

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	CALER 3
Doc ID	1710680

Tops

Name	Top	Datum
Anhydrite	534	1230
Heebner	2862	-1098
Toronto	2876	-1112
Douglas	2897	-1133
Brown Lime	2976	-1212
Lansing	2993	-1229
BKC	3262	-1498
Conglomerate	3272	-1508
Arbuckle	3293	-1529

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	CALER 3
Doc ID	1710680

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	310	60/40	180	4%gel2% CC
Production	7.875	5.5	14	3370	60/40	135	10%salt, 2% gel



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Ste 800
Dallas TX 75225

ATTN: Jim Musgrove

Caler #3

25-18s-11w Barton,KS

Start Date: 2023.03.10 @ 20:56:00

End Date: 2023.03.11 @ 04:55:00

Job Ticket #: 69918 DST #: 1

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

Printed: 2023.03.21 @ 14:07:39



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69918

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.03.10 @ 20:56:00

GENERAL INFORMATION:

Formation: **KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:22:15

Time Test Ended: 04:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3046.00 ft (KB) To 3092.00 ft (KB) (TVD)

Total Depth: 3092.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1754.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 390.19 psig @ 3052.00 ft (KB)

Start Date: 2023.03.10

End Date:

2023.03.11

Start Time: 20:56:05

End Time:

04:54:59

Capacity: 8000.00 psig

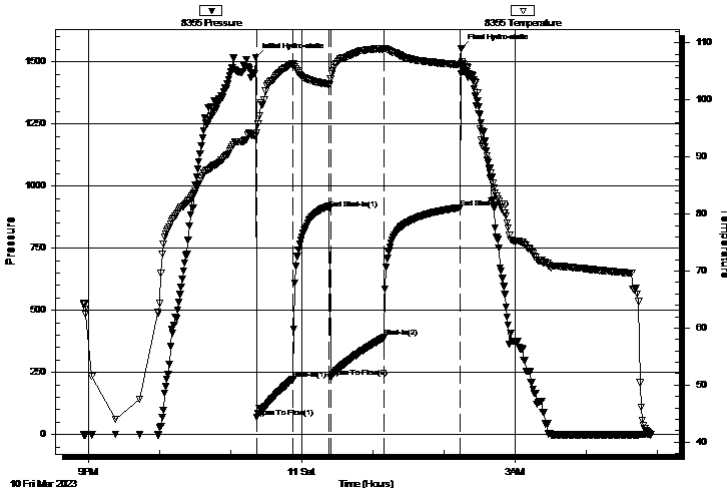
Last Calib.: 1899.12.30

Time On Btm: 2023.03.10 @ 23:21:15

Time Off Btm: 2023.03.11 @ 02:14:45

TEST COMMENT: 30-IF: Strong blow BOB in 4 minutes built to 52"
30-ISI: Weak surface blow built to .5"
45-FF: Strong blow BOB in five minutes forty seconds built to 58"
60-FSI: Fair blow BOB in 33 minutes built to 17.5"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.79	93.78	Initial Hydro-static
1	69.31	94.30	Open To Flow (1)
32	223.53	106.39	Shut-In (1)
62	909.70	102.75	End Shut-In (1)
63	232.04	103.68	Open To Flow (2)
108	390.19	108.97	Shut-In (2)
172	913.34	106.17	End Shut-In (2)
174	1553.57	106.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	GMW 5%G 90%W 5%M	3.53
252.00	GOCMW 5%G 5%O 80%W 10%M	3.53
189.00	GOCMW 15%G 5%O 50%W 30%M	2.65
126.00	GOCMW 5%G 20%O 70%W 5%M	1.77

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69918

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.03.10 @ 20:56:00

GENERAL INFORMATION:

Formation: **KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:22:15

Time Test Ended: 04:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3046.00 ft (KB) To 3092.00 ft (KB) (TVD)

Total Depth: 3092.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1754.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3052.00 ft (KB)

Start Date: 2023.03.10

End Date:

2023.03.11

Start Time: 20:56:01

End Time:

04:55:00

Capacity: 8000.00 psig

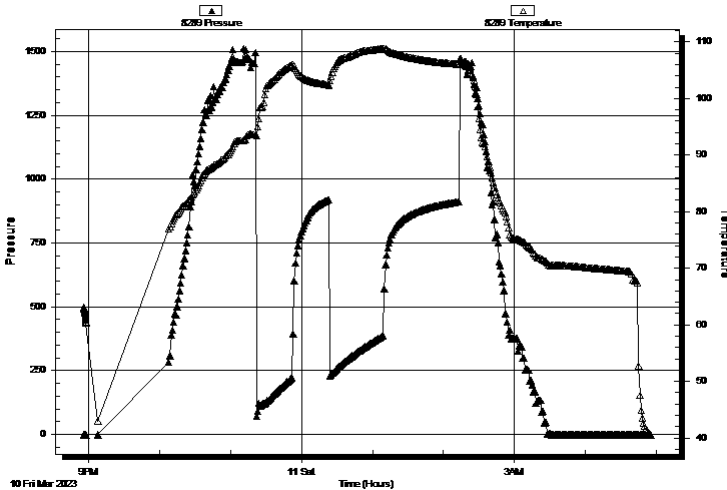
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Strong blow BOB in 4 minutes built to 52"
30-ISI: Weak surface blow built to .5"
45-FF: Strong blow BOB in five minutes forty seconds built to 58"
60-FSI: Fair blow BOB in 33 minutes built to 17.5"

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
252.00	GMW 5%G 90%W 5%M	3.53
252.00	GOCMW 5%G 5%O 80%W 10%M	3.53
189.00	GOCMW 15%G 5%O 50%W 30%M	2.65
126.00	GOCMW 5%G 20%O 70%W 5%M	1.77

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69918

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.03.10 @ 20:56:00

Tool Information

Drill Pipe:	Length:	3051.00 ft	Diameter:	3.80 inches	Volume:	42.80 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	3.25 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	48000.00 lb
					Total Volume:	42.80 bbl	Tool Chased	15.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3046.00 ft					Final	39000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		46.00 ft						
Tool Length:		74.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3019.00	
Shut In Tool	5.00		3024.00	
Hydraulic tool	5.00		3029.00	
EM	4.00		3033.00	
Safety Joint	3.00		3036.00	
Packer	5.00		3041.00	28.00 Bottom Of Top Packer
Packer	5.00		3046.00	
Stubb	1.00		3047.00	
Handling Sub	5.00		3052.00	
Recorder	0.00	8355 Inside	3052.00	
Recorder	0.00	8289 Outside	3052.00	
Perforations	37.00		3089.00	
Bullnose	3.00		3092.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69918

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.03.10 @ 20:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.38 in³

Resistivity: ohm.m

Salinity: 3600.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	GMW 5%G 90%W 5%M	3.535
252.00	GOCMW 5%G 5%O 80%W 10%M	3.535
189.00	GOCMW 15%G 5%O 50%W 30%M	2.651
126.00	GOCMW5%G 20%O 70%W 5%M	1.767

Total Length: 819.00 ft

Total Volume: 11.488 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 157' GIP

Serial #: 8355

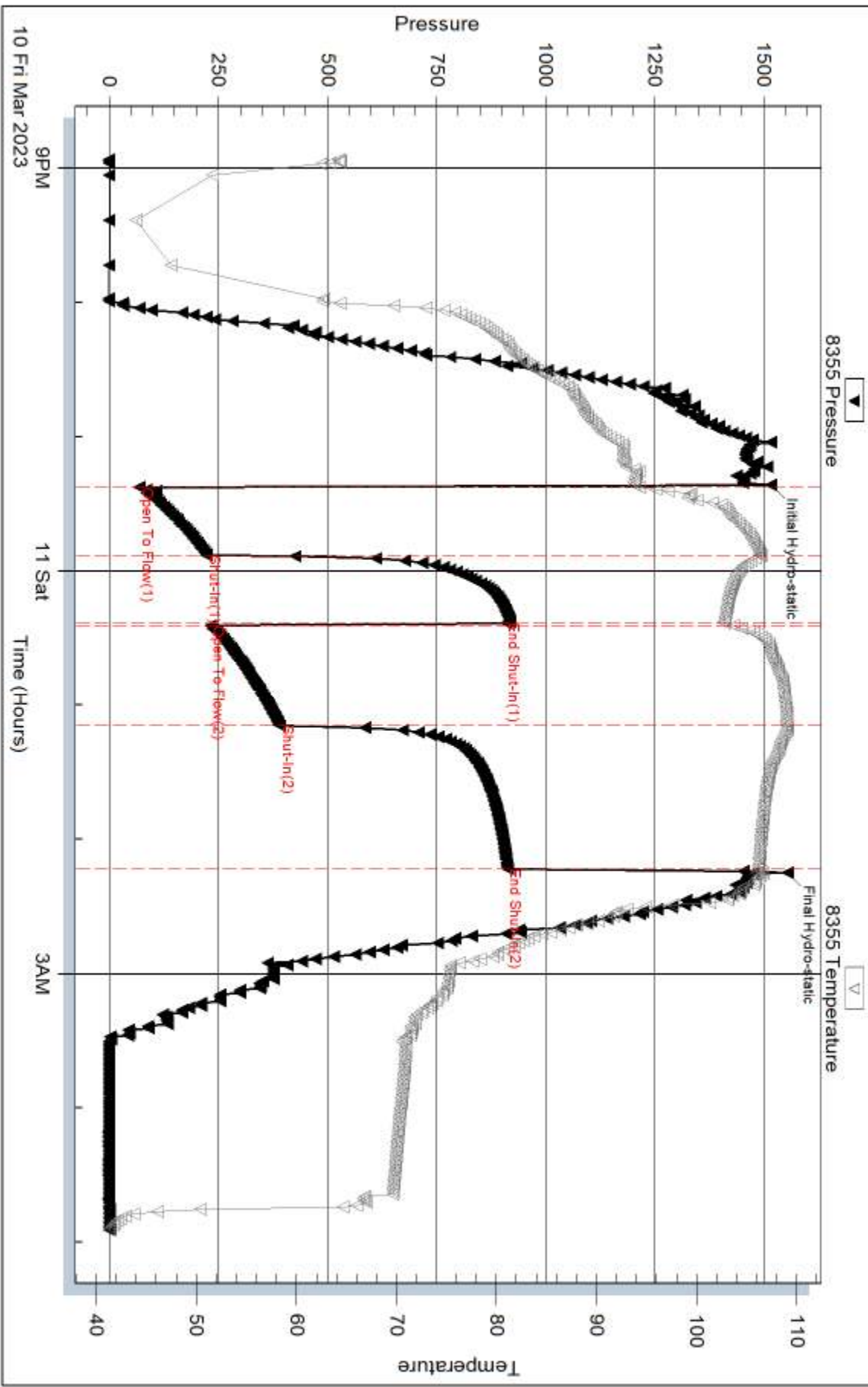
Inside

Mai Oil Operations Inc.

