

Confidentiality Requested:

☒ Yes ☐ NoKANSAS 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 # 5259

Name: Mai Oil Operations, Inc.

Address 1: 8111 DOUGLAS AVE STE 710

Address 2:

City: DALLAS State: TX Zip: 75225 + 6540

Contact Person: Brent Homeier

Phone: (214) 219-8883

CONTRACTOR: License # 33350

Name: Southwind Drilling, Inc.

Wellsite Geologist: James Musgrove

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 #:

11/28/2023 12/5/2023 1/5/2024

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: 15-167-24135-00-00

Spot Description:

N2 - NW-NW-SW Sec. 4 Twp. 15 S. R. 14 ☐ East ☒ West2565 Feet from ☐ North / ☒ South Line of Section330 Feet from ☐ East / ☒ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☒ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Russell

Lease Name: KRUG - DRISCOLL UNIT Well #: 1

Field Name:

Producing Formation: LKC

Elevation: Ground: 1768 Kelly Bushing: 1778

Total Vertical Depth: 3296 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 477 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: 41000 ppm Fluid volume: 80 bbls

Dewatering method used: Evaporated

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: 03/04/2024

☐ Confidential Release Date: 03/04/2026☒ Wireline Log Received ☒ Drill Stem Tests Received☒ Geologist Report / Mud Logs Received☐ UIC DistributionALT ☒ I ☐ II ☐ III Approved by: Todd Bryant Date: 03/06/2024

Operator Name: Mai Oil Operations, Inc. Lease Name: KRUG - DRISCOLL UNIT Well #: 1
 Sec. 4 Twp. 15 S. R. 14 ☐ East ☒ West County: Russell

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 ☒ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☒ Yes ☐ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No Geologist Report / Mud Logs ☒ Yes ☐ No List All E. Logs Run: DIL Micro CDN	☒ Log Formation (Top), Depth and Datum ☐ Sample <table style="width: 100%;"> <tr> <td style="width: 33%;">Name Attached</td> <td style="width: 33%;">Top Attached</td> <td style="width: 33%;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

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
Surface	12.25	8.625	23	477	60/40	250	4%CC,2% gel
Production	7.875	5.5	14	3294	60/40	180	10%salt,2%gel, 1/4# Flo

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: <u>2/26/2024</u>	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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom <u>2924</u> <u>3011</u>
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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>
4	2924	2928			1000-20%
4	2966	2970			1000-20%
4	2988	2992			1000-20%
4	3007	3011			1000-20%
TUBING RECORD: Size: Set At: Packer At:					

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	KRUG - DRISCOLL UNIT 1
Doc ID	1766401

Tops

Name	Top	Datum
Anhydrite	768	1010
Grand Haven	2339	-561
Dover	2367	-589
Elmont	2471	-693
Topeka	2671	-893
Heebner	2904	-1126
Toronto	2921	-1143
Douglas	2936	-1158
Lansing	2964	-1186
Base KC	3168	-1390
Arb	3203	-1445

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	KRUG - DRISCOLL UNIT 1
Doc ID	1766401

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	477	60/40	250	4%CC,2% gel
Production	7.875	5.5	14	3294	60/40	180	10%salt,2 %gel, 1/4# Flo



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W /Russell,KS

Start Date: 2023.12.01 @ 02:54:00

End Date: 2023.12.01 @ 08:56:30

Job Ticket #: 70171 DST #: 1

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

Printed: 2023.12.12 @ 12:02:30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70171

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2023.12.01 @ 02:54:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:00

Time Test Ended: 08:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 2343.00 ft (KB) To 2400.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 2400.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 90.96 psig @ 2387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.01

End Date:

2023.12.01

Last Calib.: 1899.12.30

Start Time: 02:54:05

End Time:

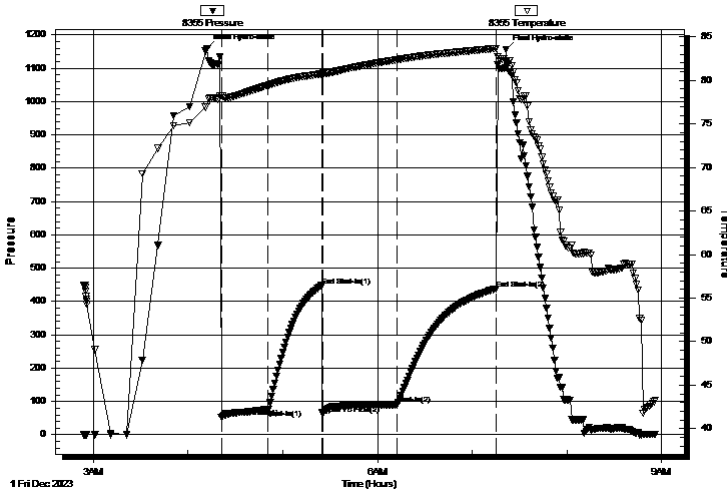
08:56:29

Time On Btm: 2023.12.01 @ 04:12:00

Time Off Btm: 2023.12.01 @ 07:21:30

TEST COMMENT: 30-IF: Strong blow BOB in 1 minute built ton 95"
30-ISI: Weak surface blow did not build
45-FF: Strong blow BOB immediate built to 5.26psi
60-FSI: Weak blow built to 2.75"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1159.77	77.18	Initial Hydro-static
9	53.06	78.23	Open To Flow (1)
39	75.38	79.44	Shut-In(1)
73	447.57	80.75	End Shut-In(1)
74	61.96	80.84	Open To Flow (2)
121	90.96	82.38	Shut-In(2)
183	438.28	83.68	End Shut-In(2)
190	1156.25	82.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCWM 5%G 5%O 15%W 75%M	0.30
60.00	SOCM 1%O 99%M	0.30
30.00	MUD 100%M	0.40

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70171

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2023.12.01 @ 02:54:00

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Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:00

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Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

Interval: 2343.00 ft (KB) To 2400.00 ft (KB) (TVD)

Total Depth: 2400.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1778.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 2387.00 ft (KB)

Start Date: 2023.12.01

End Date:

2023.12.01

Start Time: 02:54:01

End Time:

08:56:30

Capacity: 8000.00 psig

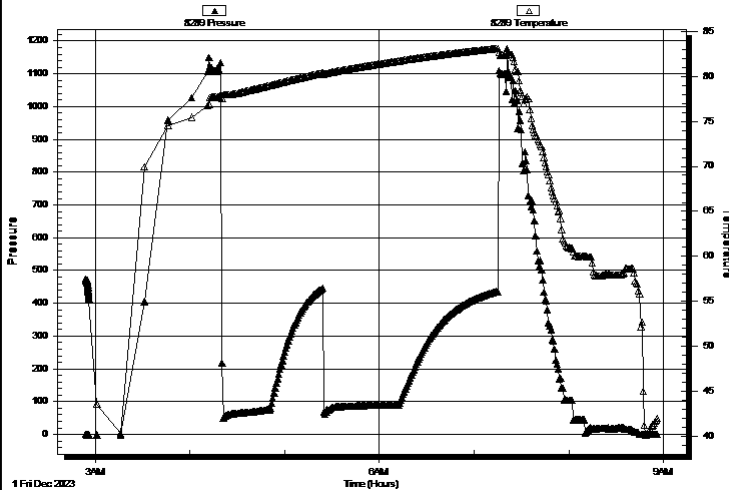
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Strong blow BOB in 1 minute built ton 95"
30-ISI: Weak surface blow did not build
45-FF: Strong blow BOB immediate built to 5.26psi
60-FSI: Weak blow built to 2.75"

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	GOCWM 5%G 5%O 15%W 75%M	0.30
60.00	SOCM 1%O 99%M	0.30
30.00	MUD 100%M	0.40

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70171

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2023.12.01 @ 02:54:00

Tool Information

Drill Pipe:	Length:	2221.00 ft	Diameter:	3.80 inches	Volume:	31.15 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:	27000.00 lb
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	31.75 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight: Initial	40000.00 lb
Depth to Top Packer:		2343.00 ft					Final	40000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		57.00 ft						
Tool Length:		87.00 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		2314.00	
Shut In Tool	5.00		2319.00	
Hydraulic tool	8.00	Fluid	2327.00	
EM	4.00		2331.00	
Safety Joint	3.00		2334.00	
Packer	5.00		2339.00	30.00 Bottom Of Top Packer
Packer	4.00		2343.00	
Stubb	1.00		2344.00	
Perforations	5.00		2349.00	
Change Over Sub	1.00		2350.00	
Drill Pipe	31.00		2381.00	
Change Over Sub	1.00		2382.00	
Recorder Carrier	5.00		2387.00	
Recorder	0.00	8355 Inside	2387.00	
Recorder	0.00	8289 Outside	2387.00	
Perforations	10.00		2397.00	
Bullnose	3.00		2400.00	57.00 Bottom Packers & Anchor
Total Tool Length:	87.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70171

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2023.12.01 @ 02:54:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: in³

Resistivity: 8.80 ohm.m

Salinity: 32000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 28000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCWM 5%G 5%O 15%W 75%M	0.295
60.00	SOCM 1%O 99%M	0.295
30.00	MUD 100%M	0.403

Total Length: 150.00 ft

Total Volume: 0.993 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1250' GIP

