co-ord: 1650' FWL

LOGGED BY

Company:
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: 9/28/2022 Time: 4:30 PM
TD Date: 10/3/2022 Time: 1:00 PM

ELEVATIONS

K.B. Elevation: 2132.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 2124.00ft

NOTES

DUE TO POSITIVE RESULTS ON DST #4, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FUTHER EVALUATE THE M.R. ALLEN #18 WELL.

TOPS COMPARISON

FORMATION	MR ALLEN #18				SE, SW, SW, Sec 22-11-19				SW, NE, NE, NW Sec 27-11-19				NE, NW, NW, Sec. 27-11-19				C, SE, SE, SW, Sec. 22-11-19													
	P&A 6/01/1992		MR ALLEN #2		VINE #10		VINE A #4		P&A 5/1/53																					
	MR ALLEN #2		SKELLY OIL		MAI OIL		SKELLY OIL CO		MR ALLEN #1																					
	KB	2132	GL	2124	KB	2108	KB	2134	RB	2116	KB	2109																		
LOG TOPS	DEPTH	DATUM	SAMPLE TOPS	LOG	DEPTH	DATUM	LOG	SMPL.	COMP. CARD	LOG	SMPL.	COMP. CARD	LOG	SMPL.	COMP. CARD	LOG	SMPL.													
ANHYDRITE TOP	1415	717	1414	718	1395	713	+	4	+	5	1411	723	-	6	-	5	1399	717	+	0	+	1	1395	714	+	3	+	4		
BASE	1461	671	1460	672								1459	675	-	4	-	3													
TOPEKA	3090	-958	3089	-957								3083	-949	-	9	-	8						3070	-961	+	3	+	4		
HEEBNER SHALE	3314	-1182	3315	-1183	3296	-1188	+	6	+	5	3311	-1177	-	5	-	6	3304	-1188	+	6	+	5	3290	-1181	-	1	-	2		
TORONTO	3330	-1198	3333	-1201								3328	-1194	-	4	-	7						3313	-1204	+	6	+	3		
LKC	3355	-1223	3356	-1224	3334	-1226	+	3	+	2	3351	-1217	-	6	-	7	3343	-1227	+	4	+	3	3334	-1225	+	2	+	1		
BKC	3578	-1446	3578	-1446								3573	-1439	-	7	-	7						3555	-1446	+	0	+	0		
CONGLOMERATE	3591	-1459	3596	-1464	3578	-1470	+	11	+	6	3583	-1449	-	10	-	15	3591	-1475	+	16	+	11	3580	-1471	+	12	+	7		
ARBUCKLE	3648	-1516	3650	-1518	3628	-1520	+	4	+	2	3637	-1503	-	13	-	15	3625	-1509	-	7	-	9	3637	-1528	+	12	+	10		
TOTAL DEPTH	3730	-1598	3730	-1598	3639	-1531	-	67	-	67	3692	-1558	-	40	-	40	3630	-1514	-	84	-	84	3643	-1534	-	64	-	64		

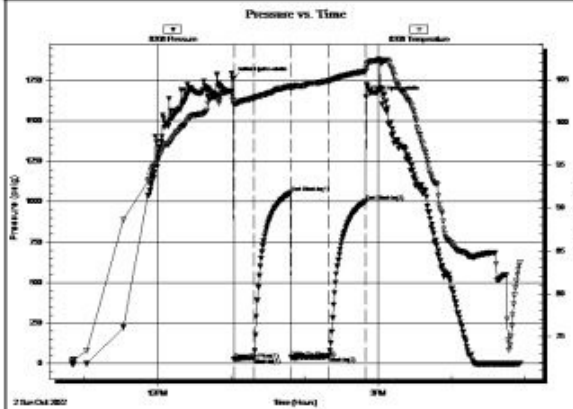
ANHYDRITE



DST #13574'-3648' (SIMPSON SAND)