Calor #3

DST Test Number: 1

Pressure vs. Time

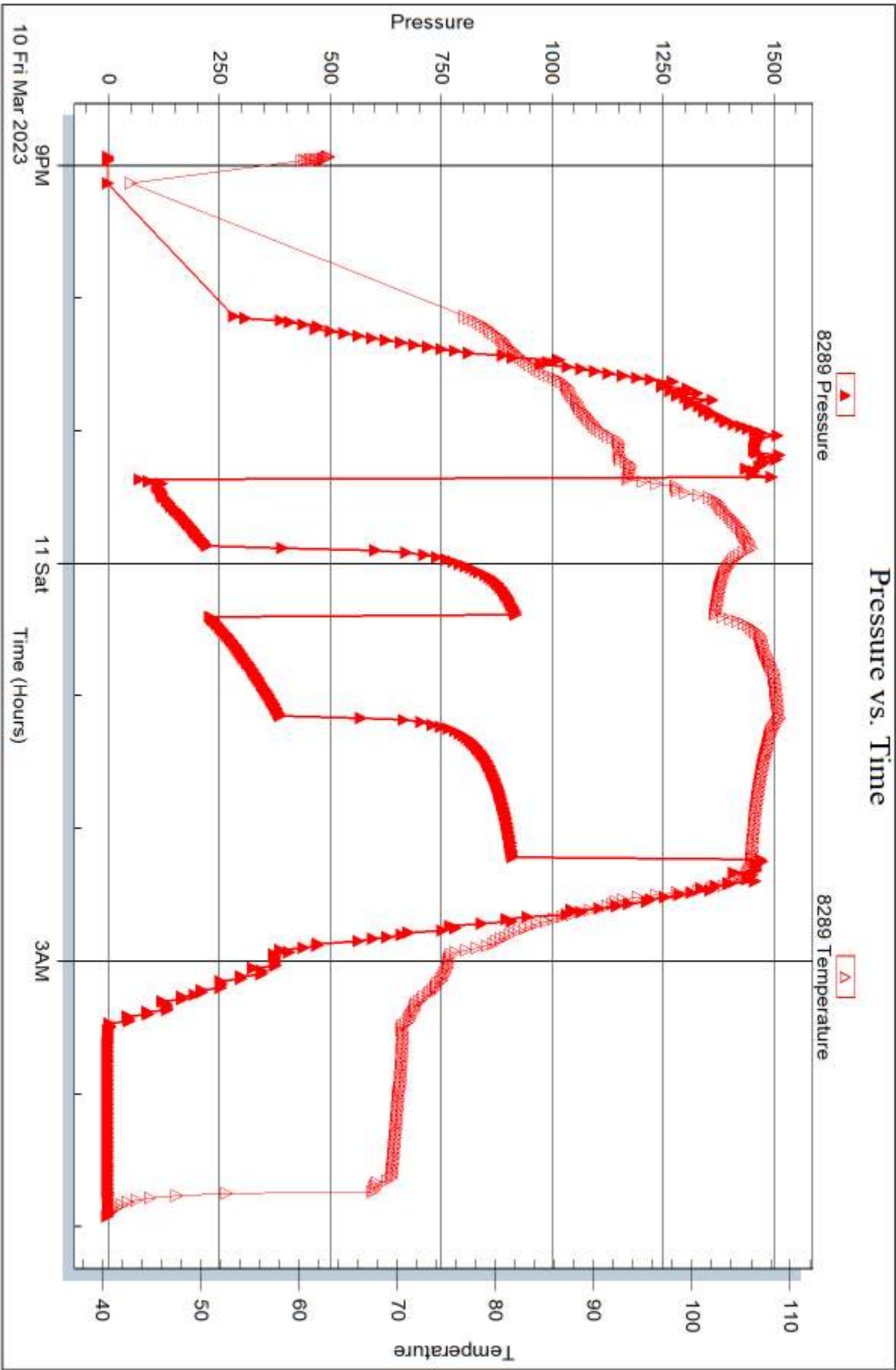


Serial #: 8289

Outside Mai Oil Operations Inc.

Caler #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Ste 800
Dallas TX 75225

ATTN: Jim Musgrove

Caler #3

25-18s-11w Barton,KS

Start Date: 2023.03.11 @ 18:55:00

End Date: 2023.03.12 @ 00:34:00

Job Ticket #: 69919 DST #: 2

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

Printed: 2023.03.21 @ 14:07:09



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69919

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.03.11 @ 18:55:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:46:45

Time Test Ended: 00:34:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3204.00 ft (KB) To 3270.00 ft (KB) (TVD)

Total Depth: 3270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1754.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 37.65 psig @ 3210.00 ft (KB)

Start Date: 2023.03.11

End Date:

2023.03.12

Start Time: 18:55:05

End Time:

00:33:59

Capacity: 8000.00 psig

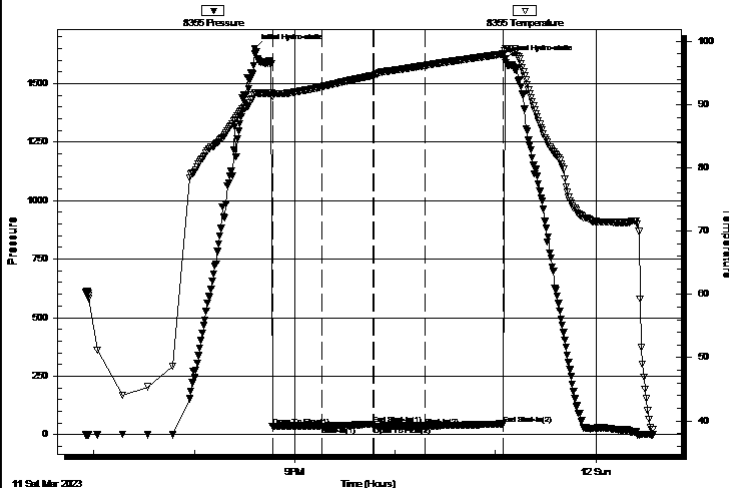
Last Calib.: 1899.12.30

Time On Btm: 2023.03.11 @ 20:36:00

Time Off Btm: 2023.03.11 @ 23:05:30

TEST COMMENT: 30-IF: Weak surface blow built to half an inch
30-ISI: No blow back
30-FF: No blow
45-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.30	91.80	Initial Hydro-static
11	35.53	91.25	Open To Flow (1)
41	37.21	92.82	Shut-In(1)
71	44.63	94.60	End Shut-In(1)
72	36.82	94.63	Open To Flow (2)
102	37.65	96.18	Shut-In(2)
149	45.87	97.99	End Shut-In(2)
150	1604.11	98.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 1%O 99%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69919

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.03.11 @ 18:55:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:46:45

Time Test Ended: 00:34:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3204.00 ft (KB) To 3270.00 ft (KB) (TVD)

Total Depth: 3270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1754.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3210.00 ft (KB)

Start Date: 2023.03.11

End Date:

2023.03.12

Start Time: 18:55:01

End Time:

00:34:00

Capacity: 8000.00 psig

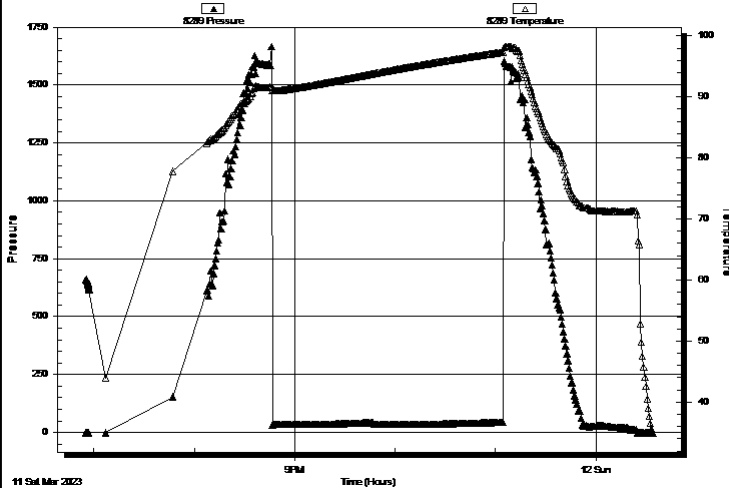
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Weak surface blow built to half an inch
30-ISI: No blow back
30-FF: No blow
45-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
5.00	OSM 1%O 99%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69919

