

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	S&S A UNIT 1
Doc ID	1660907

Tops

Name	Top	Datum
Anhydrite	722	1138
Topeka	2636	-776
Heebner	2918	-1058
Toronto	2936	-1076
Douglas	2950	-1090
Brown Lime	3008	-1148
Lansing	3026	-1166
BKC	3279	-1419
Arbuckle	3302	-1442



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: 7/15/2022
 Invoice # 2924

P.O.#:
 Due Date: 8/14/2022
 Division: Russell

Invoice

Contact:
 Mai Oil Operations
Address/Job Location:

8411 Preston Rd. Ste 800
 Dallas TX 75225-5520

Reference:
 S & S A UNIT 1 SEC 36-15-12

Description of Work:
 PROD STRING TOP STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 855.03	No				
Common-Class A	210	\$ 4,145.75	Yes				
POZ Mix-Standard	140	\$ 939.17	Yes				
Calcium Chloride	15	\$ 805.00	Yes				
Bulk Truck Matl-Material Service Charge	371	\$ 355.54	No				
Premium Gel (Bentonite)	6	\$ 166.75	Yes				
8 5/8" Top Rubber Plug	1	\$ 116.92	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 107.81	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 83.85	No				

SubTotal: \$ 7,575.82

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (189.40)

SubTotal for Taxable Items: \$ 6,019.24

SubTotal for Non-Taxable Items: \$ 1,367.18

Total: \$ 7,386.42

Tax: \$ 511.64

8.50% Russell County Sales Tax

Amount Due: \$ 7,898.06

Applied Payments:

Balance Due: \$ 7,898.06

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

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

No. **2924**

Cell 785-324-1041

Date	7-15-22	Sec.	36	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	10 am
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Lease **S+S A unit** Well No. **1** Location **Dubuque - 1/2 W, 1N 1/2 E to**

Contractor **Southwind #1** Owner **Double Red code, 5/1 into Altona**
 To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish **Fence**

Type Job **Surface** Cementer and helper to assist owner or contractor to do work as listed.

Hole Size **12 1/4"** T.D. **730'** Charge To **Maui oil operations**

Csg. **8 5/8"** Depth **729'** 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. **30'** Shoe Joint **30'** Cement Amount Ordered **350 60/40 40/CC 20/6el**

Meas Line Displace **44 1/2 BLS**

EQUIPMENT			Common
Pumptrk 16	No.	Cementer Jordan	210
		Helper	
Bulktrk 13	No.	Driver Ross	Poz. Mix 140
		Driver	
Bulktrk p.u.	No.	Driver Rick	Gel. 6
		Driver	
			Calcium 15

JOB SERVICES & REMARKS

Remarks: **Cement did Circulate**

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 **376**

Mileage

FLOAT EQUIPMENT

Guide Shoe **Rubber plug**

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **Long Surface**

Mileage **25**

Tax

Discount

Total Charge

Signature **Mark J. Pava** 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: 7/21/2022
 Invoice # 2929

P.O.#:

Due Date: 8/20/2022

Division: Russell

Invoice

Contact:
 Mai Oil Operations
Address/Job Location:

8411 Preston Rd. Ste 800
 Dallas TX 75225-5520

Reference:
 S & S A UNIT 1 SEC 36-15-12

Description of Work:
 PROD STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 855.03	No				
Common-Class A	110	\$ 2,171.58	Yes	Premium Gel (Bentonite)	3	\$83.38	Yes
Mud Clear	1000	\$ 1,399.17	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$83.85	No
5 1/2" Turbolizer	11	\$ 759.00	Yes				
POZ Mix-Standard	70	\$ 469.58	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 322.00	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 254.92	Yes				
Salt (Fine)	15	\$ 188.31	Yes				
Bulk Truck Mat-Material Service Charge	198	\$ 189.75	No				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 107.81	No				
Flo Seal	50	\$ 95.83	Yes				

Invoice Terms:

Net 30

	<i>SubTotal:</i>	\$ 6,980.21
	<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (174.51)
<hr/>		
	SubTotal for Taxable Items:	\$ 5,600.18
	SubTotal for Non-Taxable Items:	\$ 1,205.53
<hr/>		
	Total:	\$ 6,805.70
	Tax:	\$ 476.02
<hr/>		
	Amount Due:	\$ 7,281.72
	Applied Payments:	
	Balance Due:	\$ 7,281.72

8.50% Russell County Sales Tax

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. 2929

Date	7-21-22	Sec.	36	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	3:00 AM
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Lease **S & S A unit** Well No. **1** Location **Dubuque - 1/2 W, 1 N, 1 E, S/Into**

Contractor **Southwind #1** Owner **To Quality Oilwell Cementing, Inc.**
 Type Job **Longstring** You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size **7 7/8"** T.D. **3410'** Charge To **Mai oil operations**

Csg. **5 1/2" 14# New** Depth **3407.06'** Street _____ City _____ State _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____

Cement Left in Csg. **38.39'** Shoe Joint **38.39'** The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line _____ Displace **82 BLS** Cement Amount Ordered **180.60/40 10% Salt 2% Gel**

EQUIPMENT

Pumptrk **16** No. _____ Cementer **David** Common **110**

Bulktrk **15** No. _____ Driver **Clayton** Poz. Mix **70**

Bulktrk **p.u.** No. _____ Driver **Rick** Gel. **3**

JOB SERVICES & REMARKS

Remarks: _____ Hulls _____

Rat Hole **30 5x** Salt **15**

Mouse Hole **15 5x** Flowseal **50#**

Centralizers **1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12** Kol-Seal _____

Baskets _____ Mud CLR 48 **1000 gal**

D/V or Port Collar **pipe on bottom break** CFL-117 or CD110 CAF 38

Circulation pump **1000 gal mud clear; plug Rat + mouse holes; Cement 0 5 1/2" casing w/ 1355x. Shut down wash pump + lines displaced w/ 82 BLS H2O. Released + held.** Sand _____

