

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	KATIE PUNDSACK 3
Doc ID	1631745

All Electric Logs Run

MICRO
CDNL
Sonic
DIL

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	KATIE PUNDSACK 3
Doc ID	1631745

Tops

Name	Top	Datum
Anhydrite	812	1109
Heebner	3238	-1317
Toronto	3256	-1335
Douglas	3274	-1353
Brown Lime	3358	-1437
Lansing	3369	-1448
Base KC	3588	-1667
Conglomerate	3588	-1701
Viola	3644	-1723
Arbuckle	3717	-1796





## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Katie Pundsack #3**

#### **19-21S-13W Stafford KS**

Start Date: 2021.11.07 @ 12:35:01

End Date: 2021.11.07 @ 19:21:26

Job Ticket #: 68317                      DST #: 1

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

Printed: 2021.11.11 @ 16:15:10



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

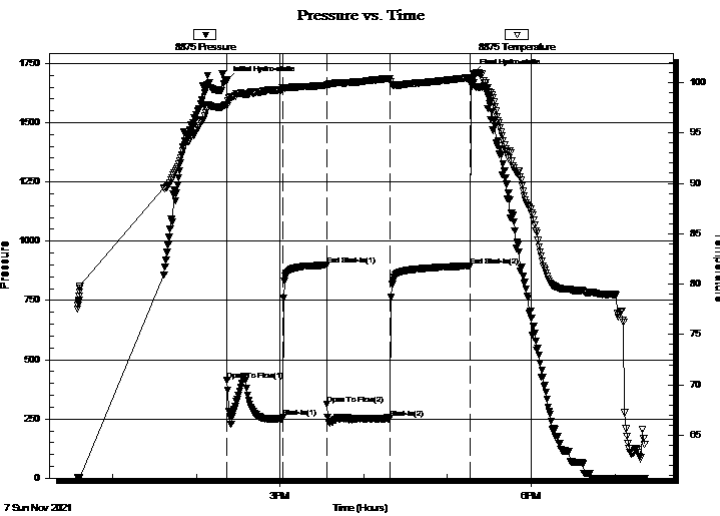
**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
 Job Ticket: 68317 **DST#: 1**  
 Test Start: 2021.11.07 @ 12:35:01

## GENERAL INFORMATION:

Formation: **Lans**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:22:06  
 Time Test Ended: 19:21:26  
 Interval: **3394.00 ft (KB) To 3456.00 ft (KB) (TVD)**  
 Total Depth: 3456.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1921.00 ft (KB)  
 1911.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8875 Outside**  
 Press@RunDepth: 252.83 psig @ 3429.00 ft (KB) Capacity: psig  
 Start Date: 2021.11.07 End Date: 2021.11.07 Last Calib.: 2021.11.07  
 Start Time: 12:35:01 End Time: 19:21:26 Time On Btm: 2021.11.07 @ 14:21:52  
 Time Off Btm: 2021.11.07 @ 17:18:22

**TEST COMMENT:** 30-IS-Couldn't get last 12' to bottom GTS 2 mins Tool wouldnt turn for 10 mins  
 30-ISI-Very Weak Surface  
 45-FF-Gauged Gas  
 60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.86	97.81	Initial Hydro-static
1	414.42	97.74	Open To Flow (1)
40	258.28	99.53	Shut-In(1)
72	899.43	99.72	End Shut-In(1)
72	312.53	99.73	Open To Flow (2)
118	252.83	100.42	Shut-In(2)
175	895.68	100.50	End Shut-In(2)
177	1708.37	100.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	GWCM 30%G 10%W 60%M	2.13
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	31.00	1305.20
Last Gas Rate	1.00	27.00	1190.20
Max. Gas Rate	1.00	31.00	1305.20







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68317      **DST#: 1**  
Test Start: 2021.11.07 @ 12:35:01

**Tool Information**

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.82 inches	Volume: 48.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	82000.00 lb
			<u>Total Volume:</u>	Tool Chased	10.00 ft
				String Weight: Initial	46000.00 lb
Drill Pipe Above KB:	27.00 ft			Final	48000.00 lb
Depth to Top Packer:	3394.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			3374.00	
Change Over Sub	1.00			3375.00	
Shut In Tool	5.00			3380.00	
Hydraulic tool	5.00		Fluid	3385.00	
Packer	5.00			3390.00	21.00      Bottom Of Top Packer
Packer	4.00			3394.00	
Stubb	1.00			3395.00	
Perforations	1.00			3396.00	
Change Over Sub	1.00			3397.00	
Drill Pipe	32.00			3429.00	
Recorder	0.00	6838	Inside	3429.00	
Recorder	0.00	8875	Outside	3429.00	
Change Over Sub	1.00			3430.00	
Perforations	23.00			3453.00	
Bullnose	3.00			3456.00	62.00      Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68317      **DST#: 1**  
Test Start: 2021.11.07 @ 12:35:01

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 52500 ppm	
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GWCM 30%G 10%W 60%M	2.126
0.00	GTS	0.000

Total Length: 150.00 ft      Total Volume: 2.126 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: TrLCM  
RW=.153@68F



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Mai Oil Operations Inc

**19-21S-13W Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Katie Pundsack #3**

Job Ticket: 68317

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2021.11.07 @ 12:35:01

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

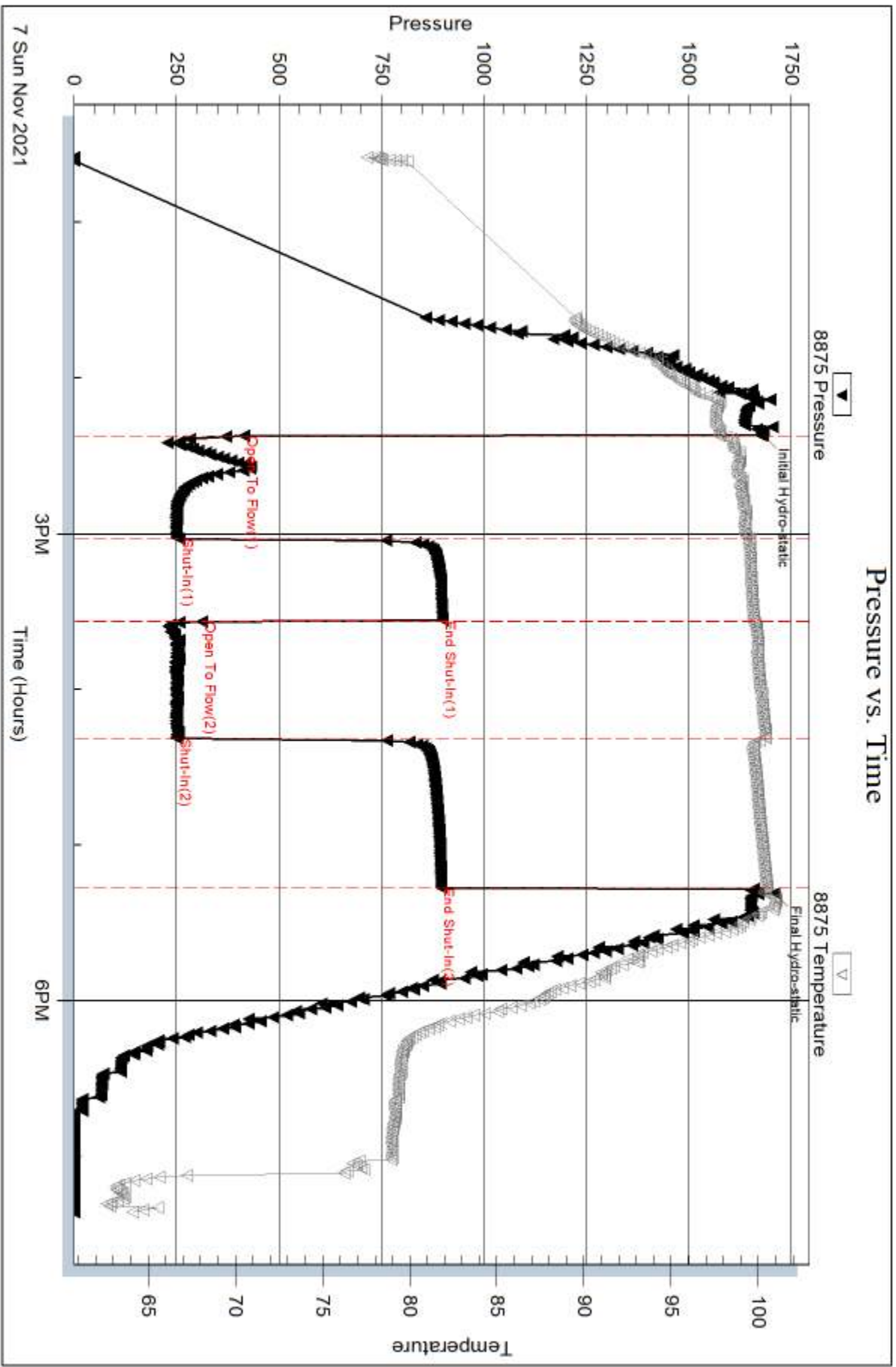
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	1.00	31.00	1305.20
1	25	1.00	26.00	1161.45
1	30	1.00	25.00	1132.70
2	5	1.00	26.00	1161.45
2	10	1.00	27.00	1190.20
2	20	1.00	28.00	1218.95
2	30	1.00	28.00	1218.95
2	40	1.00	27.00	1190.20

