

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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Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Wunsch #1
AP#: 15-095-22342
Location: Sec. 10 Twp. 3
License Number: 6236
Spud Date: 9/29/2021
Surface Coordinates: 960 FNL & 996 RML
Ground Elevation (ft): 1428'
Logged Interval (ft): 2900'
Formation: Ordovician (Simpson Shale) @ RTD
Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced @ 200'
Drilling Completed: 10/11/2021
Region: Kingman County

Company: MTM Petroleum, Inc.
Address: 2370 South State Road 14
PO Box 391
Kingman, KS 67608-0391
Operator: Gravity Oil, LLC
Address: 1418 N. Rock Road
Derby, KS 67033
316.765.4070
Geologist: Eli J. Felts
Company: Gravity Oil, LLC
Address: 1418 N. Rock Road
Derby, KS 67033
316.765.4070

Formation Tops

Formation	Top (ft)
HEEBER	3308 (1495)
LANSING	3048 (1489)
KANSAS CITY	2958 (1389)
HERNA	3022 (1427)
BIRKA	3758 (2227)
PRINCE	3829 (2298)
CHEROKEE	3905 (2374)
MESOSAGE	4007 (2477)
VIOLA	4460 (3029)
SMP SHALE	4530 (3099)
RD	4550 (3119)

LOG TOPS

Formation	Top (ft)
LANSING	2966 (1491)
KANSAS CITY	2920 (1389)
HERNA	3022 (1427)
BIRKA	3759 (2228)
CHEROKEE	3829 (2297)
MESOSAGE	3905 (2373)
VIOLA	4460 (3029)
SMP SHALE	4530 (3099)
RD	4550 (3119)

Drilling Report

Pickrel Drilling, Rig #10
Sammy Stangs & Son "Stand-It" Toolpushers

9/29/2021 MRT
9/30/2021 Finish RURT. Shut down for heavy rains
10/01/2021 Spud @ 12:30 PM
10/02/2021 VOC
10/03/2021 Drilling @ 1095'
10/04/2021 Drilling @ 1981'
10/05/2021 Drilling @ 2798'
Geologist on Location. Displace Mud @ 2900'.
10/06/2021 Drilling @ 3409'
10/07/2021 DST #1 @ 3700' (Mertha)
10/08/2021 Drilling @ 3814'
10/09/2021 Drilling @ 4098'
10/10/2021 DST #2 @ 4470' (Misener/Viola)
10/11/2021 DST #3 @ 4522' (Simpson Sand)
RTD @ 7:29 PM
10/12/2021 EUI Wireline (Logged 2 passes)
DST #4 (straddle after logs) @ 4550'
TH to Plug & Abandon.

Problems

Had ~15' fill on bottom @ 4470'. DST #2 sid to bottom.
Ran Button Bit from under surface to RTD. RCP missing teeth, otherwise good.
Heavy Rains made VS hard to keep up in system; tanks were spotted prior to DST #0, #4 & Logs. Gelled pm mud to save costs when applicable.

Pipe Setting

8.625" 23# set @ 208' KB w/ 220' (8020) Z/pac, 3%cc, 14#f Roc
No Production casing set on this wellbore.

Pressure Summary

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	192.25	112.0	Initial Hydro-static
1	25.20	111.72	Close To Flow (1)
16	81.68	114.36	Shut (H-1)
40	147.27	121.50	End Shut (H-1)
46	86.05	120.77	Open To Flow (2)
50	96.73	121.60	Close To Flow (2)
100	124.72	126.56	End Shut (H-2)
155	170.15	126.89	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
440.00	1M to 10 mud 90 water
442.00	1M to 10 mud 90 water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#1
Job Start: 2021.10.07 @ 10:22:00
ATN: B Felts

GENERAL INFORMATION

Formation: Herna
Deviated: No
Wellstop: No
Time Tool Opened: 13:03:32
Time Tool Closed: 17:48:00
Interval: 3603.89 ft (KB) to 3790.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8882
Press @ RunDepth: 216.71 psig @ 162.95 ft
Start Date: 2021.10.07

TEST COMMENT: IP: 15-095-22342, 1 1/2 min. Bull to 14"
IS: Blow back 2 min. 7"
FS: Blow back 1 min. 2"

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	192.25	112.0	Initial Hydro-static
1	25.20	111.72	Close To Flow (1)
16	81.68	114.36	Shut (H-1)
40	147.27	121.50	End Shut (H-1)
46	86.05	120.77	Open To Flow (2)
50	96.73	121.60	Close To Flow (2)
100	124.72	126.56	End Shut (H-2)
155	170.15	126.89	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
345.00	60% to 90% water
350.00	60% to 90% water
355.00	60% to 90% water
360.00	60% to 90% water
365.00	60% to 90% water
370.00	60% to 90% water
375.00	60% to 90% water
380.00	60% to 90% water
385.00	60% to 90% water
390.00	60% to 90% water
395.00	60% to 90% water
400.00	60% to 90% water
405.00	60% to 90% water
410.00	60% to 90% water
415.00	60% to 90% water
420.00	60% to 90% water
425.00	60% to 90% water
430.00	60% to 90% water
435.00	60% to 90% water
440.00	60% to 90% water
442.00	60% to 90% water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#2
Job Start: 2021.10.11 @ 06:08:00
ATN: B Felts

GENERAL INFORMATION

Formation: Misener Viola
Deviated: No
Wellstop: No
Time Tool Opened: 17:17:17
Time Tool Closed: 17:42:02
Interval: 4454.69 ft (KB) to 4470.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8872
Press @ RunDepth: 1458.92 psig @ 162.95 ft
Start Date: 2021.10.11

TEST COMMENT: IP: 15-095-22342, 1 1/2 min. Bull to 14"
IS: Blow back 2 min. 7"
FS: Blow back 1 min. 2"

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	225.87	125.04	Initial Hydro-static
1	192.25	124.50	Close To Flow (1)
17	96.74	144.40	Shut (H-1)
40	170.59	143.19	End Shut (H-1)
50	212.71	127.60	Open To Flow (2)
110	145.82	144.24	Shut (H-2)
140	172.91	143.38	End Shut (H-2)
146	214.12	143.93	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
245.00	60% to 90% water
250.00	60% to 90% water
255.00	60% to 90% water
260.00	60% to 90% water
265.00	60% to 90% water
270.00	60% to 90% water
275.00	60% to 90% water
280.00	60% to 90% water
285.00	60% to 90% water
290.00	60% to 90% water
295.00	60% to 90% water
300.00	60% to 90% water
305.00	60% to 90% water
310.00	60% to 90% water
315.00	60% to 90% water
320.00	60% to 90% water
325.00	60% to 90% water
330.00	60% to 90% water
335.00	60% to 90% water
340.00	60% to 90% water
345.00	60% to 90% water
350.00	60% to 90% water
355.00	60% to 90% water
360.00	60% to 90% water
365.00	60% to 90% water
370.00	60% to 90% water
375.00	60% to 90% water
380.00	60% to 90% water
385.00	60% to 90% water
390.00	60% to 90% water
395.00	60% to 90% water
400.00	60% to 90% water
405.00	60% to 90% water
410.00	60% to 90% water
415.00	60% to 90% water
420.00	60% to 90% water
425.00	60% to 90% water
430.00	60% to 90% water
435.00	60% to 90% water
440.00	60% to 90% water
442.00	60% to 90% water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#3
Job Start: 2021.10.12 @ 06:05:00
ATN: B Felts

