

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. (Submit ACO-5) ☐ Commingled (Submit ACO-4)	PRODUCTION INTERVAL: <table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </tbody> </table>	Top	Bottom				
Top	Bottom							

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	STUMPS 3
Doc ID	1705427

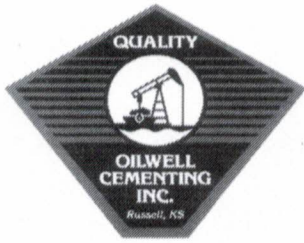
Tops

Name	Top	Datum
Anhydrite	551	1226
Heebner	2864	-1087
Toronto	2880	-1103
Douglas	2896	-1119
Lansing	2998	-1221
BKC	3264	-1487
Conglomerate	3272	-1495
Arbuckle	3286	-1509

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	STUMPS 3
Doc ID	1705427

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	23	312	60/40	180	4%CC2%gel
Production	7.875	5.5	14	3397	60/40	150	10%salt,2%gel



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: 2/2/2022
Invoice # 3400

P.O.#:

Due Date: 3/4/2022

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8411 Preston Rd. Ste 800
Dallas TX 75225-5520

Reference:

STUMPS 3 SEC 24-18-11

Description of Work:

SURFACE JOB

Services / Items Included:							
	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 869.52	No				
Common-Class A	110	\$ 2,208.39	Yes				
POZ Mix-Standard	70	\$ 477.54	Yes				
Calcium Chloride	8	\$ 436.61	Yes				
Bulk Truck Matl-Material Service Charge	191	\$ 186.14	No				
Pump Truck Mileage-Job to Nearest Camp	33	\$ 144.72	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	33	\$ 112.56	No				
Premium Gel (Bentonite)	3	\$ 84.79	Yes				

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
Total:	\$ 4,407.27
Tax:	\$ 234.54

7.50% Barton County Sales Tax

Thank You For Your Business!

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. 3400

Cell 785-324-1041

Date	2-2-23	Sec.	24	Twp.	18	Range	11	County	Barton	State	KS	On Location		Finish	10:00AM		
Stumps								Location								Clafin - E to C.L., 3 3/4 S	
Lease							Well No.	3	Owner							W/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	Surface						Charge To								Mai oil operations		
Hole Size	12 1/4"						T.D.	312'						Street			
Csg.	8 5/8"						Depth	312'						City		State	
Tbg. Size							Depth										
Tool							Depth										
Cement Left in Csg.	20'						Shoe Joint	20'						The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line							Displace	18 3/4 BUS						Cement Amount Ordered		180 60/40 4% CC 2% Gel	
EQUIPMENT								Common								110	
Pumptrk	16	No.	Cementer				Tim	Poz. Mix								70	
Bulktrk	3	No.	Driver				Ross	Gel.								3	
Bulktrk	p.u.	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								Tax									
								Discount									
								Total Charge									

Frank f Rave

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: 2/8/2023
Invoice # 3458

P.O.#:

Due Date: 3/10/2023

Division: Russell

Invoice

Contact:
Mai Oil Operations
Address/Job Location:

8411 Preston Rd. Ste 800
Dallas TX 75225-5520

Reference:
STUMPS 3 SEC 24-18-11

Description of Work:
PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 869.52	No	Flo Seal	50	\$97.46	Yes
Common-Class A	110	\$ 2,208.39	Yes	Premium Gel (Bentonite)	3	\$84.79	Yes
Mud Clear	1000	\$ 1,422.88	Yes				
5 1/2" Turbolizer	13	\$ 912.20	Yes				
POZ Mix-Standard	70	\$ 477.54	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 327.46	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 259.24	Yes				
Salt (Fine)	15	\$ 191.50	Yes				
Bulk Truck Matl-Material Service Charge	198	\$ 192.97	No				
Pump Truck Mileage-Job to Nearest Camp	33	\$ 144.72	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	33	\$ 112.56	No				

Invoice Terms:

Net 30

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

Thank You For Your Business!

Amount Due: \$ 7,556.09
Applied Payments:
Balance Due: \$ 7,556.09

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

No. 3458

Cell 785-324-1041				County		State		On Location		Finish		
Date		Sec.	Twp.	Range	County		State		On Location		Finish	
2-8-23		24	18	11	Barton		KS				10:00 AM	
					Location							
					Clafin - 3E to C.L., 3 3/4 S, W1S							
Stumps					Well No.		Owner					
Lease					3		To Quality Oilwell Cementing, Inc.					
Contractor					Southwind #1		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					
Hole Size					7 7/8"		mai oil operations					
Csg.					5 1/2" 14H		Depth		3386.96			
Tbg. Size							Depth		Street			
Tool							Depth		City			
Cement Left in Csg.					21.20'		Shoe Joint		21.20'			
Meas Line					Displace		82 1/2 BLS		The above was done to satisfaction and supervision of owner agent or contractor.			
					EQUIPMENT		Common		110			
Pumptrk					18 No.		Cementer		Jordan			
Bulktrk					9 No.		Helper		Poz. Mix			
Bulktrk					P.U. No.		Driver		Ross			
							Driver		3			
							Driver		Gel.			
							Driver		Calcium			
							Driver		Hulls			
Remarks:					150 5x to Cement 5 1/2"		Salt		15			
Rat Hole					30 5x		Flowseal		50 #			
Mouse Hole					15 5x NONE		Kol-Seal					
Centralizers					1-13		Mud CLR 48		1000 gal			
Baskets							CFL-117 or CD110 CAF 38					
D/V or Port Collar					Pipe on bottom break		Sand					
Circulation pump					1000 gallon mud		Handling		198			
Clear plug					Rat + mousehole. Hook		Mileage					
5 1/2" Casing + mix					150 5x				FLOAT EQUIPMENT			
Cement. Shut down wash pump							Guide Shoe					
+ lines Displaced plug with							Centralizer		13			
82 1/2 BLS of H2O Released +							Baskets					
Float held.							AFU Inserts					
							Float Shoe		1			
Lift pressure					600 #.		Latch Down		1			
Land plug					1500 #.							
							Pumptrk Charge		prod String			
							Mileage		33			
							Tax					
							Discount					
							Total Charge					
Signature							Thanks					