Serial #: 8875

Outside Mai Oil Operations Inc

Katie Pundsack #3

DST Test Number: 1



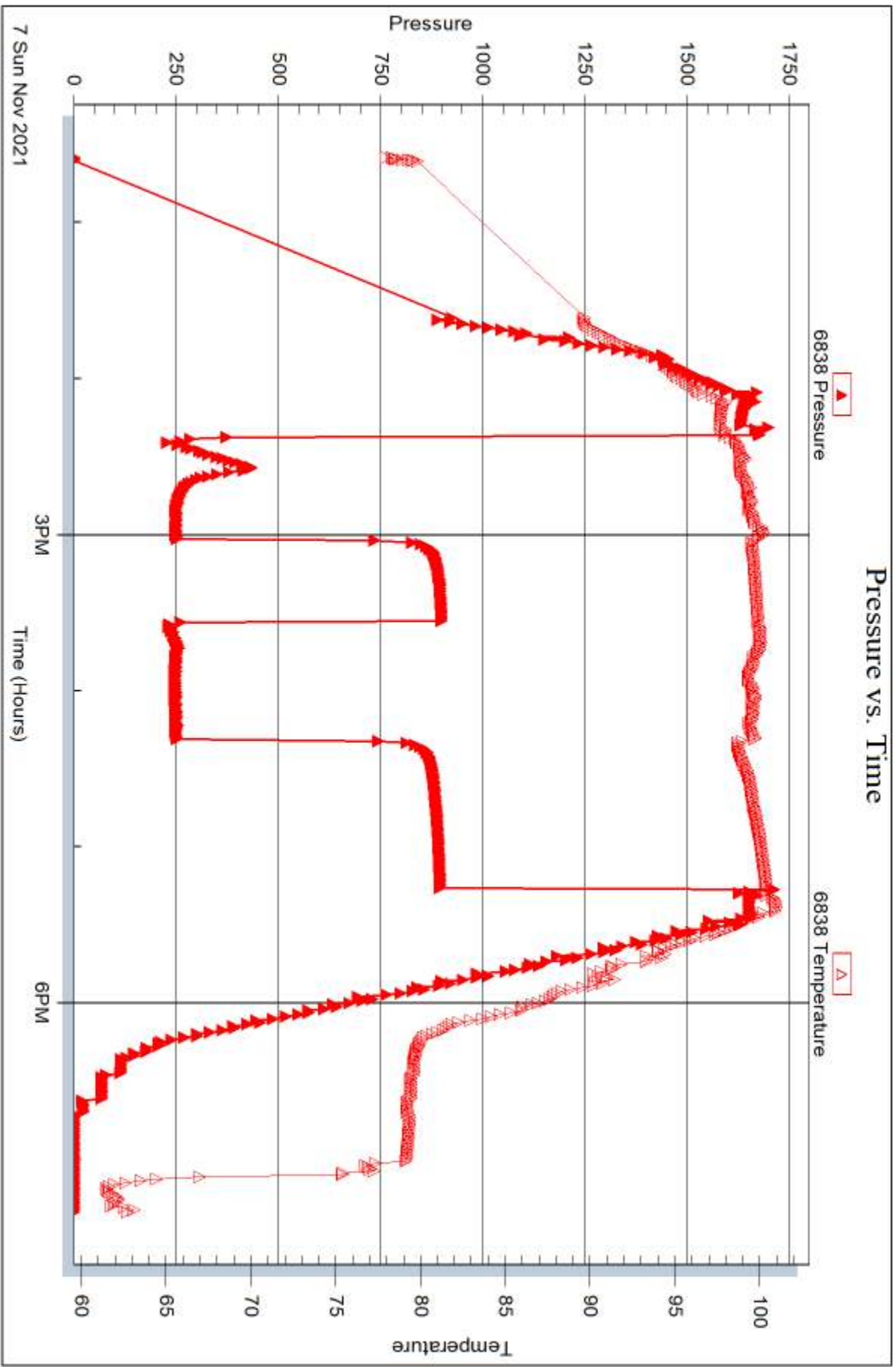
Serial #: 6838

Inside

Mai Oil Operations Inc

Katie Pundsack #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68317

Printed: 2021.11.11 @ 16:15:11



## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Katie Pundsack #3**

#### **19-21S-13W Stafford KS**

Start Date: 2021.11.08 @ 02:05:00

End Date: 2021.11.08 @ 08:02:52

Job Ticket #: 68318                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.11.11 @ 16:40:40



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

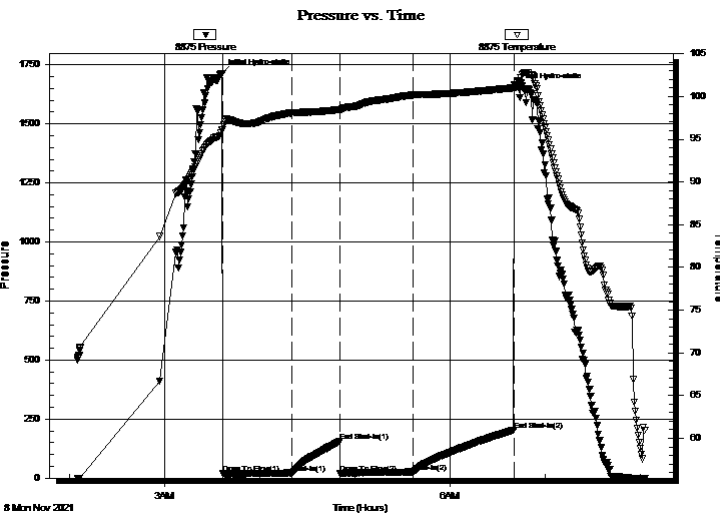
**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
 Job Ticket: 68318 **DST#: 2**  
 Test Start: 2021.11.08 @ 02:05:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:36:27  
 Time Test Ended: 08:02:52  
**Interval: 3480.00 ft (KB) To 3496.00 ft (KB) (TVD)**  
 Total Depth: 3496.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1921.00 ft (KB)  
 1911.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8875 Outside**  
 Press@RunDepth: 25.08 psig @ 3483.00 ft (KB) Capacity: psig  
 Start Date: 2021.11.08 End Date: 2021.11.08 Last Calib.: 2021.11.08  
 Start Time: 02:05:01 End Time: 08:02:52 Time On Btm: 2021.11.08 @ 03:36:02  
 Time Off Btm: 2021.11.08 @ 06:40:27

**TEST COMMENT:** 45-IF-Surface to 6.5"  
 30-ISI-No Return  
 45-FF-Surface to 4.5"  
 60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.87	96.14	Initial Hydro-static
1	20.38	96.11	Open To Flow (1)
45	22.17	98.08	Shut-In(1)
75	156.29	98.44	End Shut-In(1)
75	18.22	98.44	Open To Flow (2)
121	25.08	100.17	Shut-In(2)
184	203.60	101.03	End Shut-In(2)
185	1652.25	101.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	HmCO 30%M 70%O	0.57
0.00	300 GIP 100%G	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

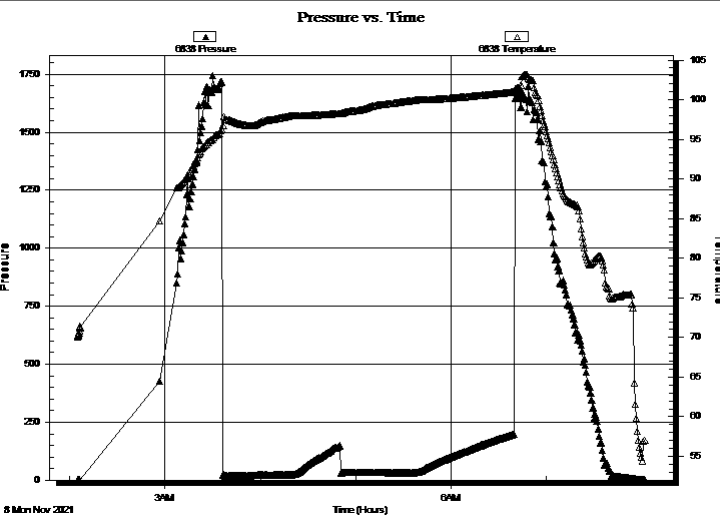
**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
 Job Ticket: 68318      **DST#: 2**  
 Test Start: 2021.11.08 @ 02:05:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 03:36:27  
 Time Test Ended: 08:02:52  
**Interval: 3480.00 ft (KB) To 3496.00 ft (KB) (TVD)**  
 Total Depth: 3496.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1921.00 ft (KB)  
 1911.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6838      Inside**  
 Press@RunDepth:      psig @      3483.00 ft (KB)      Capacity:      psig  
 Start Date: 2021.11.08      End Date: 2021.11.08      Last Calib.: 2021.11.08  
 Start Time: 02:05:01      End Time: 08:02:11      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 45-IF-Surface to 6.5"  
 30-ISI-No Return  
 45-FF-Surface to 4.5"  
 60-FSI-No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	HmCO 30%M 70%O	0.57
0.00	300 GIP 100%G	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**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68318      **DST#: 2**  
Test Start: 2021.11.08 @ 02:05:00

**Tool Information**

Drill Pipe:	Length: 3484.00 ft	Diameter: 3.82 inches	Volume: 49.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3480.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3460.00	
Change Over Sub	1.00			3461.00	
Shut In Tool	5.00			3466.00	
Hydraulic tool	5.00		Fluid	3471.00	
Packer	5.00			3476.00	21.00      Bottom Of Top Packer
Packer	4.00			3480.00	
Stubb	1.00			3481.00	
Perforations	2.00			3483.00	
Recorder	0.00	6838	Inside	3483.00	
Recorder	0.00	8875	Outside	3483.00	
Perforations	10.00			3493.00	
Bullnose	3.00			3496.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68318      **DST#: 2**  
Test Start: 2021.11.08 @ 02:05:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