Handling **198** Mileage _____

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer **11** Baskets _____

AFU Inserts _____

Float Shoe **1** Latch Down **1**

Lift pressure **600 #** Land plug to **1400 #**

Pumptrk Charge **prod string**

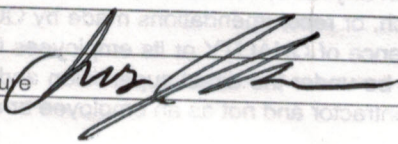
Mileage **25**

Tax

Discount

Total Charge

Thanks

X Signature 



DRILL STEM TEST REPORT

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

8411 Preston Rd Ste 800
Dallas, TX 75225

ATTN: Jim Muskgrove

S&S A Unit #1

36-15S-12W Russell,KS

Start Date: 2022.07.18 @ 16:39:22

End Date: 2022.07.18 @ 23:28:31

Job Ticket #: 68421 DST #: 1

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

Printed: 2022.07.22 @ 08:48:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68421

DST#: 1

ATTN: Jim Muskgrove

Test Start: 2022.07.18 @ 16:39:22

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:38:12

Time Test Ended: 23:28:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: 3174.00 ft (KB) To 3246.00 ft (KB) (TVD)

Reference Elevations: 1860.00 ft (KB)

Total Depth: 3246.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 163.81 psig @ 3177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.18 End Date: 2022.07.18

Last Calib.: 2022.07.18

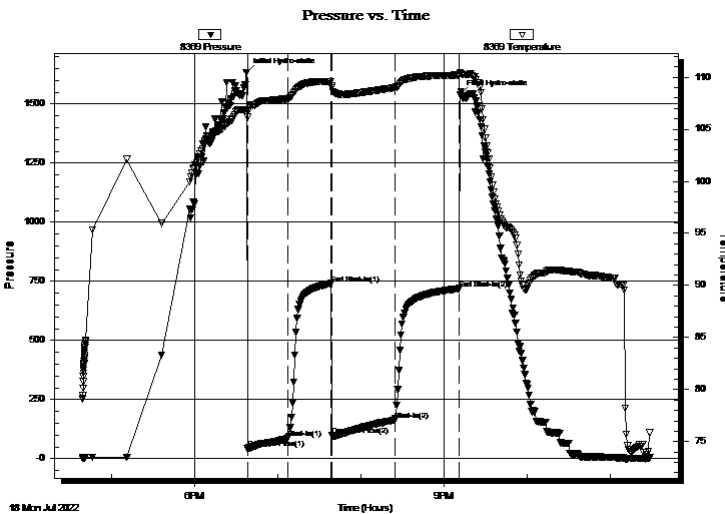
Start Time: 16:39:23 End Time: 23:28:32

Time On Btm: 2022.07.18 @ 18:37:22

Time Off Btm: 2022.07.18 @ 21:11:31

TEST COMMENT: IF:Strong Building Blow built 161.76" (30)
IS:No Blow Back (30)
FF:Strong Building Blow built 171.87" (45)
FS: .25" Blow Back (45)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.92	106.86	Initial Hydro-static
1	42.54	106.18	Open To Flow (1)
31	86.51	107.91	Shut-In(1)
61	741.23	109.59	End Shut-In(1)
62	97.56	108.99	Open To Flow (2)
108	163.81	109.00	Shut-In(2)
154	719.37	110.19	End Shut-In(2)
155	1538.89	110.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OWMCG 55%G 35%O 5%W 5%M	0.92
63.00	GWMCO 35%G 55%O 5%W 5%M	0.92
63.00	GMCO 50%G 35%O 15%M	0.92
189.00	GMCO 30%G 50%O 20%M	2.76
0.00	2079' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15S-12W Russell, KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

ATTN: Jim Muskgrove

Job Ticket: 68421

DST#: 1

Test Start: 2022.07.18 @ 16:39:22

GENERAL INFORMATION:

Formation: Lansing I-K	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Eric Burgess
Time Tool Opened: 18:38:12	Unit No: 80
Time Test Ended: 23:28:31	Reference Elevations: 1860.00 ft (KB)
Interval: 3174.00 ft (KB) To 3246.00 ft (KB) (TVD)	1850.00 ft (CF)
Total Depth: 3246.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

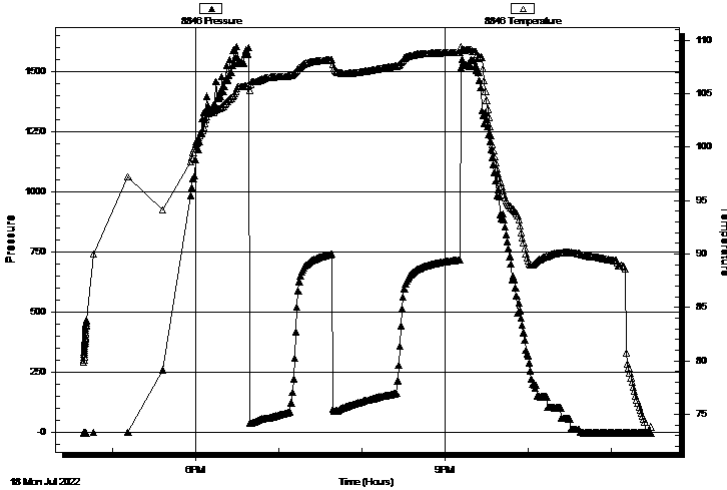
Serial #: 8846

Outside

Press@RunDepth: psig @ 3177.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.07.18	End Date: 2022.07.18
Start Time: 16:39:14	End Time: 23:28:43
	Last Calib.: 1899.12.30
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Strong Building Blow built 161.76" (30)
 IS: No Blow Back (30)
 FF: Strong Building Blow built 171.87" (45)
 FS: .25" Blow Back (45)