Serial #: 8355

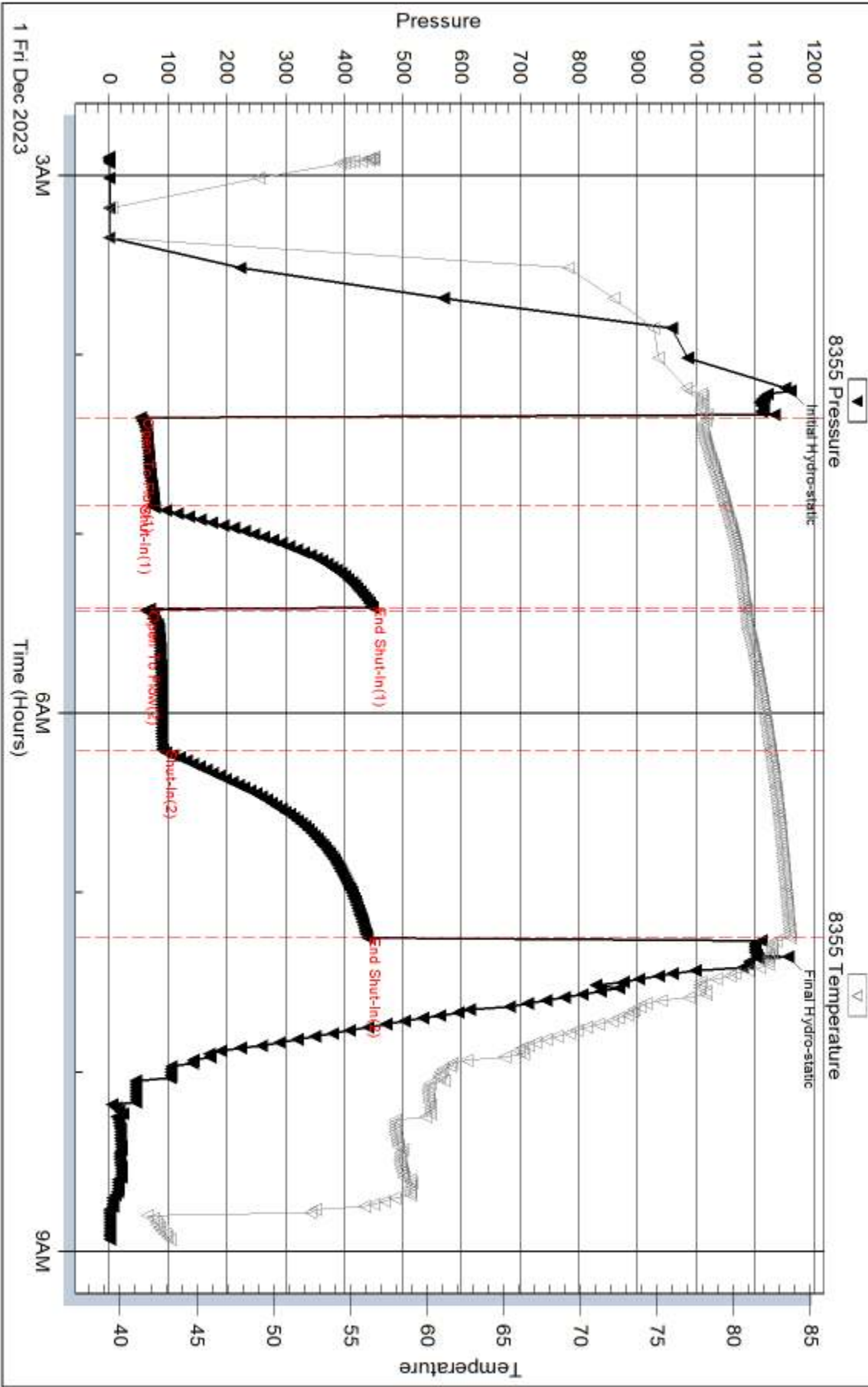
Inside

Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 1

Pressure vs. Time

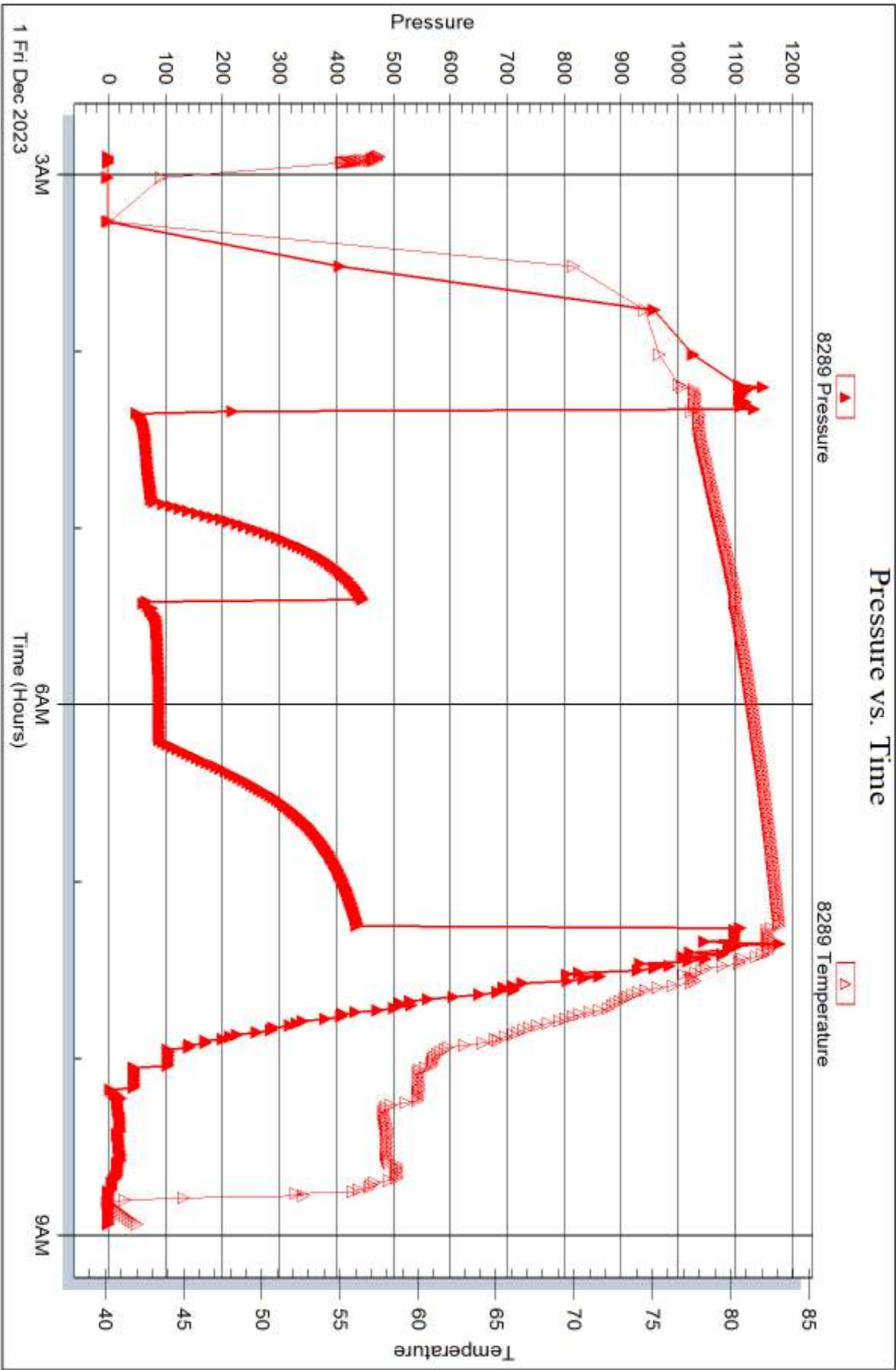


Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W /Russell,KS

Start Date: 2023.12.02 @ 15:04:00

End Date: 2023.12.02 @ 21:05:00

Job Ticket #: 70172 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.12 @ 12:01:53



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70172

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2023.12.02 @ 15:04:00

GENERAL INFORMATION:

Formation: **Lansing 'A-C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:45:00

Time Test Ended: 21:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 2970.00 ft (KB) To 3010.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3010.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 93.16 psig @ 2976.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.02

End Date:

2023.12.02

Last Calib.: 1899.12.30

Start Time: 15:04:05

End Time:

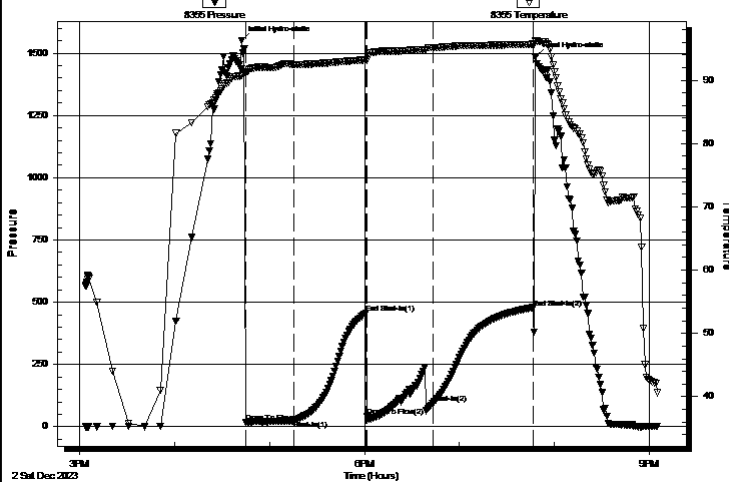
21:04:59

Time On Btm: 2023.12.02 @ 16:42:30

Time Off Btm: 2023.12.02 @ 19:48:00

TEST COMMENT: 30-IF: Weak blow built to 5"
45-ISI: No blow back
45-FF: Weak blow built to 1.8"
60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.00	90.72	Initial Hydro-static
3	18.31	90.99	Open To Flow (1)
33	24.64	92.49	Shut-In(1)
79	455.58	93.23	End Shut-In(1)
79	39.98	93.19	Open To Flow (2)
121	93.16	95.16	Shut-In(2)
184	478.15	95.69	End Shut-In(2)
186	1485.79	96.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCWM 10%G 5%O 40%W 45%M	0.42

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70172

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2023.12.02 @ 15:04:00

GENERAL INFORMATION:

Formation: **Lansing 'A-C'**

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Total Depth: 3010.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1778.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 2976.00 ft (KB)

Start Date: 2023.12.02

End Date:

2023.12.02

Start Time: 15:04:01

End Time:

21:05:00

Capacity: 8000.00 psig

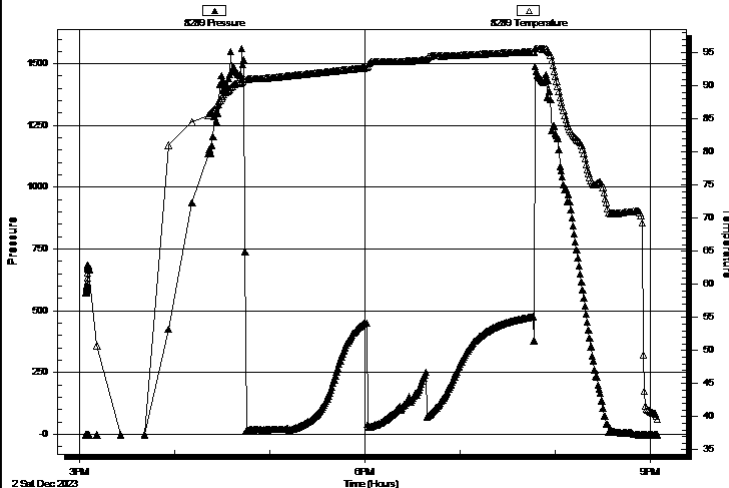
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Weak blow built to 5"
45-ISI: No blow back
45-FF: Weak blow built to 1.8"
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)
30.00	GOCWM 10%G 5%O 40%W 45%M	0.42

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70172

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2023.12.02 @ 15:04:00

Tool Information

Drill Pipe:	Length:	2951.00 ft	Diameter:	3.80 inches	Volume:	41.39 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:	35000.00 lb
					Total Volume:	41.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		2970.00 ft					Final	32000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		40.00 ft						
Tool Length:		75.00 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		2936.00	
Shut In Tool	5.00		2941.00	
Hydraulic tool	8.00	Fluid	2949.00	
Jars	5.00		2954.00	
EM	4.00		2958.00	
Safety Joint	3.00		2961.00	
Packer	5.00		2966.00	35.00 Bottom Of Top Packer
Packer	4.00		2970.00	
Stubb	1.00		2971.00	
Handling Sub	5.00		2976.00	
Recorder	0.00	8355 Inside	2976.00	
Recorder	0.00	8289 Outside	2976.00	
Perforations	31.00		3007.00	
Bullnose	3.00		3010.00	40.00 Bottom Packers & Anchor

Total Tool Length: 75.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70172

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2023.12.02 @ 15:04:00

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:

30500 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: 6.80 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOCWM 10%G 5%O 40%W 45%M	0.421

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

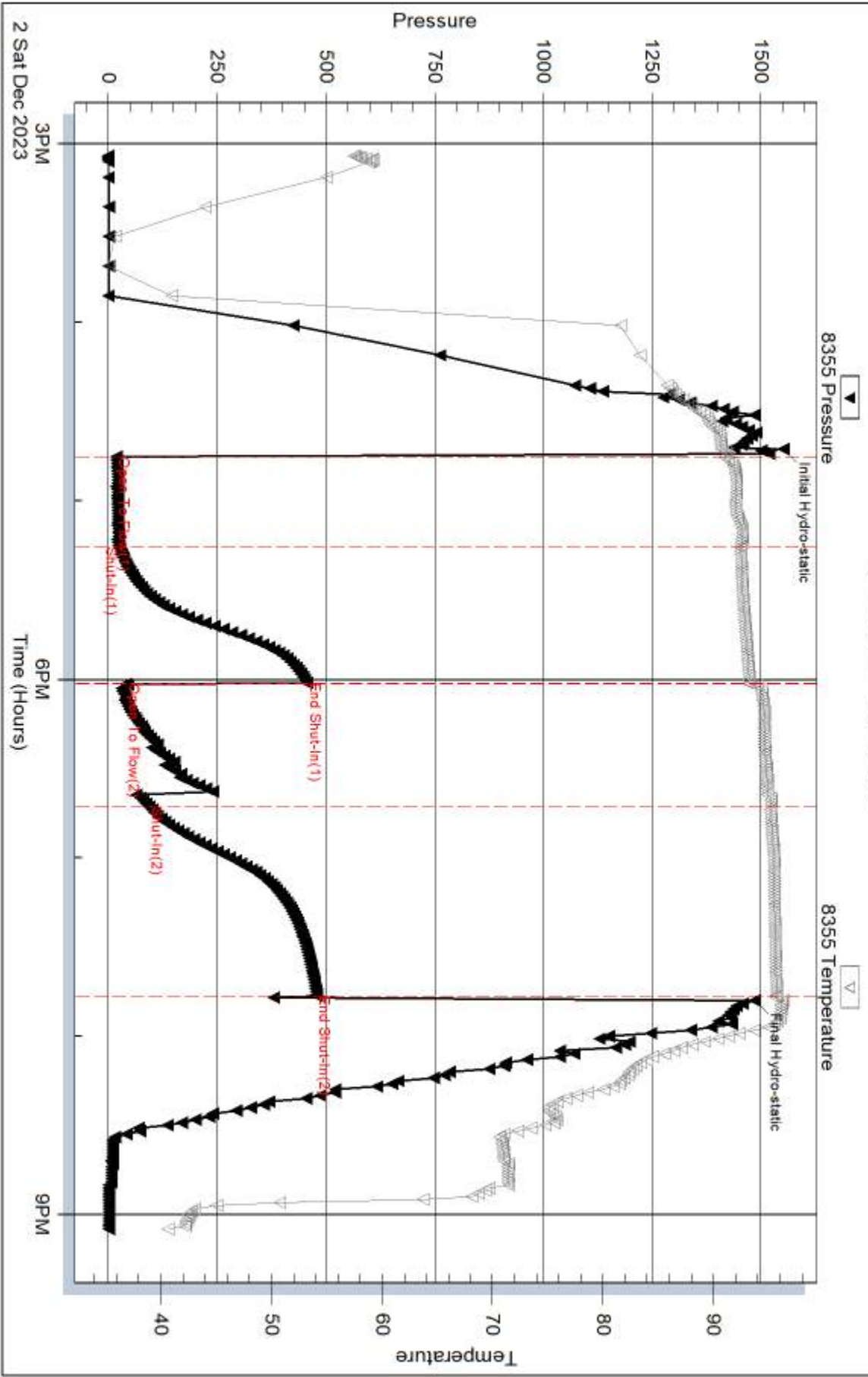
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

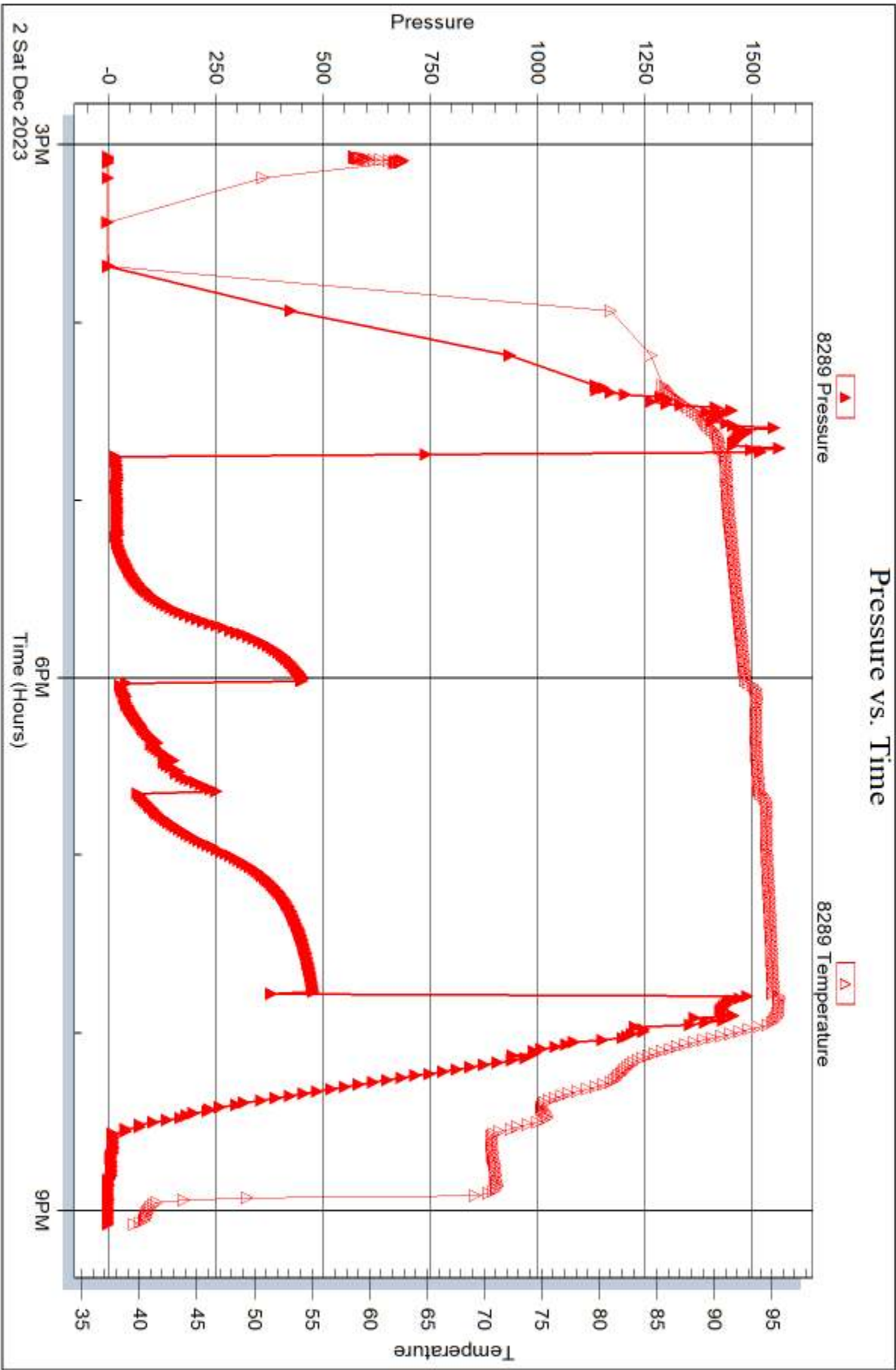


Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W /Russell,KS

Start Date: 2023.12.03 @ 12:50:00

End Date: 2023.12.03 @ 18:50:30

Job Ticket #: 70173 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.12 @ 12:00:22