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.03.11 @ 18:55:00

Tool Information

Drill Pipe:	Length:	3209.00 ft	Diameter:	3.80 inches	Volume:	45.01 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	3.25 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	38000.00 lb
					Total Volume:	45.01 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight: Initial	34000.00 lb
Depth to Top Packer:		3204.00 ft					Final	34000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		66.00 ft						
Tool Length:		94.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3177.00	
Shut In Tool	5.00		3182.00	
Hydraulic tool	5.00		3187.00	
EM	4.00		3191.00	
Safety Joint	3.00		3194.00	
Packer	5.00		3199.00	28.00 Bottom Of Top Packer
Packer	5.00		3204.00	
Stubb	1.00		3205.00	
Handling Sub	5.00		3210.00	
Recorder	0.00	8355 Inside	3210.00	
Recorder	0.00	8289 Outside	3210.00	
Change Over Sub	1.00		3211.00	
Drill Pipe	32.00		3243.00	
Change Over Sub	1.00		3244.00	
Perforations	23.00		3267.00	
Bullnose	3.00		3270.00	66.00 Bottom Packers & Anchor
Total Tool Length:	94.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69919

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.03.11 @ 18:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 6400.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 1%O 99%M	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 #: 8355

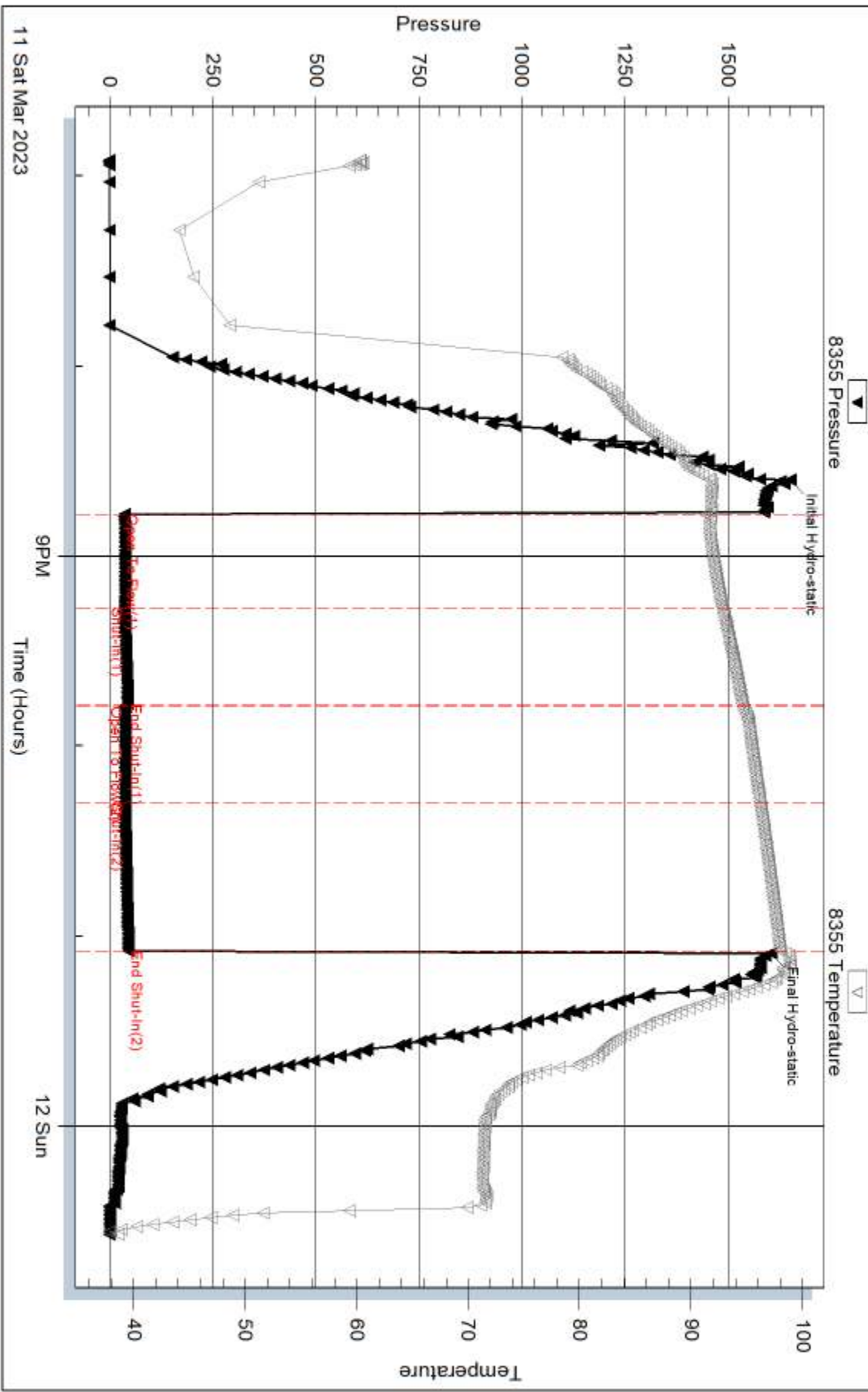
Inside

Mai Oil Operations Inc.

Calor #3

DST Test Number: 2

Pressure vs. Time

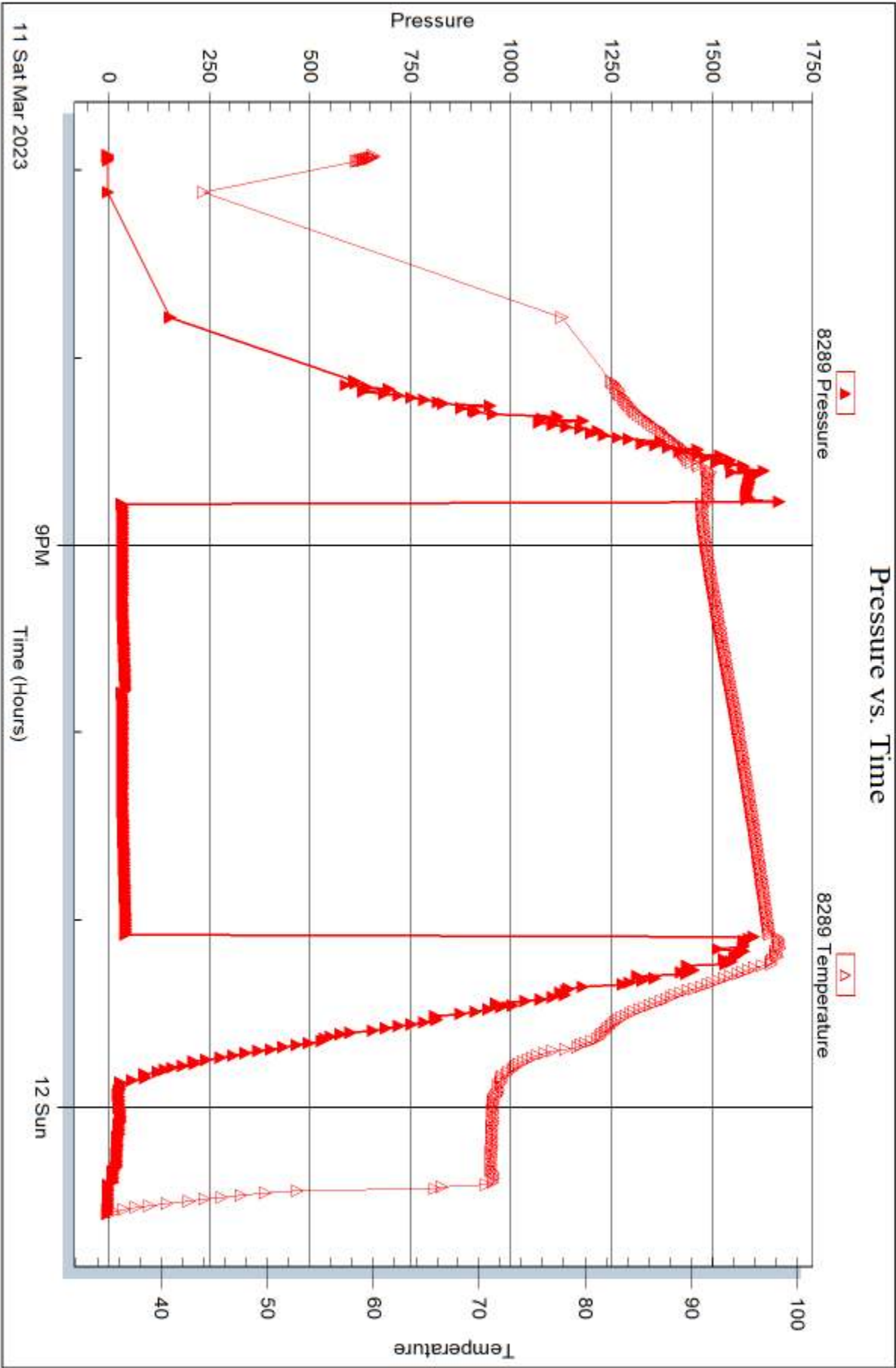


Serial #: 8289

Outside Mai Oil Operations Inc.