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OWMCG 55%G 35%O 5%W 5%M	0.92
63.00	GWMCO 35%G 55%O 5%W 5%M	0.92
63.00	GMCO 50%G 35%O 15%M	0.92
189.00	GMCO 30%G 50%O 20%M	2.76
0.00	2079' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68421

DST#: 1

ATTN: Jim Muskgrove

Test Start: 2022.07.18 @ 16:39:22

Tool Information

Drill Pipe:	Length: 3169.00 ft	Diameter: 3.88 inches	Volume: 46.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 24000.00 lb
			<u>Total Volume: 46.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3174.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3149.00	
Shut In Tool	5.00			3154.00	
Hydraulic tool	5.00			3159.00	
Em Tool	3.00			3162.00	
Safety Joint	3.00			3165.00	
Packer	4.00			3169.00	26.00 Bottom Of Top Packer
Packer	5.00			3174.00	
Stubb	1.00			3175.00	
Perforations	1.00			3176.00	
Change Over Sub	1.00			3177.00	
Recorder	0.00	8369	Outside	3177.00	
Recorder	0.00	8846	Outside	3177.00	
Blank Spacing	31.00			3208.00	
Change Over Sub	1.00			3209.00	
Perforations	34.00			3243.00	
Bullnose	3.00			3246.00	72.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68421

DST#: 1

ATTN: Jim Muskgrove

Test Start: 2022.07.18 @ 16:39:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OWMCG 55%G 35%O 5%W 5%M	0.921
63.00	GWMCO 35%G 55%O 5%W 5%M	0.921
63.00	GMCO 50%G 35%O 15%M	0.921
189.00	GMCO 30%G 50%O 20%M	2.764
0.00	2079' GIP	0.000

Total Length: 378.00 ft

Total Volume: 5.527 bbl

Num Fluid Samples: 0

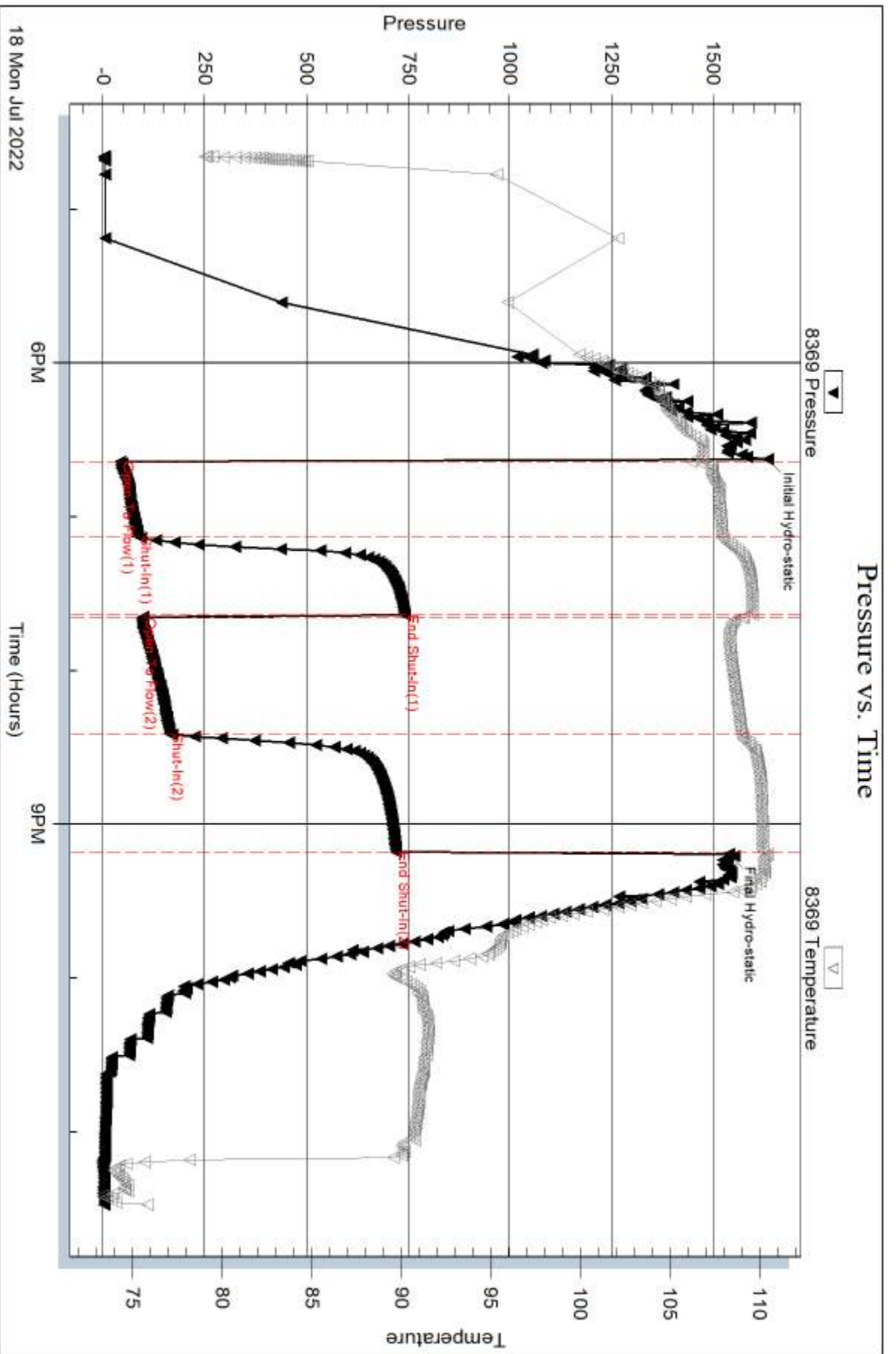
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