GENERAL INFORMATION

Formation: Misener
Deviated: No
Wellstop: No
Time Tool Opened: 15:02:32
Time Tool Closed: 15:02:32
Interval: 4448.69 ft (KB) to 4470.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8872
Press @ RunDepth: 1811.92 psig @ 162.95 ft
Start Date: 2021.10.12

TEST COMMENT: IP: Weak surface flow
IS: No slow back
FS: No slow back

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	206.00	126.43	Initial Hydro-static
1	192.25	126.50	Close To Flow (1)
33	17.24	127.56	Shut (H-1)
40	62.25	132.79	Open To Flow (2)
45	90.65	134.51	Close To Flow (2)
115	145.58	136.89	End Shut (H-2)
140	205.52	132.04	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
230.00	60% to 90% water
235.00	60% to 90% water
240.00	60% to 90% water
245.00	60% to 90% water
250.00	60% to 90% water
255.00	60% to 90% water
260.00	60% to 90% water
265.00	60% to 90% water
270.00	60% to 90% water
275.00	60% to 90% water
280.00	60% to 90% water
285.00	60% to 90% water
290.00	60% to 90% water
295.00	60% to 90% water
300.00	60% to 90% water
305.00	60% to 90% water
310.00	60% to 90% water
315.00	60% to 90% water
320.00	60% to 90% water
325.00	60% to 90% water
330.00	60% to 90% water
335.00	60% to 90% water
340.00	60% to 90% water
345.00	60% to 90% water
350.00	60% to 90% water
355.00	60% to 90% water
360.00	60% to 90% water
365.00	60% to 90% water
370.00	60% to 90% water
375.00	60% to 90% water
380.00	60% to 90% water
385.00	60% to 90% water
390.00	60% to 90% water
395.00	60% to 90% water
400.00	60% to 90% water
405.00	60% to 90% water
410.00	60% to 90% water
415.00	60% to 90% water
420.00	60% to 90% water
425.00	60% to 90% water
430.00	60% to 90% water
435.00	60% to 90% water
440.00	60% to 90% water
442.00	60% to 90% water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#4
Job Start: 2021.10.12 @ 06:05:00
ATN: B Felts

GENERAL INFORMATION

Formation: Misener
Deviated: No
Wellstop: No
Time Tool Opened: 15:02:32
Time Tool Closed: 15:02:32
Interval: 4448.69 ft (KB) to 4470.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8872
Press @ RunDepth: 1811.92 psig @ 162.95 ft
Start Date: 2021.10.12

TEST COMMENT: IP: Weak surface flow
IS: No slow back
FS: No slow back

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	206.00	126.43	Initial Hydro-static
1	192.25	126.50	Close To Flow (1)
33	17.24	127.56	Shut (H-1)
40	62.25	132.79	Open To Flow (2)
45	90.65	134.51	Close To Flow (2)
115	145.58	136.89	End Shut (H-2)
140	205.52	132.04	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
230.00	60% to 90% water
235.00	60% to 90% water
240.00	60% to 90% water
245.00	60% to 90% water
250.00	60% to 90% water
255.00	60% to 90% water
260.00	60% to 90% water
265.00	60% to 90% water
270.00	60% to 90% water
275.00	60% to 90% water
280.00	60% to 90% water
285.00	60% to 90% water
290.00	60% to 90% water
295.00	60% to 90% water
300.00	60% to 90% water
305.00	60% to 90% water
310.00	60% to 90% water
315.00	60% to 90% water
320.00	60% to 90% water
325.00	60% to 90% water
330.00	60% to 90% water
335.00	60% to 90% water
340.00	60% to 90% water
345.00	60% to 90% water
350.00	60% to 90% water
355.00	60% to 90% water
360.00	60% to 90% water
365.00	60% to 90% water
370.00	60% to 90% water
375.00	60% to 90% water
380.00	60% to 90% water
385.00	60% to 90% water
390.00	60% to 90% water
395.00	60% to 90% water
400.00	60% to 90% water
405.00	60% to 90% water
410.00	60% to 90% water
415.00	60% to 90% water
420.00	60% to 90% water
425.00	60% to 90% water
430.00	60% to 90% water
435.00	60% to 90% water
440.00	60% to 90% water
442.00	60% to 90% water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#5
Job Start: 2021.10.12 @ 06:05:00
ATN: B Felts

GENERAL INFORMATION

Formation: Misener
Deviated: No
Wellstop: No
Time Tool Opened: 15:02:32
Time Tool Closed: 15:02:32
Interval: 4448.69 ft (KB) to 4470.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8872
Press @ RunDepth: 1811.92 psig @ 162.95 ft
Start Date: 2021.10.12

TEST COMMENT: IP: Weak surface flow
IS: No slow back
FS: No slow back

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	206.00	126.43	Initial Hydro-static
1	192.25	126.50	Close To Flow (1)
33	17.24	127.56	Shut (H-1)
40	62.25	132.79	Open To Flow (2)
45	90.65	134.51	Close To Flow (2)
115	145.58	136.89	End Shut (H-2)
140	205.52	132.04	Final Hydro-static

Recovery

Depth (ft)	Recovery (inches)
230.00	60% to 90% water
235.00	60% to 90% water
240.00	60% to 90% water
245.00	60% to 90% water
250.00	60% to 90% water
255.00	60% to 90% water
260.00	60% to 90% water
265.00	60% to 90% water
270.00	60% to 90% water
275.00	60% to 90% water
280.00	60% to 90% water
285.00	60% to 90% water
290.00	60% to 90% water
295.00	60% to 90% water
300.00	60% to 90% water
305.00	60% to 90% water
310.00	60% to 90% water
315.00	60% to 90% water
320.00	60% to 90% water
325.00	60% to 90% water
330.00	60% to 90% water
335.00	60% to 90% water
340.00	60% to 90% water
345.00	60% to 90% water
350.00	60% to 90% water
355.00	60% to 90% water
360.00	60% to 90% water
365.00	60% to 90% water
370.00	60% to 90% water
375.00	60% to 90% water
380.00	60% to 90% water
385.00	60% to 90% water
390.00	60% to 90% water
395.00	60% to 90% water
400.00	60% to 90% water
405.00	60% to 90% water
410.00	60% to 90% water
415.00	60% to 90% water
420.00	60% to 90% water
425.00	60% to 90% water
430.00	60% to 90% water
435.00	60% to 90% water
440.00	60% to 90% water
442.00	60% to 90% water

Drill Stem Test Report

MTM Petroleum, Inc. 10-395-4w Kingman, KS
Job Title: 6236 DST#6
Job Start: 2021.10.12 @ 06:05:00
ATN: B Felts

GENERAL INFORMATION

Formation: Misener
Deviated: No
Wellstop: No
Time Tool Opened: 15:02:32
Time Tool Closed: 15:02:32
Interval: 4448.69 ft (KB) to 4470.00 ft (KB) (TVB)
Total Depth: 4470.00 ft (KB) (TVD)
Well Diameter: 7.86 inches-40in Condition: Good

Serial #: 8872
Press @ RunDepth: 1811.92 psig @ 162.95 ft
Start Date: 2021.10.12

TEST COMMENT: IP: Weak surface flow
IS: No slow back
FS: No slow back

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Temp (deg F)	Annulation (log ft)
0	206.00	126.43	Initial Hydro-static
1	192.25	126.50	Close To Flow (1)
33	17.24	127.56	Shut (H-1)
40			

QUALITY WELL SERVICE, INC.