Caler #3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Ste 800
Dallas TX 75225

ATTN: Jim Musgrove

Caler #3

25-18s-11w Barton,KS

Start Date: 2023.03.12 @ 09:08:00

End Date: 2023.03.12 @ 15:35:15

Job Ticket #: 69920 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.03.21 @ 14:06:22



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69920

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 09:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:15

Time Test Ended: 15:35:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3261.00 ft (KB) To 3298.00 ft (KB) (TVD)

Reference Elevations: 1764.00 ft (KB)

Total Depth: 3298.00 ft (KB) (TVD)

1754.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 43.04 psig @ 3267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.12

End Date:

2023.03.12

Last Calib.: 1899.12.30

Start Time: 09:08:05

End Time:

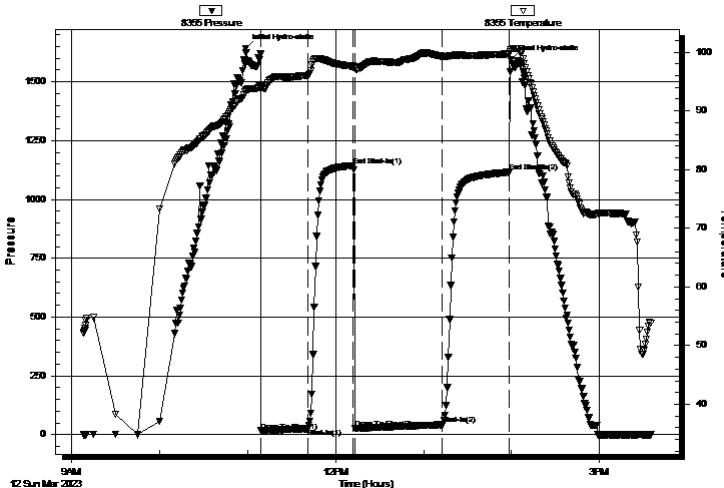
15:35:14

Time On Btm: 2023.03.12 @ 10:58:30

Time Off Btm: 2023.03.12 @ 13:59:30

TEST COMMENT: 30-IF:Fair blow built to 4"
30-ISI:Very weak surface blow
60-FF:Fair blow built to 6.5"
45-FSI:No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.87	93.32	Initial Hydro-static
11	16.77	93.76	Open To Flow (1)
43	25.69	96.02	Shut-In(1)
74	1144.43	97.60	End Shut-In(1)
75	26.40	97.18	Open To Flow (2)
134	43.04	99.28	Shut-In(2)
180	1115.74	99.68	End Shut-In(2)
181	1595.14	100.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
33.00	OCM 20%O 80%M	0.46
40.00	CO 100%O	0.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69920

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 09:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:15

Time Test Ended: 15:35:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3261.00 ft (KB) To 3298.00 ft (KB) (TVD)

Reference Elevations: 1764.00 ft (KB)

Total Depth: 3298.00 ft (KB) (TVD)

1754.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.12

End Date:

2023.03.12

Last Calib.:

1899.12.30

Start Time: 09:08:01

End Time:

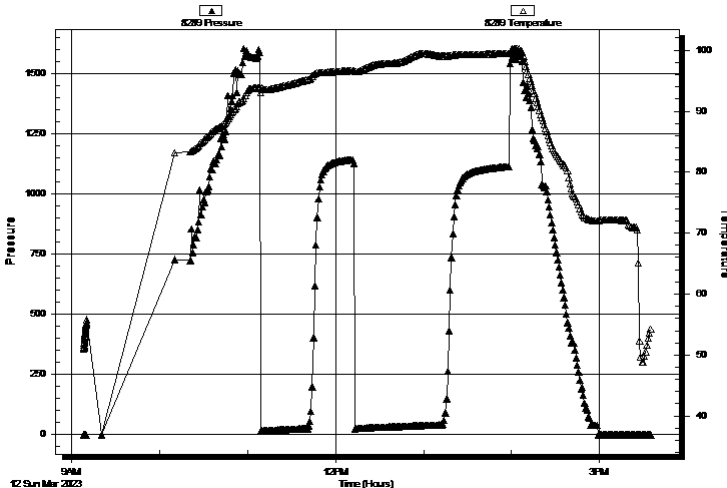
15:35:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF:Fair blow built to 4"
30-ISI:Very weak surface blow
60-FF:Fair blow built to 6.5"
45-FSI:No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
33.00	OCM 20%O 80%M	0.46
40.00	CO 100%O	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69920

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 09:08:00

Tool Information

Drill Pipe:	Length:	3241.00 ft	Diameter:	3.80 inches	Volume:	45.46 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	3.25 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	36500.00 lb
					Total Volume:	45.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		3261.00 ft					Final	36000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		37.00 ft						
Tool Length:		65.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3234.00	
Shut In Tool	5.00			3239.00	
Hydraulic tool	5.00			3244.00	
EM	4.00			3248.00	
Safety Joint	3.00			3251.00	
Packer	5.00			3256.00	28.00 Bottom Of Top Packer
Packer	5.00			3261.00	
Stubb	1.00			3262.00	
Handling Sub	5.00			3267.00	
Recorder	0.00	8355	Inside	3267.00	
Recorder	0.00	8289	Outside	3267.00	
Perforations	28.00			3295.00	
Bullnose	3.00			3298.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69920

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 09:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 6400.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
33.00	OCM 20%O 80%M	0.463
40.00	CO 100%O	0.561

Total Length: 73.00 ft

Total Volume: 1.024 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8355

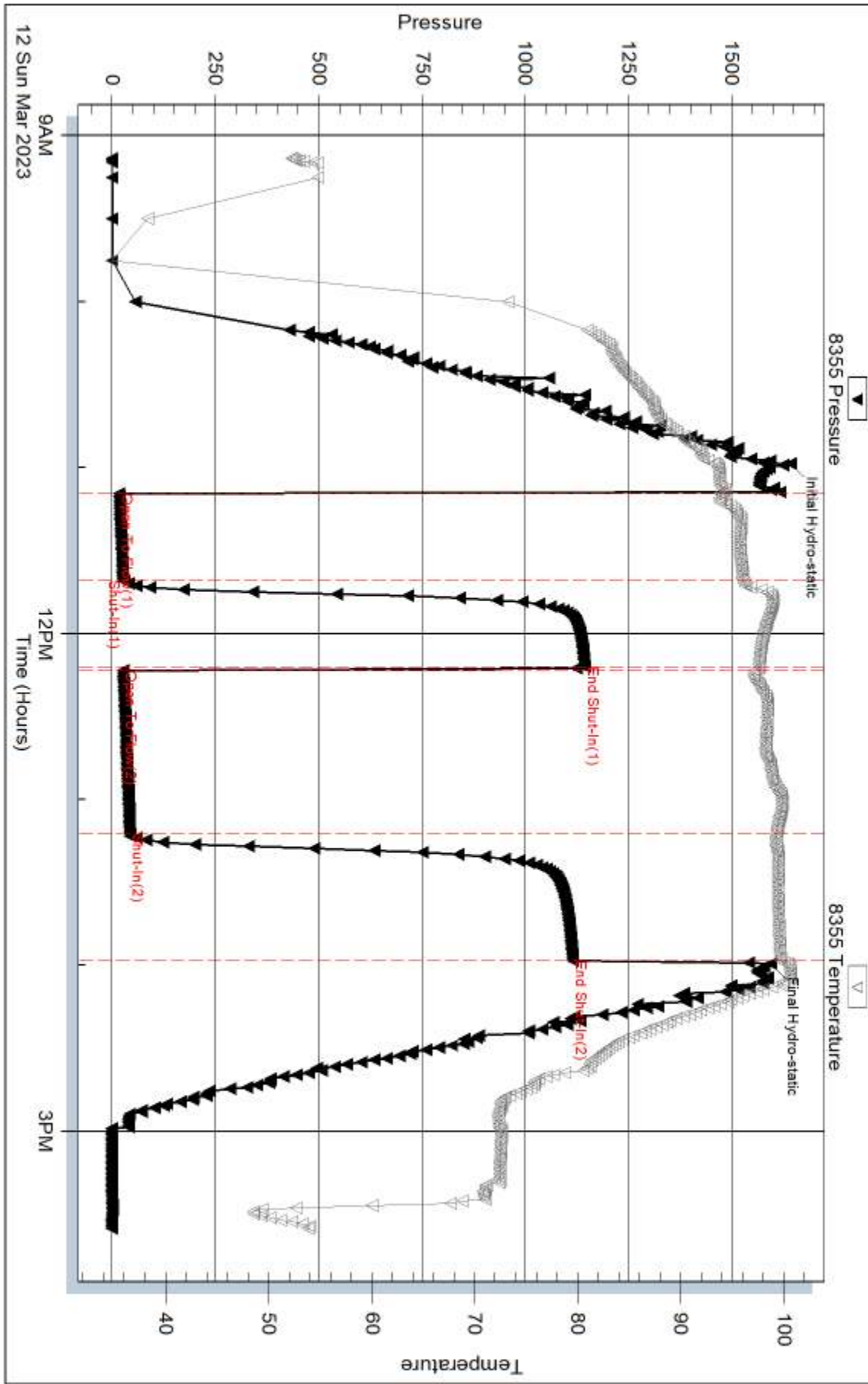
Inside

Mai Oil Operations Inc.