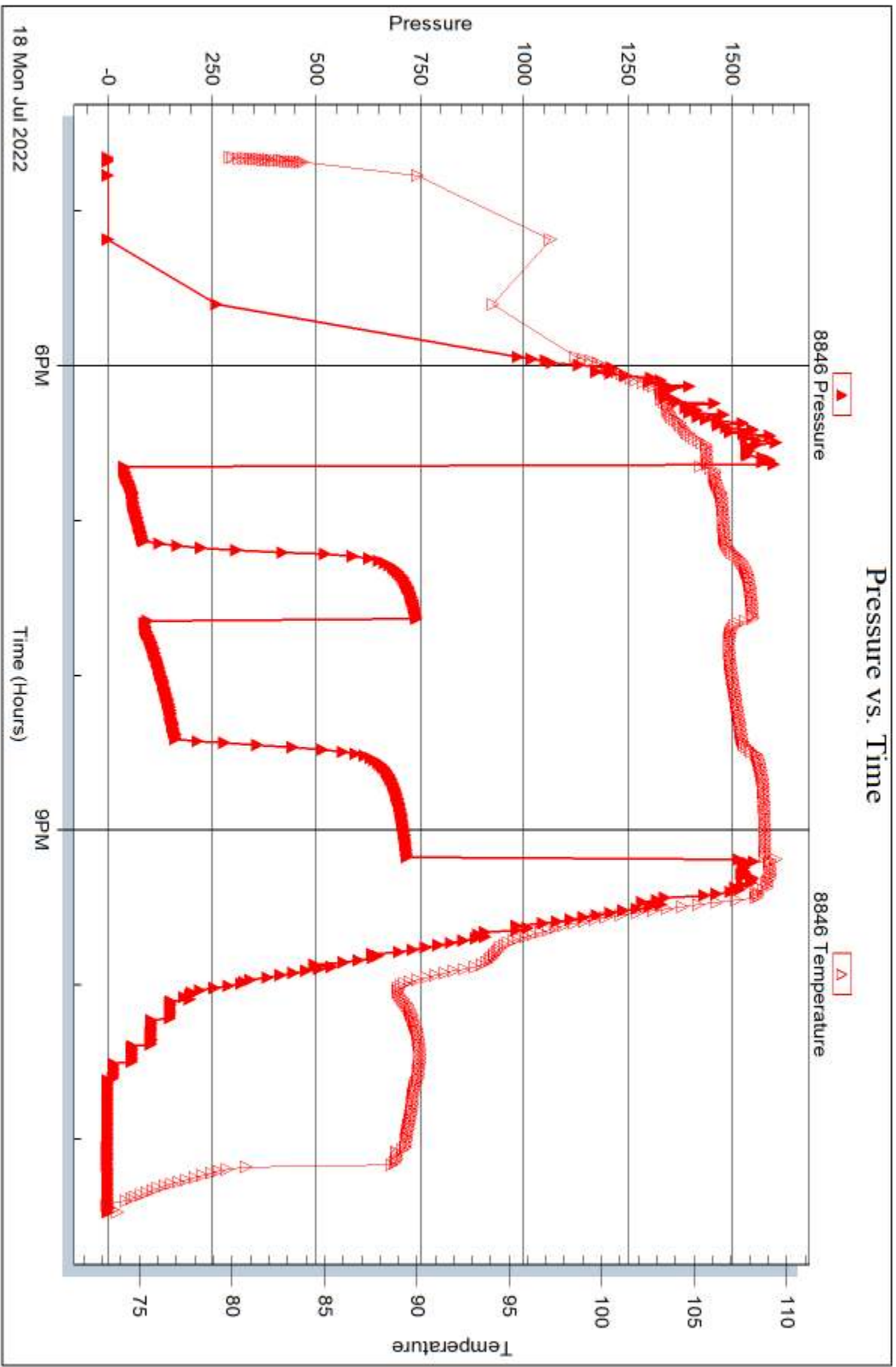


Serial #: 8846

Outside Mai Oil Operations Inc.

S&S A Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 68421

Printed: 2022.07.22 @ 08:48:27



DRILL STEM TEST REPORT

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

8411 Preston Rd Ste 800
Dallas, TX 75225

ATTN: Jim Muskgrove

S&S A Unit #1

36-15S-12W Russell,KS

Start Date: 2022.07.19 @ 09:19:14

End Date: 2022.07.19 @ 15:17:34

Job Ticket #: 68422 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 08:41:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

ATTN: Jim Muskgrove

Job Ticket: 68422

DST#: 2

Test Start: 2022.07.19 @ 09:19:14

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:07:54

Time Test Ended: 15:17:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3271.00 ft (KB) To 3316.00 ft (KB) (TVD)

Reference Elevations: 1860.00 ft (KB)

Total Depth: 3316.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 126.02 psig @ 3273.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.19