7789

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	10-1-21	Sec.	10	Twp.	36	Range	6	County	Kingman	State	KS	On Location	Finish
Lease	Wunsch	Well No.	1	Location									

Contractor	Pinkerton	Owner	To Quality Well Service, 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	Surface		
Hole Size	12 1/4	T.D.	208'
Csg.	8 5/8	Depth	208.86
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	20'	Shoe Joint	1000'
Meas Line		Displace	11.9
		Charge To	
		MTM Petroleum	
		Street	
		City	
		State	
The above was done to satisfaction and supervision of owner agent or contractor.			
		Cement Amount Ordered	
		220.8 85/20 246.1 75%	

EQUIPMENT			
Pumptrk	No.		Common
Bulktrk	No.		Poz. Mix
Bulktrk	No.		Gel.
Pickup	No.		Calcium

JOB SERVICES & REMARKS	
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38

Run 5 1/2" 8 5/8" + 208' pumptrk
up to 8 5/8" hole cemented with
in pump 1000' H2O mixed
and pumped 220.8 85/20 cement
32 cc H2O displaced with 1000' water
236 cc cement returned to pit
Surface 10'

FLOAT EQUIPMENT	
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	LMV
	Service Supervisor
	Pumptrk Charge
	Mileage

	Tax
	Discount
X Signature	Total Charge

QUALITY WELL SERVICE, INC.

7780

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Well No.		Location				
Contractor				Owner			
Type Job	T.D.			To Quality Well Service, Inc. 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	Depth		Charge To				
Csg.	Depth		Street				
Tbg. Size	Depth		City State				
Tool	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.	Displace		Cement Amount Ordered				
EQUIPMENT							
Pumptrk No.			Common				
Bulktrk No.			Poz. Mix				
Bulktrk No.			Gel.				
Pickup No.			Calcium				
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
				Sand			
				Handling			
				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			
Signature							



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS

Wunch #1

Job Ticket: 68297

DST#: 1

Test Start: 2021.10.07 @ 10:21:00

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:03:15

Time Test Ended: 17:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3683.00 ft (KB) To 3700.00 ft (KB) (TVD)

Reference Elevations: 1435.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

Serial #: 8652 Outside

Press@RunDepth: 210.71 psig @ 3684.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.10.07

End Date:

2021.10.07

Last Calib.:

2021.10.07

Start Time: 10:21:05

End Time:

17:39:59

Time On Btm:

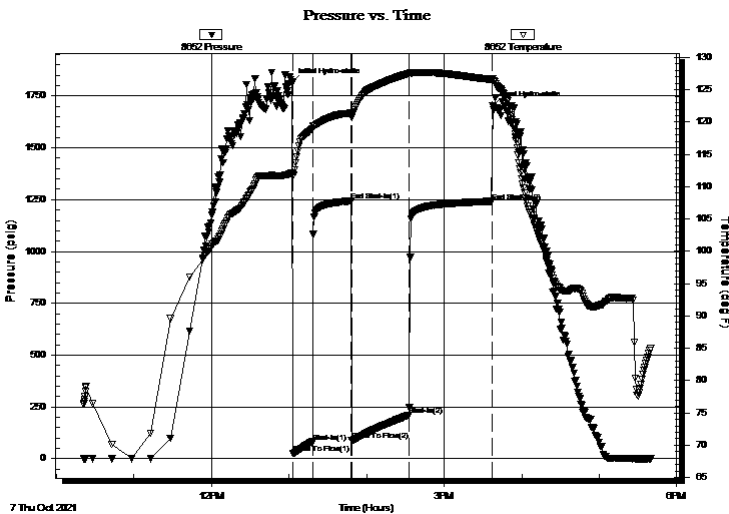
2021.10.07 @ 13:02:30

Time Off Btm:

2021.10.07 @ 15:37:30

TEST COMMENT: IF-15- BOB in 12 1/2 min., Built to 14"
SI1-30- No return
FF-45- BOB in 18 min., Built to 28 1/2"
SI2-60- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.23	112.10	Initial Hydro-static
1	25.20	111.72	Open To Flow (1)
16	81.88	118.95	Shut-In(1)
46	1242.47	121.38	End Shut-In(1)
46	88.05	120.77	Open To Flow (2)
91	210.71	127.48	Shut-In(2)
155	1241.72	126.56	End Shut-In(2)
155	1701.78	126.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
440.00	MW 10 mud 90 w ater	6.17

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS
Wunch #1
Job Ticket: 68297 **DST#: 1**
Test Start: 2021.10.07 @ 10:21:00

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:	7000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

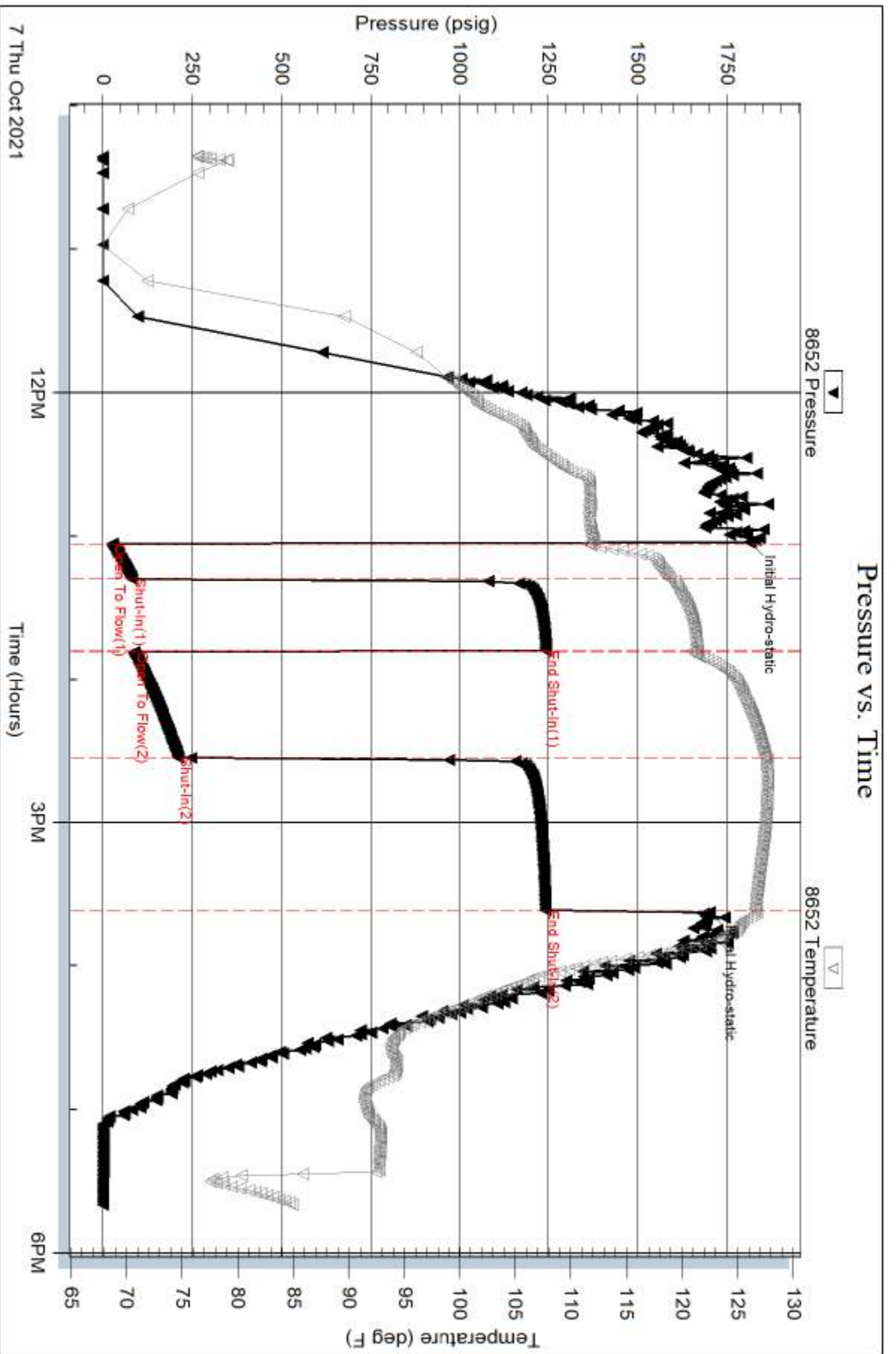
Length ft	Description	Volume bbl
440.00	MW 10 mud 90 w ater	6.172