	<p>DRILL STEM TEST REPORT</p>	
	<p>Mustang Energy Corp P.O. BOX 1121 Hays, KS 67601 ATTN: Cameron Brin</p>	<p>22-11-19w M.R. Allen Job Ticket: 69861 Test Start: 2022.10.02 @ 10:50:00</p>
<p>GENERAL INFORMATION:</p>		
<p>Formation: Simpson Deviated: No Whipstock: ft (KB) Time Tool Opened: 13:02:15 Time Test Ended: 16:56:30</p>	<p>Test Type: Conventional Bottom Hole (Initial) Tester: Terrance Unit No: 75</p>	
<p>Interval: 3574.00 ft (KB) To 3648.00 ft (KB) (TVD) Total Depth: 3648.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair</p>	<p>Reference Elevations: 3132.00 ft (KB) 3124.00 ft (CF) KB to GR/CF: 8.00 ft</p>	
<p>Serial #: 8368 Inside Press@RunDepth: 43.61 psig @ 3579.00 ft (KB) Start Date: 2022.10.02 Start Time: 10:50:05</p>	<p>Capacity: 8000.00 psig Last Calib.: 2022.10.02 Time On Btm: 2022.10.02 @ 13:02:00 Time Off Btm: 2022.10.02 @ 14:50:15</p>	
<p>TEST COMMENT: F-15-1 1/2</p>		

ISI-30-No return
 FF-30-Surface blow
 FSI-30-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.16	102.55	Initial Hydro-static
1	25.17	102.06	Open To Flow (1)
17	35.76	102.83	Shut-h(1)
47	1054.59	104.21	End Shut-h(1)
48	36.77	103.96	Open To Flow (2)
78	43.61	104.83	Shut-h(2)
108	1003.78	105.98	End Shut-h(2)
109	1647.31	106.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud	0.43

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 69861

Printed: 2022.10.02 @ 19:33:33

DST #2 3574'-3659' (ARBUCKLE)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp **22-11-19w**

P.O. BOX 1121 **M.R. Allen**
 Hays, KS 67601

Job Ticket: 69862 **DST#: 2**

ATTN: Cameron Brin Test Start: 2022.10.03 @ 00:40:00

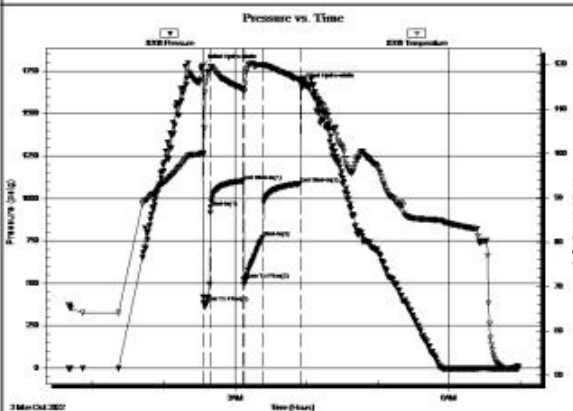
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:33:30 Tester: Terrance
 Time Test Ended: 06:58:00 Unit No: 75

Interval: **3574.00 ft (KB) To 3659.00 ft (KB) (TVD)**
 Reference Elevations: 3132.00 ft (KB)
 Total Depth: 3659.00 ft (KB) (TVD) 3124.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