DRILL STEM TEST REPORT

Prepared For: **Mai Operations Inc.**

8411 Preston RD STE 800
Dallas TX 75225

ATTN: Jim Musgrove

Stump #3

24-18s-11w Barton,KS

Start Date: 2023.02.06 @ 01:05:00

End Date: 2023.02.06 @ 08:37:45

Job Ticket #: 69910 DST #: 1

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

Printed: 2023.02.08 @ 11:52:37



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.06 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:35:30

Time Test Ended: 08:37:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3080.00 ft (KB) To 3094.00 ft (KB) (TVD)

Reference Elevations: 1777.00 ft (KB)

Total Depth: 3094.00 ft (KB) (TVD)

1767.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Outside

Press@RunDepth: 31.55 psig @ 3086.02 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.06

End Date:

2023.02.06

Last Calib.: 1899.12.30

Start Time: 01:05:05

End Time:

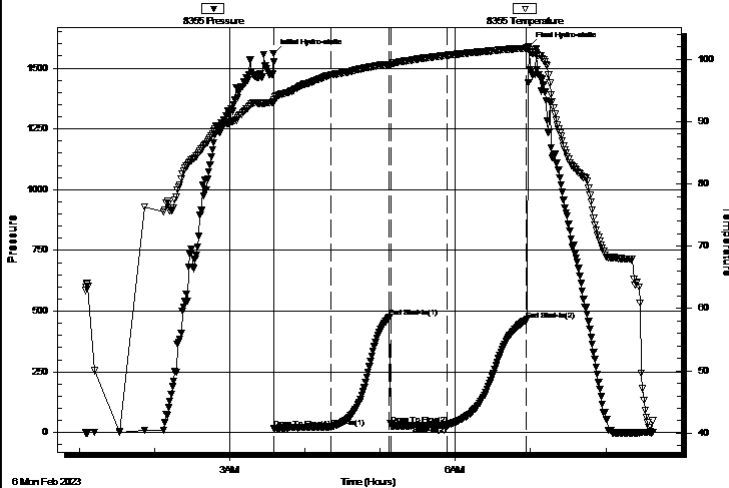
08:37:44

Time On Btm: 2023.02.06 @ 03:34:45

Time Off Btm: 2023.02.06 @ 06:58:45

TEST COMMENT: 45-IF: Fair blow built to 4.57".
45-ISI: Weak surface blow back did not build.
45-FF: Fair blow built to 3.34"
60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.92	93.15	Initial Hydro-static
1	16.66	93.24	Open To Flow (1)
47	23.52	97.49	Shut-In(1)
93	475.21	99.19	End Shut-In(1)
94	36.33	98.96	Open To Flow (2)
139	31.55	100.65	Shut-In(2)
202	463.14	101.77	End Shut-In(2)
204	1589.28	101.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW 60%W 40%M	0.28
15.00	OSMW 10%O 40%M 50%W	0.21

Gas Rates

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

DRILL STEM TEST REPORT

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.06 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:35:30

Time Test Ended: 08:37:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 3080.00 ft (KB) To 3094.00 ft (KB) (TVD)

Total Depth: 3094.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1777.00 ft (KB)

1767.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.02.06

End Date:

2023.02.06

Start Time: 01:05:01

End Time:

08:37:40

Capacity: 8000.00 psig

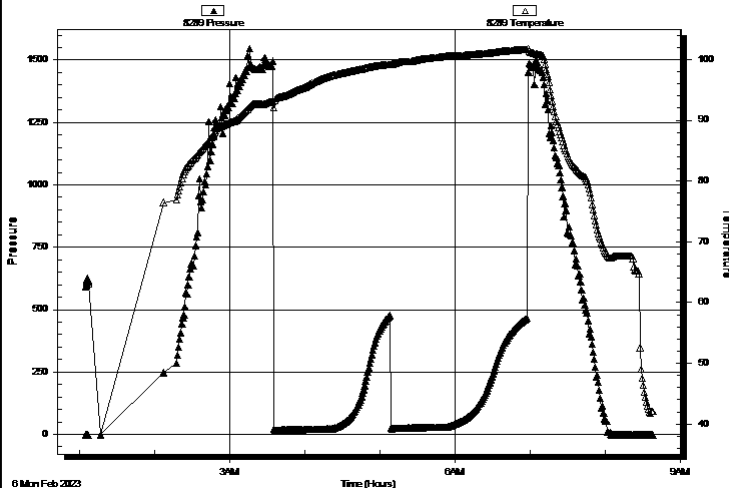
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IF: Fair blow built to 4.57".
45-ISI: Weak surface blow back did not build.
45-FF: Fair blow built to 3.34"
60-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)
20.00	MW 60%W 40%M	0.28
15.00	OSMW 10%O 40%M 50%W	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.06 @ 01:05:00