Total Length: 440.00 ft Total Volume: 6.172 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 1# LCM



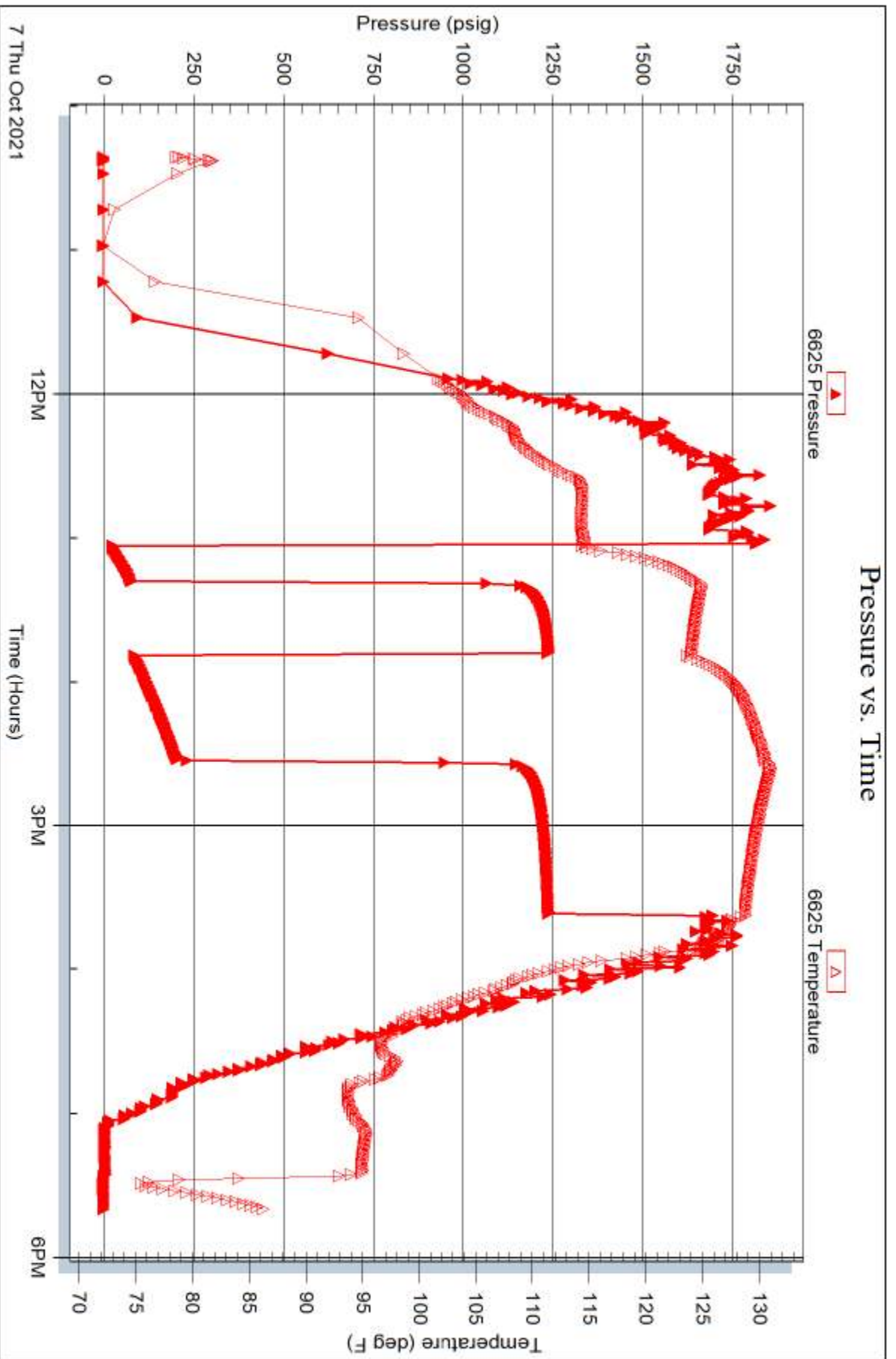
Serial #: 6625

Inside

MTM Petroleum, Inc.

Wunch #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68297

Printed: 2021.10.07 @ 20:00:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS

Wunch #1

Job Ticket: 67634

DST#: 2

Test Start: 2021.10.10 @ 09:08:00

GENERAL INFORMATION:

Formation: **Misener Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:27:17

Time Test Ended: 17:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4434.00 ft (KB) To 4470.00 ft (KB) (TVD)**

Reference Elevations: 1435.00 ft (KB)

Total Depth: 4470.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8672

Inside

Press@RunDepth: 1458.92 psig @ 4438.00 ft (KB)

Capacity: psig

Start Date: 2021.10.10

End Date:

2021.10.10

Last Calib.:

1899.12.30

Start Time: 09:08:01

End Time:

17:42:02

Time On Btm:

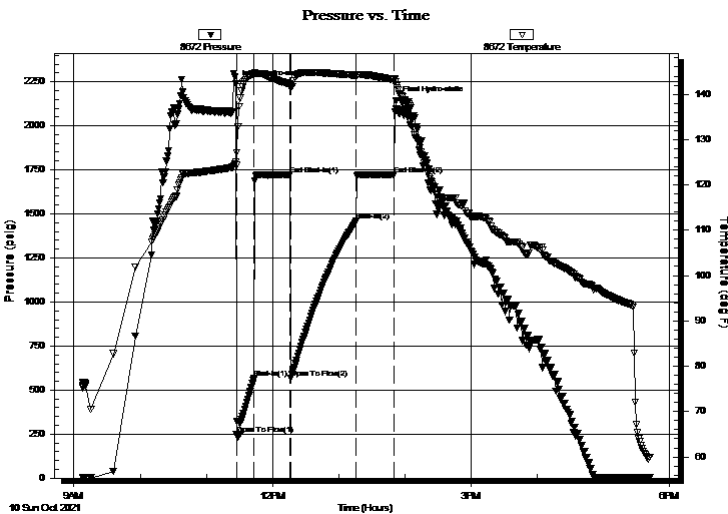
2021.10.10 @ 11:26:47

Time Off Btm:

2021.10.10 @ 13:52:17

TEST COMMENT: IF: BOB 2 min., 78 inches
IS: Blow back 2 min., 3 inches
FF: BOB 2 min., 440 inches
FS: Blow back 1 min., 2 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.87	125.04	Initial Hydro-static
1	247.73	124.30	Open To Flow (1)
17	567.14	144.40	Shut-In(1)
49	1720.59	142.19	End Shut-In(1)
50	566.79	141.47	Open To Flow (2)
110	1458.92	144.24	Shut-In(2)
143	1721.10	143.29	End Shut-In(2)
146	2144.10	141.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	gassy oily muddy w ater 10G,20,58W,30	14.42
189.00	gassy oil spotted muddy w ater 5G,90W,5	2.65
2646.00	gassy w ater 5%G,95%W	37.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS
Wunch #1
Job Ticket: 67634 **DST#: 2**
Test Start: 2021.10.10 @ 09:08:00