Caler #3

DST Test Number: 3

Pressure vs. Time

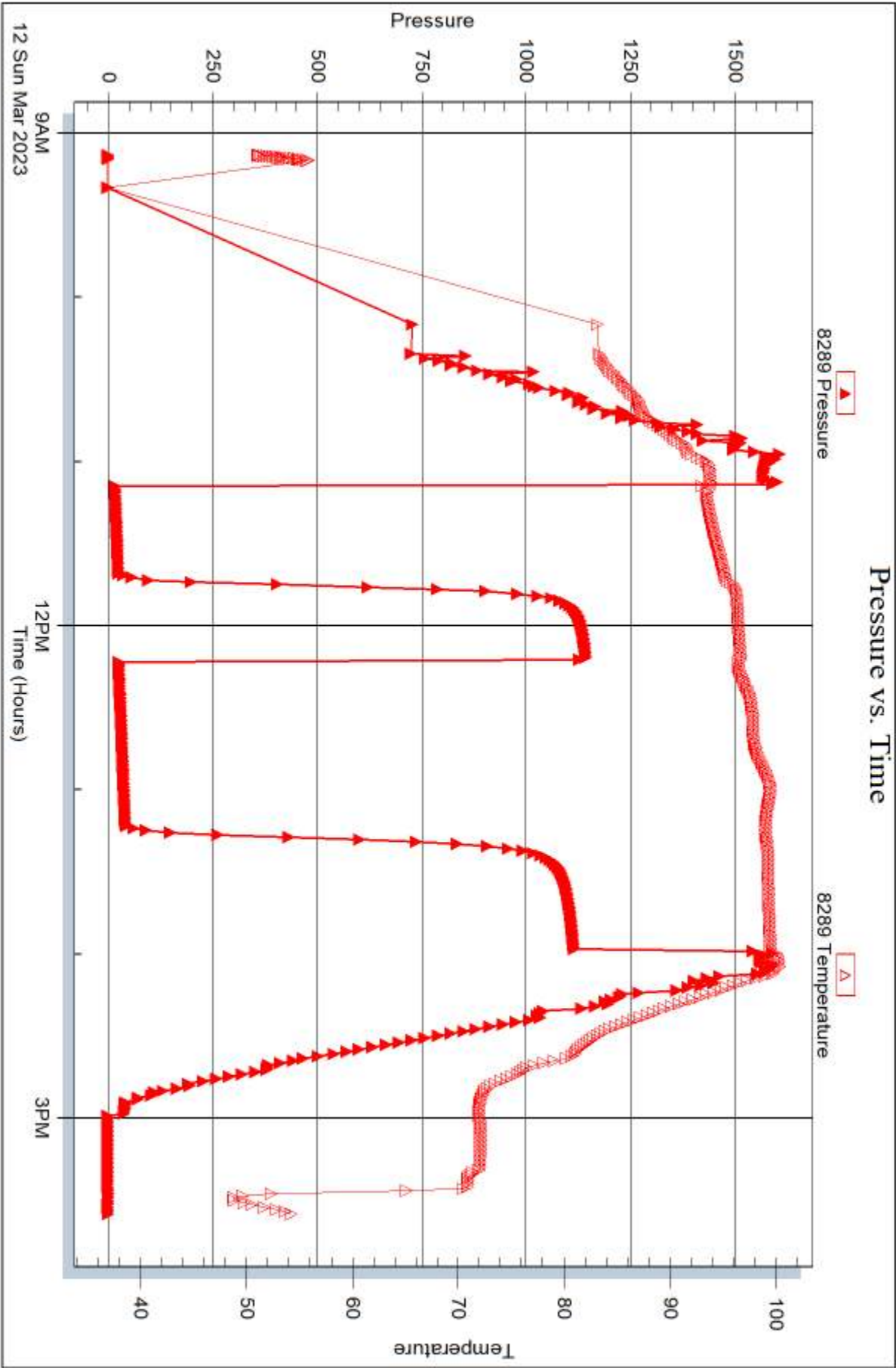


Serial #: 8289

Outside Mai Oil Operations Inc.

Caler #3

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Ste 800
Dallas TX 75225

ATTN: Jim Musgrove

Caler #3

25-18s-11w Barton,KS

Start Date: 2023.03.12 @ 20:56:00

End Date: 2023.03.13 @ 02:46:00

Job Ticket #: 69921 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.03.21 @ 14:05:33



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69921

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 20:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:45

Time Test Ended: 02:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3262.00 ft (KB) To 3302.00 ft (KB) (TVD)

Reference Elevations: 1764.00 ft (KB)

Total Depth: 3302.00 ft (KB) (TVD)

1754.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 324.05 psig @ 3268.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.12

End Date:

2023.03.13

Last Calib.: 1899.12.30

Start Time: 20:56:05

End Time:

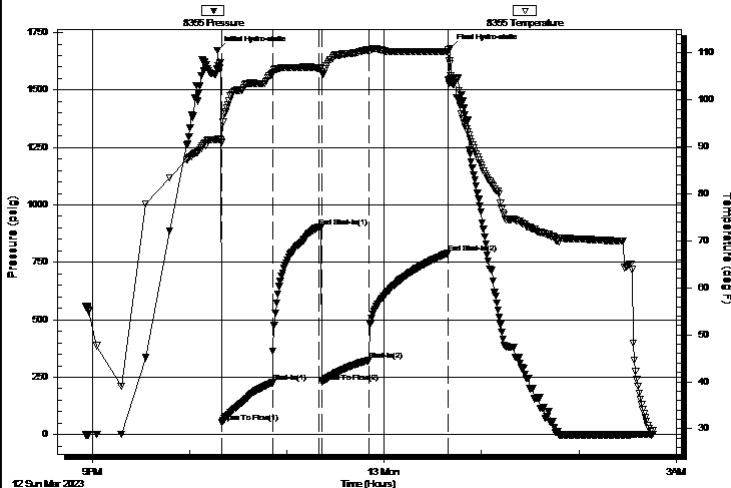
02:45:59

Time On Btm: 2023.03.12 @ 22:17:15

Time Off Btm: 2023.03.13 @ 00:40:30

TEST COMMENT: 30-IF: Strong blow BOB in 3 minutes built to 73"
30-ISI: No blow back
30-FF: Strong blow BOB in 6 minutes built to 37"
45-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.66	91.53	Initial Hydro-static
3	52.62	90.85	Open To Flow (1)
34	226.80	105.54	Shut-In(1)
63	902.63	106.77	End Shut-In(1)
65	229.95	106.06	Open To Flow (2)
94	324.05	110.69	Shut-In(2)
142	789.62	110.34	End Shut-In(2)
144	1681.05	107.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	GMWCO 10%G 60%O 20%W 10%M	3.53
126.00	GSMCO 15%G 80%O 5%M	1.77
126.00	GOCM 5%G 35%O 60%M	1.77
126.00	GMCO 30%G 60%O 10%M	1.77
146.00	CGO 10%G 90%O	2.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69921

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 20:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:45

Time Test Ended: 02:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3262.00 ft (KB) To 3302.00 ft (KB) (TVD)

Total Depth: 3302.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1754.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3268.00 ft (KB)

Start Date: 2023.03.12

End Date:

2023.03.13

Start Time: 20:56:01

End Time:

02:45:50

Capacity: 8000.00 psig

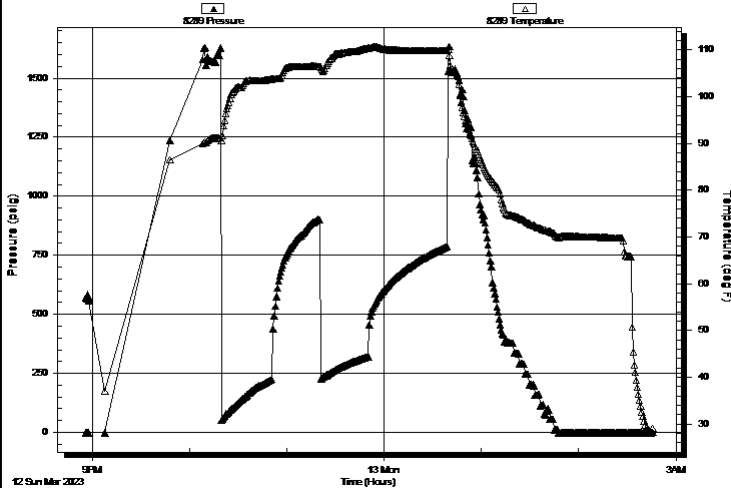
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Strong blow BOB in 3 minutes built to 73"
30-ISI: No blow back
30-FF: Strong blow BOB in 6 minutes built to 37"
45-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
252.00	GMWCO 10%G 60%O 20%W 10%M	3.53
126.00	GSMCO 15%G 80%O 5%M	1.77
126.00	GOCM 5%G 35%O 60%M	1.77
126.00	GMCO 30%G 60%O 10%M	1.77
146.00	CGO 10%G 90%O	2.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69921

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 20:56:00

Tool Information

Drill Pipe:	Length:	3241.00 ft	Diameter:	3.80 inches	Volume:	45.46 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	3.25 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	37000.00 lb
					Total Volume:	45.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		3262.00 ft					Final	37000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		40.00 ft						
Tool Length:		68.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3235.00	
Shut In Tool	5.00		3240.00	
Hydraulic tool	5.00		3245.00	
EM	4.00		3249.00	
Safety Joint	3.00		3252.00	
Packer	5.00		3257.00	28.00 Bottom Of Top Packer
Packer	5.00		3262.00	
Stubb	1.00		3263.00	
Handling Sub	5.00		3268.00	
Recorder	0.00	8355 Inside	3268.00	
Recorder	0.00	8289 Outside	3268.00	
Perforations	31.00		3299.00	
Bullnose	3.00		3302.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

25-18s-11w Barton,KS

8411 Preston Rd Ste 800
Dallas TX 75225

Caler #3

Job Ticket: 69921

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.03.12 @ 20:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 8.88 in³

Resistivity: ohm.m

Salinity: 7600.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	GMWCO 10%G 60%O 20%W 10%M	3.535
126.00	GSMCO 15%G 80%O 5%M	1.767
126.00	GOCM 5%G 35%O 60%M	1.767
126.00	GMCO 30%G 60%O 10%M	1.767
146.00	CGO 10%G 90%O	2.048