Tool Information

Drill Pipe:	Length:	3078.00 ft	Diameter:	3.80 inches	Volume:	43.18 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:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	lb
					Total Volume:	43.18 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3080.00 ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:		14.02 ft						
Tool Length:		40.02 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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Shut In Tool	4.00			3058.00	
Hydraulic tool	4.00			3062.00	
Sampler	4.00			3066.00	
EM	5.00			3071.00	
Safety Joint	2.00			3073.00	
Packer	4.00			3077.00	26.00 Bottom Of Top Packer
Packer	3.00			3080.00	
Stubb	1.00			3081.00	
Recorder Carrier	5.00			3086.00	
Recorder	0.01	6839	Inside	3086.01	
Recorder	0.01	8355	Outside	3086.02	
Perforations	5.00			3091.02	
Bullnose	3.00			3094.02	14.02 Bottom Packers & Anchor

Total Tool Length: 40.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.06 @ 01:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 3000.00 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
20.00	MW 60%W 40%M	0.281
15.00	OSMW 10%O 40%M 50%W	0.210

Total Length: 35.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

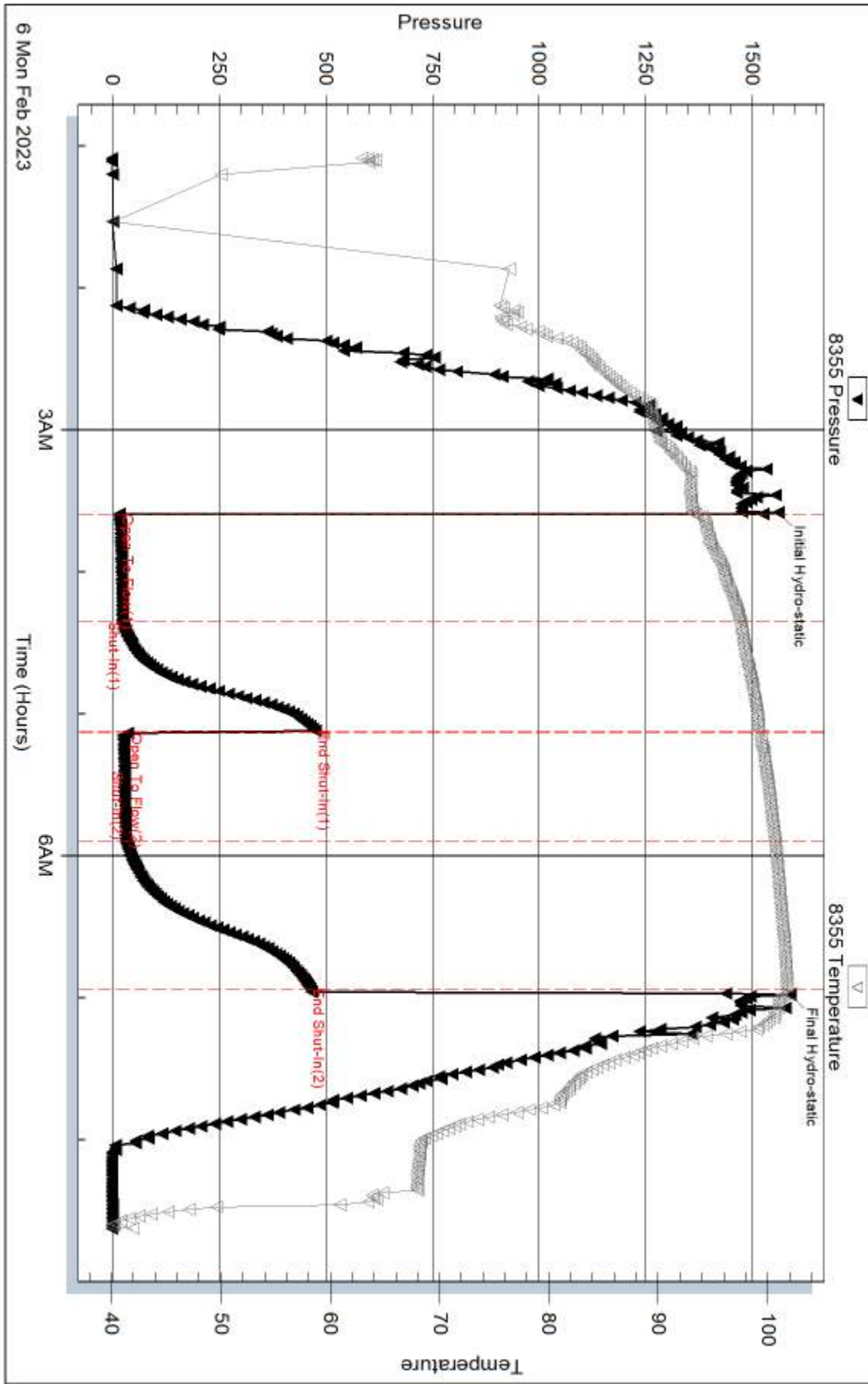
Serial #: 8355

Outside Mai Operations Inc.