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:	8000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	gassy oily muddy w ater 10G,2O,58W,30M	4.419
189.00	gassy oil spotted muddy w ater 5G,90W,5M	2.651
2646.00	gassy w ater 5%G,95%W	37.116

Total Length: 3150.00 ft Total Volume: 44.186 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 378' GIP
RW=.360@63=8000ppm

Serial #: 8672

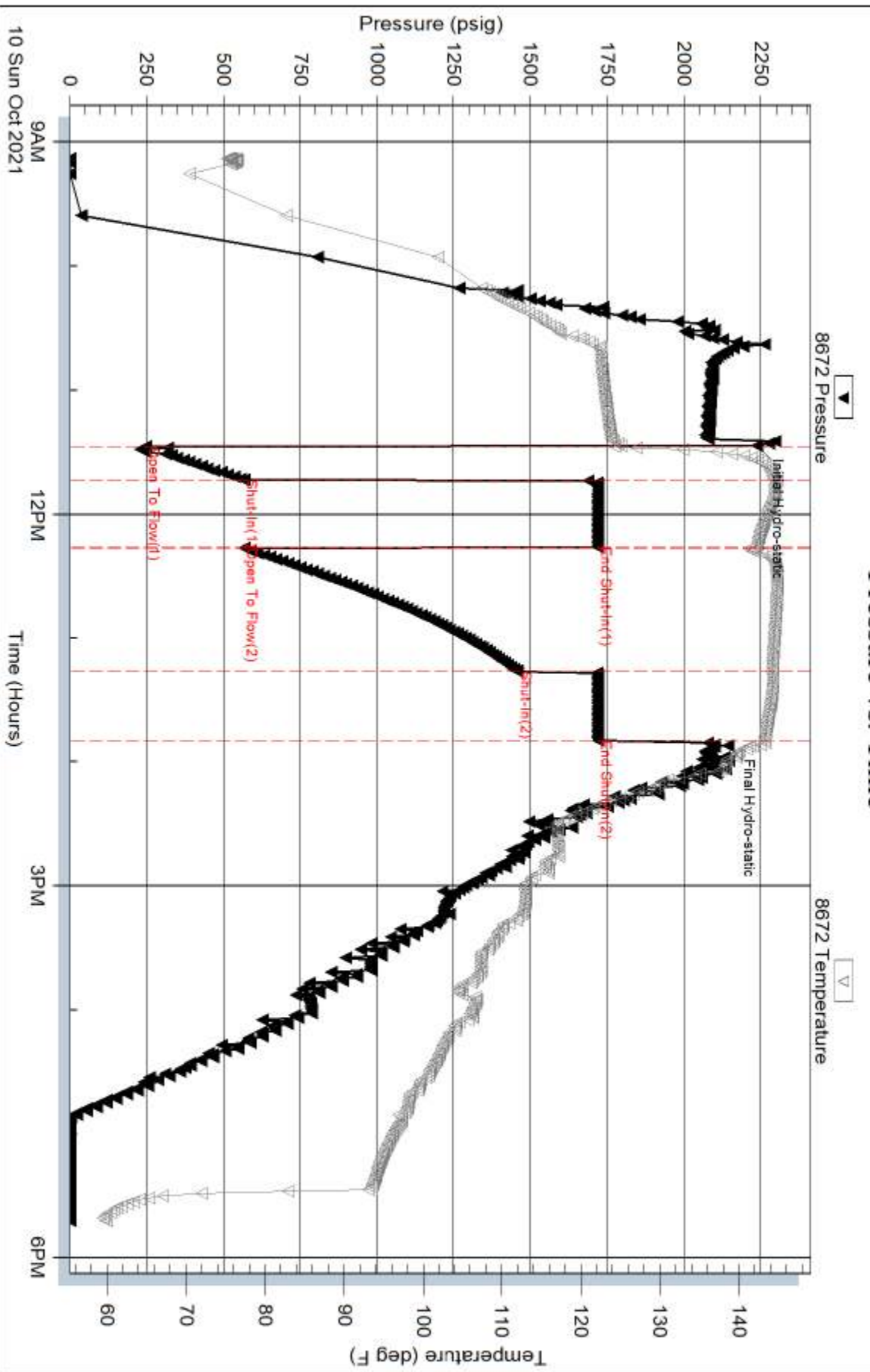
Inside

MTM Petroleum, Inc.

Wunch #1

DST Test Number: 2

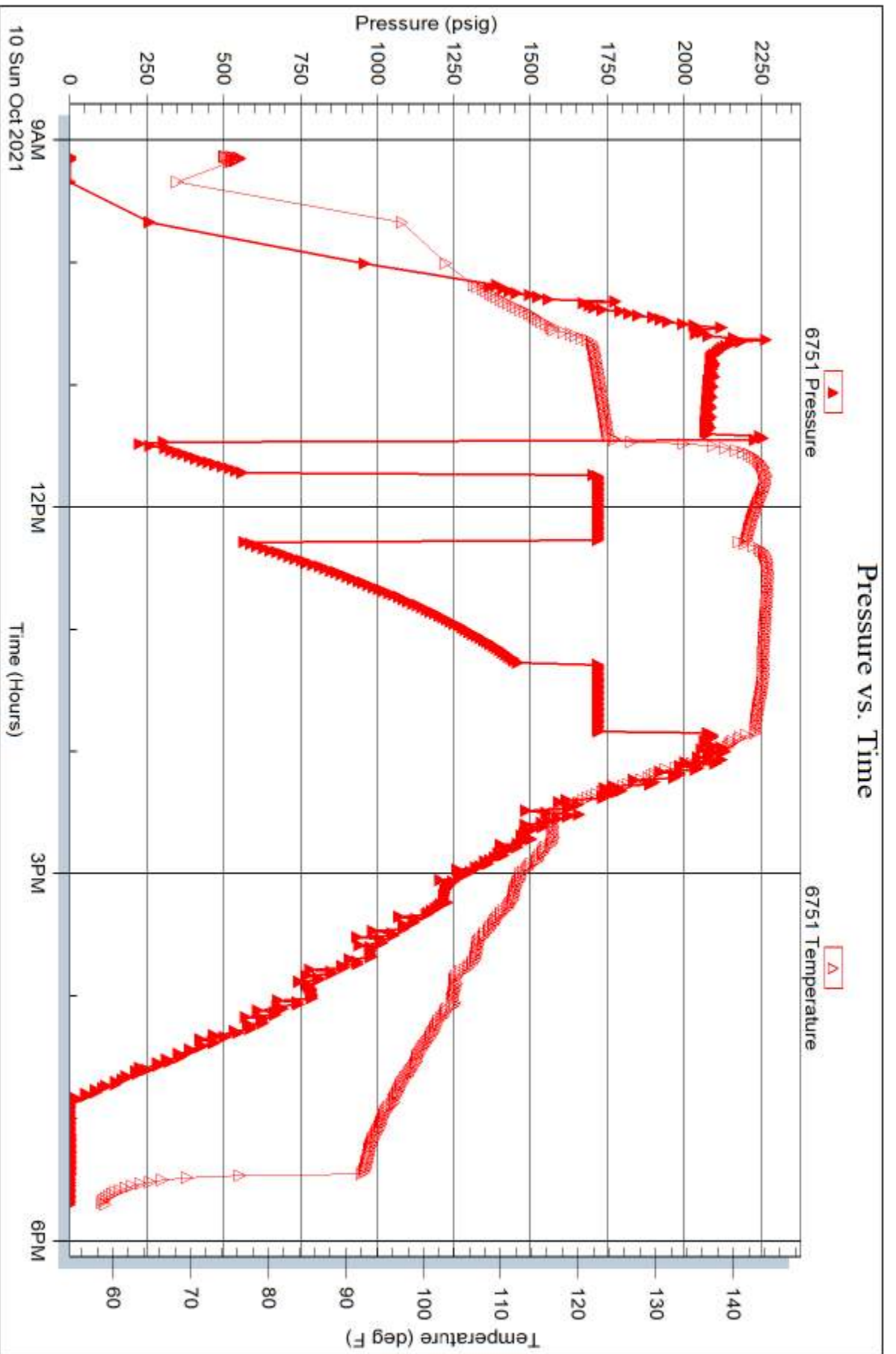
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67634