End Date: 2022.07.19

Last Calib.: 2022.07.19

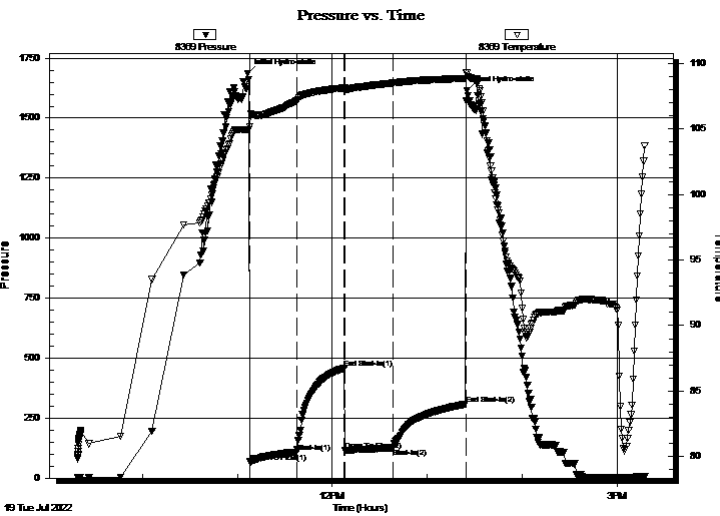
Start Time: 09:19:15

End Time: 15:17:34

Time On Btm: 2022.07.19 @ 11:06:34

Time Off Btm: 2022.07.19 @ 13:25:14

TEST COMMENT: IF:Strong Building Blow built 27.88" (30)
IS:No Blow Back (30)
FF:Weak Building Blow built 4" in bucket (30)
FS: No Blow Back (45)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.73	104.95	Initial Hydro-static
2	67.37	105.14	Open To Flow (1)
31	108.93	107.12	Shut-In(1)
61	457.71	108.11	End Shut-In(1)
62	117.18	108.00	Open To Flow (2)
92	126.02	108.48	Shut-In(2)
138	308.52	108.83	End Shut-In(2)
139	1614.45	109.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMWCO 20%G 60%O 5%W 15%M	0.92
63.00	GMWCO 25%G 50%O 5%W 20%M	0.92
63.00	MCO 95%O 5%M	0.92
94.00	OIL 100%O	1.37

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.
8411 Preston Rd Ste 800
Dallas, TX. 75225
ATTN: Jim Muskgrove

36-15S-12W Russell,KS

S&S A Unit #1

Job Ticket: 68422 **DST#: 2**

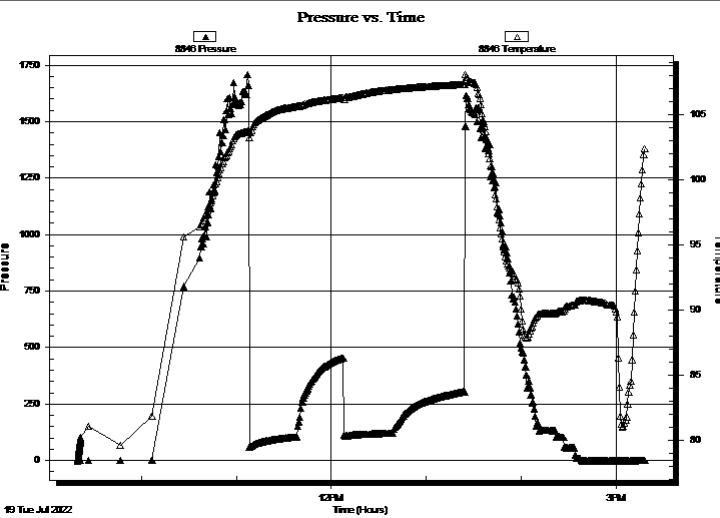
Test Start: 2022.07.19 @ 09:19:14

GENERAL INFORMATION:

Formation: Arbuckle	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 11:07:54	Tester: Eric Burgess
Time Test Ended: 15:17:34	Unit No: 80
Interval: 3271.00 ft (KB) To 3316.00 ft (KB) (TVD)	Reference Elevations: 1860.00 ft (KB)
Total Depth: 3316.00 ft (KB) (TVD)	1850.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 10.00 ft

Serial #: 8846	Inside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3273.00 ft (KB)	Start Date: 2022.07.19	Last Calib.: 1899.12.30
Start Time: 09:19:34	End Date: 2022.07.19	Time On Btm:
	End Time: 15:18:33	Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 27.88" (30)
 IS:No Blow Back (30)
 FF:Weak Building Blow built 4" in bucket (30)
 FS: No Blow Back (45)



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

Recovery		
Length (ft)	Description	Volume (bbl)
63.00	GMWCO 20%G 60%O 5%W 15%M	0.92
63.00	GMWCO 25%G 50%O 5%W 20%M	0.92
63.00	MCO 95%O 5%M	0.92
94.00	OIL 100%O	1.37

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68422

DST#: 2

ATTN: Jim Muskgrove

Test Start: 2022.07.19 @ 09:19:14

Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.88 inches	Volume: 47.72 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	24000.00 lb
			<u>Total Volume: 47.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3271.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3246.00	
Shut In Tool	5.00			3251.00	
Hydraulic tool	5.00			3256.00	
Em Tool	3.00			3259.00	
Safety Joint	3.00			3262.00	
Packer	4.00			3266.00	26.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Perforations	1.00			3273.00	
Recorder	0.00	8369	Outside	3273.00	
Recorder	0.00	8846	Inside	3273.00	
Perforations	40.00			3313.00	
Bullnose	3.00			3316.00	45.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68422

DST#: 2

ATTN: Jim Muskgrove

Test Start: 2022.07.19 @ 09:19:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GMWCO 20%G 60%O 5%W 15%M	0.921
63.00	GMWCO 25%G 50%O 5%W 20%M	0.921
63.00	MCO 95%O 5%M	0.921
94.00	OIL 100%O	1.375