Slump #3

DST Test Number: 1

Pressure vs. Time

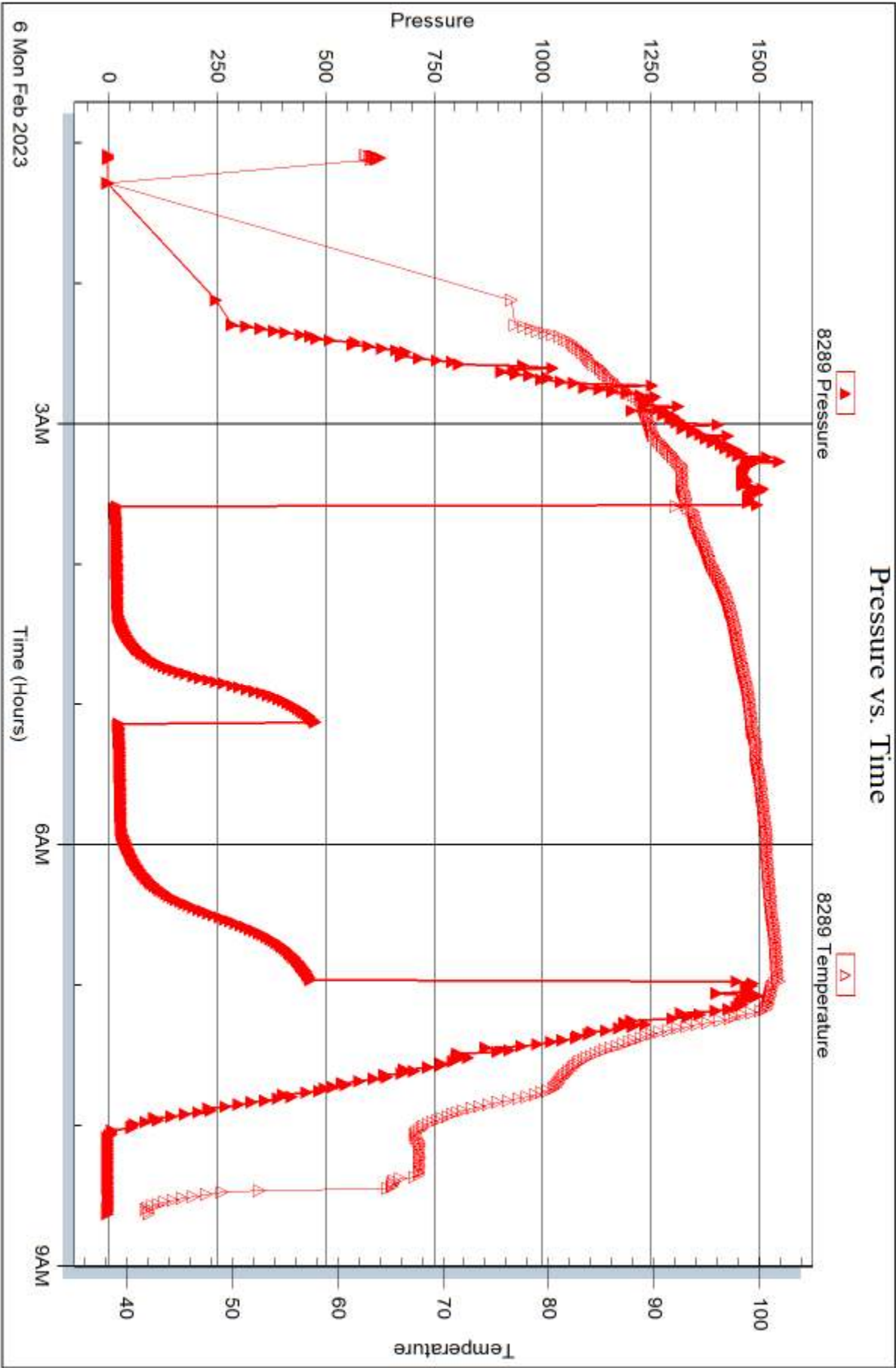


Serial #: 8289

Mai Operations Inc.

Slump #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Operations Inc.**

8411 Preston RD STE 800
Dallas TX 75225

ATTN: Jim Musgrove

Stump #3

24-18s-11w Barton,KS

Start Date: 2023.02.07 @ 02:22:00

End Date: 2023.02.07 @ 10:00:00

Job Ticket #: 69911 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.02.08 @ 11:39:45



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.02.07 @ 02:22:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:00

Time Test Ended: 10:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3272.00 ft (KB) To 3299.00 ft (KB) (TVD)

Total Depth: 3299.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1777.00 ft (KB)

1767.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8355 Outside

Press@RunDepth: 1084.18 psig @ 3278.02 ft (KB)

Start Date: 2023.02.07

End Date:

2023.02.07

Start Time: 02:22:05

End Time:

09:59:59

Capacity: 8000.00 psig

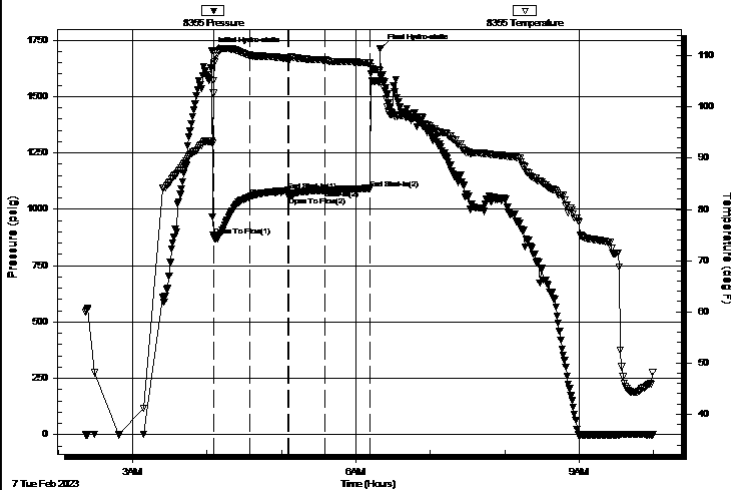
Last Calib.: 2023.02.07

Time On Btm: 2023.02.07 @ 04:03:45

Time Off Btm: 2023.02.07 @ 06:19:45

TEST COMMENT: 30-IF: Strong blow BOB in thirty seconds built to 40.2 psi
30-ISI: Strong surface blow
30-FF: Strong blow BOB in one minute built to 3.74psi
30-ISI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.08	93.32	Initial Hydro-static
2	883.43	102.70	Open To Flow (1)
31	1053.11	110.12	Shut-In(1)
62	1083.08	109.42	End Shut-In(1)
62	1054.01	109.15	Open To Flow (2)
92	1084.18	109.14	Shut-In(2)
128	1092.41	108.56	End Shut-In(2)
136	1712.91	106.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Water 100%W	1.12
2322.00	GOWM 10%G 65%O 15%W 10%M	32.57
126.00	GOWCM 20%G 55%O 15%W 10%M	1.77
252.00	GOWM 15%G 70%O 10%W 5%M	3.53
120.00	GOCM 15%G 75%OB 0%W 10%M	1.68