Mai Oil Operations

4-15S-14W /Russell,KS

Krug-Driscoll Unit#1

DST # 3

Lansing/KC 'H-J'

2023.12.03



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70173

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2023.12.03 @ 12:50:00

GENERAL INFORMATION:

Formation: **Lansing/KC 'H-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3102.00 ft (KB) To 3190.00 ft (KB) (TVD)

Total Depth: 3190.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1778.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 112.99 psig @ 3177.00 ft (KB)

Start Date: 2023.12.03

End Date:

2023.12.03

Start Time: 12:50:05

End Time:

18:50:29

Capacity: 8000.00 psig

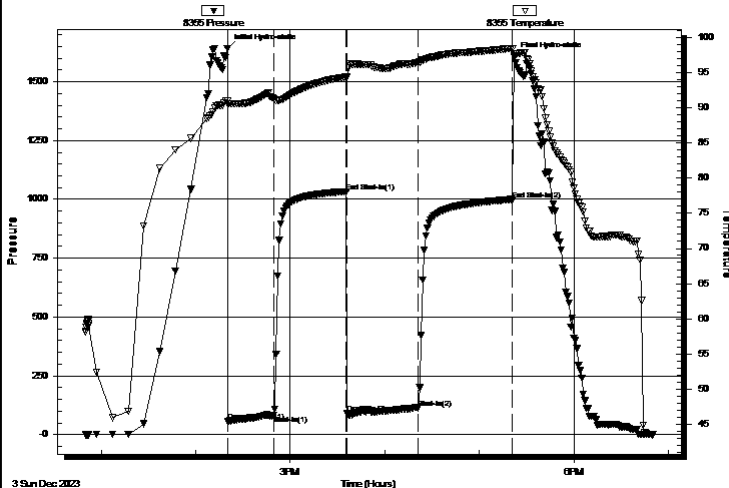
Last Calib.: 1899.12.30

Time On Btm: 2023.12.03 @ 14:20:00

Time Off Btm: 2023.12.03 @ 17:22:00

TEST COMMENT: 30-IF: Weak blow built to 8"
45-ISI: No blow back
45-FF: 30 seconds into flow Weak blow built to 9"
60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.50	90.94	Initial Hydro-static
1	57.57	90.61	Open To Flow (1)
30	81.26	91.32	Shut-In(1)
76	1030.99	94.40	End Shut-In(1)
76	89.02	94.36	Open To Flow (2)
121	112.99	96.43	Shut-In(2)
181	998.05	98.45	End Shut-In(2)
182	1604.70	97.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MUD 100%M	1.12
40.00	OSWM 1%O 20%W 79%M	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70173

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2023.12.03 @ 12:50:00

GENERAL INFORMATION:

Formation: **Lansing/KC 'H-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3102.00 ft (KB) To 3190.00 ft (KB) (TVD)

Total Depth: 3190.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1778.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3177.00 ft (KB)

Start Date: 2023.12.03

End Date:

2023.12.03

Start Time: 12:50:01

End Time:

18:50:15

Capacity: 8000.00 psig

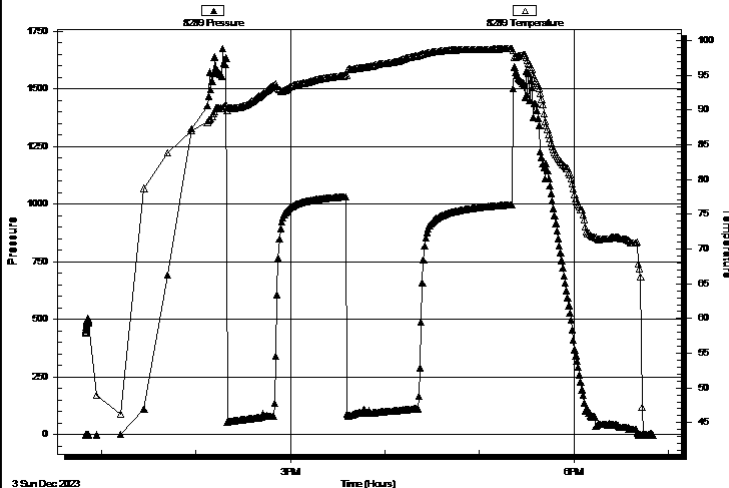
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Weak blow built to 8"
45-ISI: No blow back
45-FF: 30 seconds into flow Weak blow built to 9"
60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MUD 100%M	1.12
40.00	OSWM 1%O 20%W 79%M	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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70173

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2023.12.03 @ 12:50:00

Tool Information

Drill Pipe:	Length:	3079.00 ft	Diameter:	3.80 inches	Volume:	43.19 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:	43.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		12.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		3102.00 ft					Final	36500.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		88.00 ft						
Tool Length:		123.00 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		3068.00	
Shut In Tool	5.00		3073.00	
Hydraulic tool	8.00	Fluid	3081.00	
Jars	5.00		3086.00	
EM	4.00		3090.00	
Safety Joint	3.00		3093.00	
Packer	5.00		3098.00	35.00 Bottom Of Top Packer
Packer	4.00		3102.00	
Stubb	1.00		3103.00	
Perforations	4.00		3107.00	
Change Over Sub	1.00		3108.00	
Drill Pipe	63.00		3171.00	
Change Over Sub	1.00		3172.00	
Recorder Carrier	5.00		3177.00	
Recorder	0.00	8355 Inside	3177.00	
Recorder	0.00	8289 Outside	3177.00	
Perforations	10.00		3187.00	
Bullnose	3.00		3190.00	88.00 Bottom Packers & Anchor

Total Tool Length: 123.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70173

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2023.12.03 @ 12:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: in³

Resistivity: 6.80 ohm.m

Salinity: 7700.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 22000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MUD 100%M	1.122
40.00	OSWM 1%O 20%W 79%M	0.561

Total Length: 120.00 ft

Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8355

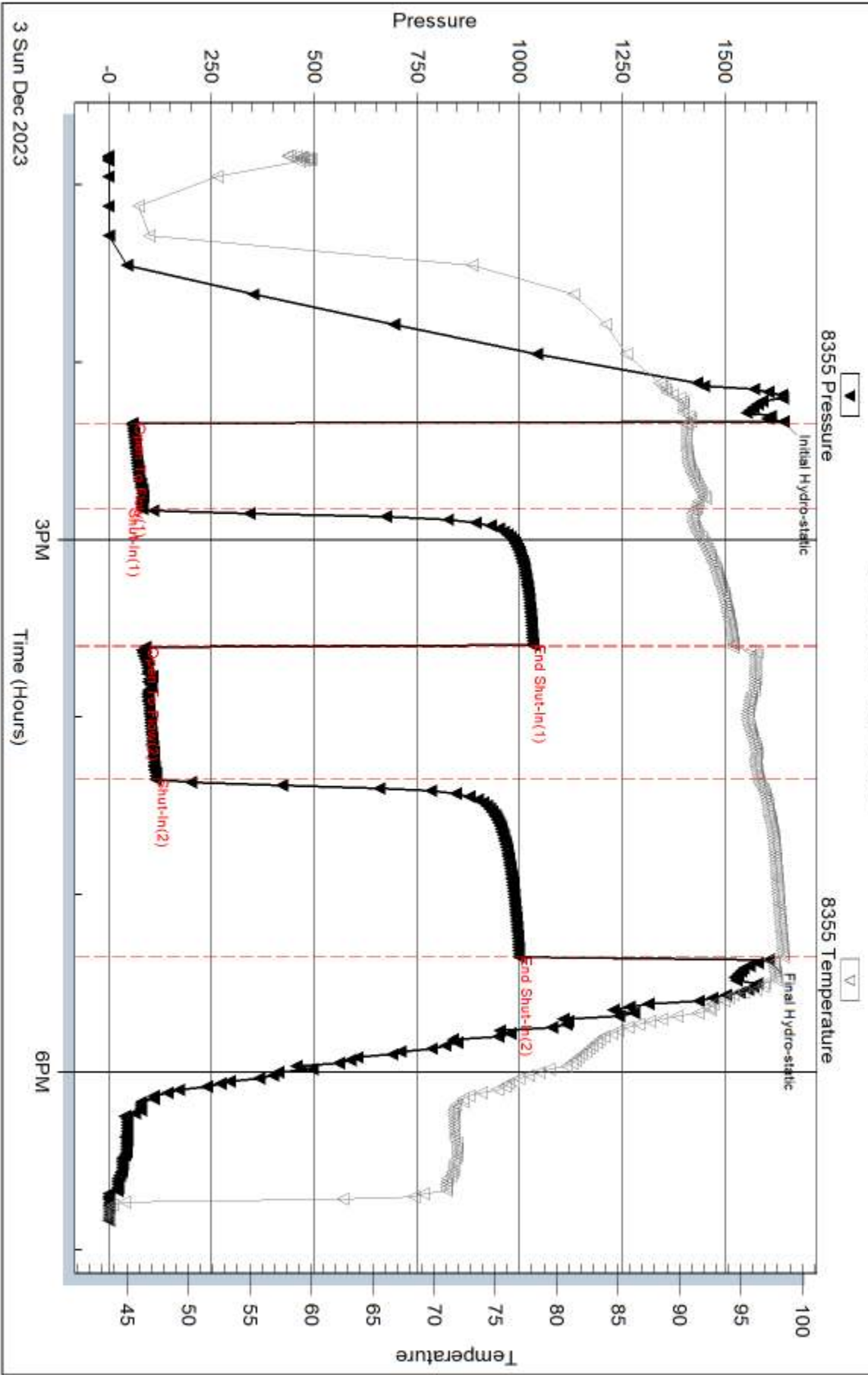
Inside

Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 3

Pressure vs. Time



3 Sun Dec 2023

3PM

Time (Hours)

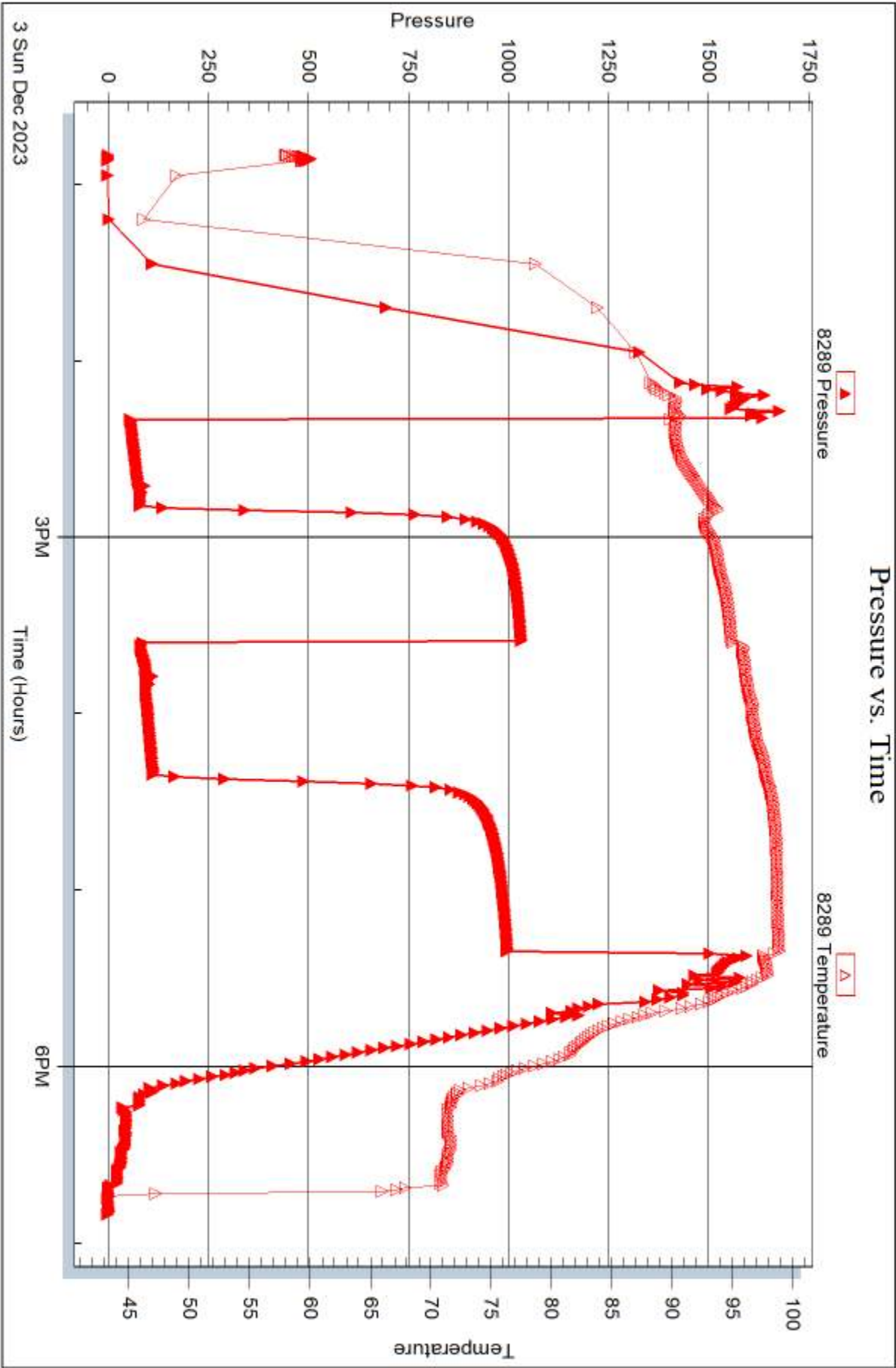
6PM

Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W /Russell,KS

Start Date: 2023.12.04 @ 01:11:00

End Date: 2023.12.04 @ 07:17:30

Job Ticket #: 70174 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.12 @ 11:56:18