Total Length: 283.00 ft

Total Volume: 4.138 bbl

Num Fluid Samples: 0

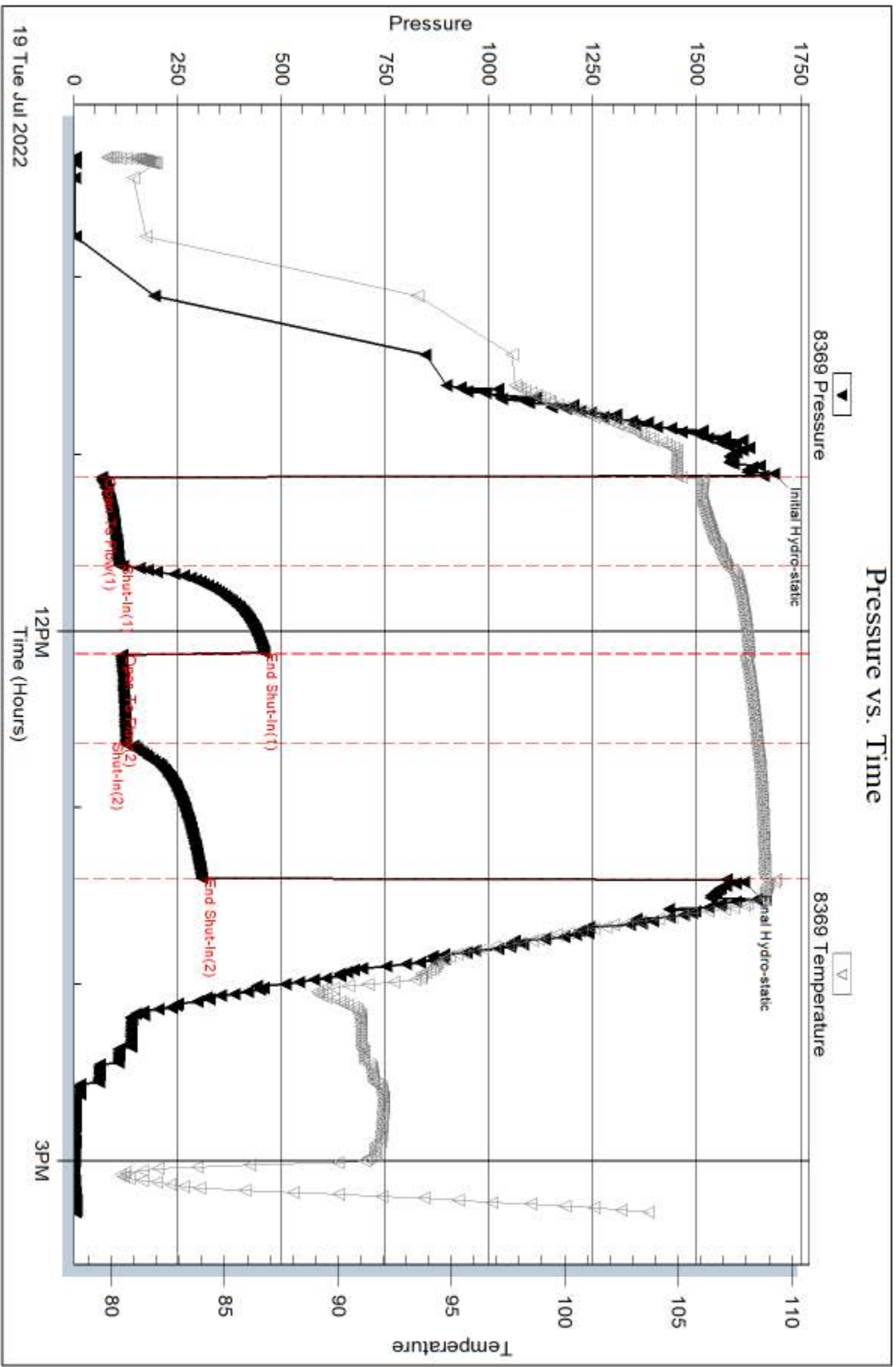
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



19 Tue Jul 2022

12PM
Time (Hours)