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 Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.02.07 @ 02:22:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:00

Time Test Ended: 10:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3272.00 ft (KB) To 3299.00 ft (KB) (TVD)

Total Depth: 3299.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1777.00 ft (KB)

1767.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.02.07 End Date: 2023.02.07

Start Time: 02:22:01 End Time: 09:59:40

Capacity: 8000.00 psig

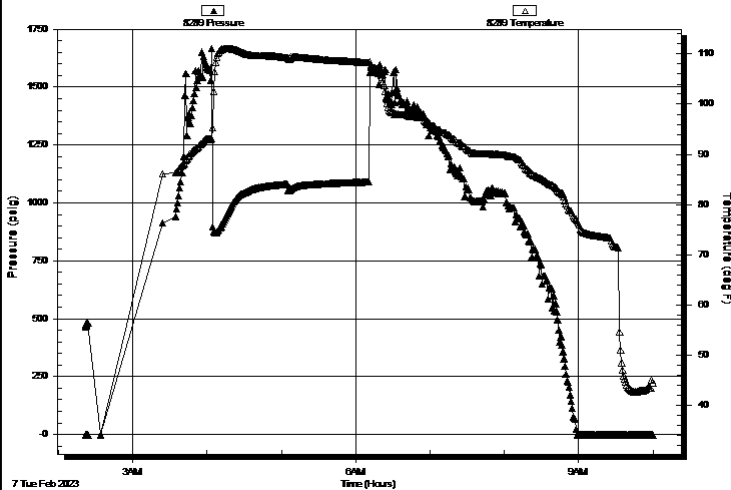
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Strong blow BOB in thirty seconds built to 40.2 psi
30-ISI: Strong surface blow
30-FF: Strong blow BOB in one minute built to 3.74psi
30-ISI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Water 100%W	1.12
2322.00	GOWM 10%G 65%O 15%W 10%M	32.57
126.00	GOWCM 20%G 55%O 15%W 10%M	1.77
252.00	GOWM 15%G 70%O 10%W 5%M	3.53
120.00	GOCM 15%G 75%OB 0%W 10%M	1.68

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.02.07 @ 02:22:00

Tool Information

Drill Pipe:	Length:	3269.00 ft	Diameter:	3.80 inches	Volume:	45.86 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:	22000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	44000.00 lb
					Total Volume:	45.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight: Initial	34000.00 lb
Depth to Top Packer:		3272.00 ft					Final	41000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		27.02 ft						
Tool Length:		53.02 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments: Dropped the Bar

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	4.00			3250.00	
Hydraulic tool	4.00			3254.00	
Sampler	4.00			3258.00	
EM	5.00			3263.00	
Safety Joint	2.00			3265.00	
Packer	4.00			3269.00	26.00 Bottom Of Top Packer
Packer	3.00			3272.00	
Stubb	1.00			3273.00	
Recorder Carrier	5.00			3278.00	
Recorder	0.01	6839	Inside	3278.01	
Recorder	0.01	8355	Outside	3278.02	
Perforations	18.00			3296.02	
Bullnose	3.00			3299.02	27.02 Bottom Packers & Anchor

Total Tool Length: 53.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Operations Inc.

24-18s-11w Barton,KS

8411 Preston RD STE 800
Dallas TX 75225

Stump #3

Job Ticket: 69911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.02.07 @ 02:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 11000.00 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
80.00	Water 100%W	1.122
2322.00	GOWM 10%G 65%O 15%W 10%M	32.572
126.00	GOWCM 20%G 55%O 15%W 10%M	1.767
252.00	GOWM 15%G 70%O 10%W 5%M	3.535
120.00	GOCM 15%G 75%OB 0%W 10%M	1.683

Total Length: 2900.00 ft Total Volume: 40.679 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped the bar.