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70174

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 01:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:45:30

Time Test Ended: 07:17:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3187.00 ft (KB) To 3213.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3213.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 46.82 psig @ 3193.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.04

End Date:

2023.12.04

Last Calib.: 1899.12.30

Start Time: 01:11:05

End Time:

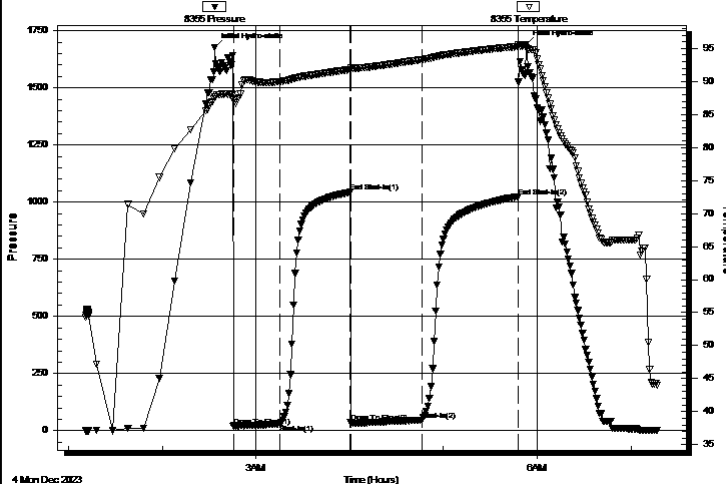
07:17:29

Time On Btm: 2023.12.04 @ 02:33:30

Time Off Btm: 2023.12.04 @ 05:53:00

TEST COMMENT: 30-IF: Fair blow built to 6.5"
45-ISI: Weak surface blow
45-FF: Fair blow built to 10"
60-FSI: Weak surface blow. Blow died 30 minutes into shut-in.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.37	87.59	Initial Hydro-static
12	20.59	87.15	Open To Flow (1)
42	29.69	89.97	Shut-In(1)
87	1043.05	91.77	End Shut-In(1)
87	37.80	91.75	Open To Flow (2)
133	46.82	93.29	Shut-In(2)
194	1023.57	95.27	End Shut-In(2)
200	1689.71	95.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCWM 40%O 1%W 59%M	0.28
60.00	CO 100%O	0.84

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70174

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 01:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:45:30

Time Test Ended: 07:17:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3187.00 ft (KB) To 3213.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3213.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3193.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.04

End Date:

2023.12.04

Last Calib.:

1899.12.30

Start Time: 01:11:01

End Time:

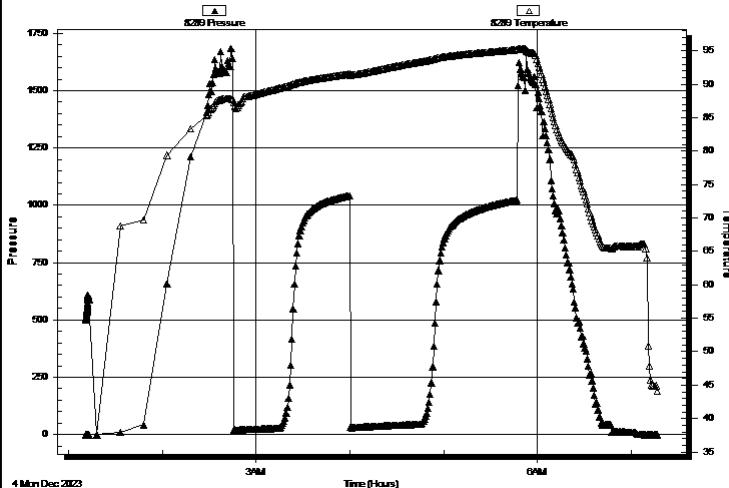
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF: Fair blow built to 6.5"
45-ISI: Weak surface blow
45-FF: Fair blow built to 10"
60-FSI: Weak surface blow. Blow died 30 minutes into shut-in.

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	OCWM 40%O 1%W 59%M	0.28
60.00	CO 100%O	0.84

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70174

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 01:11:00

Tool Information

Drill Pipe:	Length:	3174.00 ft	Diameter:	3.80 inches	Volume:	44.52 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:	21000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	34000.00 lb
					Total Volume:	44.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3187.00 ft					Final	33000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		26.00 ft						
Tool Length:		61.00 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		3153.00	
Shut In Tool	5.00		3158.00	
Hydraulic tool	8.00	Fluid	3166.00	
Jars	5.00		3171.00	
EM	4.00		3175.00	
Safety Joint	3.00		3178.00	
Packer	5.00		3183.00	35.00 Bottom Of Top Packer
Packer	4.00		3187.00	
Stubb	1.00		3188.00	
Handling Sub	5.00		3193.00	
Recorder	0.00	8355 Inside	3193.00	
Recorder	0.00	8289 Outside	3193.00	
Perforations	17.00		3210.00	
Bullnose	3.00		3213.00	26.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70174

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 01:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: in³

Resistivity: 6.80 ohm.m

Salinity: 7700.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCWM 40%O 1%W 59%M	0.281
60.00	CO 100%O	0.842

Total Length: 80.00 ft

Total Volume: 1.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

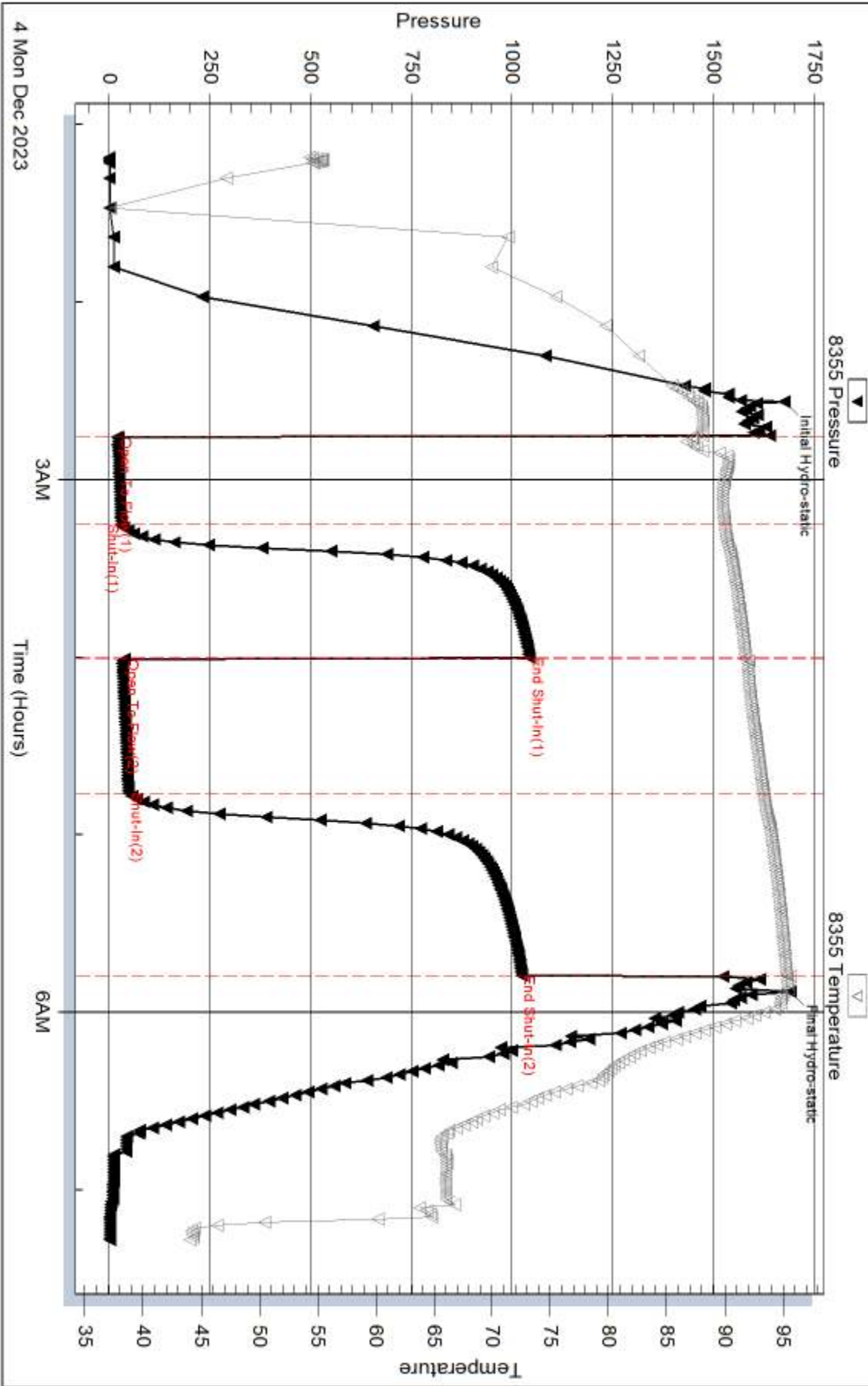
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 31 Gravity

Pressure vs. Time

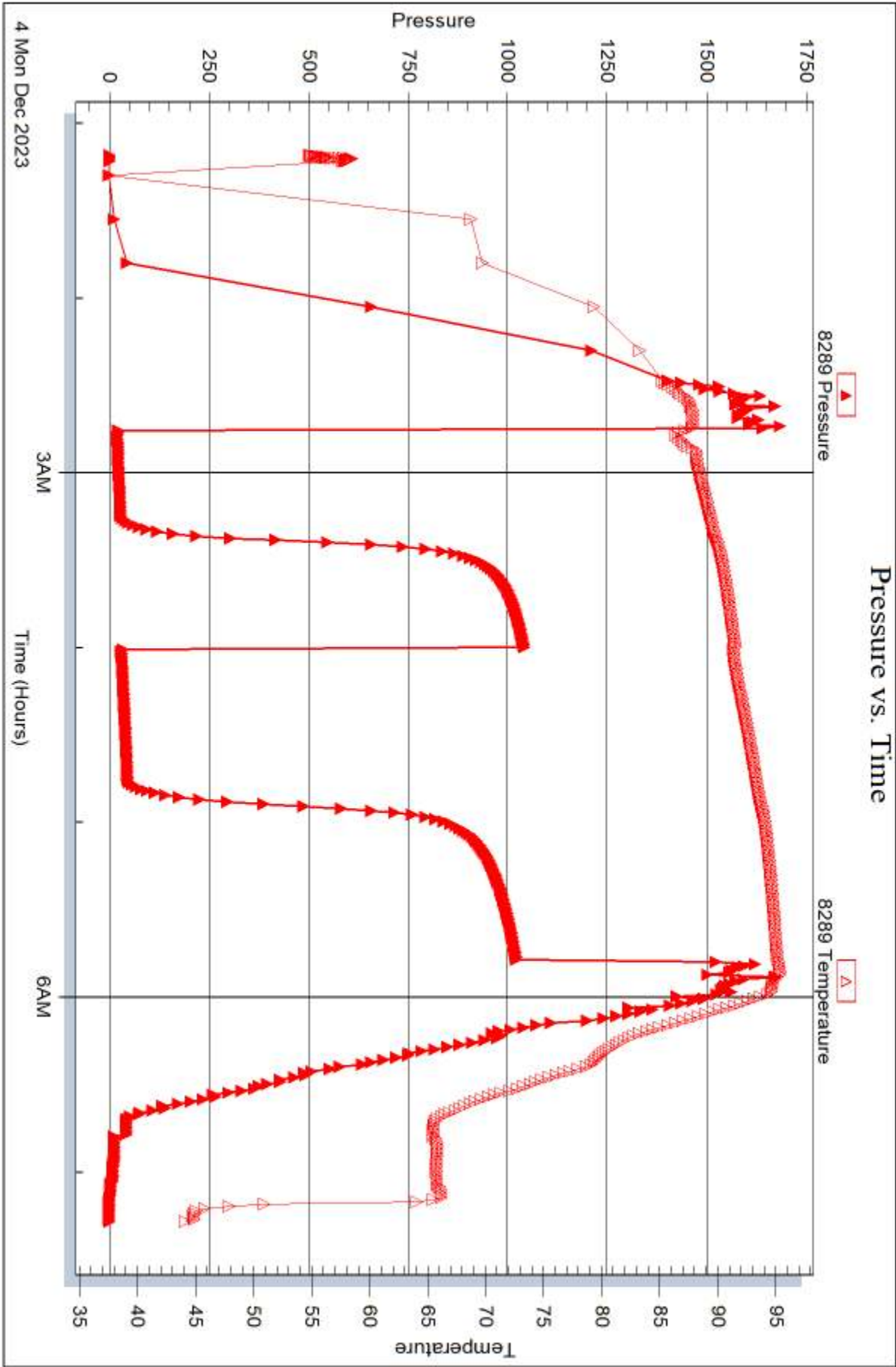


Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W /Russell,KS

Start Date: 2023.12.04 @ 12:34:00

End Date: 2023.12.04 @ 19:14:30

Job Ticket #: 70175 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.12 @ 11:49:55

Mai Oil Operations

4-15S-14W /Russell,KS

Krug-Driscoll Unit#1

DST # 5

Arbuckle

2023.12.04



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70175

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 12:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:00

Time Test Ended: 19:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3188.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 128.52 psig @ 3200.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.04

End Date:

2023.12.04

Last Calib.: 1899.12.30

Start Time: 12:34:05

End Time:

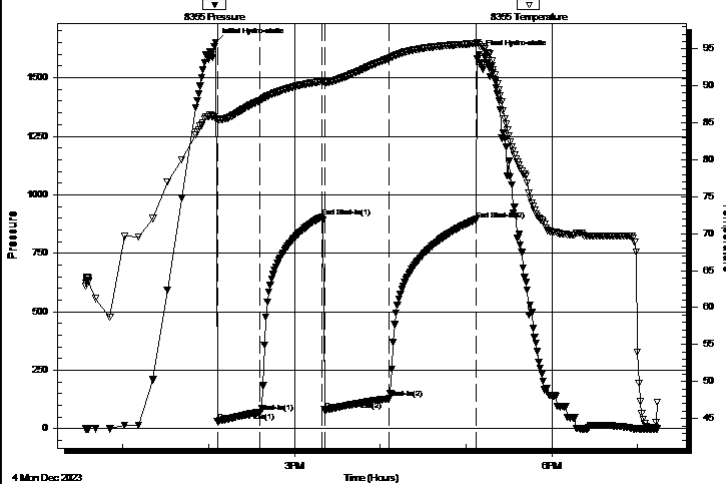
19:14:29

Time On Btm: 2023.12.04 @ 14:05:00

Time Off Btm: 2023.12.04 @ 17:09:00

TEST COMMENT:

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.91	85.50	Initial Hydro-static
1	31.01	85.39	Open To Flow (1)
31	71.67	88.02	Shut-In(1)
74	905.28	90.59	End Shut-In(1)
76	81.02	90.46	Open To Flow (2)
121	128.52	93.70	Shut-In(2)
182	894.21	95.71	End Shut-In(2)
184	1597.65	95.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	CGO 20%G 80%O	3.37
30.00	GOCM 30%G 5%O 65%M	0.42

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70175

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 12:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:00

Time Test Ended: 19:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3188.00 ft (KB) To 3220.00 ft (KB) (TVD)

Total Depth: 3220.00 ft (KB) (TVD)

Hole Diameter: 7.79 inches Hole Condition: Good

Reference Elevations: 1778.00 ft (KB)

1768.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3200.00 ft (KB)

Start Date: 2023.12.04

End Date:

2023.12.04

Start Time: 12:34:01

End Time:

19:14:15

Capacity: 8000.00 psig

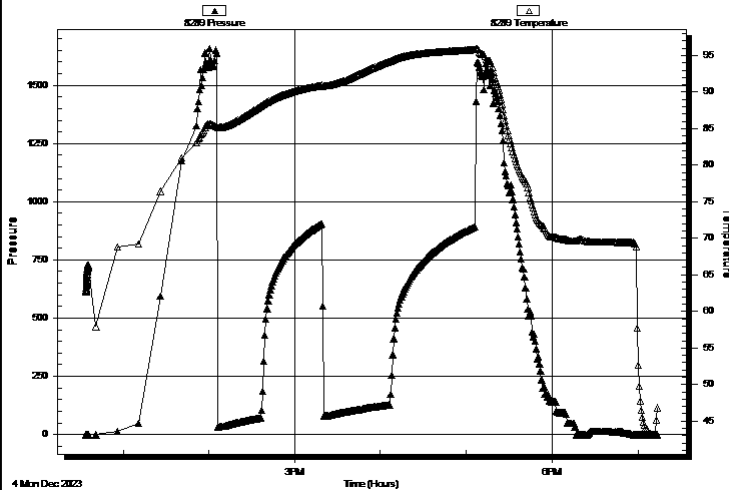
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT:

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	CGO 20%G 80%O	3.37
30.00	GOCM 30%G 5%O 65%M	0.42

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

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70175

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 12:34:00

Tool Information

Drill Pipe:	Length:	3174.00 ft	Diameter:	3.80 inches	Volume:	44.52 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:	2500.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	44.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		3188.00 ft					Final	37000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		32.00 ft						
Tool Length:		62.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Change Over Sub	1.00		3159.00	
Shut In Tool	5.00		3164.00	
Hydraulic tool	8.00	Fluid	3172.00	
EM	4.00		3176.00	
Safety Joint	3.00		3179.00	
Packer	5.00		3184.00	30.00 Bottom Of Top Packer
Packer	4.00		3188.00	
Stubb	1.00		3189.00	
Perforations	6.00		3195.00	
Recorder Carrier	5.00		3200.00	
Recorder	0.00	8355 Inside	3200.00	
Recorder	0.00	8289 Outside	3200.00	
Perforations	17.00		3217.00	
Bullnose	3.00		3220.00	32.00 Bottom Packers & Anchor

Total Tool Length: 62.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W /Russell,KS

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 70175

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2023.12.04 @ 12:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: in³

Resistivity: 5.80 ohm.m

Salinity: 7500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	CGO 20%G 80%O	3.367
30.00	GOCM 30%G 5%O 65%M	0.421

Total Length: 270.00 ft

Total Volume: 3.788 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8355

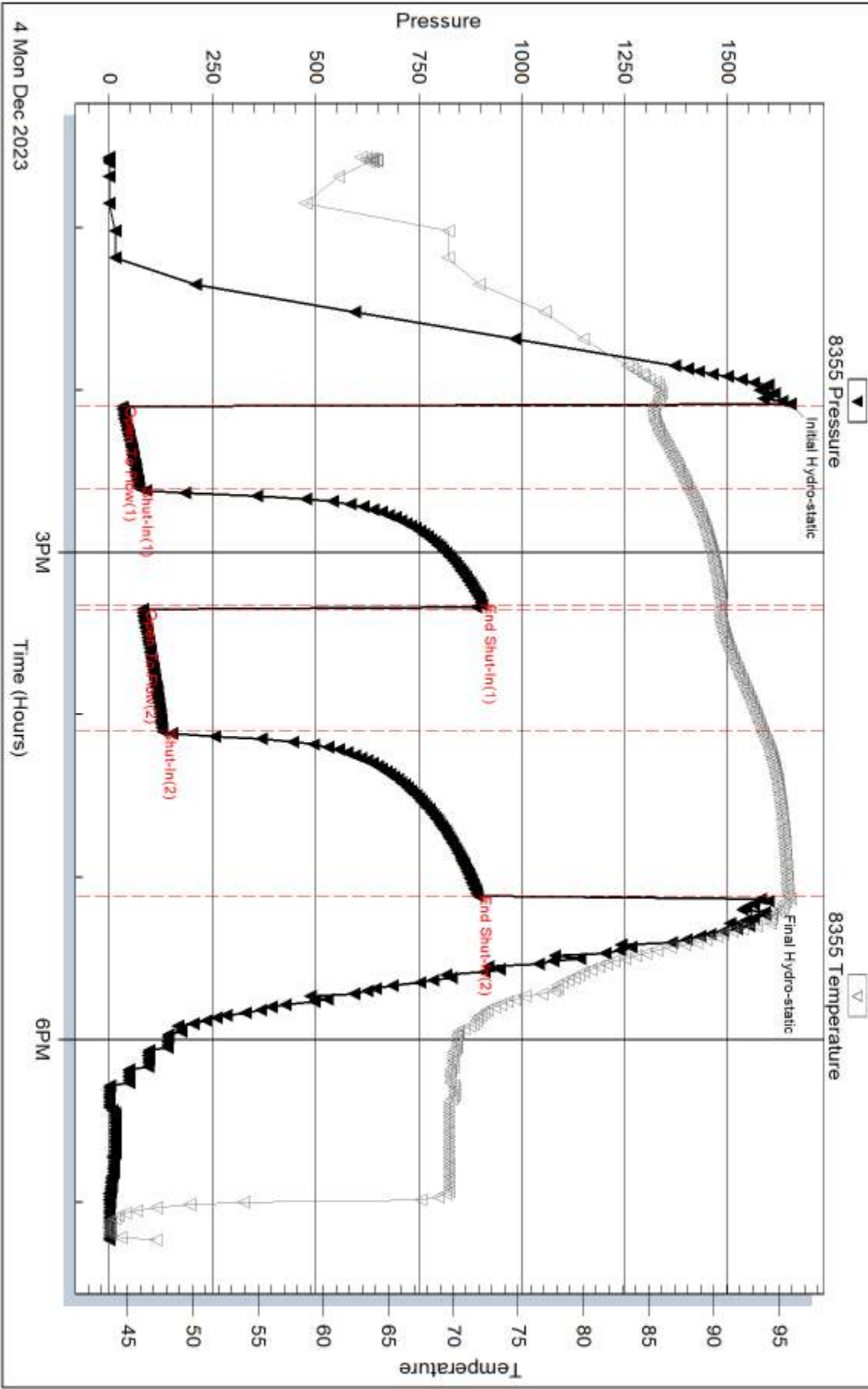
Inside

Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 70175

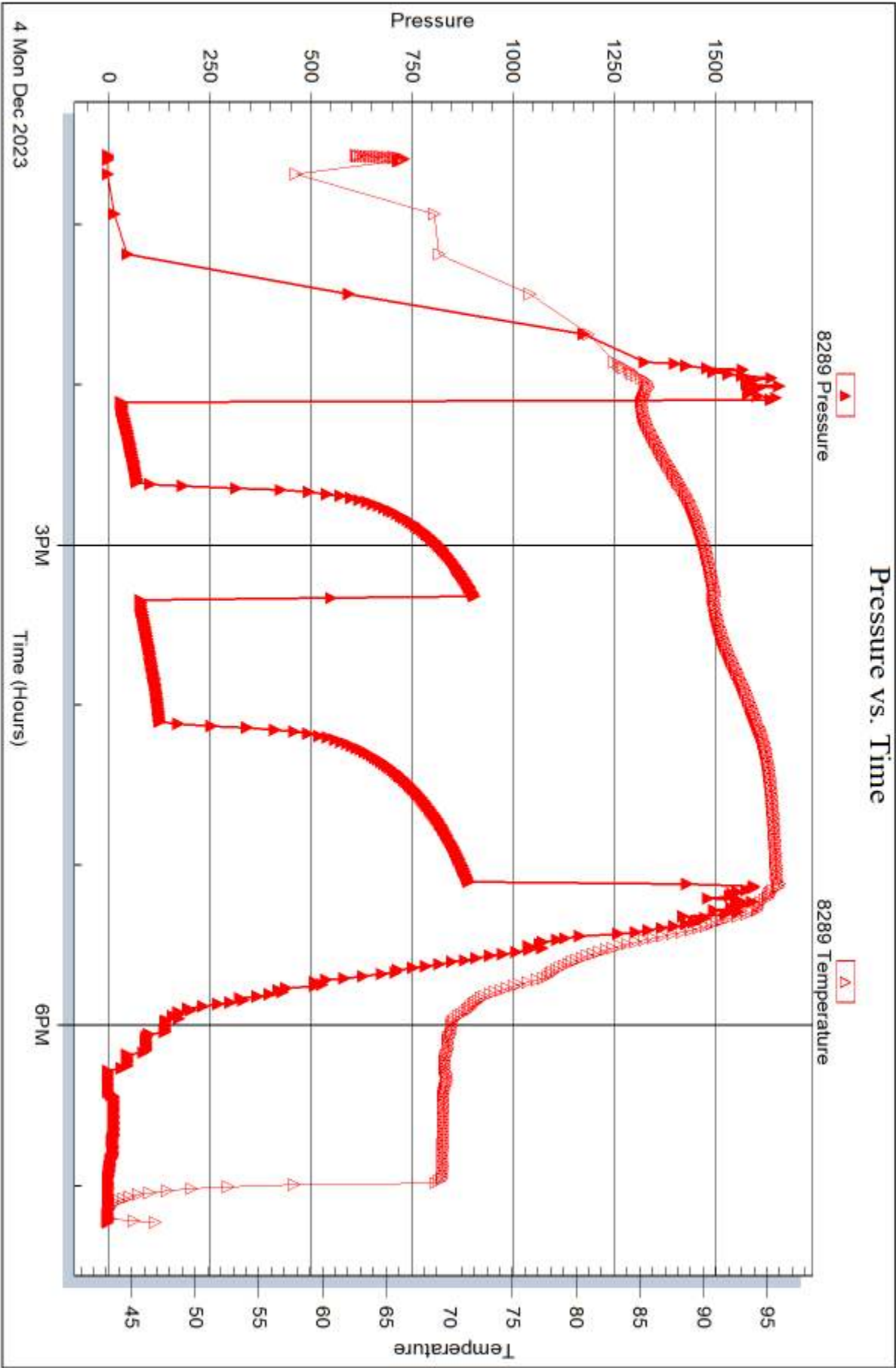
Printed: 2023.12.12 @ 11:49:56

Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411Preston Rd
STE 800 Dallas TX 75225

ATTN: Kim Shoemaker

Krug-Driscoll Unit#1

4-15S-14W/Russell

Start Date: 2023.12.05 @ 01:03:00

End Date: 2023.12.05 @ 07:04:00

Job Ticket #: 69402 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.12.12 @ 11:24:37

Mai Oil Operations

4-15S-14W/Russell

Krug-Driscoll Unit#1

DST # 6

Arbuckle

2023.12.05



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W/Russell

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 69402

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2023.12.05 @ 01:03:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:30

Time Test Ended: 07:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3216.00 ft (KB) To 3230.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8355 Inside

Press@RunDepth: 773.00 psig @ 3222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.05

End Date:

2023.12.05

Last Calib.: 1899.12.30

Start Time: 01:03:05

End Time:

07:03:59

Time On Btm: 2023.12.05 @ 02:31:00

Time Off Btm: 2023.12.05 @ 04:58:30

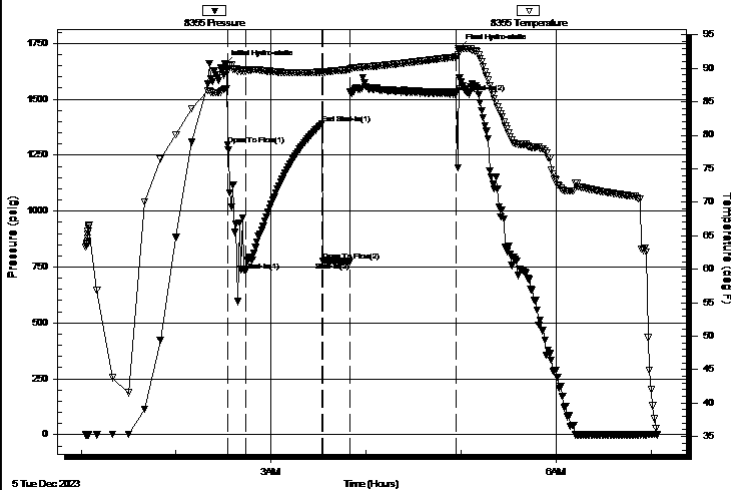
TEST COMMENT: 15-IF: Strong blow BOB in 10 seconds Reached 10.5psi