Total Length: 776.00 ft

Total Volume: 10.884 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

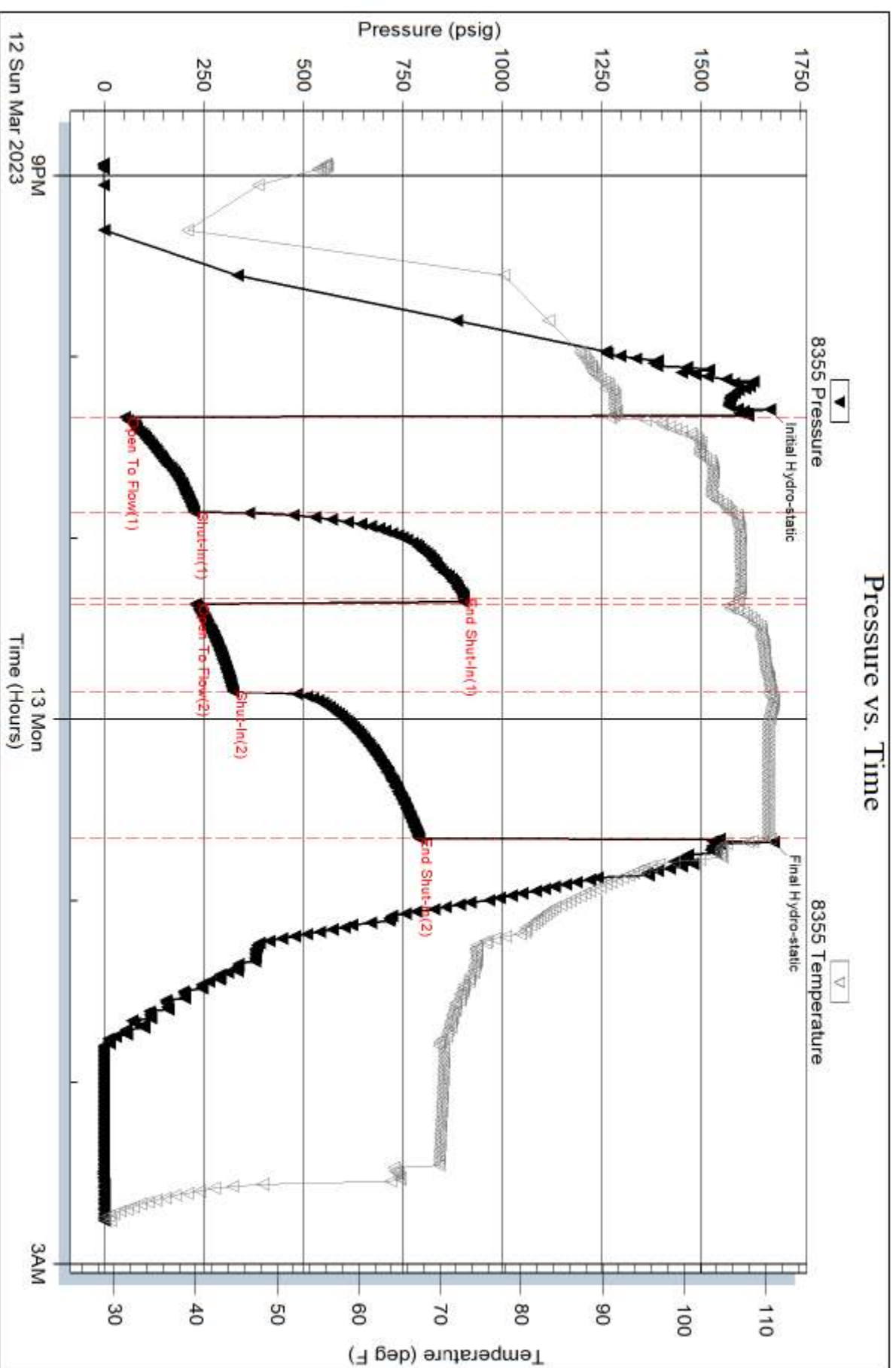
Serial #: 8355

Inside

Mai Oil Operations Inc.

Caller #3

DST Test Number: 4

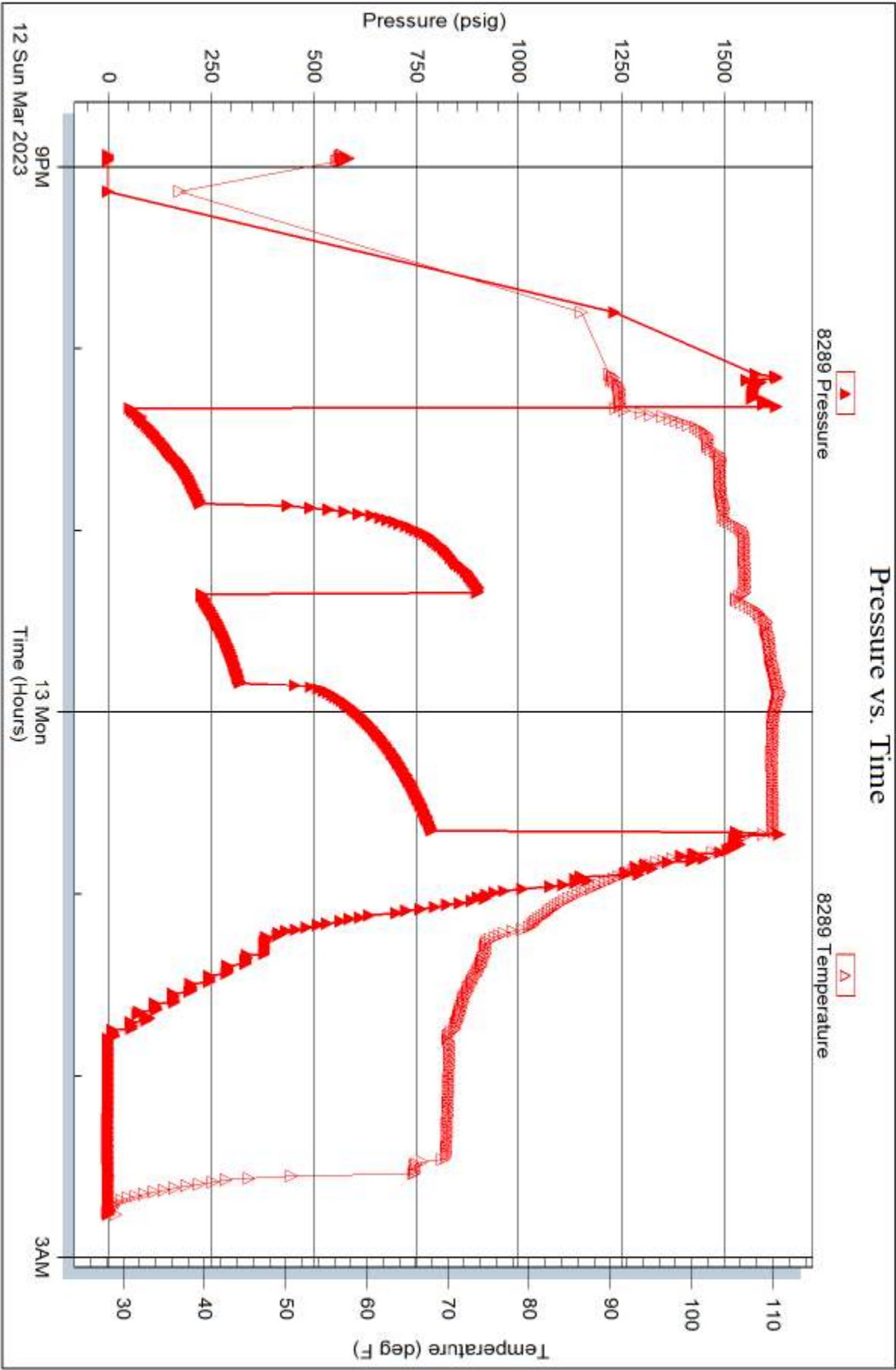


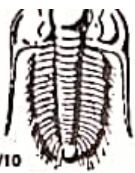
Serial #: 8289

Outside Mai Oil Operations Inc.

Caler #3

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69918**

Well Name & No. Caler #3 Test No. 1 Date 3-10-23
 Company Mai Oil Operation Inc Elevation 1764 KB 1754 GL
 Address 8411 Preston RD STE 800 Dallas TX 75225
 Co. Rep / Geo. Jim Murganve Rig Southwind 1
 Location: Sec. 25 Twp 18S Rge. 11W Co. Barton State KS

Interval Tested 3046-3092 Zone Tested KC
 Anchor Length 46' Drill Pipe Run 3051 Mud Wt. 8.75
 Top Packer Depth 3041 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3046 Wt. Pipe Run 0 WL 8.4
 Total Depth 3092 Chlorides 3600 ppm System LCM 1 1/2#

Blow Description IF! Fair blow BOB in 4 minutes built to 52"
151: Weak surface blow built to 45"
FF! Strong blow BOB in 5:40 built to 58"
F51: Fair blow BOB in 33 minutes built to 17.5"

Rec <u>157</u>	Feet of <u>GIP</u>	<u>100</u> %gas	%oil	%water	%m
Rec <u>126</u>	Feet of <u>OGCWM</u>	<u>5</u> %gas	<u>20</u> %oil	<u>70</u> %water	<u>5</u> %m
Rec <u>189</u>	Feet of <u>OGCWM</u>	<u>15</u> %gas	<u>5</u> %oil	<u>50</u> %water	<u>30</u> %m
Rec <u>252</u>	Feet of <u>GOWM</u>	<u>5</u> %gas	<u>5</u> %oil	<u>80</u> %water	<u>10</u> %m
Rec <u>252</u>	Feet of <u>GMW</u>	<u>5</u> %gas	<u>0</u> %oil	<u>90</u> %water	<u>5</u> %m