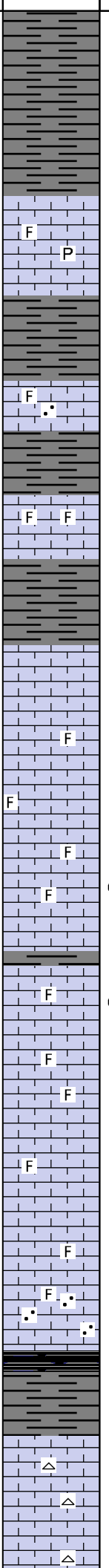
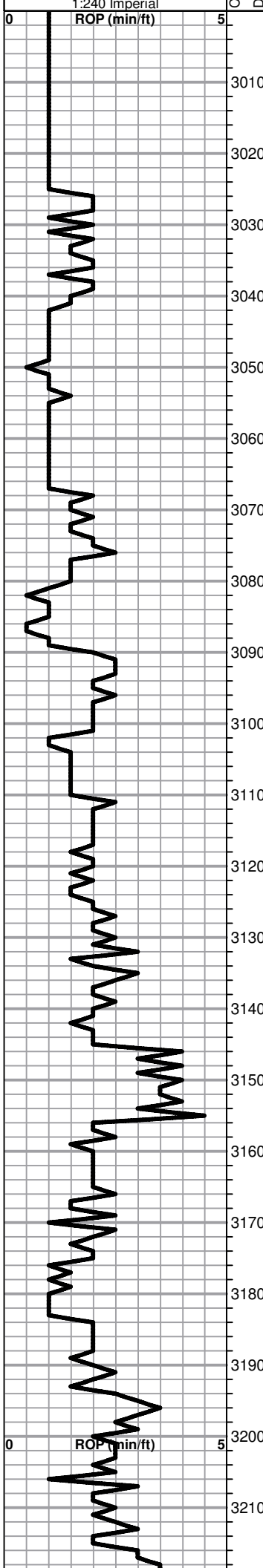
Serial #: 8368 Inside
 Press@RunDepth: 770.18 psig @ 3579.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.10.03 End Date: 2022.10.03 Last Calib.: 2022.10.03
 Start Time: 00:40:05 End Time: 06:57:59 Time On Btm: 2022.10.03 @ 02:33:00
 Time Off Btm: 2022.10.03 @ 03:55:45

TEST COMMENT: F-5- BOB In 2 min
 ISI-30-No return
 FF-15-BOB In 30 seconds
 FSI-30-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.66	100.10	Initial Hydro-static
1	385.38	100.04	Open To Flow (1)
7	948.03	119.53	Shut-h(1)
34	1102.11	114.44	End Shut-h(1)
35	520.55	114.11	Open To Flow (2)
51	770.18	119.82	Shut-h(2)
82	1086.58	116.48	End Shut-h(2)
83	1669.63	116.59	Final Hydro-static



1' DRILL TIME FROM 1400'-1470' FOR ANHYDRITE
1' DRILL TIME FROM 3000'-RTD
10' WET/DRY SAMPLES FROM 3050'-RTD

Sh- gray-brn, waxy

Lm- crm-gray, fnxln, scat foss, scat pyrite

Sh- gray, waxy

Lm- tan-gray, fnxln, scat foss, scat Ss clusters, v.fn grn, well sorted, well rounded

Sh- gray

Lm- crm-gray, fnxln, foss, oolitic in prt

Sh- gray

TOPEKA: SPL 3089' (-957) LOG 3090' (-958)

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

Lm- A/A, scat foss

Lm- tan, v.fnxln, cherty, dense

Lm- crm-tan, v.fn-fnxln, scat foss, scat pr ppt por, scat fairly spotty brn sli sat stn in por, fr sheen FO in cup, fr-gd odor

Lm- crm, fnxln, scat foss, mottled in prt, scat pr ppt por, scat spotty brn stn in por, fr-gd sheen FO in cup, fr odor

Lm- crm, fnxln, foss, cherty, 1 pc w/ same show A/A

Lm- crm, fnxln, foss, 2-3 pcs w/ same show A/A

Lm- crm-tan, fnxln, foss

Lm- A/A

Lm- crm-tan, fnxln, scat foss

Ss- v. fngrn, well sorted, well rounded

Sh- blk, carn

GEO ON LOCATION @ 3:30 A.M. 10/1/22

8 5/8" SUFACE CASING SET @ 221'

SURVEY @ 221' (1/4°)