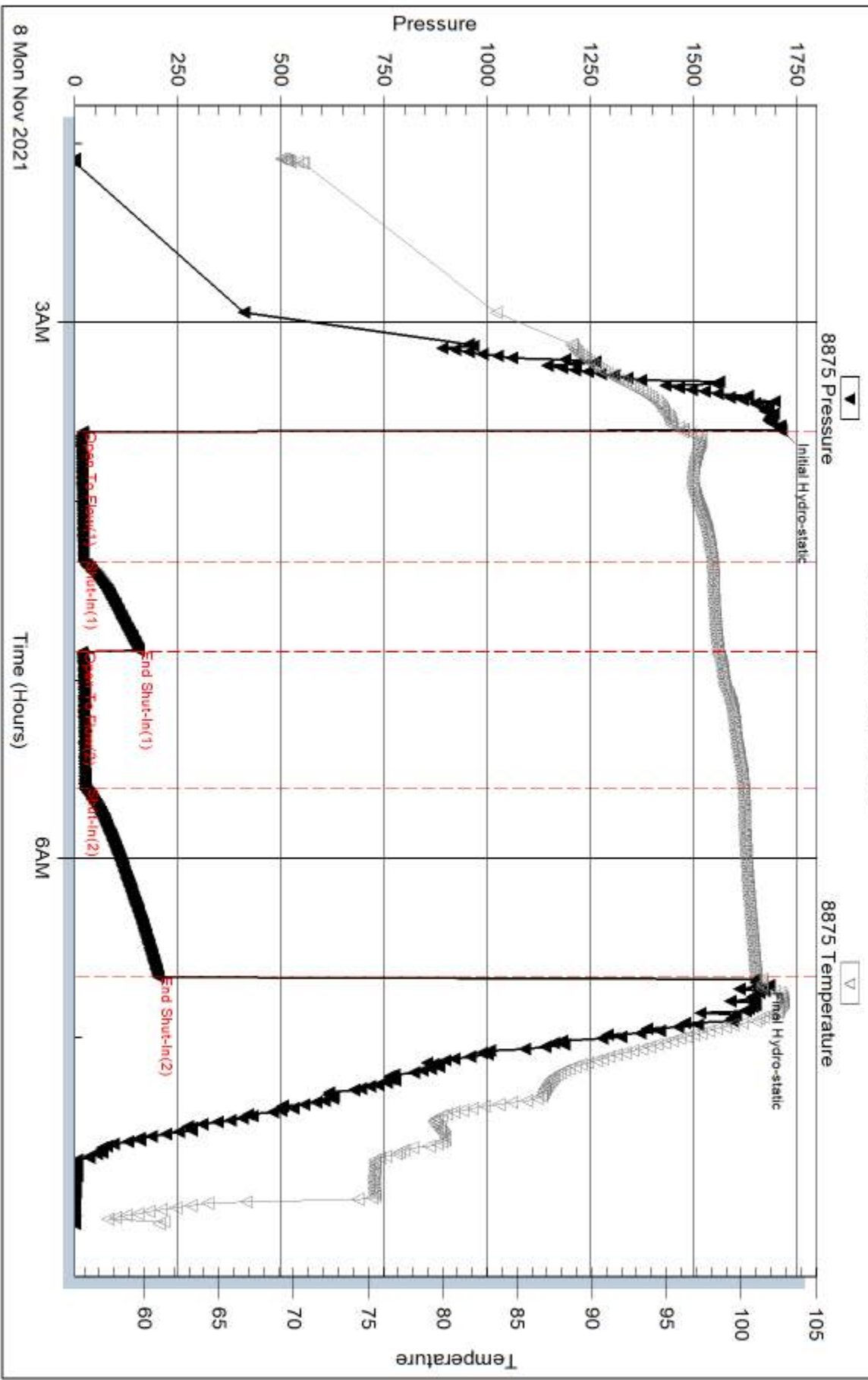
## Recovery Information

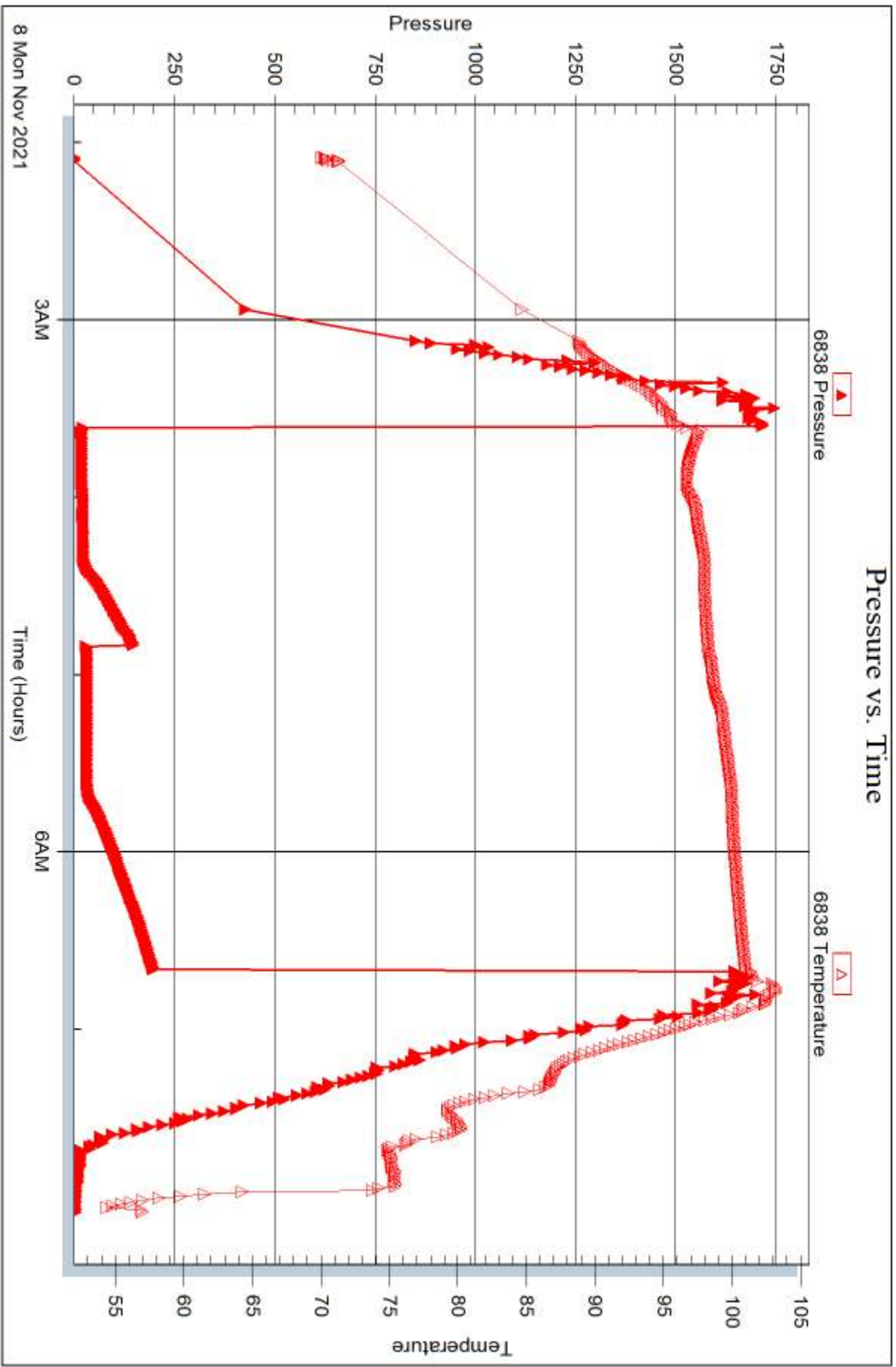
Recovery Table

Length ft	Description	Volume bbl
40.00	HmCO 30%M 70%O	0.567
0.00	300 GIP 100%G	0.000

Total Length: 40.00 ft      Total Volume: 0.567 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: TrLCM

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Katie Pundsack #3**

#### **19-21S-13W Stafford KS**

Start Date: 2021.11.09 @ 04:37:00

End Date: 2021.11.09 @ 11:16:07

Job Ticket #: 68319                      DST #: 3

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

Printed: 2021.11.11 @ 16:40:10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**

**Katie Pundsack #3**

Job Ticket: 68319      **DST#: 3**  
Test Start: 2021.11.09 @ 04:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 06:21:12  
Time Test Ended: 11:16:07  
Interval: **3650.00 ft (KB) To 3713.00 ft (KB) (TVD)**  
Total Depth: 3713.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Spencer J Staab  
Unit No: 84  
Reference Elevations: 1921.00 ft (KB)  
1911.00 ft (CF)  
KB to GR/CF: 10.00 ft

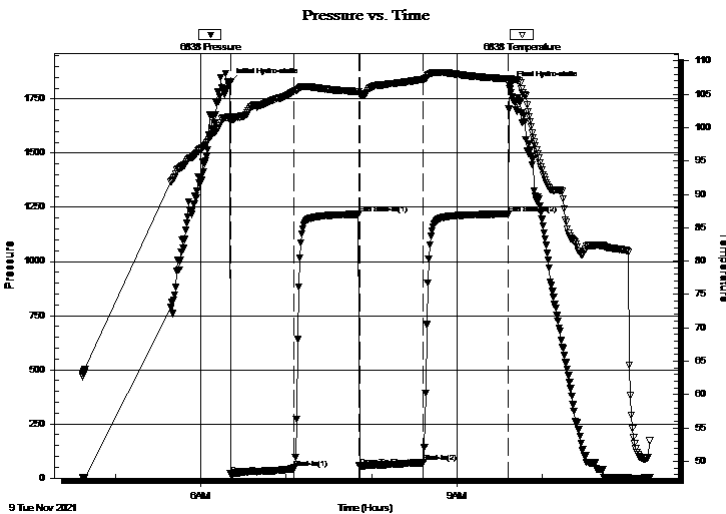
## Serial #: 6838

Inside

Press@RunDepth: 71.89 psig @ 3685.00 ft (KB)      Capacity:                      psig  
Start Date: 2021.11.09      End Date: 2021.11.09      Last Calib.: 2021.11.09  
Start Time: 04:37:01      End Time: 11:16:07      Time On Btm: 2021.11.09 @ 06:20:37  
Time Off Btm: 2021.11.09 @ 09:37:12

TEST COMMENT: 45-IF-Surface to 6.75"  
45-ISI-No Return  
45-FF-Surface to 4"  
60-FSI-Surface to 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.13	101.58	Initial Hydro-static
1	17.73	101.25	Open To Flow (1)
45	44.04	105.44	Shut-In(1)
91	1218.27	105.39	End Shut-In(1)
92	55.79	104.97	Open To Flow (2)
136	71.89	107.23	Shut-In(2)
196	1219.37	107.31	End Shut-In(2)
197	1809.98	107.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	GMO 5%G 50%M 45%O	1.42
60.00	GO 10%G 90%O	0.85
0.00	100 GIP 100%G	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**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68319      **DST#: 3**  
Test Start: 2021.11.09 @ 04:37:00

**Tool Information**

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.82 inches	Volume: 51.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3650.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3630.00	
Change Over Sub	1.00			3631.00	
Shut In Tool	5.00			3636.00	
Hydraulic tool	5.00		Fluid	3641.00	
Packer	5.00			3646.00	21.00      Bottom Of Top Packer
Packer	4.00			3650.00	
Stubb	1.00			3651.00	
Perforations	1.00			3652.00	
Change Over Sub	1.00			3653.00	
Drill Pipe	32.00			3685.00	
Recorder	0.00	6838	Inside	3685.00	
Recorder	0.00	8875	Outside	3685.00	
Change Over Sub	1.00			3686.00	
Perforations	24.00			3710.00	
Bullnose	3.00			3713.00	63.00      Bottom Packers & Anchor

**Total Tool Length: 84.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68319      **DST#: 3**  
Test Start: 2021.11.09 @ 04:37:00

## Mud and Cushion Information

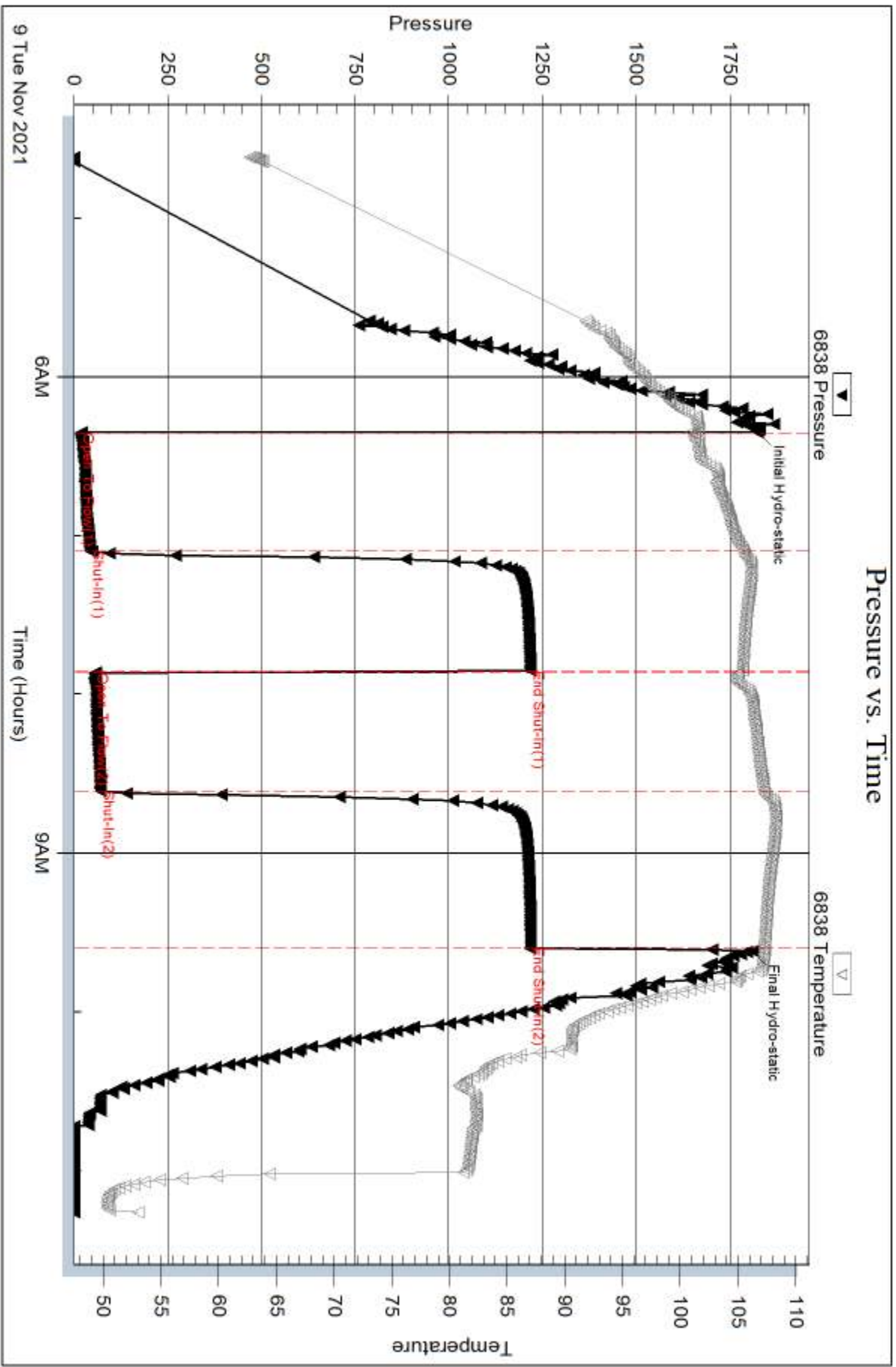
Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6200.00 ppm		
Filter Cake: inches		