3PM

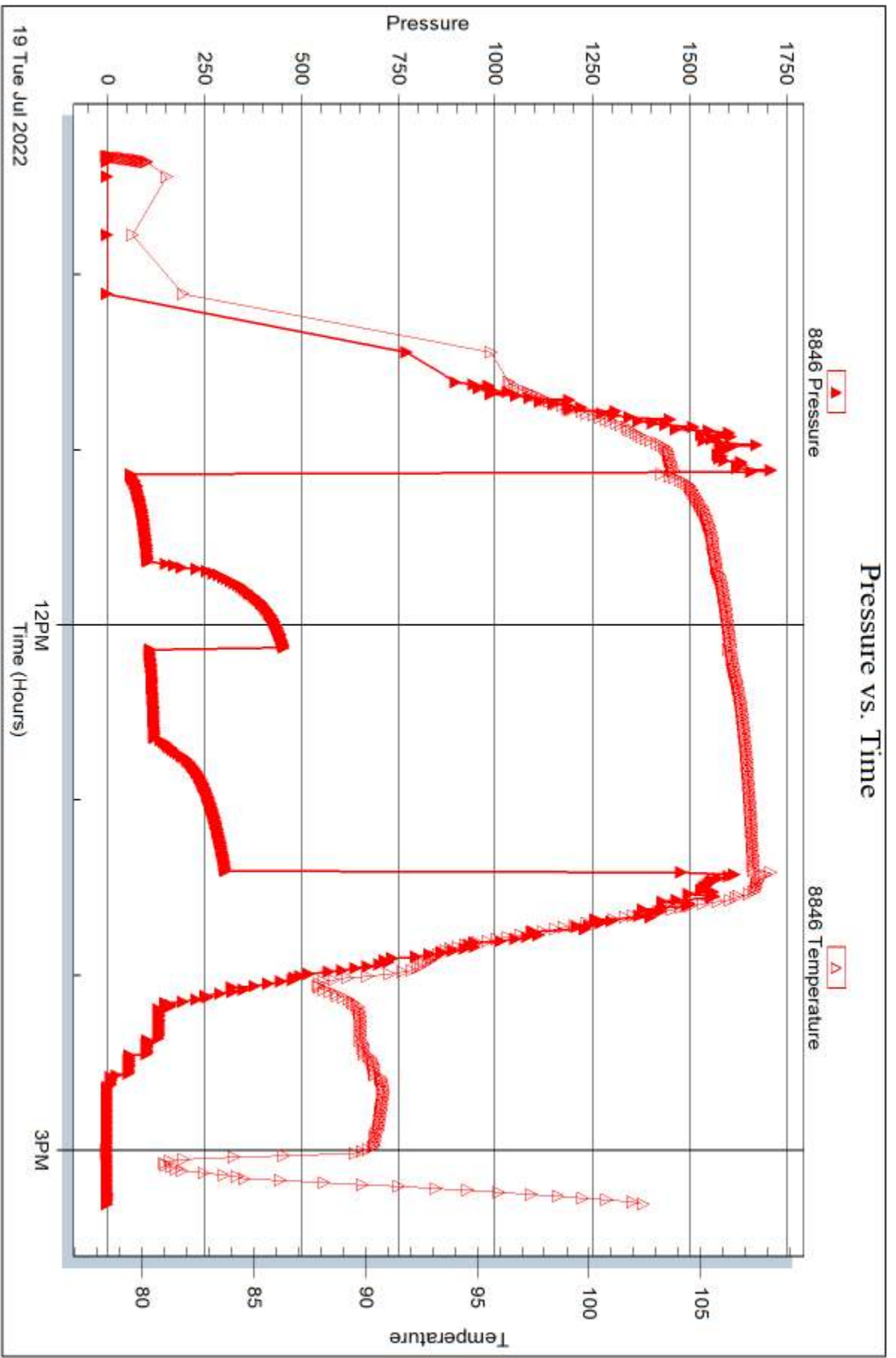
Serial #: 8846

Inside

Mai Oil Operations Inc.

S&S A Unit #1

DST Test Number: 2



19 Tue Jul 2022

12PM
Time (Hours)

3PM

Triobite Testing, Inc

Ref. No: 68422

Printed: 2022.07.22 @ 08:41:58



DRILL STEM TEST REPORT

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

8411 Preston Rd Ste 800
Dallas, TX 75225

ATTN: Jim Muskgrove

S&S A Unit #1

36-15S-12W Russell,KS

Start Date: 2022.07.19 @ 22:10:22

End Date: 2022.07.20 @ 05:06:42

Job Ticket #: 68423 DST #: 3

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

Printed: 2022.07.22 @ 08:15:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

ATTN: Jim Muskgrove

Job Ticket: 68423

DST#: 3

Test Start: 2022.07.19 @ 22:10:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:02

Time Test Ended: 05:06:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3315.00 ft (KB) To 3331.00 ft (KB) (TVD)

Reference Elevations: 1860.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 450.15 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.19 End Date: 2022.07.20

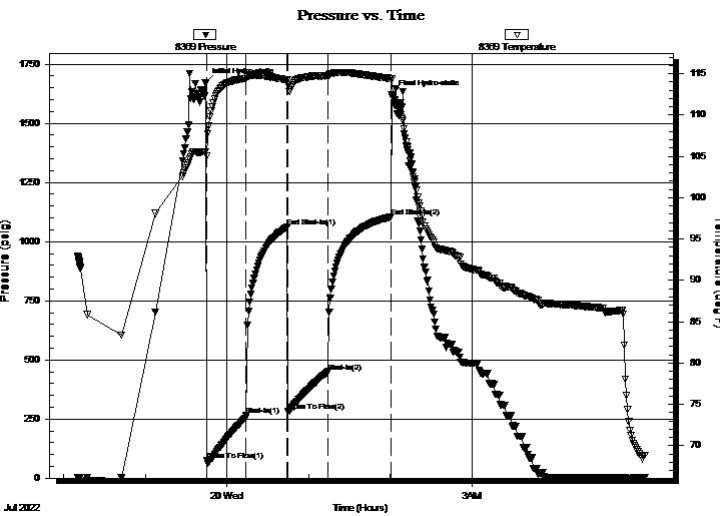
Last Calib.: 2022.07.20

Start Time: 22:10:23 End Time: 05:06:42

Time On Btm: 2022.07.19 @ 23:44:12

Time Off Btm: 2022.07.20 @ 02:00:52

TEST COMMENT: IF:Strong Building Blow built 82.61" (30)
IS:No Blow Back (30)
FF:Strong Building Blow built 70.19" (30)
FS:No Blow Back (45)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.34	105.53	Initial Hydro-static
1	76.66	104.99	Open To Flow (1)
30	264.02	114.42	Shut-In(1)
60	1061.91	114.22	End Shut-In(1)
61	282.91	113.71	Open To Flow (2)
90	450.15	114.75	Shut-In(2)
136	1103.83	114.41	End Shut-In(2)
137	1619.72	114.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1386' GIP	0.00
1008.00	Oil 100%O	14.74
63.00	GMWCO 15%M 5%W 50%O 30%G	0.92
63.00	GMWCO 10%M 10%W 50%O 30%G	0.92

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68423

DST#: 3

ATTN: Jim Muskgrove

Test Start: 2022.07.19 @ 22:10:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:02

Time Test Ended: 05:06:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3315.00 ft (KB) To 3331.00 ft (KB) (TVD)

Reference Elevations: 1860.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8846 Outside

Press@RunDepth: psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.19 End Date: 2022.07.20

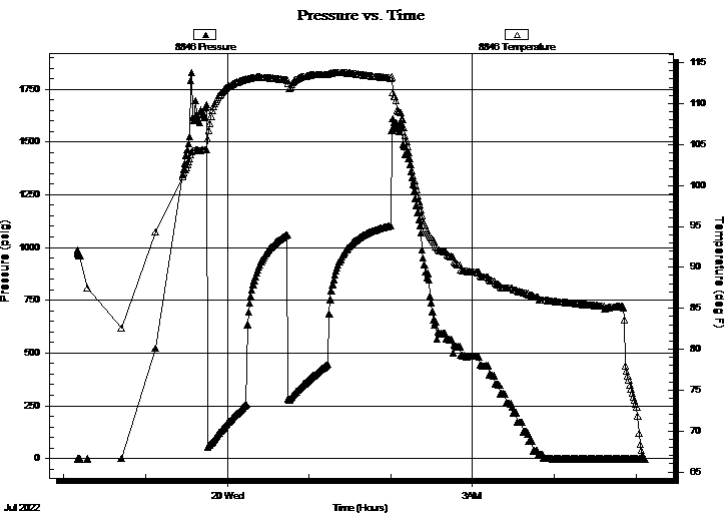
Last Calib.: 1899.12.30

Start Time: 22:10:02 End Time: 05:06:31

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Building Blow built 82.61" (30)
IS: No Blow Back (30)
FF: Strong Building Blow built 70.19" (30)
FS: No Blow Back (45)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1386' GIP	0.00
1008.00	Oil 100%O	14.74
63.00	GMWCO 15%M 5%W 50%O 30%G	0.92
63.00	GMWCO 10%M 10%W 50%O 30%G	0.92