Rec Total 976 BHT 109 Gravity NA API RW .341 @ 43 °F Chlorides 31,500 ppm

(A) Initial Hydrostatic 1516 ☒ Test 1800 T-On Location 19:54
 (B) First Initial Flow 69 ☐ Jars T-Started 21:30
 (C) First Final Flow 224 ☐ Safety Joint T-Open 23:22
 (D) Initial Shut-In 910 ☐ Circ Sub T-Pulled 02:10
 (E) Second Initial Flow 232 ☐ Hourly Standby T-Out 04:40
 (F) Second Final Flow 390 ☒ Mileage 21 36.75 Comments 2-Hrs @ 2050
 (G) Final Shut-In 913 ☐ Sampler EMG 21:20
 (H) Final Hydrostatic 1554 ☐ Straddle ☒ EM Tool Didn't work

Initial Open 30 ☐ Ruined Shale Packer -350
 Initial Shut-In 30 ☐ Ruined Packer
 Final Flow 45 ☐ Extra Copies
 Final Shut-In 60 ☐ Day Standby Sub Total -350
☐ Accessibility Total 1486.75
 Sub Total 1836.75 MP/DST Disc't

Approved By Our Representative Ridie Samosa
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69919**

Well Name & No. Caler #3 Test No. 2 Date 3-11-23
Company Mar Oil Operation Inc Elevation 1764 KB 1754 GL
Address 8411 Preston RD STE 800 Dallas TX 75225
Co. Rep / Geo. Jim Musgrave Rig Southwind 1
Location: Sec. 25 Twp 18S Rge. 11W Co. Barton State KS

Interval Tested 3204-3270 Zone Tested _____
Anchor Length 66' Drill Pipe Run 3209 Mud Wt. 9.05
Top Packer Depth 3200 Drill Collars Run 0 Vis 50
Bottom Packer Depth 3204 Wt. Pipe Run 0 WL 8.8
Total Depth 3270 Chlorides 6400 ppm System LCM 1#

Blow Description 1F: Weak surface blow built to a half an inch
1SL: No blow back
FF: No blow
FS1: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>0.5m</u>	<u>1</u>		<u>99</u>	
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 5 BHT 98.9 Gravity 1.01800 API RW 14.0 °F Chlorides NA ppm
(A) Initial Hydrostatic 1650 ☒ Test _____ T-On Location 1655
(B) First Initial Flow 36 ☐ Jars _____ T-Started 1945
(C) First Final Flow 37 ☐ Safety Joint _____ T-Open 20:46
(D) Initial Shut-In 45 ☐ Circ Sub _____ T-Pulled 23:02
(E) Second Initial Flow 37 ☐ Hourly Standby _____ T-Out 00:20
(F) Second Final Flow 38 ☒ Mileage 31 36.75 Comments Bolt 1855
(G) Final Shut-In 46 ☐ Sampler _____ EMB 1910
(H) Final Hydrostatic 1604 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 45
Sub Total 1836.75
MP/DST Disc1 _____
Our Representative Richie Samson
Sub Total -350
Total 1486.75

Approved By _____
TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69920**

Well Name & No. Coler 3 Test No. 3 Date 3-12-23
 Company Mai Oil Operation Inc Elevation 1764 KB 1754 GL
 Address 8411 Preston RD STE 800 Dallas TX 75225
 Co. Rep / Geo. Jim Murgrove Rig Southwind 1
 Location: Sec. 25 Twp 18S Rge. 11W Co. Barton State KS

Interval Tested 3261-3298 Zone Tested Arbuckle
 Anchor Length 37' Drill Pipe Run 3241 Mud Wt. 9.05
 Top Packer Depth 3256 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3261 Wt. Pipe Run 0 WL 8.8
 Total Depth 3298 Chlorides 6400 ppm System LCM 1#

Blow Description 1F: Fair surface blow built to 4"
15L: Very weak surface blow
FF: Fair blow built to 6.5"
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
40	CO	0	100	0	0
33	OCM	0	20	0	80
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 73 BHT 100.8 Gravity 32 API RW 38 @ 52°F Chlorides NK ppm
 (A) Initial Hydrostatic 1642 ☒ Test 1800
 (B) First Initial Flow 17 ☐ Jars
 (C) First Final Flow 26 ☐ Safety Joint
 (D) Initial Shut-In 1144 ☐ Circ Sub
 (E) Second Initial Flow 26 ☐ Hourly Standby
 (F) Second Final Flow 43 ☒ Mileage 21 36.75
 (G) Final Shut-In 1116 ☐ Sampler
 (H) Final Hydrostatic 1595 ☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1836.75

T-Off Location 9:58
 T-Started 9:50
 T-Open 11:10
 T-Pulled 13:59
 T-Out 15:20
 Comments 3 Hrs @ 9.08

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

-175
☒ EM Tool B.H.G 9:20
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total -175
 Total 1661.75

Approved By [Signature]

Our Representative [Signature]

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69921**

Well Name & No. Salen 3 Test No. 4 Date 3-12-23
 Company Mar Oil Operation Inc Elevation 1764 KB 1754
 Address 8411 Porter Road Dallas TX 75225
 Co. Rep / Geo. Jim Murgan Rig Southwind 1
 Location: Sec. 25 Twp 18S Rge. 11W Co. Barton State KS

Interval Tested 3262-3302 Zone Tested Arbuckle
 Anchor Length 40' Drill Pipe Run 3241 Mud Wt. 9.0
 Top Packer Depth 3257 Drill Collars Run 0 Vis 64
 Bottom Packer Depth 3262 Wt. Pipe Run 0 WL 8.9
 Total Depth 3302 Chlorides 7400 ppm System LCM 1#

Blow Description IF: Strong blow BOB in 3 minutes built to 73"
ISI: No blow back
FF: Strong blow BOB in 6 minutes built to 37"
FSI: No blow back

Rec	Feet of	10% gas	90% oil	0% water	0% mud
<u>146</u>	<u>CGO</u>	<u>30</u>	<u>60</u>	<u>0</u>	<u>10</u>
<u>126</u>	<u>GOCM</u>	<u>5</u>	<u>35</u>	<u>0</u>	<u>60</u>
<u>126</u>	<u>COCM</u>	<u>15</u>	<u>80</u>	<u>0</u>	<u>5</u>
<u>126</u>	<u>GOCM</u>	<u>10</u>	<u>60</u>	<u>20</u>	<u>70</u>
<u>252</u>	<u>GOCWM</u>				

Rec Total 776 BHT 110.8 Gravity 21 API RW 35 @ 36° F Chlorides 17,500 ppm

(A) Initial Hydrostatic 1671 ☒ Test T-On Location 2045
 (B) First Initial Flow 53 ☐ Jars T-Started 2130
 (C) First Final Flow 227 ☐ Safety Joint T-Open 2220
 (D) Initial Shut-In 903 ☐ Circ Sub T-Pulled 239
 (E) Second Initial Flow 230 ☐ Hourly Standby T-Out 250
 (F) Second Final Flow 324 ☒ Mileage 21 36.75 Comments 27 256
 (G) Final Shut-In 790 ☐ Sampler ☐ EM Tool -175
 (H) Final Hydrostatic 1681 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Recorder
☐ Day Standby ☐ Sub Total -175
☐ Accessibility ☐ Total 1661.75

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

Approved By _____

Our Representative Pickie Simon

TriLOBITE Testing Inc. shall not be liable for damages of any kind or 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, from test or damages in the tests shall be paid for at cost by the party for whom the test is made.

JAMES C. MUSGROVE
Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 786-0839

Mai Oil Operations, Inc.
Caler #3
NE-SW-NE-NE (735' FNL & 771' FEL)
Section 25-18s-11w
Barton County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #1)

Commenced: March 7, 2023

Completed: March 13, 2023

Elevation: 1764' K.B., 1762 D.F., 1754' G.L.

Casing program: Surface; 8 5/8" @ 311'
Production, 5 1/2" @ 3362'

Sample: Samples saved and examined 2700' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2700' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were four (4) by Trilobite Testing Co

Electric Log: Eli; Dual Induction; Compensated Density/Neutron & Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	534	+1230
Base Anhydrite	555	+1209
Heebner	2862	-1098
Toronto	2876	-1112
Douglas	2897	-1133
Brown Lime	2976	-1212
Lansing	2993	-1229
Base Kansas City	3262	-1498
Conglomerate	3272	-1508
Arbuckle	3293	-1529
Rotary Total Depth	3375	-1611
Log Total Depth	3375	-1611

(All tops and zone(s) corrected to Electric Log measurements.

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

TOPEKA SECTION

2803-2820' Limestone, tan, finely crystalline, oomoldic, poor oomoldic porosity; trace poor spotted brown stain, no free oil and no odor.

TORONTO SECTION

2876-2884' Limestone, white, gray, fine and medium crystalline, fossiliferous; brown and black stain, show of free oil (heavy, black) and no odor.

LANSING SECTION

3000-3008' Limestone, tan, gray, fossiliferous, scattered porosity; gray and brown stain, trace of free oil and questionable odor.

3010-3016' Limestone, tan, gray, finely crystalline, chalky; few cherty; trace iron pyrite.

3020-3028' Limestone, white, gray, fossiliferous, chalky; poorly developed porosity, no shows.

3040-3048 Limestone; gray, tan, fossiliferous, (bio-clastic) chalky, poor porosity, no shows.

3060-3068' Limestone, gray, tan, fossiliferous/oolitic, dense, trace spotty stain, no free oil and faint odor.

3078-3092' Limestone, tan; buff; oomoldic, fair oomoldic porosity, light brown stain, trace of free oil and no odor in fresh samples.

Drill Stem Test #1 **3046-3092**

Times: 30-30-45-60

Blow: Strong (bob 4 mins)
2nd Opening Strong (bob 6.5 mins)

Recovery: 160' gas in pipe
 126' oil and gas cut muddy water
 (5% gas; 20% oil; 70% water; 5% mud)
 189' slightly oil and gas cut muddy water
 (15% gas; 5% oil; 50% water; 30% mud)
 252' slightly oil and gas cut muddy water
 (5% gas; 5% oil; 80% water; 10% mud)
 252' gas cut muddy water
 (5% gas; 90% water; 5% mud)

Pressures: ISIP 910 psi
 FSIP 913 psi
 IFP 69-224 psi
 FFP 232-390 psi
 HSH 1516-1554 psi

3092-3110' Limestone; as above, decreasing stain, no free oil and no odor.