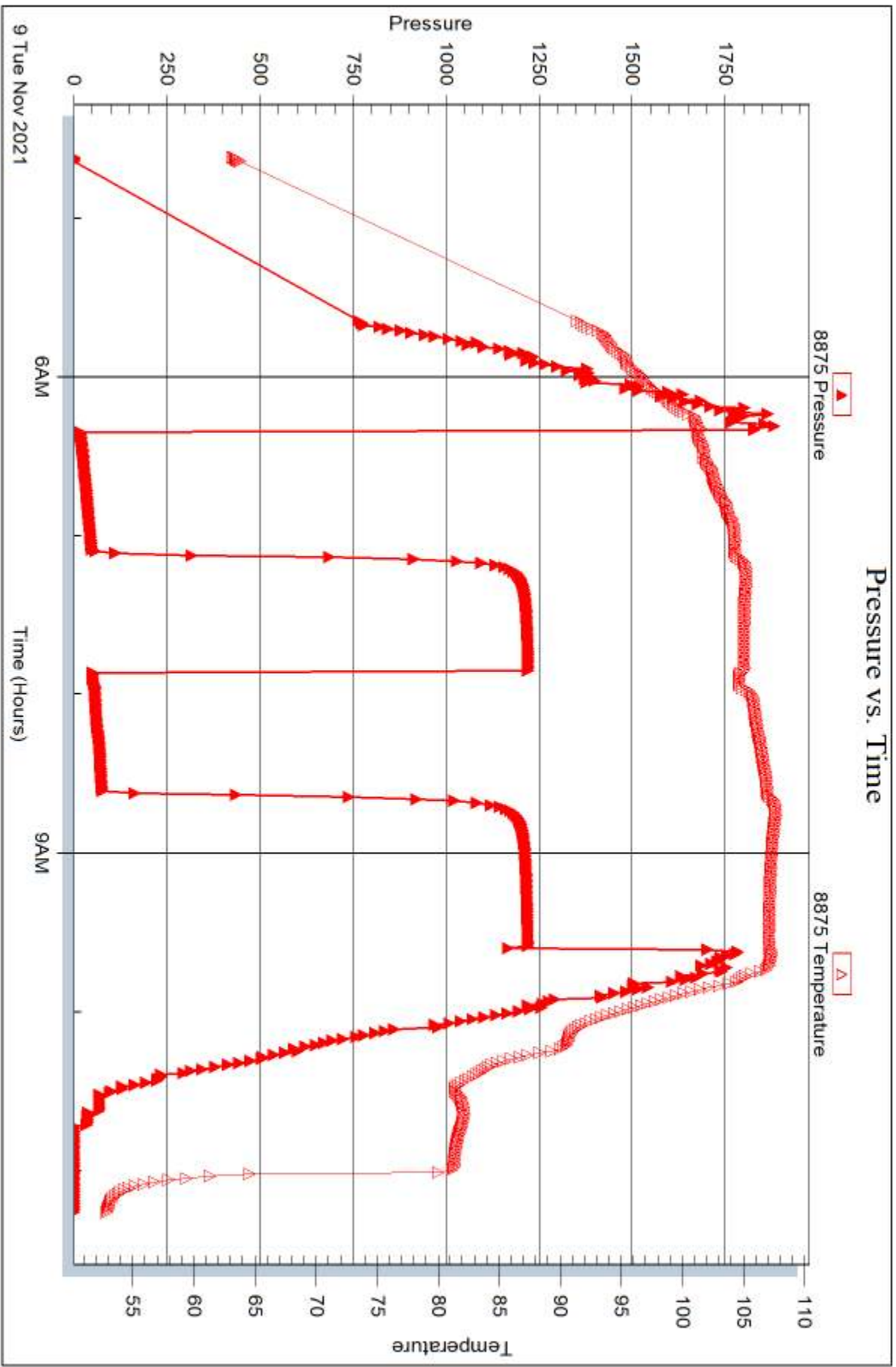
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GMO 5%G 50%M 45%O	1.418
60.00	GO 10%G 90%O	0.851
0.00	100 GIP 100%G	0.000

Total Length: 160.00 ft      Total Volume: 2.269 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 1#LCM







## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Katie Pundsack #3**

#### **19-21S-13W Stafford KS**

Start Date: 2021.11.09 @ 18:07:00

End Date: 2021.11.10 @ 00:08:12

Job Ticket #: 68320                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.11.11 @ 16:39:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

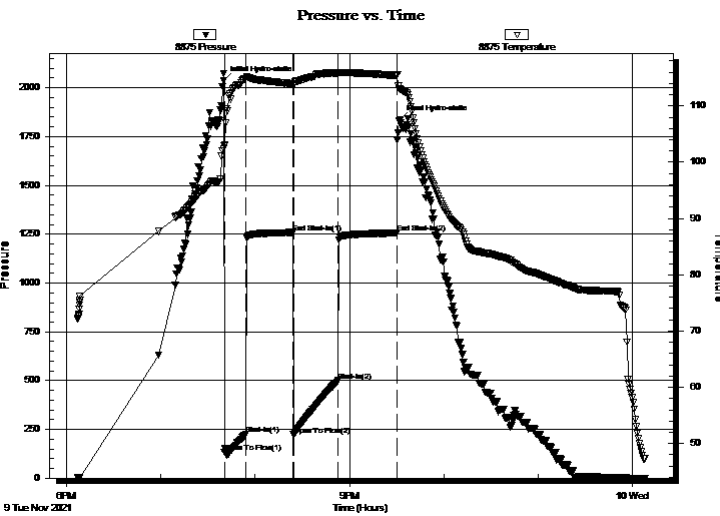
**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68320 **DST#: 4**  
Test Start: 2021.11.09 @ 18:07:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:40:22  
Time Test Ended: 00:08:12  
Interval: **3717.00 ft (KB) To 3727.00 ft (KB) (TVD)**  
Total Depth: 3727.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1921.00 ft (KB)  
1911.00 ft (CF)  
KB to GR/CF: 10.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Spencer J Staab  
Unit No: 84

**Serial #: 8875 Outside**  
Press@RunDepth: 499.50 psig @ 3719.00 ft (KB) Capacity: psig  
Start Date: 2021.11.09 End Date: 2021.11.10 Last Calib.: 2021.11.10  
Start Time: 18:07:01 End Time: 00:08:11 Time On Btm: 2021.11.09 @ 19:39:57  
Time Off Btm: 2021.11.09 @ 21:32:07

**TEST COMMENT:** 15-IF-BOB 3 mins Built to 46"  
30-ISI-No Return  
30-FF-BOB 4 mins Built to 71"  
30-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.92	102.33	Initial Hydro-static
1	131.46	102.97	Open To Flow (1)
14	224.74	114.95	Shut-In(1)
44	1258.37	113.91	End Shut-In(1)
45	222.35	113.72	Open To Flow (2)
73	499.50	115.82	Shut-In(2)
111	1255.96	115.42	End Shut-In(2)
113	1834.87	112.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
415.00	GMCW 10%G 10%M 80%W	5.88
700.00	GO 5%G 95%O	9.92
0.00	30 GIP 100%G	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**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68320 **DST#: 4**  
Test Start: 2021.11.09 @ 18:07:00

## Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.82 inches	Volume: 52.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3717.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3697.00	
Change Over Sub	1.00			3698.00	
Shut In Tool	5.00			3703.00	
Hydraulic tool	5.00		Fluid	3708.00	
Packer	5.00			3713.00	21.00 Bottom Of Top Packer
Packer	4.00			3717.00	
Stubb	1.00			3718.00	
Perforations	1.00			3719.00	
Recorder	0.00	6838	Inside	3719.00	
Recorder	0.00	8875	Outside	3719.00	
Perforations	5.00			3724.00	
Bullnose	3.00			3727.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 31.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68320      **DST#: 4**  
Test Start: 2021.11.09 @ 18:07:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 26 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 40000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.57 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6400.00 ppm		
Filter Cake: inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
415.00	GMCW 10%G 10%M 80%W	5.883
700.00	GO 5%G 95%O	9.923
0.00	30 GIP 100%G	0.000