Printed: 2021.10.10 @ 19:11:24





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS

Wunch #1

Job Ticket: 67635

DST#: 3

Test Start: 2021.10.11 @ 06:35:00

GENERAL INFORMATION:

Formation: **Simpson Snd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:07:32

Time Test Ended: 13:29:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4495.00 ft (KB) To 4522.00 ft (KB) (TVD)

Reference Elevations: 1435.00 ft (KB)

Total Depth: 4522.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6751 Outside

Press@RunDepth: 90.68 psig @ 4499.00 ft (KB)

Capacity: psig

Start Date: 2021.10.11

End Date:

2021.10.11

Last Calib.: 1899.12.30

Start Time: 06:35:01

End Time:

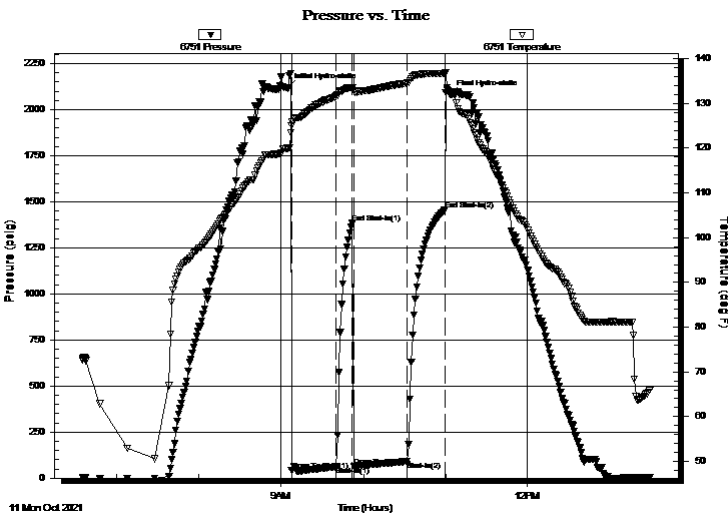
13:29:02

Time On Btm: 2021.10.11 @ 09:05:02

Time Off Btm: 2021.10.11 @ 11:03:32

TEST COMMENT: IF: Fair building blow , 6.7 inches
IS: No blow back
FF: Weak surface blow , died 2 min.
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.39	120.03	Initial Hydro-static
3	41.64	125.04	Open To Flow (1)
36	62.28	131.63	Shut-In(1)
47	1385.49	133.59	End Shut-In(1)
48	63.95	132.79	Open To Flow (2)
88	90.68	134.51	Shut-In(2)
115	1457.56	136.69	End Shut-In(2)
119	2080.30	132.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	muddy water 5%M, 95%W	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS
Wunch #1
Job Ticket: 67635 **DST#: 3**
Test Start: 2021.10.11 @ 06:35:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

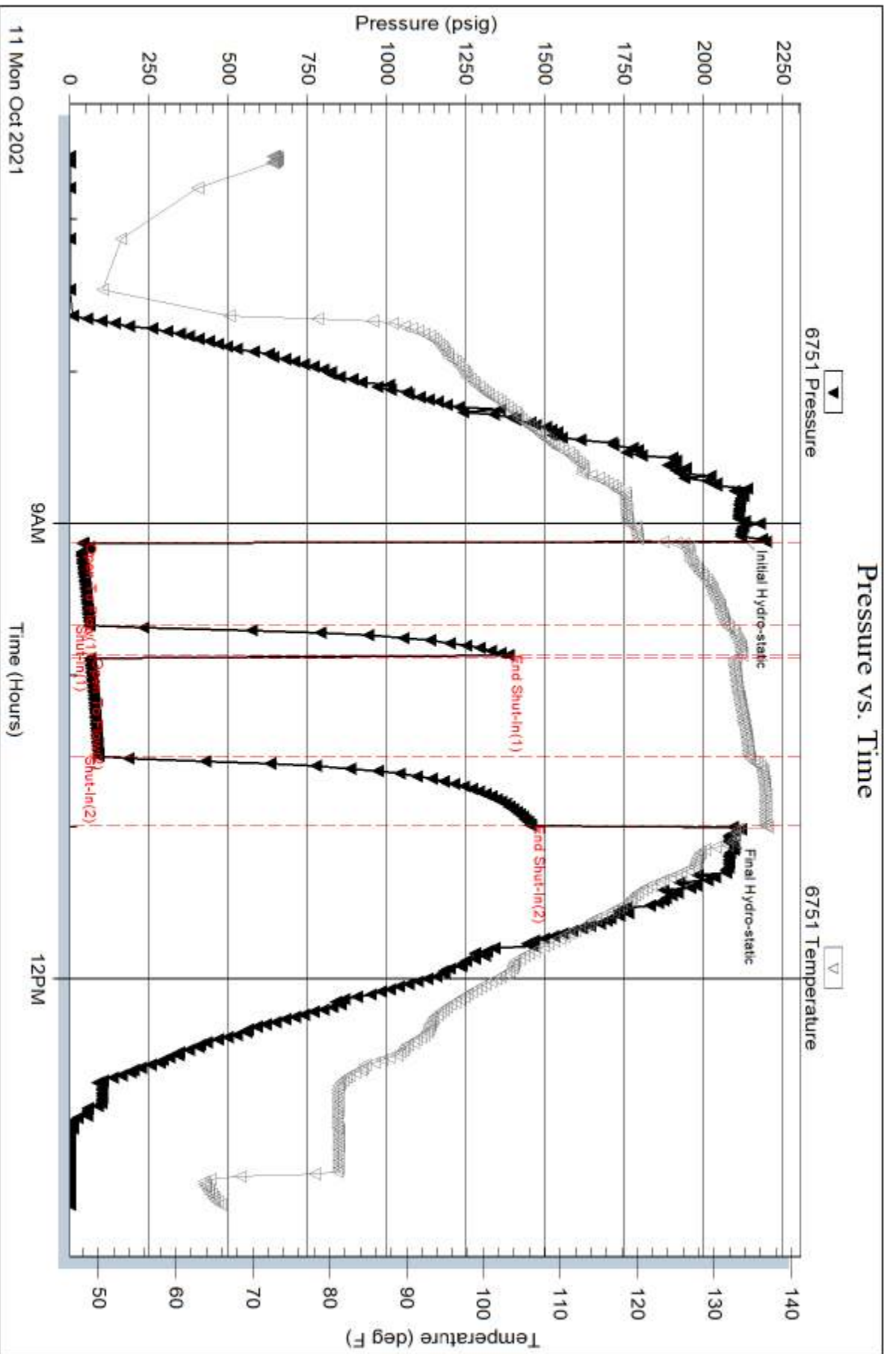
Length ft	Description	Volume bbl
125.00	muddy water 5%M, 95%W	1.753