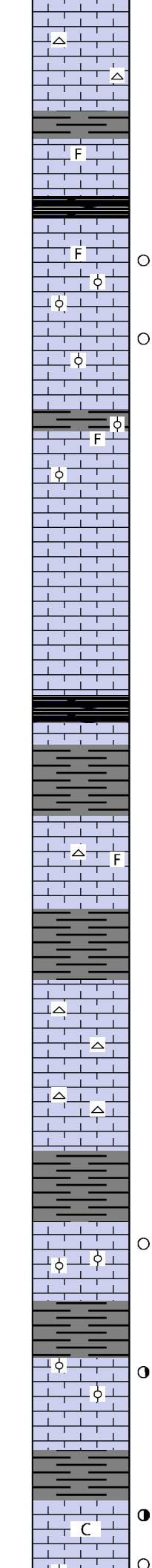
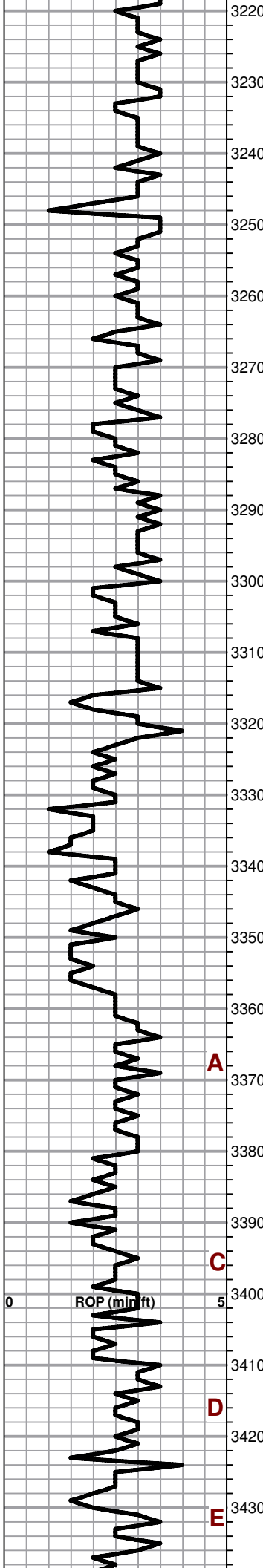
SURVEY @ 2953' (1/4°)

DISPLACED @ 3008'

PIPE STRAP 1.45' LONG TO BOARD

Lm- crm-tan, fnxln, scat tan-wt chert

Lm- crm-wt, microxln, cherty



Lm- crm wt, microxln, cherty

3220

3230 Lm- crm, fmxln, scat foss, scat lt gray blocky chert

3240 Lm- crm, fmxln, scat foss, mottled in prt
Sh- gray, waxy

3250 Sh- blk, carb

3260 Lm- crm, fmxln, foss in prt, v. few scat pcs w/ pr ppt por, 3-4 pcs w/ spotty brn stn in por, NSFO, no odor

3270 Lm- crm, fmxln, oolitic, few scat pcs w/ pr-fr inoolitic por, few scat pcs w/ spotty brn stn in por, sli sheen FO in cup, mod odor

3280 Lm- crm, fmxln, oolitic
Sh- gray, green, red

3290 Lm- A/A

3300 Lm- crm-tan, fmxln, dense
Sh- gray

3310

HEEBNER: SPL 3315' (-1183) LOG 3314' (-1182)

3320 Sh- blk, carb

3330 Sh- green-blk

TORONTO: SPL 3333' (-1201) LOG 3330' (-1198)

3340 Lm- crm-wt, microxln, foss, cherty

3350 Sh- brn-gray

LANSING: SPL 3356' (-1224) LOG 3355' (-1223)

3360 Lm- wt-tan, microxln, scat wt angular chert

3370 Lm- A/A

3380 Sh- gray-green-brn

3390 Lm- crm, v.fn-fmxln, oolitic, scat tight pr oolitic- ppt-inxln por, few scat pcs w/ spotty brn stn in por, sli SFO in cup, faint odor