45-ISI: No blow back

15-FF: No blow

60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.58	86.93	Initial Hydro-static
2	1295.22	89.97	Open To Flow (1)
13	732.89	89.59	Shut-In (1)
61	1389.12	89.45	End Shut-In (1)
62	776.18	89.19	Open To Flow (2)
79	773.00	89.79	Shut-In (2)
146	1531.07	91.71	End Shut-In (2)
148	1727.18	92.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1450.00	MW 90%M 10%W	20.34

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations

4-15S-14W/Russell

8411 Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 69402

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2023.12.05 @ 01:03:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:30

Time Test Ended: 07:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: 3216.00 ft (KB) To 3230.00 ft (KB) (TVD)

Reference Elevations: 1778.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 3222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.12.05

End Date:

2023.12.05

Last Calib.:

1899.12.30

Start Time: 01:03:01

End Time:

07:04:00

Time On Btm:

Time Off Btm:

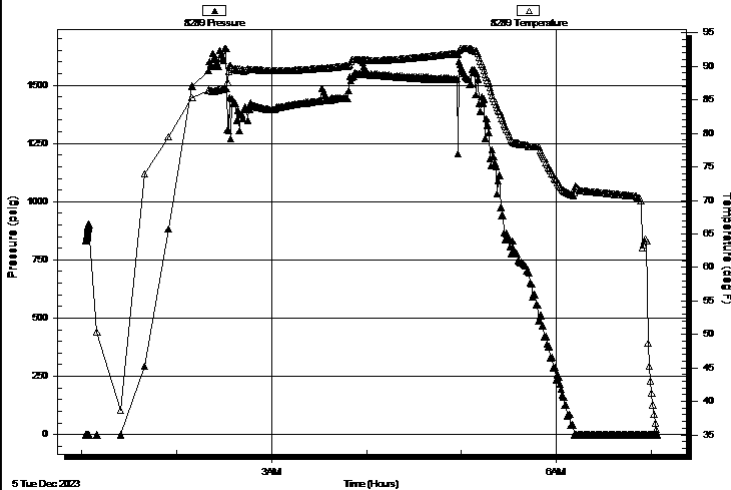
TEST COMMENT: 15-IF: Strong blow BOB in 10 seconds Reached 10.5psi

45-ISI: No blow back

15-FF: No blow

60-FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1450.00	MW 90%M 10%W	20.34

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

4-15S-14W/Russell

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 69402

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2023.12.05 @ 01:03:00

Tool Information

Drill Pipe:	Length:	3206.00 ft	Diameter:	3.80 inches	Volume:	44.97 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:	56000.00 lb
					Total Volume:	44.97 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3216.00 ft					Final	36000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		14.00 ft						
Tool Length:		50.00 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		3181.00	
Shut In Tool	5.00		3186.00	
Hydraulic tool	5.00		3191.00	
Jars	8.00		3199.00	
EM Tool	4.00		3203.00	
Safety Joint	3.00		3206.00	
Packer	5.00		3211.00	36.00 Bottom Of Top Packer
Packer	5.00		3216.00	
Stubb	1.00		3217.00	
Handling Sub	5.00		3222.00	
Recorder	0.00	8355 Inside	3222.00	
Recorder	0.00	8289 Outside	3222.00	
Perforations	5.00		3227.00	
Bullnose	3.00		3230.00	14.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

4-15S-14W/Russell

8411Preston Rd
STE 800 Dallas TX 75225

Krug-Driscoll Unit#1

Job Ticket: 69402

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2023.12.05 @ 01:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

9500 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: 8.80 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1450.00	MW 90%M 10%W	20.340

Total Length: 1450.00 ft Total Volume: 20.340 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: lost packer seat during FSI

Serial #: 8355

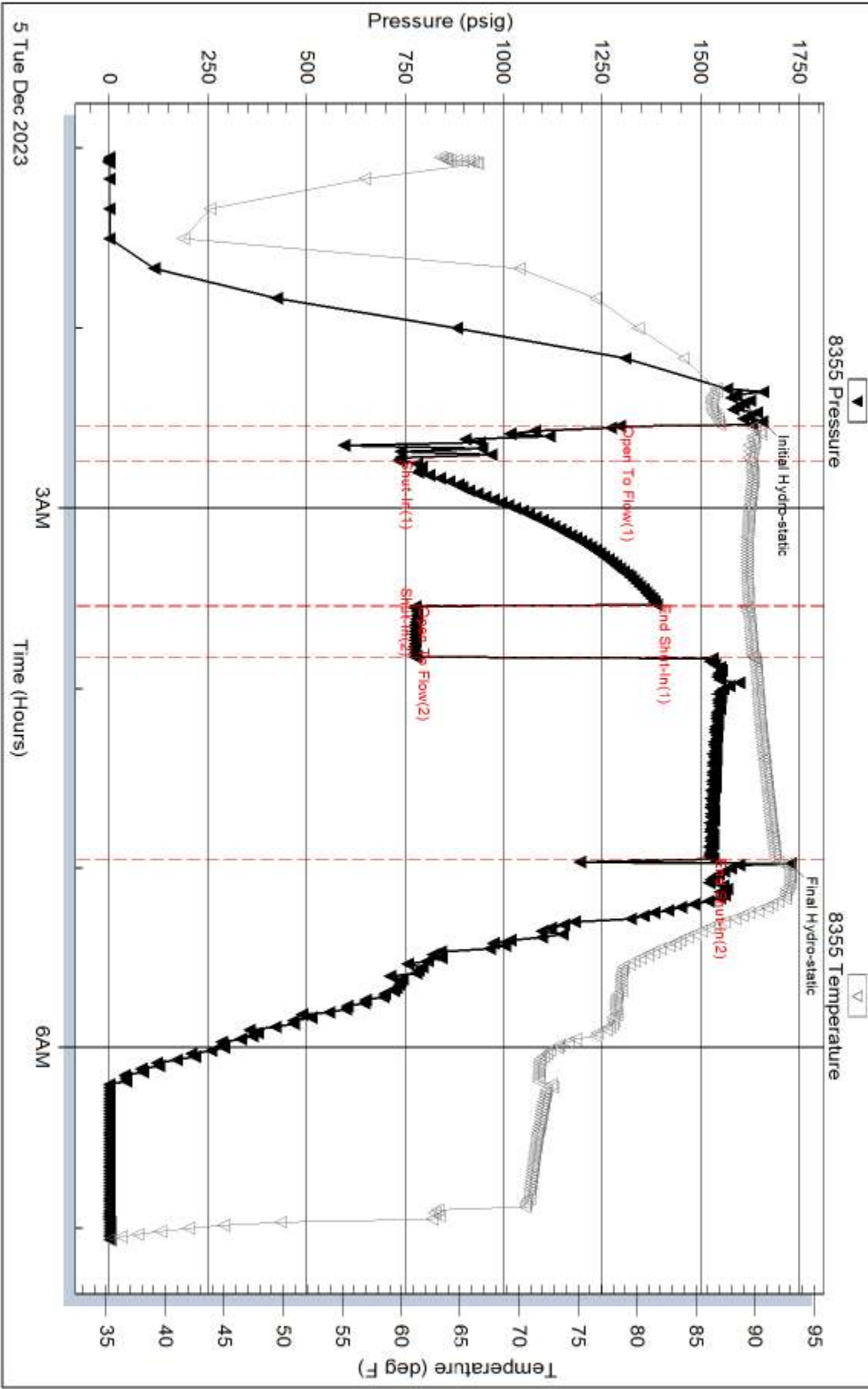
Inside

Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 6

Pressure vs. Time

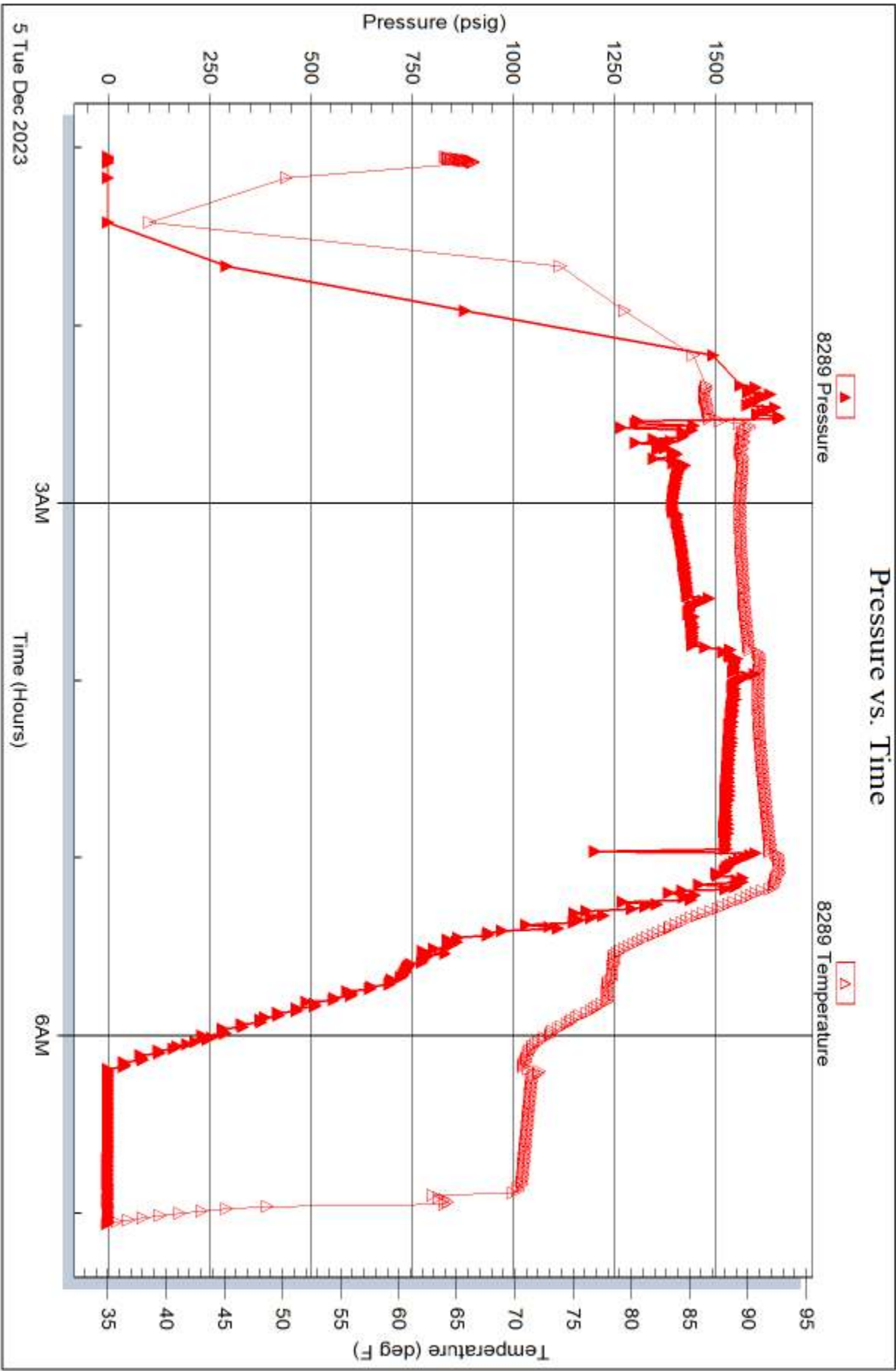


Serial #: 8289

Outside Mai Oil Operations

Krug-Driscoll Unit#1

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70171

Well Name & No. Krug-Driscoll Unit #1 Test No. 1 Date 12-1-23
Company Mai Oil Operations Elevation 1778 KB 1768 GL
Address 8411 Preston Rd STE 800 Dallas TX
Co. Rep / Geo Jim Musgrave Rig Southwind 1
Location: Sec. 4 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 2343-2400 Zone Tested _____
Anchor Length 57' Drill Pipe Run 2221 Mud Wt. 9.5
Top Packer Depth 2338 Drill Collars Run 122 Vis 45
Bottom Packer Depth 2343 Wt. Pipe Run 0 WL _____
Total Depth 2400 Chlorides _____ ppm System LCM 1#

Blow Description 1F Strong blow BOB in 1 minute built to 95"
151' Weak Surface blow
FF: BOB immediate built to 5.26 psi
FS1: Weak blow built to 2.75"

Rec <u>30</u>	Feet of <u>MUD</u>	%gas	%oil	%water	<u>100%</u> mud
Rec <u>60</u>	Feet of <u>50CM</u>	<u>0</u> %gas	<u>1</u> %oil	<u>9</u> %water	<u>99%</u> mud
Rec <u>60</u>	Feet of <u>60CM</u>	<u>5</u> %gas	<u>5</u> %oil	<u>15</u> %water	<u>75%</u> mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of <u>1250' GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 150' BHT 83.8 Gravity NA API RW 485 @ 36 °F Chlorides 28,000 ppm

Initial Hydrostatic 1160 ☒ Test 1800 ☐ Ruined Shale Packer _____

Initial Flow 53 to 75 ☐ Jars _____ ☐ Ruined Packer _____

Initial Shut-In 448 ☐ Circ Sub _____ ☐ Hotel _____

Final Flow 62 to 91 ☐ Hourly Standby _____ ☒ EM Tool Successful _____

Final Shut-In 438 ☒ Mileage 34 59.50 ☐ Accessibility _____

Final Hydrostatic 1156 ☐ Sampler _____ ☐ Gas Sample _____

Initial Flow 30 T-On Location 1:14 ☐ Straddle _____ ☐ Sub Total 0

Initial Shut-In 30 T-Started 3:10 ☐ Shale Packer _____ ☐ Total 1859.50

Final Flow 45 T-Open 4:20 ☐ Extra Packer _____ ☐ Tool Loaded _____ @ _____

Final Shut-In 60 T-Pulled 7:12 ☐ Extra Recorder _____ ☐ MP/DST Disc't _____

Comments Bath 254 ☐ Day Standby _____

Approved By _____ Our Representative Richie Samoca

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70172

Well Name & No. Krug-Driscoll Unit #1 Test No. 2 Date 12-2-23
Company Mo. Oil Operations Elevation 1778 KB 1768 GL
Address 6411 Preston Rd STE 800 Dallas TX 75225
Co. Rep / Geo Kim Shoemaker Rig Southwind 1
Location: Sec. 4 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 2970-3010 Zone Tested Lansing 'A-C'
Anchor Length 40' Drill Pipe Run 2951 Mud Wt. 9.3
Top Packer Depth 2965 Drill Collars Run 0 Vis 48
Bottom Packer Depth 2970 Wt. Pipe Run 0 WL 6.8
Total Depth 3010 Chlorides 7800 ppm System LCM 2#