Total Length: 125.00 ft Total Volume: 1.753 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW=.250@76F=26,000ppm

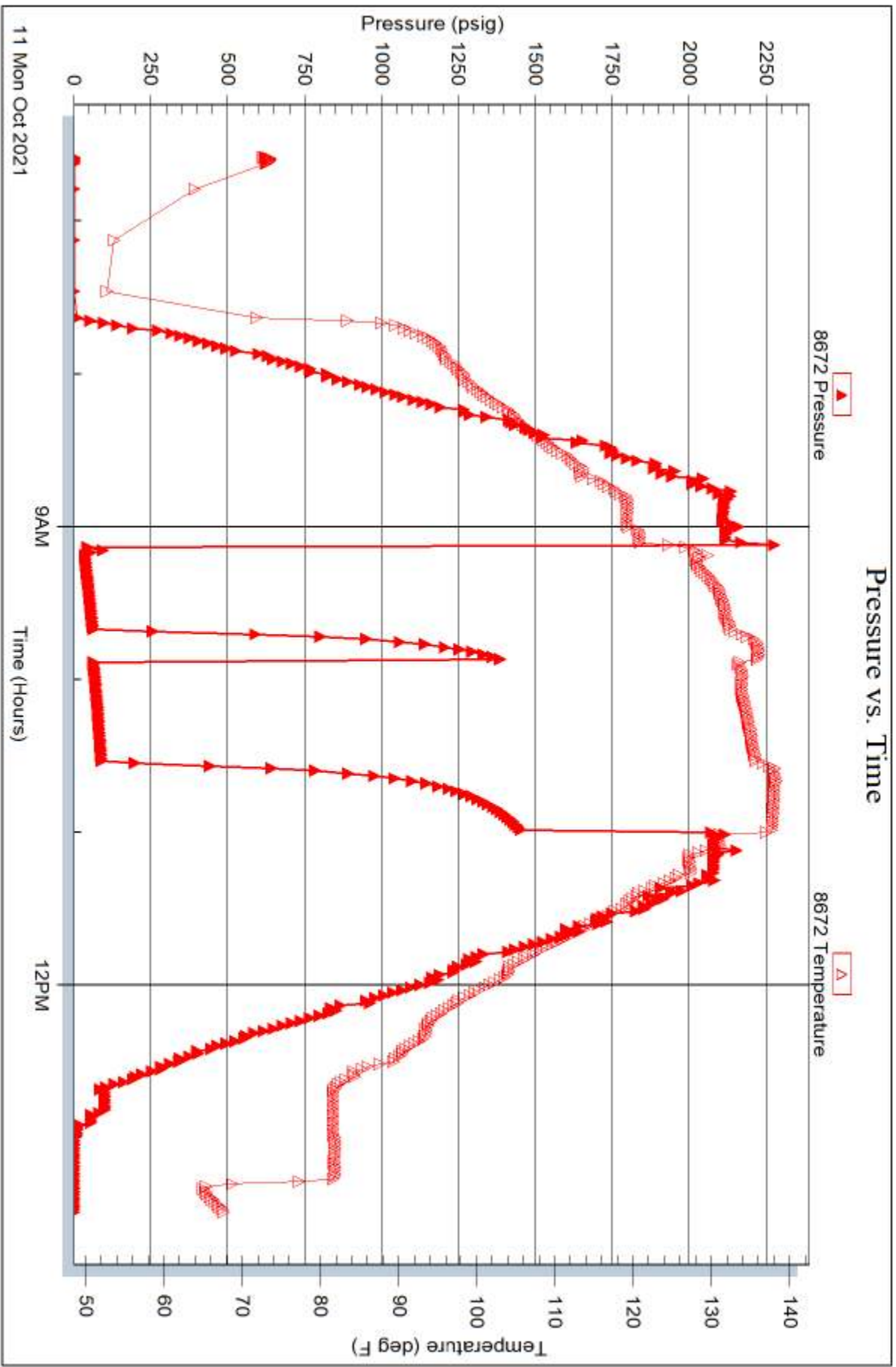


Serial #: 8672

MTM Petroleum, Inc.

Wunch #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67635

Printed: 2021.10.11 @ 14:44:14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS

Wunch #1

Job Ticket: 67636

DST#: 4

Test Start: 2021.10.12 @ 08:05:00

GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:07:32

Time Test Ended: 13:59:02

Test Type: Conventional Straddle (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4446.00 ft (KB) To 4456.00 ft (KB) (TVD)

Reference Elevations: 1435.00 ft (KB)

Total Depth: 4553.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8672 Inside

Press@RunDepth: 18.11 psig @ 4447.00 ft (KB)

Capacity: psig

Start Date: 2021.10.12

End Date:

2021.10.12

Last Calib.: 1899.12.30

Start Time: 08:05:01

End Time:

13:59:02

Time On Btm: 2021.10.12 @ 10:03:47

Time Off Btm: 2021.10.12 @ 11:27:32

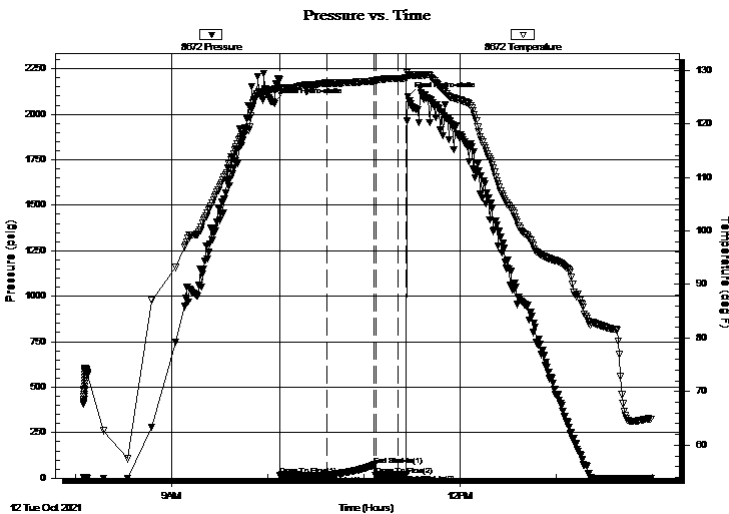
TEST COMMENT: IF: Weak surface blow

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.90	126.43	Initial Hydro-static
4	17.24	126.04	Open To Flow (1)
33	17.24	127.58	Shut-In(1)
63	72.89	127.98	End Shut-In(1)
64	16.92	128.10	Open To Flow (2)
78	18.11	128.43	Shut-In(2)
83	22.42	128.53	End Shut-In(2)
84	2095.92	129.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MTM Petroleum, Inc.
2370 South State Road 14
P.O. Box 391
Kingman, KS 67068
ATTN: Eli Felts

10_30_6 Kingman, KS
Wunch #1
Job Ticket: 67636 **DST#: 4**
Test Start: 2021.10.12 @ 08:05:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8672