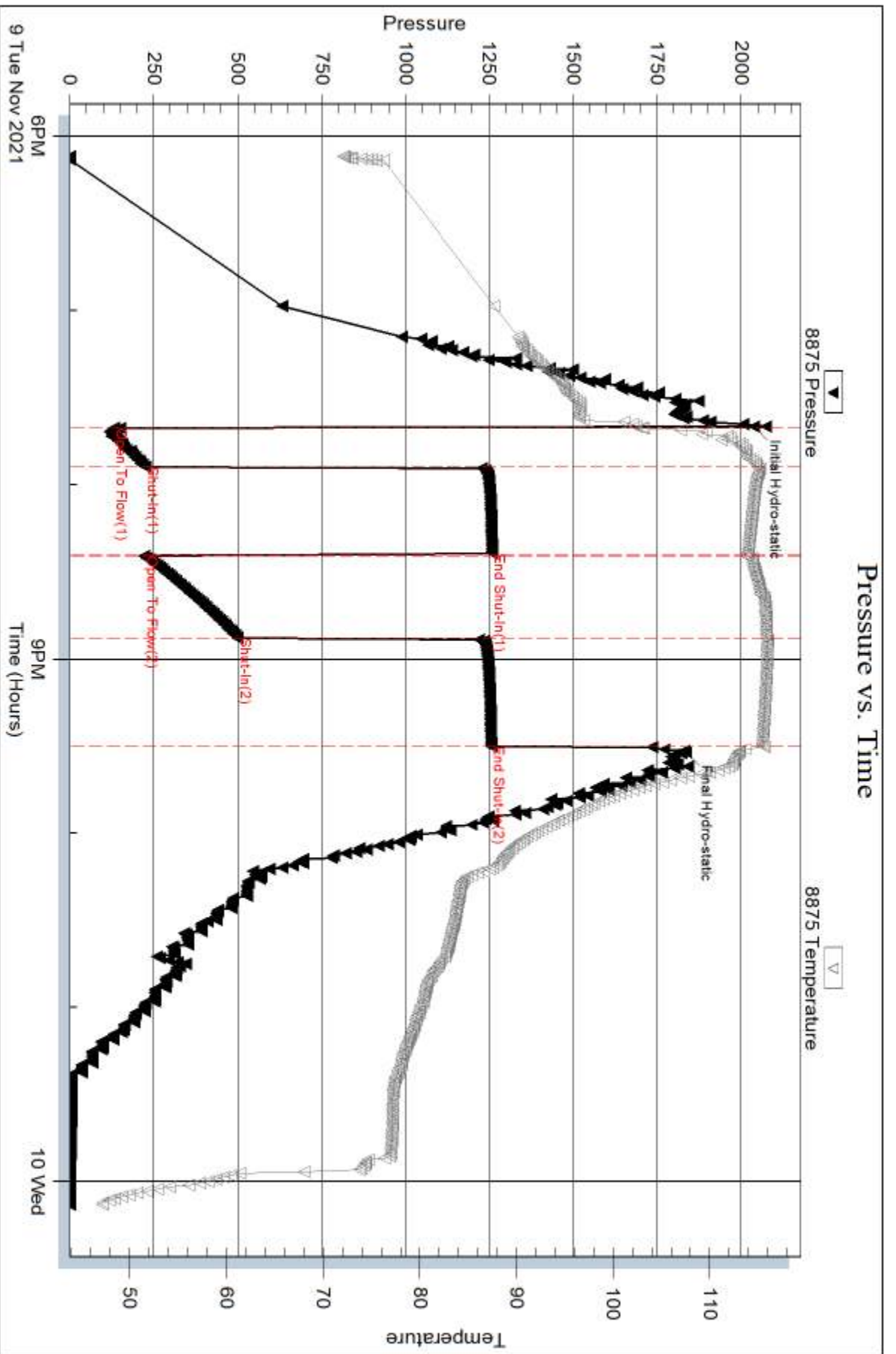
Total Length: 1115.00 ft      Total Volume: 15.806 bbl

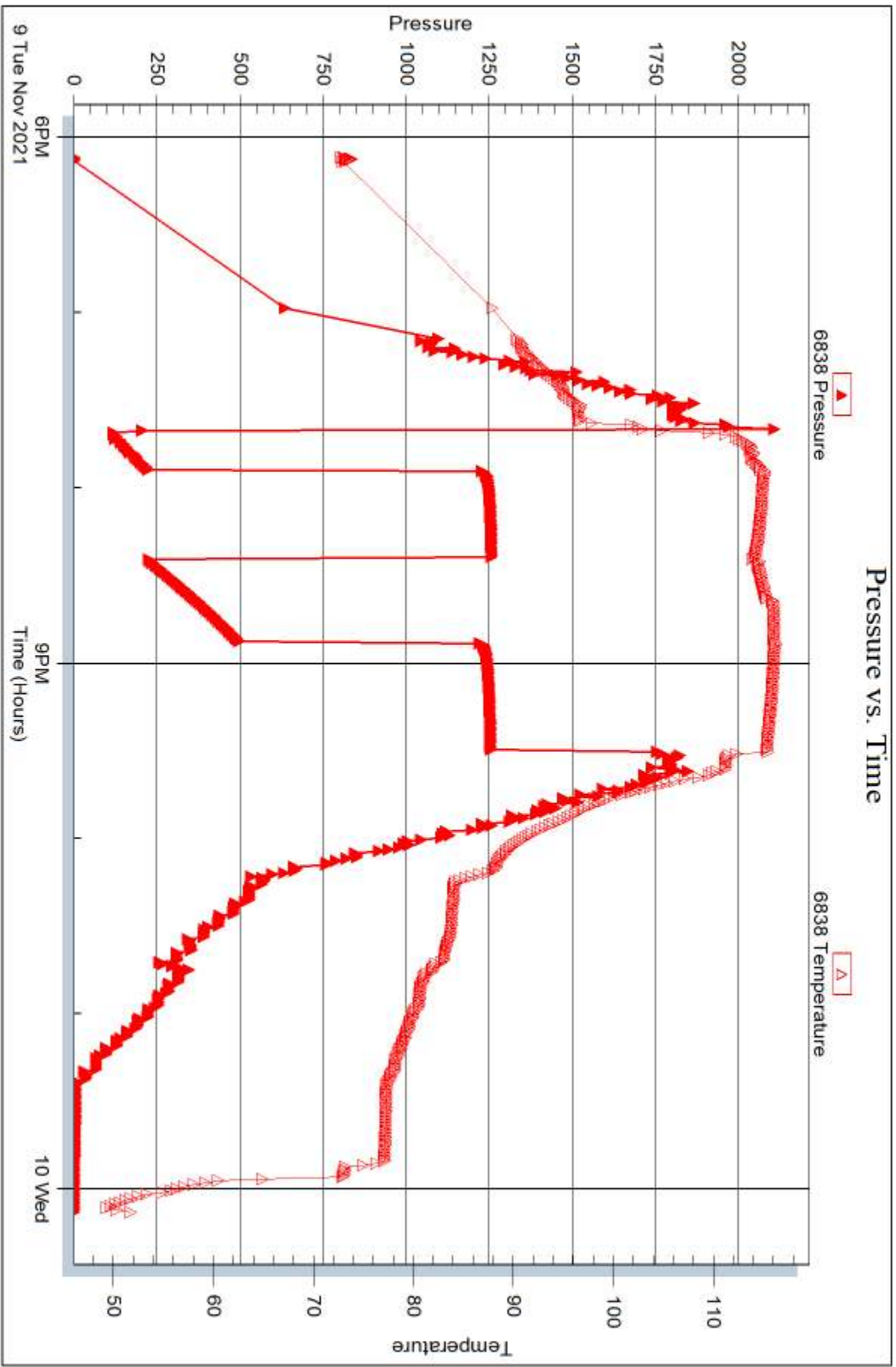
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: TrLCM  
RW=.321@41F









## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Katie Pundsack #3**

#### **19-21S-13W Stafford KS**

Start Date: 2021.11.10 @ 07:20:00

End Date: 2021.11.10 @ 13:13:51

Job Ticket #: 68321                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.11.11 @ 16:38:53



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
 Job Ticket: 68321 **DST#: 5**  
 Test Start: 2021.11.10 @ 07:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:49:12  
 Time Test Ended: 13:13:51  
 Interval: **3732.00 ft (KB) To 3742.00 ft (KB) (TVD)**  
 Total Depth: 3742.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1921.00 ft (KB)  
 1911.00 ft (CF)  
 KB to GR/CF: 10.00 ft

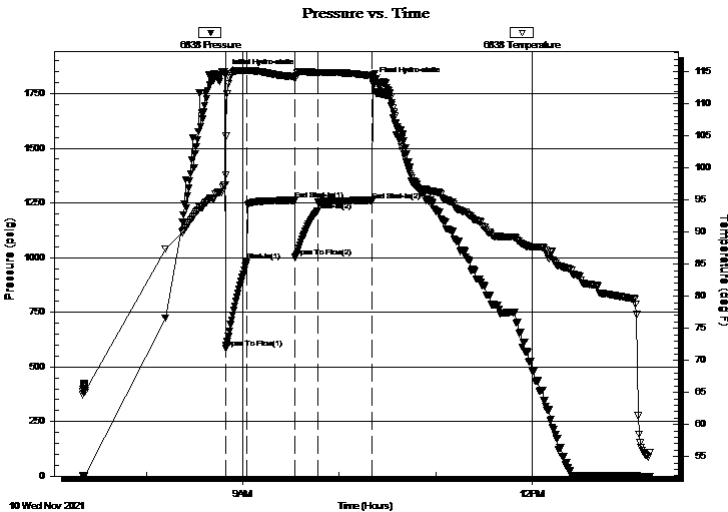
## Serial #: 6838

Inside

Press@RunDepth: 1214.61 psig @ 3734.00 ft (KB) Capacity: psig  
 Start Date: 2021.11.10 End Date: 2021.11.10 Last Calib.: 2021.11.10  
 Start Time: 07:20:01 End Time: 13:13:52 Time On Btm: 2021.11.10 @ 08:48:52  
 Time Off Btm: 2021.11.10 @ 10:20:57

TEST COMMENT: 15-IF-BOB 30 secs Built to 329"  
 30-ISI-Very Weak Surface Died in 5 mins  
 15-FF-BOB 10 secs Built to 235"  
 30-FSI-Weak Surface Died in 10 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.18	97.44	Initial Hydro-static
1	584.13	98.85	Open To Flow (1)
14	984.70	115.21	Shut-In(1)
44	1262.02	114.14	End Shut-In(1)
44	1001.76	113.99	Open To Flow (2)
58	1214.61	114.89	Shut-In(2)
92	1261.79	114.43	End Shut-In(2)
93	1803.02	114.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1860.00	GW 5%G 95%W	26.37
300.00	GVSOCW 10%G 2%O 88%W	4.25
730.00	GHOCW 10%G 20%O 70%W	10.35
0.00	90 GIP 100%G	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**

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68321      **DST#: 5**  
Test Start: 2021.11.10 @ 07:20:00

**Tool Information**

Drill Pipe:	Length: 3736.00 ft	Diameter: 3.82 inches	Volume: 52.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3732.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3712.00	
Change Over Sub	1.00			3713.00	
Shut In Tool	5.00			3718.00	
Hydraulic tool	5.00		Fluid	3723.00	
Packer	5.00			3728.00	21.00      Bottom Of Top Packer
Packer	4.00			3732.00	
Stubb	1.00			3733.00	
Perforations	1.00			3734.00	
Recorder	0.00	6838	Inside	3734.00	
Recorder	0.00	8875	Outside	3734.00	
Perforations	5.00			3739.00	
Bullnose	3.00			3742.00	10.00      Bottom Packers & Anchor

**Total Tool Length: 31.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mai Oil Operations Inc  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**19-21S-13W Stafford KS**  
**Katie Pundsack #3**  
Job Ticket: 68321      **DST#: 5**  
Test Start: 2021.11.10 @ 07:20:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 34000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.58 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6400.00 ppm		
Filter Cake: inches		