3120-3130' Limestone; gray; white; tan, finely crystalline, chalky, increasingly cherty in part (dense)

3146-3154' Limestone, gray, dark gray, dense

3158-3166'	Limestone, gray; tan, sub-oomoldic, chalky; no shows
3166-3174'	Limestone, white, gray, oolitic, chalky; poor visible porosity; no shows.
3174-3196'	Limestone, gray, tan, oomoldic, good oomoldic porosity, (barren).
3220-3236'	Limestone, tan, gray, fossiliferous, chalky in part; scattered porosity; brown and gray to black stain, show of free oil and faint odor.

Drill Stem Test ##2 **3204-3270**

Times:	30-30-30-45
Blow:	Weak
Recovery:	5' oil spotted mud (1% oil; 99% mud)
Pressures:	ISIP 45 psi
	FSIP 46 psi
	IFP 36-37 psi
	FFP 37-38 psi
	HSH 1650-1604 psi

3246-3261'	Limestone, white, gray, chalky; poor porosity; no shows.
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CONGLOMERATE SECTION

3272-3293'	Shales; maroon, pink; gray and grayish green silty, soft, with chert, white, gray, boney.
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ARBUCKLE SECTION

3293-3298'	Dolomite, white, cream; medium crystalline, scattered inter-crystalline porosity; golden brown and light brown stain; show of free oil and faint to fair odor in fresh samples.
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Drill Stem Test ##3 **3261-3298**

Times:	30-30-45-60
Blow:	Weak to fair (4")
2 nd Opening:	Fair (6.5")
Recovery:	40' clean oil 33' oil cut mud (20% oil; 80% mud)
Pressures:	ISIP 1144 psi
	FSIP 1116 psi
	IFP 17-26 psi
	FFP 26-43 psi
	HSH 1642-1595 psi

3298-3302' Dolomite, tan, fine to medium crystalline, sucrosic, oomoldic, fair oomoldic and vuggy type porosity; good brown and golden brown stain and saturation, fair to good show of free oil and good odor in fresh samples.

Drill Stem Test ##4 **3262-3302**

Times: 30-30-30-45

Blow: Strong (bob 3")
2nd opening: Strong (6 mins)

Recovery: 140' clean gassy oil
126' slightly mud cut oil
(30% gas;60% oil; 10% mud)
126' very heavily oil and gas cut mud
(5% gas; 35% oil; 60 mud)
126' slightly mud cut gassy oil
(15% gas; 80% oil; 5% mud)
252' slightly gas and mud cut watery mud
(10% gas; 60% oil; 20% water; 10% mud)

Pressures: ISIP 903 psi
FSIP 790 psi
IFP 53-227 psi
FFP 230-324 psi
HSH 1671-1681 psi

3302-3310' Dolomite, as above, decreasing stain, show of free oil and odor.

3310-3320' Dolomite; white, tan; gray, fine and medium crystalline, fair inter-crystalline porosity; fair stain, and saturation; trace of free oil and faint odor.

3320-3330' Dolomite, as above; plus with and clear; boney and translucent cherts.

3330-3350' Dolomite, as above, with white chalk.

3350-3375' Dolomite, white, tan, finely crystalline, slightly cherty, poor visible porosity, chalky luster; with white chert and white chalk.

Rotary Total Depth 3375
Log Total Depth 3375

Remarks:

5 ½" production casing was set and cemented on the Mai Oil Operations Inc., Caler #3.

Respectfully submitted,

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@ruraltel.net

Date: 3/7/2023
 Invoice # 3477

P.O.#:
 Due Date: 4/6/2023
 Division: Russell

Invoice

Contact:
 Mai Oil Operations
Address/Job Location:

8411 Preston Rd. Ste 800
 Dallas TX 75225-5520

Reference:
 CALER 3 SEC 25-18-11

Description of Work:
 SURFACE JOB

Services / Items Included:

Quantity	Price	Taxable
Labor	\$ 869.52	No
Common-Class A	\$ 2,208.39	Yes
POZ Mix-Standard	\$ 477.54	Yes
Calcium Chloride	\$ 436.61	Yes
Bulk Truck Matl-Material Service Charge	\$ 186.14	No
Pump Truck Mileage-Job to Nearest Camp	\$ 144.72	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	\$ 112.56	No
Premium Gel (Bentonite)	\$ 84.79	Yes

Item **Quantity** **Price** **Taxable**

Invoice Terms:

Net 30

SubTotal: \$ 4,520.28
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (113.01)

SubTotal for Taxable Items:	\$ 3,127.15
SubTotal for Non-Taxable Items:	\$ 1,280.13

7.50% Barton County Sales Tax

Thank You For Your Business!

Total: \$ 4,407.27
 Tax: \$ 234.54
Amount Due: \$ 4,641.81
Applied Payments:
Balance Due: \$ 4,641.81

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

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

No. **3477**

Cell 785-324-1041

Date	3-7-23	Sec.	25	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	7:45 PM
								Location							
Caler								Clafin - 3E to C.L., 45 to 70th							
Lease		Well No.				3		Owner							
Contractor		Southwind #1						To Quality Oilwell Cementing, Inc.							
Type Job		Surface						You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size		12 1/4"				T.D.		311'		Charge To		Mai oil operations			
Csg.		8 5/8"				Depth		310'		Street					
Tbg. Size						Depth				City		State			
Tool						Depth				The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.		15'				Shoe Joint		15'		Cement Amount Ordered					
Meas Line						Displace		18 3/4		180 60/40 4% CC 2% Gel					
EQUIPMENT								Common							
Pumptrk		16		No.		Cementer		Tim		Poz. Mix		48 110			
Bulktrk		14		No.		Driver		Ross		Gel.		3			
Bulktrk		P.N.		No.		Driver		Rick		Calcium		8			
JOB SERVICES & REMARKS								Hulls							
Remarks:		Cement did				Circulate				Salt					
Rat Hole										Flowseal					
Mouse Hole										Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
										Handling				191	
										Mileage					
FLOAT EQUIPMENT															
										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge				Surface	
										Mileage				33	
Signature		[Signature]								Tax					
										Discount					
										Total Charge					

Thanks



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: 3/14/2023
Invoice # 3502

P.O.#:

Due Date: 4/13/2023

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8411 Preston Rd. Ste 800
Dallas TX 75225-5520

Reference:

CALER 3 SEC 24-18-11

Description of Work:

PROD STRING

Services / Items Included:

Quantity	Price	Taxable
Labor	\$ 869.52	No
Common-Class A	\$ 2,208.39	Yes
Mud Clear	\$ 1,422.88	Yes
5 1/2" Turbolizer	\$ 912.20	Yes
POZ Mix-Standard	\$ 477.54	Yes
Auto Fill Float Shoe, 5 1/2"	\$ 327.46	Yes
Latch Down Plug & Baffle, 5 1/2"	\$ 259.24	Yes
Salt (Fine)	\$ 191.50	Yes
Bulk Truck Matl-Material Service Charge	\$ 192.97	No
Pump Truck Mileage-Job to Nearest Camp	\$ 144.72	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	\$ 112.56	No

Item	Quantity	Price	Taxable
Flo Seal	50	\$97.46	Yes
Premium Gel (Bentonite)	3	\$84.79	Yes

Invoice Terms:

Net 30

SubTotal: \$ 7,301.23

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (182.53)

SubTotal for Taxable Items: \$ 5,831.93

SubTotal for Non-Taxable Items: \$ 1,286.78

Total: \$ 7,118.70

Tax: \$ 437.39

7.50% Barton County Sales Tax

Amount Due: \$ 7,556.09

Applied Payments:

Balance Due: \$ 7,556.09

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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Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 3502

Cell 785-324-1041

Date	3-14-23	Sec.	24	Twp.	18	Range	11	County	BARTON	State	Ks	On Location		Finish	5:45 AM
								Location	CLAFIN 3E 4S 4W						
Lease	CAJER				Well No. 3			Owner							
Contractor	Buthwing							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Type Job	Longstring							Charge To MAT OIL							
Hole Size	7 7/8 #14				T.D. 3377			Street							
Csg.	5 1/2				Depth			City							
Tbg. Size					Depth			State							
Tool					Depth			The above was done to satisfaction and supervision of owner agent or contractor							
Cement Left in Csg.	33.65				Shoe Joint 33.65			Cement Amount Ordered 1500y 6y 40 109.2 gal							
Meas Line					Displace 81.19			240 Gal 1/2 #7-10 sec 1000g m.f.							
EQUIPMENT								Common 110							
Pumptrk	No.	Cementer	Bill					Poz. Mix 70							
Bulktrk	No.	Driver	Jordon					Gel. 3							
Bulktrk	No.	Driver	Ross					Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt 15							
Rat Hole 15								Flowseal 50#							
Mouse Hole 30								Kol-Seal							
Centralizers								Mud CLR 48 1000 gal							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Pipe size 3361.25								Handling 198							
Shoe It 3365								Mileage							
Insert 3327.83								FLOAT EQUIPMENT							
Pump 1000 gals m.f.								Guide Shoe							
Cemt w/ 135 sk								Centralizer 13							
Pump plug w/ 81.19								Baskets							
Land plug 1300 #								AFU Inserts							
FLOAT Did hold								Float Shoe -1							
								Latch Down -1							
								Pumptrk Charge prod string							
								Mileage 33							
								Thanks							
Signature Richard Jones								Tax							
								Discount							
								Total Charge							