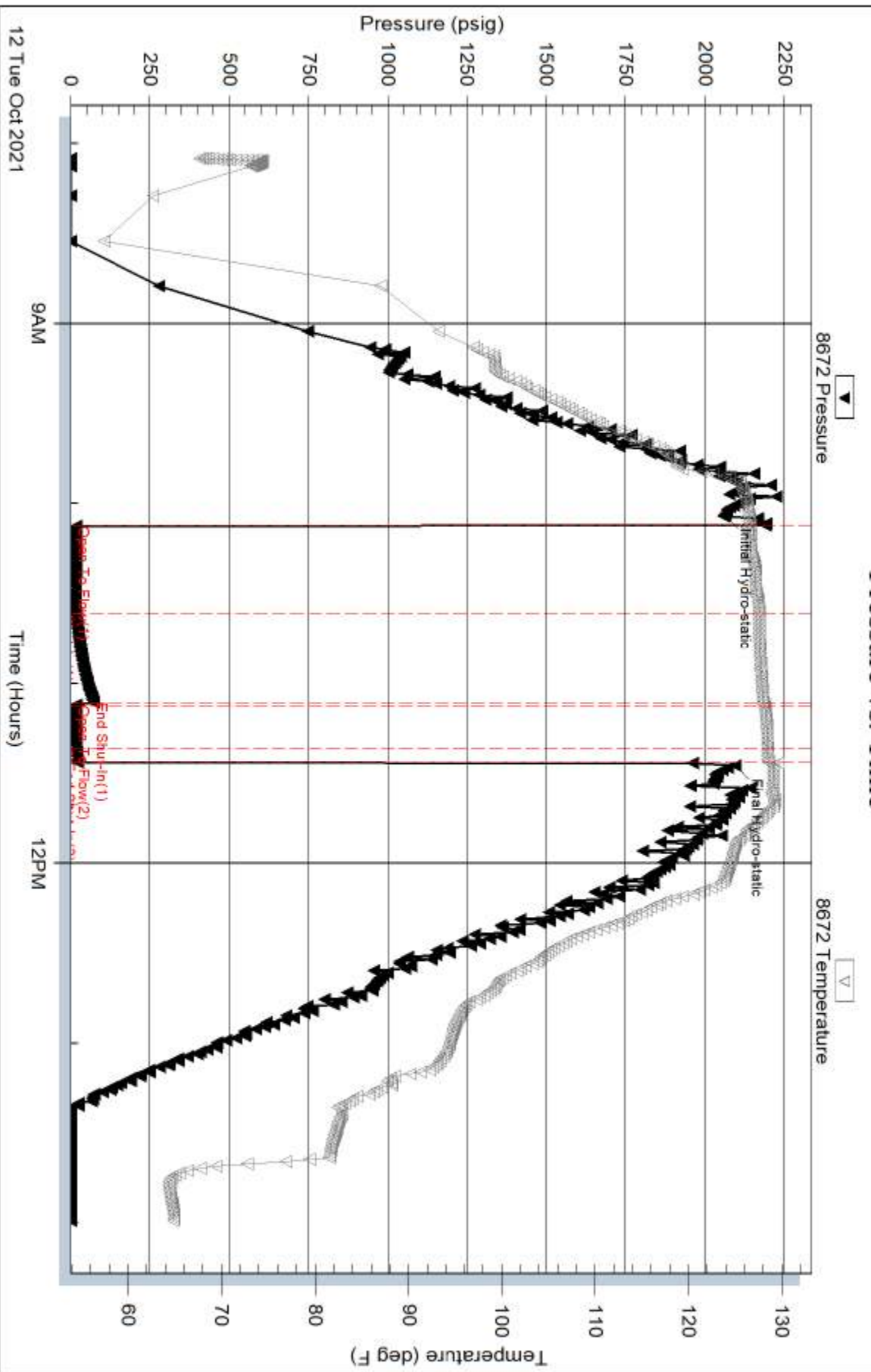
Inside

MTM Petroleum, Inc.

Munch #1

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67636

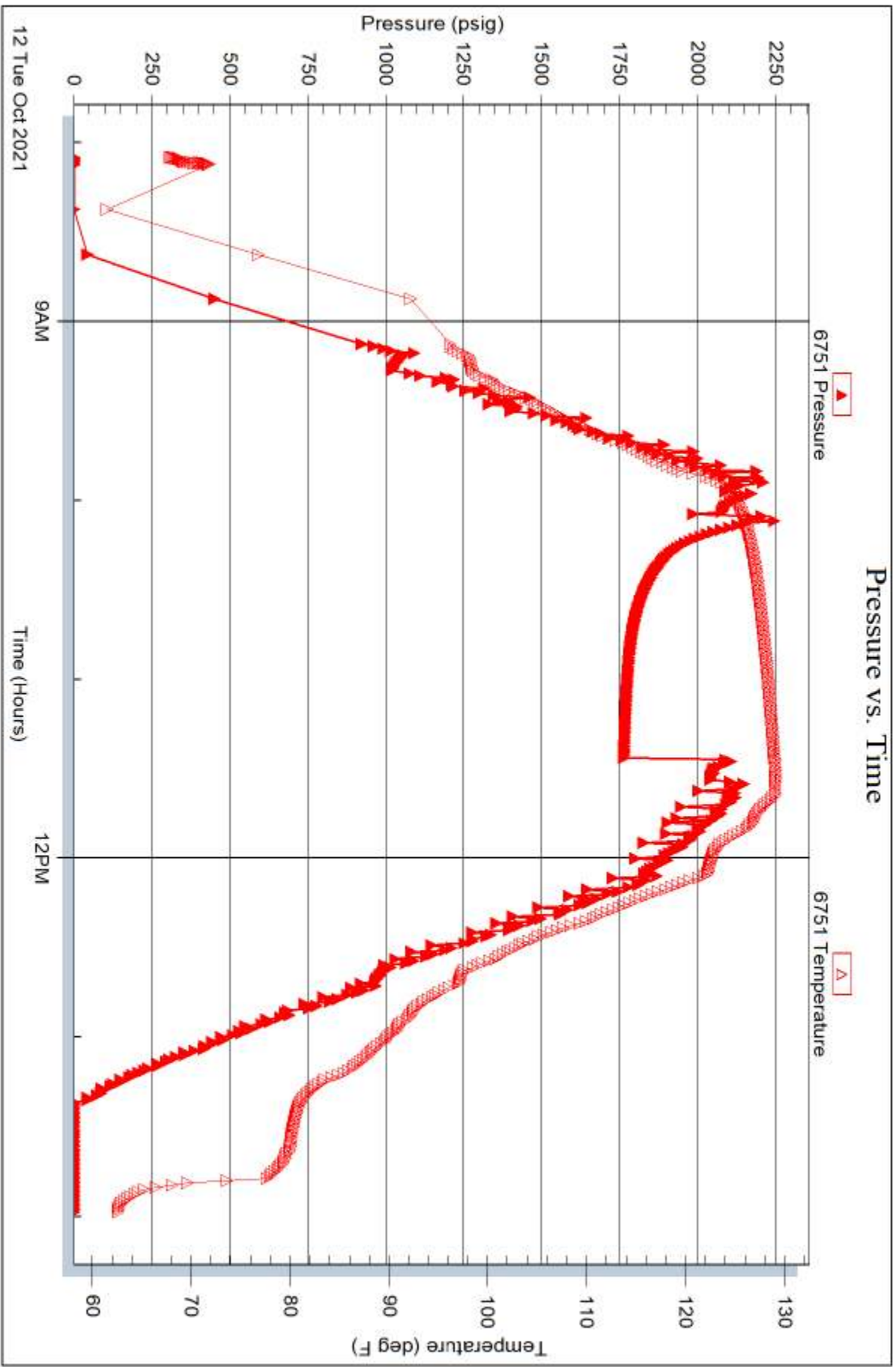
Printed: 2021.10.12 @ 14:50:57

Serial #: 6751

Below (Straddler) Petroleum, Inc.

Wunch #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 67636

Printed: 2021.10.12 @ 14:50:57