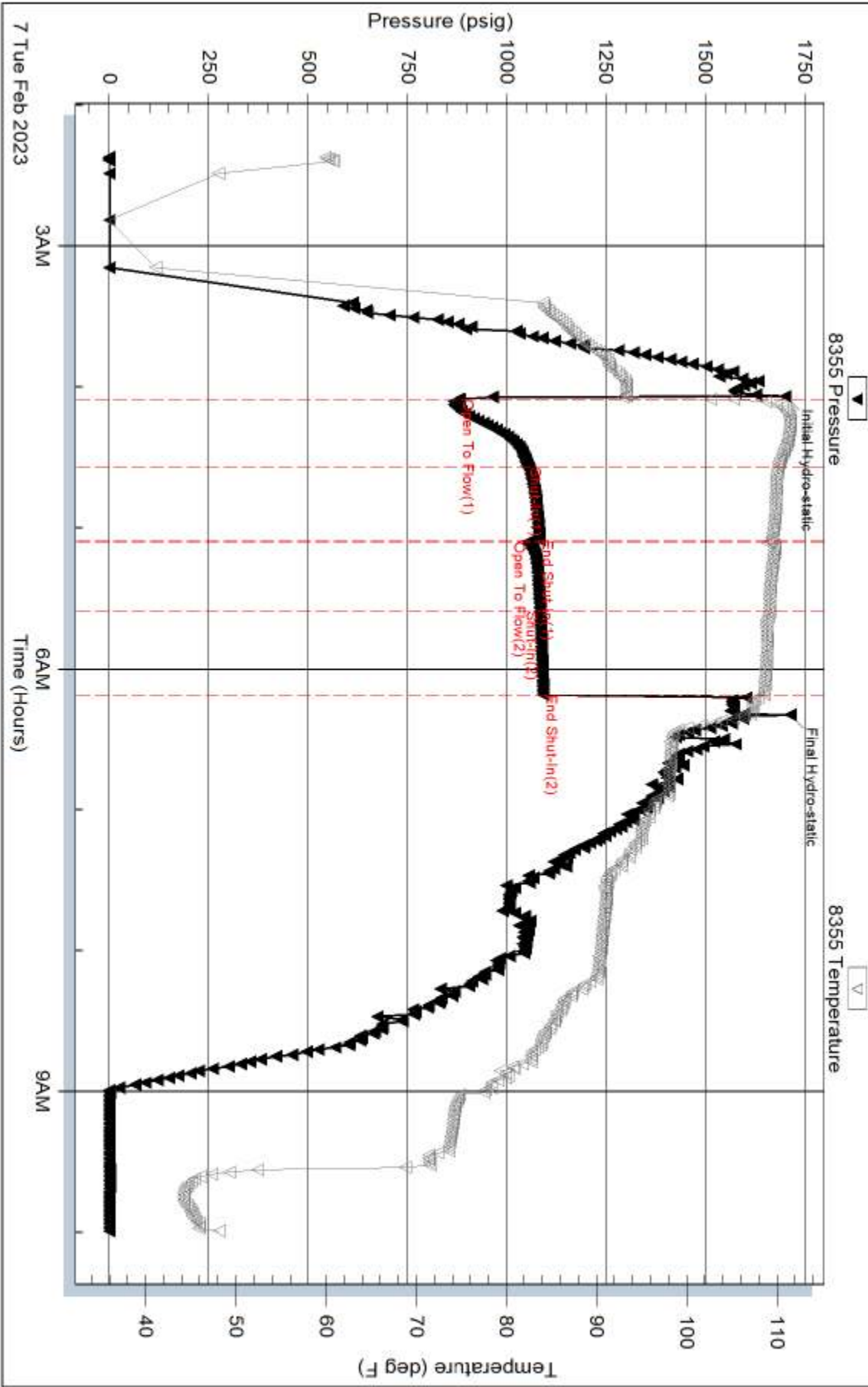
Serial #: 8355

Outside Mai Operations Inc.