3400 Sh- lt. gray

3410 Lm- crm, fmxln, oolitic, scat pr ppt por, few scat pcs w/ brn-blk v. sli sat stn, v. sli SFO, mod odor

3420

3430 Lm- crm, fmxln, sli chalky, scat pr ppt-inxln & tr vuggy por, scat brn sli sat stn, few FO drops in cup, fr dodr

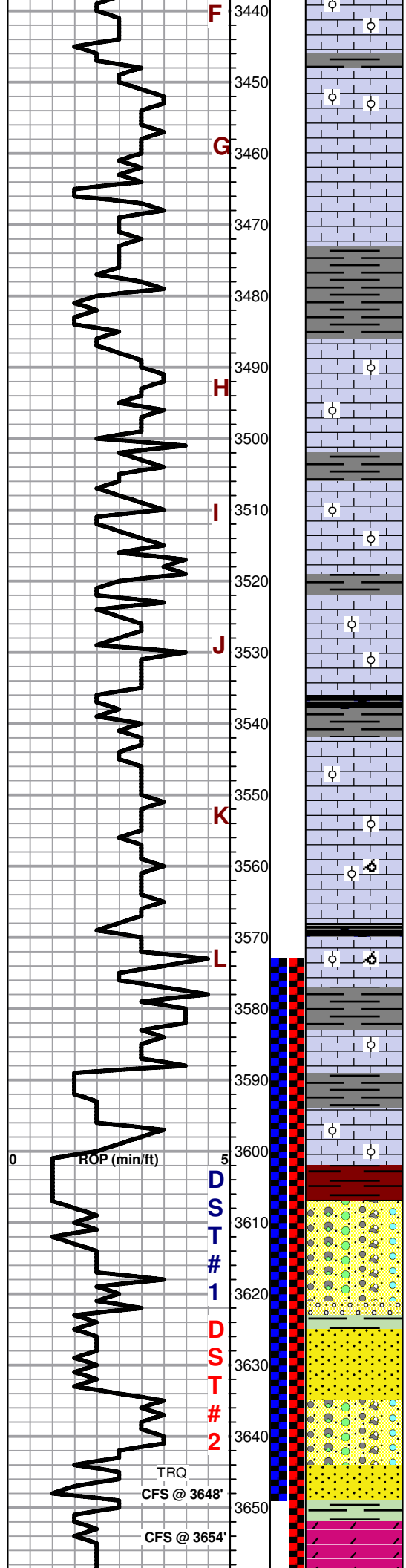
Lm- crm, fmxln, oolitic, few scat pcs w/ tight pr inoolitic por, v. few pcs

A

C

D

E



w/ brn stn in por, sli-no SFO, faint odor

Lm- crm, fnxln, oolitic, scat pr inxln-inoolitic por, scat blk stn, NSFO, faint odor

Lm- crm-wt, microxln, dense, cherty, v. few scat pcs w/ pr ppt por, scat blk dead stn, NSFO, faint odor

Lm- crm, v. fnxln, dense, cherty

Sh- blk-lt. gray

Lm- crm-gray, fnxln, oolitic in prt, few scat pcs w/ pr ppt & tr vuggy por, few scat pcs w/ brn-blk stn in por, NSFO, pr- no odor

Lm- crm, v.fnxln, chalky, scat tan chert

Lm- crm, v.fnxln, foss, oolitic in prt, cherty, scat tight ppt-infoss por, scat brn-blk stn & few pcs w/ some sat, FO droplets in cup, pr odor

Lm-crm-wt, v.fn-fnxln, oolitic, scat pr-fr ppt-oomoldic & tr vuggy por, scat brn-blk sub sat stn, sheen & FO drops in cup, f odor

Sh- blk, carb

Lm- crm, v.fn-fnxln, cherty, oolitic in prt, scat fairly tight ppt & vuggy por, scat brn stn w/ some sat, pr-fr sheen & FO drops in cup, mod odor

Lm- crm, v.fn-fnxln, oolitic, scat pr oolitic-oomoldic por, few scat pcs w/ brn stn in por, sli SFO in cup, mod odor