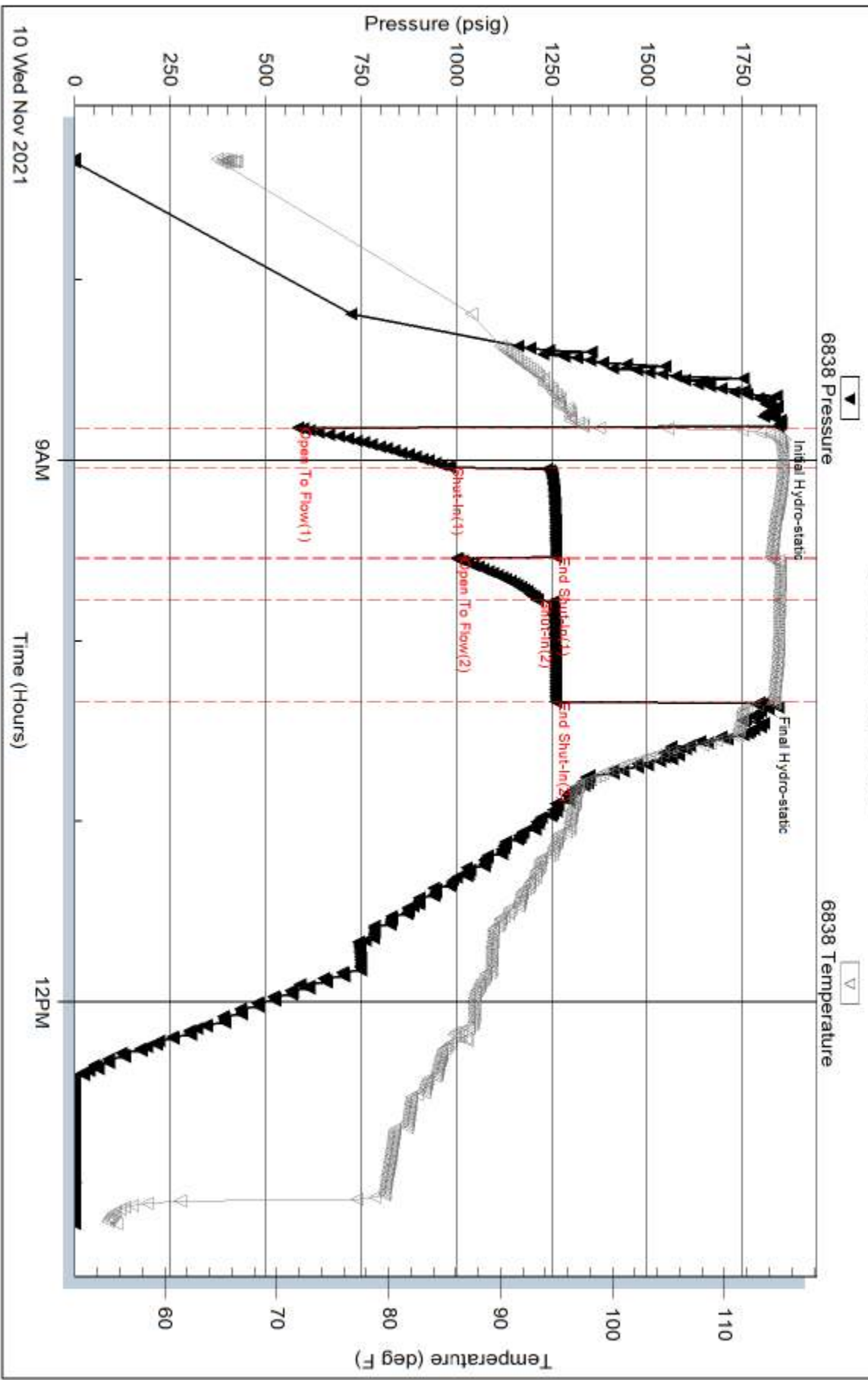
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1860.00	GW 5%G 95%W	26.366
300.00	GVSOCW 10%G 2%O 88%W	4.253
730.00	GHOCW 10%G 20%O 70%W	10.348
0.00	90 GIP 100%G	0.000

Total Length: 2890.00 ft      Total Volume: 40.967 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: TrLCM  
RW=.301@50F

### Pressure vs. Time



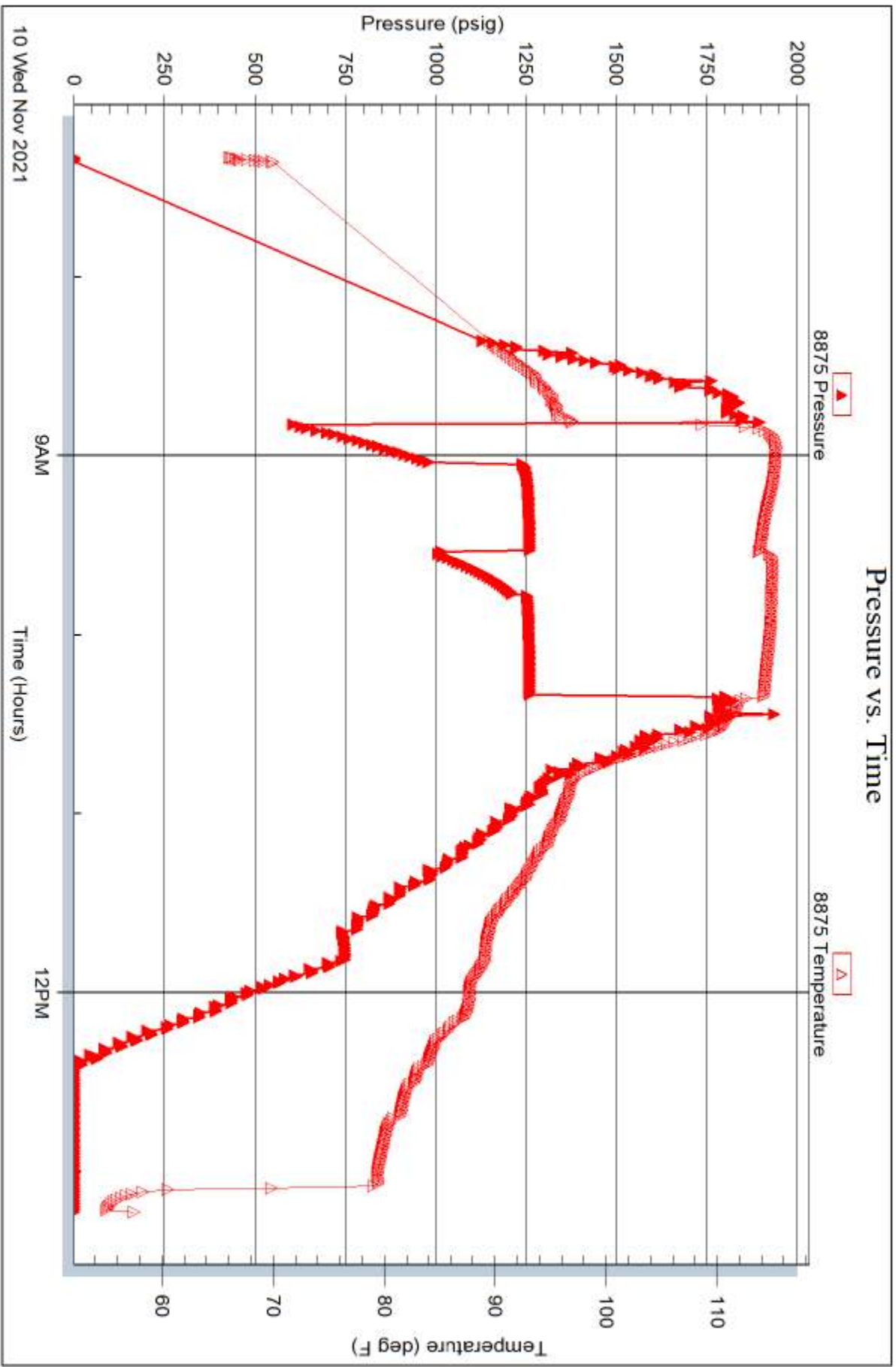


Serial #: 8875

Outside Mai Oil Operations Inc

Katie Pundsack #3

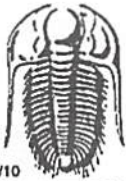
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68321

Printed: 2021.11.11 @ 16:38:54



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68317

Well Name & No. Katie Pondsack #3 Test No. 1 Date 11/7/2021  
 Company Main Oil Operations Inc Elevation 1921 KB 1911 GL  
 Address 8411 Preston Rd STE 800 Dallas Tx 75225-5520  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #3  
 Location: Sec. 19 Twp 21s Rge. 13w Co. Stafford State KS

Interval Tested 3394' - 3456' Zone Tested Lans  
 Anchor Length 62' Drill Pipe Run 3400' Mud Wt. 9.5  
 Top Packer Depth 3389' Drill Collars Run - Vis 40  
 Bottom Packer Depth 3394' Wt. Pipe Run - WL 10.0  
 Total Depth 3456' Chlorides 5400 ppm System LCM Er

Blow Description 17- GTS 2mins; gauged; could turn tool for 10 mins  
18- Very Weak Surface  
77- GTS; gauged  
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
150	GLWC M	30	10	60	

Rec Total 150' BHT 100° Gravity - API RW 153 @ 68 °F Chlorides 52500 ppm

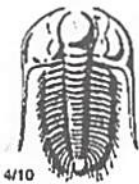
(A) Initial Hydrostatic 1679  Test 1300 T-On Location 11:00  
 (B) First Initial Flow 414  Jars \_\_\_\_\_ T-Started 12:35  
 (C) First Final Flow 258  Safety Joint \_\_\_\_\_ T-Open 14:18  
 (D) Initial Shut-In 899  Circ Sub \_\_\_\_\_ T-Pulled 17:13  
 (E) Second Initial Flow 312  Hourly Standby \_\_\_\_\_ T-Out 19:17  
 (F) Second Final Flow 252  Mileage 158.77 76rt 95 Comments tool landed 25' up  
 (G) Final Shut-In 895  Sampler \_\_\_\_\_ slid 10' throughout  
 (H) Final Hydrostatic 1708  Straddle \_\_\_\_\_ entire test

Initial Open 30 → 40  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 0  Accessibility \_\_\_\_\_ Sub Total 1395  
 Sub Total 1395 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. [Signature] Thanks!  
 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.