Slump #3

DST Test Number: 2

Pressure vs. Time

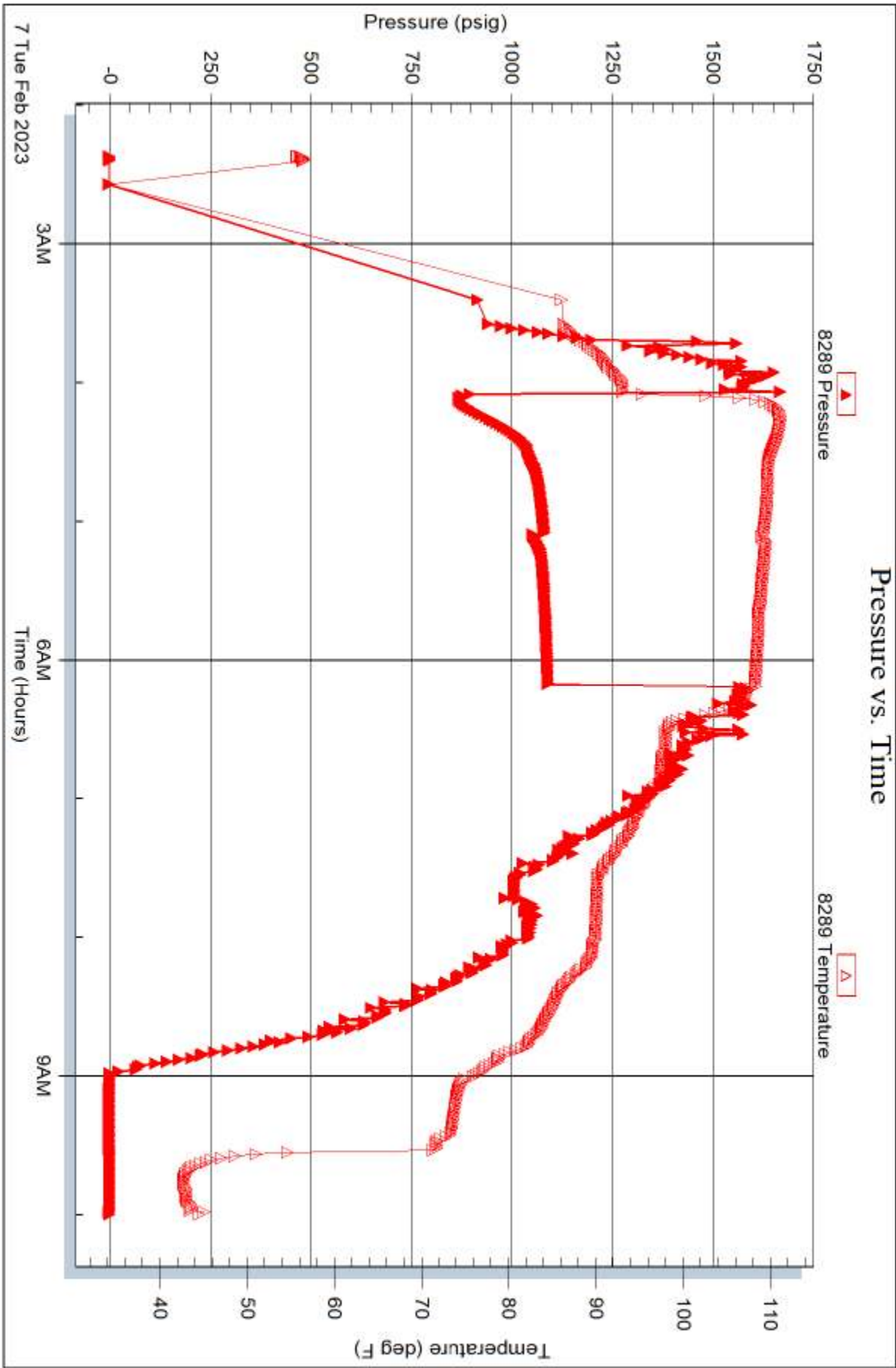


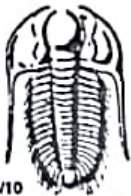
Serial #: 8289

Mai Operations Inc.

Slump #3

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69910

Well Name & No. Stump #3 Test No. 1 Date 2-6-23
 Company Mai Operations Inc Elevation 1777 KB 1767 GL
 Address 8411 Preston RD STE 800 Dallas TX 75225
 Co. Rep / Geo. Jim Murgan Rig Southwind 1
 Location: Sec. 24 Twp 18s Rge. 11w Co. Barton State KS

Interval Tested 3080 - 3094 Zone Tested Lawing "G"
 Anchor Length 14' Drill Pipe Run 3078 Mud Wt. 8.9
 Top Packer Depth 3076 Drill Collars Run 0 Vis 5.5
 Bottom Packer Depth 3080 Wt. Pipe Run 0 WL 7.6
 Total Depth 3094 Chlorides 3000 ppm System LCM 3#

Blow Description IF: Fair blow built to 4.57"
IS1: Weak surface blow back didn't build
FF: Fair blow built to 3.34"
ES1: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
15	OSMW	0	10	50	40
20	MW	0	0	60	40
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 35 BHT 102.4 Gravity NA API RW 543 @ 40 F Chlorides 21,500 ppm

(A) Initial Hydrostatic	<u>156.1</u>	☒ Test	<u>1800</u>	T-On Location	<u>00:19</u>
(B) First Initial Flow	<u>17</u>	☐ Jars		T-Started	<u>01:45</u>
(C) First Final Flow	<u>24</u>	☐ Safety Joint		T-Open	<u>03:36</u>
(D) Initial Shut-In	<u>475</u>	☐ Circ Sub		T-Pulled	<u>06:55</u>
(E) Second Initial Flow	<u>36</u>	☐ Hourly Standby		T-Out	<u>08:15</u>
(F) Second Final Flow	<u>32</u>	☒ Mileage	<u>73.25</u>	Comments	<u>B-45 @ 0105</u> <u>EM @ 1:35</u>
(G) Final Shut-In	<u>463</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1589</u>	☐ Straddle		☒ EM Tool	<u>-350</u>

Initial Open	<u>45</u>	☐ Shale Packer		☐ Ruined Shale Packer	
Initial Shut-In	<u>45</u>	☐ Extra Packer		☐ Ruined Packer	
Final Flow	<u>45</u>	☐ Extra Recorder		☐ Extra Copies	
Final Shut-In	<u>60</u>	☐ Day Standby		Sub Total	<u>-350</u>
		☐ Accessibility		Total	<u>1525.25</u>
		Sub Total	<u>1875.25</u>	MP/DST Disc't	

Approved By _____ Our Representative Jim Murgan
 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69911

Well Name & No. Stumpy 3 Test No. 2 Date 2-7-23
 Company Mai Operations Elevation 1777 KB 1767 GL
 Address 8411 Preston RD STE 800 Dallas TX 75225
 Co. Rep / Geo. Jim Musgrave Rig Southwind 1
 Location: Sec. 29 Twp 18S Rge. 11W Co. Barton State KS

Interval Tested 3272-3299 Zone Tested Arbuckle
 Anchor Length 27' Drill Pipe Run 3249 Mud Wt. 9.1
 Top Packer Depth 3268 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 3272 Wt. Pipe Run 0 WL 96
 Total Depth 3299 Chlorides 11,000 ppm System LCM 2.5H
 Blow Description IF: Strong blow BOB in thirty seconds built to 40.2 psi
IS: Strong surface blow
FF: Strong blow BOB in 1 minute built to 3.74 psi
FSI: No blow back

Rec <u>120</u>	Feet of <u>GOCM</u>	<u>15</u> %gas	<u>75</u> %oil	<u>0</u> %water	<u>10</u> %mud
Rec <u>252</u>	Feet of <u>GOWM</u>	<u>15</u> %gas	<u>70</u> %oil	<u>10</u> %water	<u>5</u> %mud
Rec <u>126</u>	Feet of <u>GOWCM</u>	<u>20</u> %gas	<u>55</u> %oil	<u>15</u> %water	<u>10</u> %mud
Rec <u>2022-2322</u>	Feet of <u>GOWM</u>	<u>10</u> %gas	<u>65</u> %oil	<u>15</u> %water	<u>10</u> %mud
Rec <u>70</u>	Feet of <u>WATER</u>	<u>0</u> %gas	<u>0</u> %oil	<u>100</u> %water	<u>0</u> %mud