Blow Description IF: Weak blow built to 5"
IS1: No blow back
FF: Weak blow built to 1.8"
FS1: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>GOCWM</u>	<u>10</u>	<u>5</u>	<u>40</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>30'</u>	BHT <u>95.6</u>	Gravity <u>N/A</u>	API RW <u>.411</u>	@ <u>37</u> °F Chlorides <u>30,500</u> ppm

Initial Hydrostatic	<u>1551</u>	☒ Test 1800	☐ Ruined Shale Packer
Initial Flow	<u>18</u> to <u>25</u>	☒ Jars 300	☐ Ruined Packer
Initial Shut-In	<u>456</u>	☐ Circ Sub	☐ Hotel
Final Flow	<u>40</u> to <u>93</u>	☐ Hourly Standby	☒ EM Tool Successful
Final Shut-In	<u>478</u>	☒ Mileage <u>34</u> 59.50	☐ Accessibility
Final Hydrostatic	<u>1486</u>	☐ Sampler	☐ Gas Sample
T-On Location	<u>13:43</u>	☐ Straddle	☐ Sub Total <u>0</u>
Initial Flow	<u>30</u> T-Started <u>15:45</u>	☐ Shale Packer	☐ Total <u>2159.50</u>
Initial Shut-In	<u>45</u> T-Open <u>16:45</u>	☐ Extra Packer	☐ Tool Loaded @
Final Flow	<u>45</u> T-Pulled <u>19:46</u>	☐ Extra Recorder	☐ MP/DST Disc't
Final Shut-In	<u>60</u> T-Out <u>20:55</u>	☐ Day Standby	
Comments	<u>B.H. 15:04</u>		

Approved By

Our Representative

Richie Samson

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **70173**

Well Name & No. Krug-Driscoll Unit #1 Test No. 3 Date 12-3-23
Company Mai Oil Operations Elevation 1778 KB 1768 GL
Address 8411 Preston Rd STE 800 Dallas TX 75225
Co. Rep / Geo Kim Steneker Rig Southwind 1
Location: Sec. 4 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3102-3190 Zone Tested L/KC 'H-J'
Anchor Length 88 Drill Pipe Run 3079 Mud Wt. 9.3
Top Packer Depth 3097 Drill Collars Run 0 Vis 48
Bottom Packer Depth 3102 Wt. Pipe Run 0 WL 68
Total Depth 3190 Chlorides 2200 ppm System LCM 2#

Blow Description IF: Weak blow built to 8"
ISI: No blow back
FF: 30 seconds into flow Weak blow built to 9"
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>MUD</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>100</u>
<u>40</u>	<u>OSWM</u>	<u>0</u>	<u>1</u>	<u>20</u>	<u>79</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120' BHT 48.5 Gravity NA API RW 457 @ 46 °F Chlorides 22000 ppm

Initial Hydrostatic 1642 ☒ Test 1800 ☐ Ruined Shale Packer

Initial Flow 58 to 81 ☒ Jars 300 ☐ Ruined Packer

Initial Shut-In 1031 ☐ Circ Sub ☒ Hotel

Final Flow 89 to 113 ☐ Hourly Standby ☒ EM Tool Successful

Final Shut-In 998 ☒ Mileage 34 59.50 ☐ Accessibility

Final Hydrostatic 1605 ☐ Sampler ☐ Gas Sample

T- On Location 11:27 ☐ Straddle ☐ Sub Total 0

Initial Flow 30 T-Started 13:20 ☐ Shale Packer ☐ Total 2159.50

Initial Shut-In 45 T-Open 14:20 ☐ Extra Packer ☐ Tool Loaded @

Final Flow 45 T-Pulled 17:20 ☐ Extra Recorder ☐ MP/DST Disc't

Final Shut-In 60 T-Out 18:45 ☐ Day Standby

Comments BATH 2.50

Approved By _____

Our Representative Richie Samie

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70174

Well Name & No. Krug-Driscoll Unit 1 Test No. 4 Date 12-4-23
Company Mai Oil Operation Elevation 1778 KB 1768 GL
Address 8411 Preston Rd STE 800 Dallas TX 75225
Co. Rep / Geo Kim Shoemaker Rig Southern 1
Location: Sec. 4 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3187-3213 Zone Tested Arbuckle
Anchor Length 26 Drill Pipe Run 3174 Mud Wt. 9.3
Top Packer Depth 3182 Drill Collars Run 0 Vis 48
Bottom Packer Depth 3187 Wt. Pipe Run 0 WL 6.8
Total Depth 3213 Chlorides 7,700 ppm System LCM 2H

Blow Description IF: Fair blow built to 6.5"
IS: Weak surface blow
FF: Fair blow built to 10"
FS: Weak surface blow

Rec <u>20</u>	Feet of <u>0 CWM</u>	<u>0</u> %gas	<u>40</u> %oil	<u>1</u> %water	<u>6.0</u> %mud
Rec <u>60</u>	Feet of <u>0</u>	<u>0</u> %gas	<u>100</u> %oil	<u>0</u> %water	<u>0</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 95.5 Gravity 31 API RW 32 @ 46 °F Chlorides 11/4 ppm
Initial Hydrostatic 11.75 ☒ Test 1800 ☐ Ruined Shale Packer
Initial Flow 21 to 30 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 1043 ☐ Circ Sub ☐ Hotel
Final Flow 38 to 47 ☐ Hourly Standby ☒ EM Tool Successful
Final Shut-In 1024 ☒ Mileage 34 59.50 ☐ Accessibility
Final Hydrostatic 11.90 ☐ Sampler ☐ Gas Sample
☐ Straddle ☐ Sub Total 0
☐ Shale Packer ☐ Total 2159.50
☐ Extra Packer ☐ Tool Loaded @
☐ Extra Recorder ☐ MP/DST Disc't
☐ Day Standby

T-On Location 056
Initial Flow 30 T-Started 1:45
Initial Shut-In 45 T-Open 2:46
Final Flow 45 T-Pulled 5:47
Final Shut-In 69 T-Out 7:20
Comments Bath/1/1

Approved By _____ Our Representative Rickie Samoca

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70175

Well Name & No. <u>Krug-Darrell Unit 1</u>		Test No. <u>5</u>	Date <u>12-4-23</u>
Company <u>Mai Oil Operations</u>		Elevation <u>1778</u>	KB <u>1768</u> GL
Address <u>8411 Preston Rd STE 800 Dallas TX 75225</u>		Rig <u>Southwind 1</u>	
Co. Rep / Geo <u>Kim Shoemaker</u>		Co. <u>Russell</u>	State <u>KS</u>
Location: Sec. <u>4</u> Twp <u>15S</u> Rge. <u>14W</u>			
Interval Tested <u>3188-3220</u>		Zone Tested <u>Arbuckle</u>	
Anchor Length <u>32'</u>		Drill Pipe Run <u>3174</u>	
Top Packer Depth <u>3183</u>		Drill Collars Run <u>0</u>	
Bottom Packer Depth <u>3188</u>		Wt. Pipe Run <u>0</u>	
Total Depth <u>3220</u>		Chlorides <u>7500</u> ppm System LCM <u>2</u>	
Blow Description <u>1F: Strong blow BOB in 23 minutes built to 18"</u>			
<u>151: Weak blow built to 0.5"</u>			
<u>FF: Strong blow built to 0.21 BOB in 19 minutes</u>			
<u>FS1 Weak blow built to 0.2"</u>			
Rec <u>240</u>	Feet of <u>CGO</u>	<u>20</u> %gas <u>80</u> %oil <u>0</u> %water <u>0</u> %mud	
Rec <u>30</u>	Feet of <u>GOM</u>	<u>30</u> %gas <u>5</u> %oil <u>0</u> %water <u>65</u> %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec	Feet of	%gas %oil %water %mud	
Rec Total <u>270</u>	BHT <u>92.5</u>	Gravity <u>32</u>	API RW <u>32</u> @ <u>60</u> °F Chlorides ppm
Initial Hydrostatic <u>1651</u>	☒ Test 1800	☐ Ruined Shale Packer	
Initial Flow <u>31</u> to <u>72</u>	☒ Jars 300	☐ Ruined Packer	
Initial Shut-In <u>905</u>	☐ Circ Sub	☐ Hotel	
Final Flow <u>81</u> to <u>129</u>	☐ Hourly Standby	☒ EM Tool Successful -175	
Final Shut-In <u>894</u>	☒ Mileage <u>34</u> 59.50	☐ Accessibility	
Final Hydrostatic <u>1598</u>	☐ Sampler	☐ Gas Sample	
T-On Location <u>1222</u>	☐ Straddle	☐ Sub Total -175	
Initial Flow <u>30</u>	T-Started <u>13:15</u>	☐ Total 1984.50	
Initial Shut-In <u>45</u>	T-Open <u>14:06</u>	☐ Tool Loaded @	
Final Flow <u>45</u>	T-Pulled <u>17:08</u>	☐ MP/DST Disc't	
Final Shut-In <u>60</u>	T-Out <u>19:00</u>		
Comments <u>Ball @ 1234</u>			

Approved By

Our Representative

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 69402

Well Name & No. Krug-Discall Unit 1 Test No. 6 Date 12-5-23
Company Mai Oil Operators Elevation 1778 KB 1768 GL
Address 8411 Barton Rd SE 800 Dallas TX 75225
Co. Rep / Geo. Kim Shoemaker Rig Southwind 1
Location: Sec. 4 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3216-3230 Zone Tested Arbuckle
Anchor Length 14' Drill Pipe Run 3206 Mud Wt. 9.2
Top Packer Depth 3211 Drill Collars Run 0 Vis 58
Bottom Packer Depth 3216 Wt. Pipe Run 0 WL 5.8
Total Depth 3230 Chlorides 7500 ppm System LCM 2#

Blow Description 1F-Strong blow BOB in 10 seconds Reached 10.5 psi
1st: No blow back
FF: No blow
FSL: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1450</u>	<u>W/M</u>	<u>0</u>	<u>0</u>	<u>10</u>	<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1450' BHT 93.0 Gravity NA API RW 1270@37 °F Chlorides 7500 ppm

(A) Initial Hydrostatic 1657
(B) First Initial Flow 1295
(C) First Final Flow 733
(D) Initial Shut-In 1389
(E) Second Initial Flow 776
(F) Second Final Flow 773
(G) Final Shut-In 1531
(H) Final Hydrostatic 1727

☒ Test 1800

☒ Jars 300

☐ Safety Joint

☐ Circ Sub

☐ Hourly Standby

☒ Mileage 34 59.50 + 59.50

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total

T-On Location 0.43

T-Started 1:30

T-Open 2:32

T-Pulled 4:48

T-Out 7:00

Comments EM don't work

loaded 12/5 18:30

☒ EM Tool Balls G 103

☐ Ruined Shale Packer

☐ Ruined Packer

☐ Extra Copies

Sub Total -350

Total 1869

MP/DST Disc't

Our Representative Rachael Samson

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.

Mai Oil Operations, Inc.
Krug-Driscoll Unit #1
N/2-NW-NW-SW (2565' FSL & 330
Section 4-15s-14w
Russell County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #1)

Commenced: November 28, 2023

Completed: December 5, 2023

Elevation: 1778' K.B., 1776' D.F., 1768' G.L.

Casing program: Surface; 8 5/8" @ 477'
Production, 5 1/2" @ 3294'

Sample: Samples saved and examined 2250' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2250' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were six (6) 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	768	+1010
Base Anhydrite	804	+974
Grand Haven	2339	-561
1 st Tarkio Sand	2354	-576
Dover	2367	-589
2 nd Tarkio	2375	-597
Tarkio Lime	2411	-633
Elmont	2471	-693
Howard	2612	-834
Topeka	2671	-893
Heebner	2904	-1126
Toronto	2921	-1143
Douglas	2936	-1158
Lansing	2964	-1186
Base Kansas City	3168	-1390
Sandy Arbuckle	3203	-1425
Arbuckle	3203	-1445
Rotary Total Depth	3296	-1518
Log Total Depth	3296	-1518

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

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

TARKIO SECTION
1ST TARKIO SAND

2354-2362' Sand, gray, white, very fine grained, sub-rounded, friable, fair inter-granular porosity, micaceous, silty in part, fair spotted stain to even saturation, show of free oil and questionable odor.

2nd TARKIO SECTION

2375-2386' Sand, gray, very fine grained, friable, poor to fair porosity, poor stain, trace of free oil and faint odor, poorly developed.

Drill Stem Test #1 **2343-2400'**

Times: 30-30-45-60

Blow: Strong (bob 1 mins)
2nd Opening Strong (bob immediately)

Recovery: 1250' gas in pipe
30' mud
60' very slightly oil cut mud
(1% oil; 99% mud)
60' oil and gas cut watery mud
(5% gas; 5% oil; 15% water; 75% mud)

Pressures: ISIP 448 psi
FSIP 438 psi
IFP 53-75 psi
FFP 62-91 psi
HSH 1160-1156 psi

TOPEKA SECTION

2852-2864 Limestone, gray, cream, fossiliferous, poor visible porosity, trace brown stain, no free oil and no odor.

2868-2880' Limestone, gray, cream, fossiliferous, poor porosity, black and brown spotted stain, no free oil and no odor.

TORONTO SECTION

2921-2931' Limestone, tan, fossiliferous, poor vuggy type porosity, light brown stain, trace gas bubbles, slight show of free oil and very faint odor.

LANSING SECTION
2964-2970'

Limestone, tan, white, fossiliferous, poor vuggy type porosity, light brown stain, slight show of gas, slight show of free oil and faint odor, faint fluorescence.