785-259-0056





# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68318**

Well Name & No. Glacie Pundsack #3 Test No. 2 Date 11/08/2021  
 Company Man Oil Operations Inc Elevation 1921 KB 1911 GL  
 Address 8411 Preston Rd SWE 800 Dallas TX 75225+5320  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #3  
 Location: Sec. 19 Twp 214 Rge. 13w Co. Stafford State KS

Interval Tested 3480'-3496' Zone Tested LHC #4  
 Anchor Length ~~16'~~ 16' Drill Pipe Run 3484' Mud Wt. 9.5  
 Top Packer Depth 3475' Drill Collars Run - Vis 40  
 Bottom Packer Depth 3480' Wt. Pipe Run - WL 100  
 Total Depth 3496 Chlorides 5400 ppm System LCM Cr

Blow Description D7 - Surface to 6 1/2"  
DSJ - No Return  
F7 - Surface to 4 1/2"  
FSJ - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>HMCO</u>	<u>70</u>		<u>30</u>	
<u><del>30</del></u>	<u>300 GTR</u>	<u>100</u>			

Rec Total 40' BHT 101° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1713  
 (B) First Initial Flow 20  
 (C) First Final Flow 22  
 (D) Initial Shut-In 156  
 (E) Second Initial Flow 18  
 (F) Second Final Flow 25  
 (G) Final Shut-In 203  
 (H) Final Hydrostatic 1652

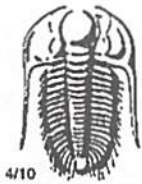
Test 1300  
 Jars \_\_\_\_\_  
 Safety Joint \_\_\_\_\_  
 Circ Sub \_\_\_\_\_  
 Hourly Standby \_\_\_\_\_  
 Mileage 15527 95  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1395

T-On Location 01:22  
 T-Started 02:05  
 T-Open 03:33  
 T-Pulled 06:33  
 T-Out 08:00  
 Comments \_\_\_\_\_  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1395  
 MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Spencer J. [Signature]  
 Tribolite 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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68319

Well Name & No. Katie Pundrack #3 Test No. 3 Date 11/09/2021  
 Company Mai Oil Operations Inc Elevation 1921 KB 1911 GL  
 Address 8411 Preston Rd STE 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #3  
 Location: Sec. 19 Twp 21S Rge. 13W Co. Stafford State Ks

Interval Tested 3650' - 3713' Zone Tested Arbuckle  
 Anchor Length 63' Drill Pipe Run 3641' Mud Wt. 9.2  
 Top Packer Depth 3645' Drill Collars Run - Vls 52  
 Bottom Packer Depth 3650' Wt. Pipe Run - WL 8.0  
 Total Depth 3713' Chlorides 6200 ppm System LCM 1#

Blow Description 77-Surface to 6.75"  
DSJ - No Return

77-Surface to 4"  
78-Surface to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>100'</u>	<u>GMD</u>	<u>5</u>	<u>45</u>	<u>50</u>	
<u>60</u>	<u>G10</u>	<u>10</u>	<u>90</u>		
	<u>100' GTP</u>	<u>100</u>			

Rec Total 160' BHT 107° Gravity 27° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1824  Test 1300 T-On Location 03:44  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 04:37  
 (C) First Final Flow 44  Safety Joint \_\_\_\_\_ T-Open 06:16  
 (D) Initial Shut-In 1218  Circ Sub \_\_\_\_\_ T-Pulled 09:31  
 (E) Second Initial Flow 55  Hourly Standby \_\_\_\_\_ T-Out 11:14  
 (F) Second Final Flow 71  Mileage 15827 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 1219  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1809  Straddle \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 1395  Accessibility \_\_\_\_\_ Sub Total 0  
 Total 1395 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James J. [Signature] Thanks!  
 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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68320

Well Name & No. Katie Pundsack #3 Test No. 4 Date 11/09/2021  
 Company Mai Oil Operations Inc Elevation 1921 KB 1911 GL  
 Address 8411 Preston Rd STE 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Jim Musgrove Rig Southern #3  
 Location: Sec. 19 Twp 21A Rge. 13W Co. Stafford State Ks

Interval Tested 3717' - 3727' Zone Tested Arbuckle  
 Anchor Length 10' Drill Pipe Run 3703' Mud Wt. 9.5  
 Top Packer Depth 3712' Drill Collars Run - Vis 46  
 Bottom Packer Depth 3717' Wt. Pipe Run - WL 11.6  
 Total Depth 3727' Chlorides 6400 ppm System LCM Zr

Blow Description 17-Surface to BOB in 3 min; Built to 46"  
1SD - No Return  
77-Surface to BOB in 4 min; Built to 71"  
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
415'	GMCW	10	86	10	
700'	GO	5	95		
	30' GTP	100			

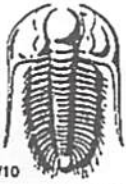
Rec Total 1115' BHT 115° Gravity 26 API RW .321 @ 41 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 2037  Test 1300 T-On Location 17:25  
 (B) First Initial Flow 131  Jars \_\_\_\_\_ T-Started 18:07  
 (C) First Final Flow 224  Safety Joint \_\_\_\_\_ T-Open 19:36  
 (D) Initial Shut-In 1258  Circ Sub \_\_\_\_\_ T-Pulled 21:21  
 (E) Second Initial Flow 222  Hourly Standby \_\_\_\_\_ T-Out 01:05  
 (F) Second Final Flow 499  Mileage 15817 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 1255  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1834  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1395  
 Sub Total 1395 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. Jacob Thanks!  
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785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68321**

Well Name & No. Hattie Pundsack #3 Test No. 5 Date 11/10/2021  
 Company Mai Oil Operations Inc Elevation 1921 KB 1911 GL  
 Address 8411 Preston Rd STE 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #3  
 Location: Sec. 19 Twp 21s Rge. 13w Co. Stafford State TX

Interval Tested 3732-3742' Zone Tested Arbuckle  
 Anchor Length 10' Drill Pipe Run 3736' Mud Wt. 9.5  
 Top Packer Depth 3727' Drill Collars Run - Vls 46  
 Bottom Packer Depth 3732' Wt. Pipe Run - WL 11.6  
 Total Depth 3742 Chlorides 6400 ppm System LCM Tr

Blow Description 17-BOB 30 secs; Built to 329"  
1SD - Very Weak Surface; Died in 5 min  
47-BOB 10 secs; Built to 235"  
7SD - Weak Surface; Died in 10 min

Rec	Feet of	%gas	%oil	%water	%mud
1860	Feet of GW	5	95		
300'	Feet of GVSOCW	10	88		
730	Feet of GHOCW	10	70		
	Feet of 90' GTP	100			
	Feet of	%gas	%oil	%water	%mud

Rec Total 2890 BHT 1140 Gravity 27° API RW 301 @ 50° F Chlorides 34,000 ppm

(A) Initial Hydrostatic 1842  Test 1300 T-On Location 06:20  
 (B) First Initial Flow 584  Jars \_\_\_\_\_ T-Started 07:20  
 (C) First Final Flow 984  Safety Joint \_\_\_\_\_ T-Open 08:47  
 (D) Initial Shut-In 1262  Circ Sub \_\_\_\_\_ T-Pulled 10:17  
 (E) Second Initial Flow 1001  Hourly Standby \_\_\_\_\_ T-Out 13:12  
 (F) Second Final Flow 1214  Mileage 155R7x2 190 Comments 5 days in hotel  
 (G) Final Shut-In 1261  Sampler \_\_\_\_\_ loaded @ 20:00  
 (H) Final Hydrostatic 1803  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_

Initial Open 15  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 0  
 Accessibility \_\_\_\_\_ Total 1490  
 Sub Total 1490 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. [Signature]  
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785-259-0056

**JAMES C. MUSGROVE**

Petroleum Geologist, LLC

212 Main Street

P.O. Box 215

Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 786-0839

Mai Oil Operations, Inc.  
Katie Pundsack #3  
NE-SW-NW-SE (1946' FSL & 2164' FEL)  
Section 19-21s-13w  
Stafford County, Kansas

Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (rig #1)  
**Commenced:** November 2, 2021  
**Completed:** November 11, 2021  
**Elevation:** 1921' K.B., 1919' D.F., 1911' G.L.  
**Casing program:** Surface; 8 5/8" @ 801  
Production, 5 1/2" @ 3819'  
**Sample:** Samples saved and examined 3000' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 3000' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were five (5) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Eli; Dual Induction, Compensated Density/Neutron Log, and Micro and Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	812	+1109
Base Anhydrite	831	+1090
Heebner	3238	-1317
Toronto	3256	-1335
Douglas	3274	-1353
Brown Lime	3358	-1437
Lansing	3369	-1448
Base Kansas City	3588	-1667
Conglomerate	3622	-1701
Viola	3644	-1723
Simpson Shale	3665	-1744
Simpson Sand	3684	-1763
Arbuckle	3717	-1796
Rotary Total Depth	3820	-1899
Log Total Depth	3822	-1901

(All tops and zone(s) corrected to Electric Log Measurements)

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TORONTO SECTION**

3256-3268' Limestone, tan, gray, finely oolitic, fossiliferous, granular in part, no shows, with white chalk.



**LANSING SECTION**

- 3373-3379' Limestone, gray, white, fossiliferous, chalky, poor visible porosity; no shows.
- 3391-3394' Limestone, white and gray, oolitic, sub-oomoldic, chalky, trace spotted brown stain, no show of free oil and faint odor in fresh samples.
- 3398-3402' Limestone, white, gray, fossiliferous, oolitic, chalky, poor visible porosity, gray and black stain, no free oil and questionable odor in fresh samples.
- 3414-3420' Limestone, as above.
- 3438-3444' Limestone, gray, oolitic, chalky in part, fair porosity, gray and brown stain, trace of free oil and faint odor in fresh samples.
- 3451-3461' Limestone, gray, tan, oolitic, fossiliferous, fair fossil cast and vuggy type porosity, fair to good brown to black stain and saturation, show of free oil and faint odor.

**Drill Stem Test #1** **3394-3456**  
**(Log Measurements 3399-3461)**

**Times:** 40-30-45-60

**Blow:** Strong; gas to surface 2 minutes;  
 Gas gauged as follows:

<b>Initial Flow:</b> 20 mins.	1,305,196 cfgpd
25 mins.	1,161,452 cfgpd
30 mins.	1,132,703 cfgpd

<b>2<sup>nd</sup> Opening:</b> 5 mins.	1,161,452 cfgpd
10 mins.	1,190,201 cfgpd
20 mins.	1,218,950 cfgpd
30 mins.	1,218,950 cfgpd
40 mins.	1,190,201 cfgpd

**Recovery:** 150' gas cut watery mud  
 (30% gas; 10% water; 60% mud)

**Pressures:**

ISIP	899	psi
FSIP	895	psi
IFP	414-258	psi
FFP	312-252	psi
HSH	1679-1708	psi

- 3466-3480' Limestone, gray, white, fossiliferous, chalky; no shows.
- 3493-3503' Limestone, white, gray; oomoldic, good oomoldic porosity; good dark brown stain and saturation (100% stain and saturated in 30-50% of the cuttings), good show of free oil and good odor in fresh samples.

**Drill Stem Test #2** **3480-3496'**  
(Log Measurements 3485-3501)

**Times:** 45-30-45-60

**Blow:** Fair (6 1/2 inches)  
**2<sup>nd</sup> Opening:** Fair (4 1/2 inches)

**Recovery:** 300' gas in pipe  
40' muddy oil  
(70% oil; 30% mud)

**Pressures:** ISIP 156 psi  
FSIP 203 psi  
IFP 20-22 psi  
FFP 18-25 psi  
HSH 1713-1652 psi

- 3514-3520' Limestone, white, gray, oolitic, chalky, poor visible porosity; spotty brown stain, no free oil and no odor in fresh samples.
- 3532-3540' Limestone, white, gray, oomoldic; slightly fossiliferous, scattered porosity; trace brown stain, weak show of free oil and no odor in fresh samples.
- 3556-3564' Limestone, white, gray, cream, oolitic, slightly chalky; poor visible porosity; brown and light brown spotted stain, no free oil and no odor in fresh samples.
- 3580-3586' Limestone, white, gray, cream, slightly cherty; (dense)

**VIOLA SECTION**

- 3644-3665' Chert, white, boney; with gray semi-tripolitic chert; fair pinpoint to fine vuggy porosity, dark brown stain, trace of free oil and questionable odor.

**SIMPSON SECTION**

- 3684-3694' Sand, clear; white, quartzitic; sub-rounded, fair sorting; friable; fair inter-granular porosity, brown and golden brown stain, trace of free oil and faint odor.

**ARBUCKLE SECTION**

- 3716-3719' Dolomite, tan; fine and medium crystalline, fair inter-crystalline and fine vuggy type porosity, good dark brown to light brown stain and saturation; fair show of free oil and fair odor in fresh samples.