Lm- crm, v.fn-fnxln, oolitic, chalky in prt, pr oolitic-oomoldic por, NSO

BKC: SPL 3578' (-1446) LOG 3578' (1446)

Sh- gray-brn, silty

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

CONGLOMERATE: SPL 3596' (-1464) LOG 3591' (-1459)

Lm- crn, fnxln, foss in prt, dense in prt, mottled

Sh- brn

Lm- crm-tan, v.fn-fnxln, oolitic, dense, scat tan-wt chert

Sh- brn

Chert- wt-tan, blocky-sub angular, tight ppt & tr vuggy por, blk sat stn, gd sheen & FO drops in cup & bleeding from pores, pr odor

Lm- crm, fnxln-fngrn, oolitic in prt, few scat Ss clusters, fn-mdgrn, well sorted, sub rounded

Sh- brn-turq

Ss- qtz, clear, fngrn, dolomitic matrix, well sorted, sub rounded, well consolidated, tight ingrn por, brn sat stn, SFO upon crush, fr odor

Chert- wt, blocky, blk dead stn

Sh- turq

Ss- qtz, clear-turq, fn-mdgrn, dolo matrix, friable in prt, pr-mod sorting, sub rounding, pr-fr ingrn por, few pcs w/ brn sat stn, scat blk dead stn, mod sheen & FO drops in cup & upon crush, mod odor

ARBUCKLE: SPL 3650' (-1518) LOG 3648' (-1516)

3654' 30min-Dolo- crm, fnxln, sucrosic in prt, scat pr ppt & some fr vuggy por, scat brn stn w/ few pcs sat, fr sheen FO in cup, fr odor, much brn- turq shales, 60min Dolo- same show less shales

DST #1
3574'-3648' (SIMPSON)
15-30-30-30
50' M
SIP: 1055-1004#

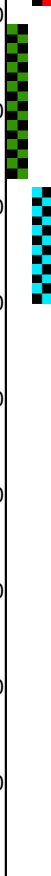
DST #2
3574'-3659' (ARBUCKLE)
5-30-15-30
1638' OSMW
SIP: 1102-1086#

CFS @ 3659'

D
S
T

3
D
S
T

4



- 59' 60min- Dolo- crm, fn-mdxn, sucrosic in prt, rhombic in prt, pr-fr, inxln-vuggy por, brn sat stn, fr-gd sheen FO in cup, mod odor
- Dolo- crm, fn-coarsexln, sucrosic & rhombic, pr-fr w/ some gd inxln-vuggy por, brn sat stn, fr-gd SFO, mod odor
- Dolo- A/A, fr odor
- Dolo- crm, fn-mdxn, sucrosic, pr-fr inxln-vuggy por, brn stn w/ some sat, fr SFO, mod odor
- Dolo- crm, fn-mdxn, sucrosic, pr-fr inxln & some vuggy por, brn sat stn, gd SFO in cup & bleeding from pores, mod odor
- Dolo-crm, fn-mdxn, sucrosic, pr-fr inxln & some vuggy por, brn sat stn, gd SFO in cup & bleeding from pores, mod odor
- Dolo- crm-lt. pink, fn-mdxn, sucrosic, mostly pr inxln por w/ few scat vuggs, scat brn-blk sub sat stn, some blk tarry stn, pr-fr SFO, mod odor
- Dolo- crm-lt. pink, fnxn, sucrosic in prt, scat pr inxln & tr vuggy por, scat blk tarry stn, mod SFO, mod odor

RTD: SPL 3730' (-1598) LOG 3730' (-1598)

DST #3 STRADDLE
3662'-3677' (ARBUCKLE)
15-30-15-30
1320' MCOW (6% O)
SIP: 1140-1137#

DST #4 STRADDLE
3677'-3690' (ARBUCKLE)
15-30-30-30
690' OW (25% O)
SIP: 1179-1177#

QUANTITY OF
SHOWS BEGAN TO
LESSEN AROUND
3700'

SURVEY @ RTD (3/4°)

GEO OFF LOCATION
@ 4 P.M. 10/4/22