2976-2981' Limestone, tan, brown slightly fossiliferous, fair porosity, light brown stain, very slight show of gas, slight show of free oil and good odor.

- 2987-2993'

Limestone, white, oolitic, fossiliferous, fair fossil cast porosity, slightly chalky, trace gas bubbles, light brown stain, show of free oil and good odor, good fluorescence.
- 3001-3010'

Limestone, tan, fossiliferous, slightly cherty, brown stain, slight show of free oil and faint odor, with chert, gray, slightly fossiliferous.

Drill Stem Test #2

2970-3010'

Times:

30-45-45-60

Blow:

Weak (5 inches)

2nd Opening

Weak (1.8 inches)

Recovery:

30' oil and gas cut muddy water
(10% gas; 5% oil; 40% water; 45% mud)

60' oil and gas cut watery mud
(5% gas; 5% oil; 15% water; 75% mud)

Pressures:

ISIP 456 psi

FSIP 478 psi

IFP 18-25 psi

FFP 40-93 psi

HSH 1551-1486 psi

- 3016-3021'

Limestone, gray, slightly fossiliferous with white, chalky limestone, no shows.
- 3033-3038'

Limestone, tan, light gray, fossiliferous, slightly chalky, no shows.
- 3040-3052'

Limestone, white, oolitic, chalky, poor visible porosity, light brown stain, show of free oil and good odor.
- 3060-3072'

Limestone, white, light gray, oomoldic; fair porosity, no shows.
- 3104-3114'

Limestone, brown to gray, slightly fossiliferous, poor vuggy porosity, brown stain, show of free oil and fair odor with chert, gray, boney.
- 3120-3130'

Limestone, tan, fossiliferous, cherty, calcitic.
- 3130-3140'

Limestone, white, slightly fossiliferous, slightly chalky, poor visible porosity, light brown stain, slight show of free oil and fair odor, dull fluorescence.
- 3145-3155'

Limestone, white, oolitic, slightly chalky, fair porosity, light brown stain, slight show of free oil and fair odor.
- 3155-3166'

Limestone, tan, white, slightly cherty, slightly fossiliferous, no shows.

3178-3184' Limestone, white, oolitic, cherty, no shows.

Drill Stem Test #3 **3102-3190'**

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

Blow: **Weak**

Recovery: **80' mud**
 40' oil specked muddy water
 (1% oil; 20% water; 79% mud)

Pressures: **ISIP 1031 psi**
 FSIP 998 psi
 IFP 58-81 psi
 FFP 40-93 psi
 HSH 1642-1605 psi

MARMATON SECTION

3196-3203' Limestone, gray, fossiliferous, fair vuggy type porosity, light brown stain; show of free oil and good odor, good fluorescence.

SANDY ARBUCKLE SECTION

3203-3213' Dolomite, tan, highly sandy; limey, chalky luster, medium crystalline, good stain and saturation, fair show of free oil and good odor, good fluorescence.

Drill Stem Test #4 **3187-3213'**

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

Blow: **Fair**

Recovery: **20' muddy oil**
 (40% oil; 60% mud)
 60' clean oil

Pressures: **ISIP 1043 psi**
 FSIP 1024 psi
 IFP 21-30 psi
 FFP 38-47 psi
 HSH 1675-1690 psi

3213-3220' Dolomite, white, medium crystalline, fair inter-crystalline porosity, fair to good brown stain and saturation; fair show of free oil and odor, with sandy dolomite, medium grained; surrounded with fair to good stain and saturation, fair show of free oil.

Drill Stem Test #5 **3188-3220'**

Times: 30-45-45-60

Blow: Strong

Recovery: 240' clean oil
30' gassy watery mud
(30% gas; 5% water; 65% mud)

Pressures: ISIP 905 psi
FSIP 894 psi
IFP 31-72 psi
FFP 81-129 psi
HSH 1651-1598 psi

3220-3230' Dolomite, white, light gray, medium and coarse crystalline, fair inter-crystalline porosity, dark brown stain, fair show of free oil and good odor, dull fluorescence.

Drill Stem Test #6 **3216-3230'**

Times: 15-45-15-60

Blow: Strong

Recovery: 1450' muddy water

Pressures: ISIP 1389 psi
FSIP 1531 psi
IFP 1285-733 psi
FFP 776-773 psi
HSH 1657-1727 psi

3230-3240' Dolomite, white, coarse crystalline, good porosity, no shows.

3240-3260' Dolomite, white, medium crystalline, no shows.

3260-3270' Dolomite, white, medium crystalline, sand with coarse grained, sub-

Mai Oil Operations, Inc.
Krug-Driscoll Unit #1
N/2-NW-NW-SW (2565' FSL & 330
Section 4-15s-14w
Russell County, Kansas

Page 6

	rounded sand inclusions.
3270-3280'	Dolomite, white, coarse crystalline, trace glauconite.
3280-3290'	Dolomite, tan, white, finely crystalline, with coarse grained; sub-rounded, sand inclusions.
3290-3296'	Dolomite, as above.

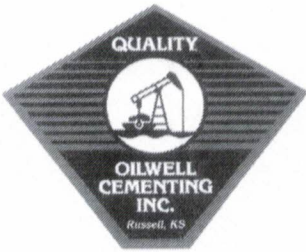
Rotary Total Depth	3296
Log Total Depth	3296

Recommendations:

5 ½” production casing was set and cemented on the Mai Oil Operations Inc., Krug-Driscoll Unit #1

Respectfully submitted,

James C Musgrove/Kim Shoemaker
Petroleum Geologists



QUALITY OILWELL CEMENTING, INC.

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

Date: 11/29/2023
Invoice # 3883

P.O.#:

Due Date: 12/29/2023

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8111 Douglas Ave., Ste 710
Dallas TX 75225-5520

Reference:

KRUG DRISCOLL UNIT 1 SEC 4-15-14

Description of Work:

SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 869.52	No				
Common-Class A	150	\$ 3,011.44	Yes				
POZ Mix-Standard	100	\$ 682.20	Yes				
Calcium Chloride	11	\$ 600.34	Yes				
Bulk Truck Matl-Material Service Charge	266	\$ 259.24	No				
Premium Gel (Bentonite)	5	\$ 141.31	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 65.78	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 51.17	No				

Invoice Terms:

Net 30

SubTotal: \$ 5,681.00

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (142.03)

SubTotal for Taxable Items: \$ 4,324.41

SubTotal for Non-Taxable Items: \$ 1,214.56

Total: \$ 5,538.97

Tax: \$ 367.57

8.50% Russell County Sales Tax

Amount Due: \$ 5,906.54

Applied Payments:

Balance Due: \$ 5,906.54

Thank You For Your Business!

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

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. **3883**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11/29/23	4	15	14	Russell	Ks		1:15 am
Location <i>Russell 65 1 3/4 W S into</i>							

Lease <i>Krug-Driscoll Unit</i>	Well No. <i>1</i>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <i>Southwind Drilling</i>		
Type Job <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D.	Charge To <i>Ma' Oil</i>
Csg. <i>8 5/8</i>	Depth <i>477.21</i>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>20'</i>	Shoe Joint	Cement Amount Ordered <i>250 % 40 4% cc 2% gel</i>
Meas Line	Displace <i>29</i>	

EQUIPMENT

Pumptrk <i>16</i>	No. Cementer <i>Tim</i>	Common <i>150</i>
Bulktrk <i>14</i>	No. Driver <i>Doug</i>	Poz. Mix <i>100</i>
Bulktrk <i>PV</i>	No. Driver <i>David</i>	Gel. <i>5</i>
		Calcium <i>11</i>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>Ran 8 5/8 and est. circulation</i>	Sand
<i>Cemented with 250 sks</i>	Handling <i>266</i>
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
<i>Cement did circulate</i>	Float Shoe
	Latch Down
	Pumptrk Charge <i>Surface</i>
	Mileage <i>15</i>

X Signature <i>Frank J Rowe</i>	Tax
	Discount
	Total Charge

Thank



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: 12/6/2023
Invoice # 3884

P.O.#:

Due Date: 1/5/2024

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8111 Douglas Ave., Ste 710
Dallas TX 75225-5520

Reference:

KRUG DRISCOLL UNIT 1 SEC 4-15-14

Description of Work:

PROD STRING

Services / Items Included:		Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor			\$ 869.52	No	Pump Truck Mileage-Job to Nearest Camp	15	\$65.78	No
Common-Class A	135	\$ 2,710.30	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$51.17	No	
Mud Clear	1000	\$ 1,422.88	Yes					
5 1/2" Turbolizer	13	\$ 912.20	Yes					
POZ Mix-Standard	90	\$ 613.98	Yes					
5 1/2" Basket	2	\$ 545.76	Yes					
Auto Fill Float Shoe, 5 1/2"	1	\$ 327.46	Yes					
Latch Down Plug & Baffle, 5 1/2"	1	\$ 259.24	Yes					
Bulk Truck Matl-Material Service Charge	246	\$ 239.75	No					
Salt (Fine)	17	\$ 217.04	Yes					
Flo Seal	50	\$ 97.46	Yes					
						Sub Total:	\$ 8,332.53	

Invoice Terms:

Net 30

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (208.31)

SubTotal:	\$ 8,332.53
SubTotal for Taxable Items:	\$ 6,928.66
SubTotal for Non-Taxable Items:	\$ 1,195.56
Total:	\$ 8,124.22
Tax:	\$ 588.94

8.50% Russell County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,713.16
Applied Payments:
Balance Due: \$ 8,713.16

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

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

Cell 785-324-1041		Sec.	Twp.	Range	County	State	On Location	Finish
Date	12/6/23	4	15	14	Russell	Kansas		2:45 AM
					Location Russell 65174 W Sinto			

Lease Krug-Driscoll Unit	Well No. 1	Owner
Contractor Southwind Drilling		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 Long string		Charge To Mai
Hole Size 7 7/8	T.D. 3296	Street
Csg. 5 1/2 14"	Depth 3294	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 26.26	Shoe Joint 26.26	Cement Amount Ordered 225 % 40 10 % salt
Meas Line	Displace 80 bbl	2 % gel 1/4 # flow 1000 gal Mud Clear

Pumptrk	16	No.	Cementer Helper	Tin	Poz. Mix	90
Bulktrk	3	No.	Driver	Joe	Gel.	4
Bulktrk	PH	No.	Driver	David	Calcium	

Remarks:	Salt 17
Rat Hole 30 sks	Flowseal 50 #
Mouse Hole 15 sks	Kol-Seal
Centralizers 1-10, 15, 21, 22	Mud CLR 48 1000 gal
Baskets 10, 16	CFL-117 or CD110 CAP 38
D/V or Port Collar	Sand

Ran 5 1/2 and est. circulation	Handling 240	
Ran 1000 gal mud clear	Mileage	
Cemented Rat & Mouse hole		FLOAT EQUIPMENT
Cemented csg with 150 sks	Guide Shoe	
and displaced	Centralizer 13	
	Baskets 2	
Li fr pressure @ 800#	AFU Inserts	
Landed plug @ 1500#	Float Shoe 1	
	Latch Down 1	

Cemented Rat # Mouse hole	Guide Shoe	
Cemented csg with 150 sks	Centralizer	13
and displaced	Baskets	2
	AFU Inserts	
L. In pressure @ 800#	Float Shoe	1
Landed plug @ 1500#	Latch Down	1

Pumptrk Charge	prod String
Mileage	15

☒ Signature	<i>Rita Barbieri</i>	Thanks

X
Signature

Item	Price	Tax	Discount	Total Charge
1. 1000	1000	100	0	1100
2. 2000	2000	200	0	2200
3. 3000	3000	300	0	3300
4. 4000	4000	400	0	4400
5. 5000	5000	500	0	5500
6. 6000	6000	600	0	6600
7. 7000	7000	700	0	7700
8. 8000	8000	800	0	8800
9. 9000	9000	900	0	9900
10. 10000	10000	1000	0	11000
11. 11000	11000	1100	0	12100
12. 12000	12000	1200	0	13200
13. 13000	13000	1300	0	14300
14. 14000	14000	1400	0	15400
15. 15000	15000	1500	0	16500
16. 16000	16000	1600	0	17600
17. 17000	17000	1700	0	18700
18. 18000	18000	1800	0	19800
19. 19000	19000	1900	0	20900
20. 20000	20000	2000	0	22000
21. 21000	21000	2100	0	23100
22. 22000	22000	2200	0	24200
23. 23000	23000	2300	0	25300
24. 24000	24000	2400	0	26400
25. 25000	25000	2500	0	27500
26. 26000	26000	2600	0	28600
27. 27000	27000	2700	0	29700
28. 28000	28000	2800	0	30800
29. 29000	29000	2900	0	31900
30. 30000	30000	3000	0	33000
31. 31000	31000	3100	0	34100
32. 32000	32000	3200	0	35200
33. 33000	33000	3300	0	36300
34. 34000	34000	3400	0	37400
35. 35000	35000	3500	0	38500
36. 36000	36000	3600	0	39600
37. 37000	37000	3700	0	40700
38. 38000	38000	3800	0	41800
39. 39000	39000	3900	0	42900
40. 40000	40000	4000	0	44000
41. 41000	41000	4100	0	45100
42. 42000	42000	4200	0	46200
43. 43000	43000	4300	0	47300
44. 44000	44000	4400	0	48400
45. 45000	45000	4500	0	49500
46. 46000	46000	4600	0	50600
47. 47000	47000	4700	0	51700
48. 48000	48000	4800	0	52800
49. 49000	49000	4900	0	53900
50. 50000	50000	5000	0	55000
51. 51000	51000	5100	0	56100
52. 52000	52000	5200	0	57200
53. 53000	53000	5300	0	58300
54. 54000	54000	5400	0	59400
55. 55000	55000	5500	0	60500
56. 56000	56000	5600	0	61600
57. 57000	57000	5700	0	62700
58. 58000	58000	5800	0	63800
59. 59000	59000	5900	0	64900
60. 60000	60000	6000	0	66000
61. 61000	61000	6100	0	67100
62. 62000	62000	6200	0	68200
63. 63000	63000	6300	0	69300
64. 64000	64000	6400	0	70400
65. 65000	65000	6500	0	71500
66. 66000	66000	6600	0	72600
67. 67000	67000	6700	0	73700

Thanks