**Drill Stem Test #3** **3650-3713'**  
**(Log Measurements 3656-3719)**

**Times: 45-45-45-60**

**Blow: Weak built to 6 ¾ inches**  
**2<sup>nd</sup> Opening: Weak built to 4 inches**

**Recovery: 100' gas in pipe**  
**60' clean gassy oil**  
**100' muddy gassy oil**  
**(5% gas; 45% oil; 50% mud)**

**Pressures: ISIP 1218 psi**  
**FSIP 1219 psi**  
**IFP 17-44 psi**  
**FFP 55-71 psi**  
**HSH 1824-1809 psi**

3724-3733'

Dolomite, tan, fine crystalline; sucrosic, good pinpoint to fine vuggy type porosity; good dark brown stain and saturation; good show of free oil and fair odor in fresh samples.

**Drill Stem Test #4** **3717-3727**  
**(Log Measurements 3723-3733)**

**Times: 15-30-30-30**

**Blow: Strong (b.o.b. 3 mins)**  
**2<sup>nd</sup> Opening: Strong (b.o.b. 4 mins)**

**Recovery: 30' gas in pipe**  
**700' clean oil**  
**415' muddy water**

**Pressures: ISIP 1258 psi**  
**FSIP 1255 psi**  
**IFP 131-224 psi**  
**FFP 222-499 psi**  
**HSH 2037-1834 psi**

3742-3748'

Dolomite, gray, white, oomoldic, fair to oomoldic and vuggy type porosity, good dark brown stain and saturation; good show of free oil and good odor in fresh samples.

**Drill Stem Test #5** **3732-3742**  
**(Log Measurements 3738-3748)**

**Times: 15-30-15-30**

**Blow: Strong (b.o.b. 30 secs)**  
**2<sup>nd</sup> Opening: Strong (b.o.b. 10 secs)**

**Recovery: 90' gas in pipe**  
**730'' oil and gas cut water**  
**(10% gas; 20% oil; 70% water)**  
**300' very slightly oil and gas cut water**  
**(2% oil; 10% gas; 88% water)**  
**1860' gassy water**  
**(5% gas; 95% water)**

Mai Oil Operations, Inc.  
Katie Pundsack #3  
NE-SW-NW-SE (1946' FSL & 2164' FEL)  
Section 19-21s-13w  
Stafford County, Kansas

Page 5

<b>Pressures:</b>	<b>ISIP</b>	<b>1262</b>	<b>psi</b>
	<b>FSIP</b>	<b>1261</b>	<b>psi</b>
	<b>IFP</b>	<b>584-984</b>	<b>psi</b>
	<b>FFP</b>	<b>1001-1214</b>	<b>psi</b>
	<b>HSH</b>	<b>1842-1803</b>	<b>psi</b>

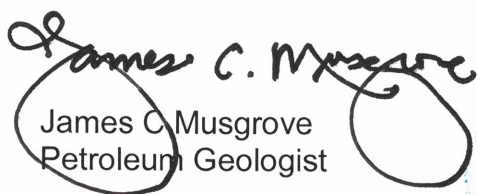
3751-3777'	Dolomite, gray, cream, white, fine and medium crystalline, fair inter-crystalline porosity, black and brown stain and saturation, show of free oil (heavy black) dead appearing; and faint odor in fresh samples.
3778-3793'	Dolomite, white, medium crystalline, good inter-crystalline porosity; black tarry stain, show of free oil (black, tarry, heavy dead) and fair odor in fresh samples.
3793-3810'	Dolomite, white, gray, finely oomoldic, sucrosic in part; trace black stain, trace of free oil (dead) and faint odor in fresh samples.
3810-3822'	Dolomite, white, gray, fine crystalline, sucrosic, few cherty, scattered porosity; with chert; gray, boney and white chalk.

**Rotary Total Depth: 3820**  
**Log Total Depth: 3822**

**Recommendations:**

5 1/2" production casing was set and cemented on the Mai Operations Oil Inc., Katie Pundsack #3.

Respectfully yours,

  
James C. Musgrove  
Petroleum Geologist





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraitel.net

Date: 11/3/2021  
 Invoice # 2476  
 P.O.#:  
 Due Date: 12/3/2021  
 Division: Russell

# Invoice

**Contact:**  
 Mai Oil Operations  
**Address/Job Location:**

8411 Preston Rd. Ste 800  
 Dallas TX 75225-5520

**Reference:**  
 KATIE PUNDSACK 3 SEC 19-21-13

**Description of Work:**  
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 702.76	No				
Common-Class A	288	\$ 4,673.10	Yes				
POZ Mix-Standard	192	\$ 1,058.63	Yes				
Calcium Chloride	21	\$ 926.30	Yes				
Flo Seal	250	\$ 393.84	Yes				
Bulk Truck Matl-Material Service Charge	509	\$ 400.92	No				
Premium Gel (Bentonite)	8	\$ 182.74	Yes				
8 5/8" Top Rubber Plug	1	\$ 96.10	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 85.07	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 53.17	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 41.35	No				

**Invoice Terms:**

Net 30

	SubTotal: \$	8,613.97
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (215.35)
<hr/>		
	SubTotal for Taxable Items: \$	7,230.37
	SubTotal for Non-Taxable Items: \$	1,168.25
<hr/>		
	Total: \$	8,398.62
	Tax: \$	542.28
<hr/>		
	Amount Due: \$	8,940.90

7.50% Stafford County Sales Tax

**Applied Payments:**  
**Balance Due: \$ 8,940.90**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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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. 2476

Date	Sec.	Twp.	Range	County	State	On Location	Finish	
11/3/21	19	21	13	Stafford	Kansas		5:30pm	
Lease <i>Katie Pundsack</i>				Well No. <i>3</i>	Owner			
Contractor <i>Southwind Drilling</i>				To Quality Oilwell Cementing, Inc.				
Type Job <i>Surface</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. <i>799</i>		Charge To				
Csg. <i>8 5/8</i>		Depth <i>801</i>		Street <i>Mai Oil</i>				
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>39.64</i>		Shoe Joint <i>39.64</i>		Cement Amount Ordered <i>490' 40 4% cc 2% gel</i>				
Meas Line		Displace <i>48.4</i>		<i>1/2" flow</i>				
<b>EQUIPMENT</b>				Common <i>288</i>				
Pumptrk <i>16</i>		No. Cementer Helper <i>Rick</i>		Poz. Mix <i>192</i>				
Bulktrk <i>19</i>		No. Driver <i>Jordan</i>		Gel. <i>8</i>				
Bulktrk <i>pu</i>		No. Driver <i>David</i>		Calcium <i>21</i>				
<b>JOB SERVICES &amp; REMARKS</b>				Hulls				
Remarks:				Salt				
Rat Hole				Flowseal <i>250#</i>				
Mouse Hole				Kol-Seal				
Centralizers				Mud CLR 48				
Baskets				CFL-117 or CD110 CAF 38				
D/V or Port Collar				Sand				
<i>Ran 8 5/8 and est circulation</i>				Handling <i>509</i>				
<i>Cemented with 480 sks</i>				Mileage				
				<b>FLOAT EQUIPMENT</b>				
				Guide Shoe				
				Centralizer				
				Baskets				
				AFU Inserts				
<i>Cement Did Circulate</i>				Float Shoe				
				Latch Down				
				<i>1-Plug</i>				
				<i>1-Baffle plate</i>				
				Pumptrk Charge <i>Long Surface</i>				
				Mileage <i>15 (min)</i>				
<i>Frank J. Rowe</i>				Tax				
Signature				Discount				
				Total Charge				
				<i>Thanks</i>				



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 11/11/2021  
 Invoice # 2610

P.O.#:

Due Date: 12/11/2021

Division: *Russell*

# Invoice

**Contact:**  
 Mai Oil Operations  
**Address/Job Location:**

8411 Preston Rd. Ste 800  
 Dallas TX 75225-5520

**Reference:**  
 katie pundsack 3 sec 19-21-13

**Description of Work:**  
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 732.88	No	Pump Truck Mileage-Job to Nearest Camp	15	\$55.45	No
Common-Class A	110	\$ 1,861.36	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$43.13	No
Mud Clear	1000	\$ 1,199.29	Yes				
Gilsonite	800	\$ 985.71	Yes				
5 1/2" Turbolizer	14	\$ 828.00	Yes				
POZ Mix-Standard	70	\$ 402.50	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 276.00	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 218.50	Yes				
Salt (Fine)	15	\$ 161.41	Yes				
Bulk Truck Matl-Material Service Charge	206	\$ 169.21	No				
Premium Gel (Bentonite)	3	\$ 71.46	Yes				

SubTotal: \$ 7,004.90

**Invoice Terms:**

Net 30

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (175.12)

SubTotal for Taxable Items:	\$ 5,854.13
SubTotal for Non-Taxable Items:	\$ 975.65
<b>Total:</b>	<b>\$ 6,829.78</b>
<b>Tax:</b>	<b>\$ 512.24</b>

8.75% Sherman County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 7,342.02**  
**Applied Payments:**  
**Balance Due: \$ 7,342.02**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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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. 2610

Date	11-11-21	Sec.	19	Twp.	21	Range	13	County	Stafford	State	Ks	On Location		Finish	3:00 PM
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Lease: Katie Pundsack  
Location: Great Bend - 115 to 170 Rd, 2 1/2 W

Well No.	#3	Owner	N/Into
Contractor	Southwind #1	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.	

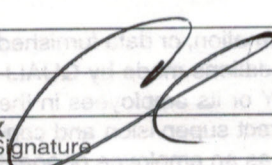
Type Job	Longstring	Charge To	Mai oil operations
Hole Size	7 7/8"	T.D.	3820'
Csg.	5 1/2" 14# used	Depth	3817.44"
Tbg. Size		Depth	
Tool		Depth	

Cement Left in Csg.	42.14'	Shoe Joint	42.14'	Cement Amount Ordered	180 60/40 10% Salt 2% Gel
Meas Line		Displace	92 BW	1/4# Flis seal	1000 gal mud Clear

EQUIPMENT			Common
Pumptrk	16	No. Cementer Helper David	110
Bulktrk	14	No. Driver Jordan	Poz. Mix 70
Bulktrk	p.u.	No. Driver Rick	Gel. 3
			Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt 15
Rat Hole	30 SX	Flowseal
Mouse Hole	20 SX	Kol-Seal 800 #
Centralizers	1-11, 13, 14, 16	Mud CLR 48 1000 GAL
Baskets	pipe on bottom break Circulation	GEL-117 or CD110 CAF 38
D/V or Port Collar	pump 1000 gal Mud Clear	Sand
Plug Rathole + Mousehole. Hook to 5 1/2" Casing + mix 130 SX Cement shut down wash pump + lines Released plug + Displaced w/ 92 BW H2O Released + held.		Handling 206
		Mileage

FLOAT EQUIPMENT	
Lift pressure	700#
Land plug to	1400#
Guide Shoe	
Centralizer	14
Baskets	
AFU Inserts	
Float Shoe	1
Latch Down	1

Pumptrk Charge	prod string	Tax	
Mileage	15	Discount	
		Total Charge	
<p>Thanks</p>			