Rec Total 29.00 BHT 109.9 Gravity 22 API RW 35 @ 47 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 1701 ☒ Test 1800 T-On Location 0:15
 (B) First Initial Flow 883 ☐ Jars T-Started 2:50
 (C) First Final Flow 1053 ☐ Safety Joint T-Open 4:05
 (D) Initial Shut-In 1083 ☐ Circ Sub T-Pulled 6:10
 (E) Second Initial Flow 1054 ☐ Hourly Standby T-Out 9:45
 (F) Second Final Flow 1084 ☒ Mileage 43rt 75.25 Comments Batter 2:32
 (G) Final Shut-In 1072 ☐ Sampler EM 2:31
 (H) Final Hydrostatic 1713 ☐ Straddle Pulled 20 std short Trip

☐ EM Tool -350
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Initial Open 30
 Initial Shut-In 30
 Final Flow 39
 Final Shut-In 30
 Sub Total 1875.25 MP/DST Disc't

Approved By [Signature] Our Representative Ridley Samson
 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.

OPERATOR

Company: Mai Oil Operations, Inc.
 Address: 8411 Preston Road, Ste 800
 Dallas, TX 75225-5520

Contact Geologist: Jim Musgrove
 Contact Phone Nbr: 620-786-0839
 Well Name: Stumps #3
 Location: 24-18s-11w NE-SE-NW-SE
 API: 15-009-26379-00-00
 Pool:
 State: Kansas

Field: Meadowside
 Country: USA



MAI OIL
OPERATIONS, INC.

Scale 1:240 Imperial

Well Name: Stumps #3
 Surface Location: 24-18s-11w NE-SE-NW-SE
 Bottom Location:
 API: 15-009-26379-00-00
 License Number: 5259
 Spud Date: 2/1/2023 Time: 12:00 AM
 Region: Barton
 Drilling Completed: 2/8/2023 Time: 12:00 AM
 Surface Coordinates: 1699' FSL & 1321' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1767.00ft
 K.B. Elevation: 1777.00ft
 Logged Interval: 2700.00ft To: 3398.00ft
 Total Depth: 3400.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	312 ft			
Int Casing					
Prod Casing	5 1/2" in	3397 ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

OPEN HOLE LOGS

Logging Company: ELI
 Logging Engineer: Jeff Luebbers
 Truck #:
 Logging Date: Time Spent:
 # Logs Run: 0 # Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
	0.00ft	0.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

Well Type: Vertical
Longitude:
Latitude:
N/S Co-ord: 1699' FSL
E/W Co-ord: 1321' FEL

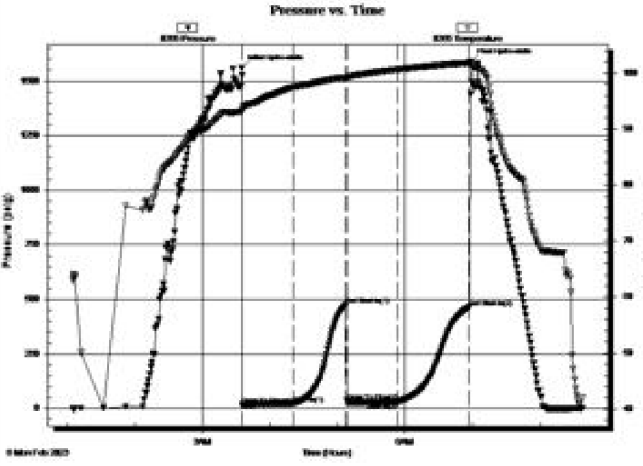
Name: James C Musgrove

Time: 12:00 AM
Time: 12:00 AM
Time:

K.B. Elevation: 1777.00ft Ground Elevation: 1767.00ft
K.B. to Ground: 10.00ft

James C Musgrove
Petroleum Geologist

[illegible]

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																					
	Mai Operations Inc. 8411 Preston RD STE 800 Dallas TX 75225 ATTN: Jim Musgrove	24-18s-11w/Barton Stump # 3 Job Ticket: 69910 DST#: 1 Test Start: 2023.02.06 @ 01:05:00																																				
GENERAL INFORMATION: Formation: Lansing "G" Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:35:30 Time Test Ended: 08:37:45 Interval: 3080.00 ft (KB) To 3094.00 ft (KB) (TVD) Total Depth: 3094.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good Test Type: Conventional Bottom Hole (Initial) Tester: Richie Samora Unit No: 66 Reference Elevations: 1777.00 ft (KB) 1767.00 ft (CF) KB to GR/CF: 10.00 ft																																						
Serial #: 8355 Outside Press@RunDepth: 31.55 psig @ 3086.02 ft (KB) Start Date: 2023.02.06 End Date: 2023.02.06 Start Time: 01:05:05 End Time: 08:37:44 Capacity: 8000.00 psig Last Calib.: 1899.12.30 Time On Btm: 2023.02.06 @ 03:34:45 Time Off Btm: 2023.02.06 @ 06:58:45																																						
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Trilobite Testing, Inc Ref. No: 69910 Printed: 2023.02.06 @ 11:09:17																																						

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Mai Operations Inc. 8411 Preston RD STE 800 Dallas TX 75225 ATTN: Jim Musgrove	24-18s-11w/Barton Stump # 3 Job Ticket: 69911 DST#: 2 Test Start: 2023.02.07 @ 02:22:00