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68423

DST#: 3

ATTN: Jim Muskgrove

Test Start: 2022.07.19 @ 22:10:22

Tool Information

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.88 inches	Volume: 48.17 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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:	24000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3315.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3290.00	
Shut In Tool	5.00			3295.00	
Hydraulic tool	5.00			3300.00	
Em Tool	3.00			3303.00	
Safety Joint	3.00			3306.00	
Packer	4.00			3310.00	26.00 Bottom Of Top Packer
Packer	5.00			3315.00	
Stubb	1.00			3316.00	
Recorder	0.00	8369	Outside	3316.00	
Recorder	0.00	8846	Outside	3316.00	
Perforations	12.00			3328.00	
Bullnose	3.00			3331.00	16.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

36-15S-12W Russell,KS

8411 Preston Rd Ste 800
Dallas, TX. 75225

S&S A Unit #1

Job Ticket: 68423

DST#: 3

ATTN: Jim Muskgrove

Test Start: 2022.07.19 @ 22:10:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

10000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1386' GIP	0.000
1008.00	Oil 100%O	14.741
63.00	GMWCO 15%M 5%W 50%O 30%G	0.921
63.00	GMWCO 10%M 10%W 50%O 30%G	0.921

Total Length: 1134.00 ft

Total Volume: 16.583 bbl

Num Fluid Samples: 0

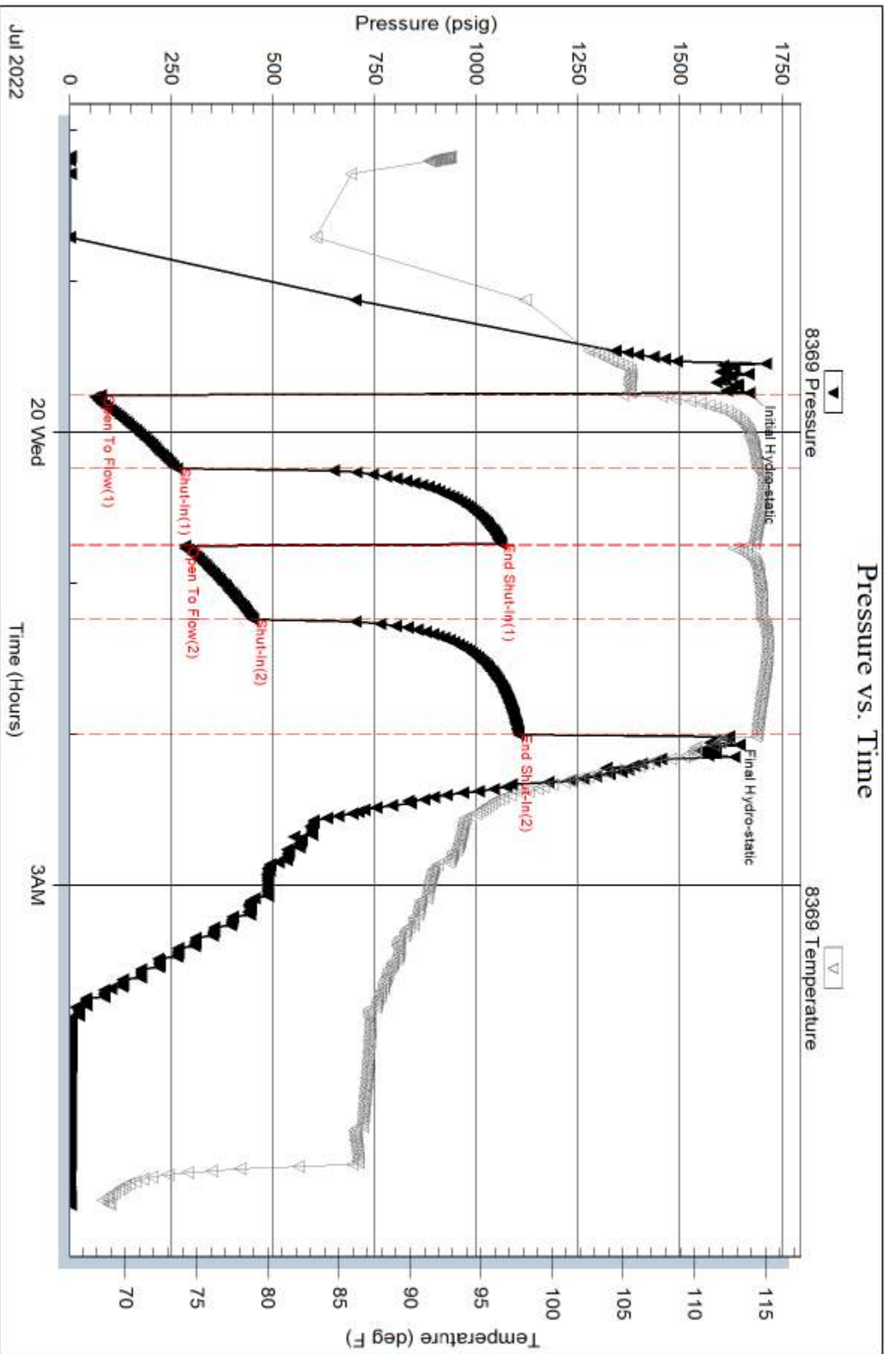
Num Gas Bombs: 0

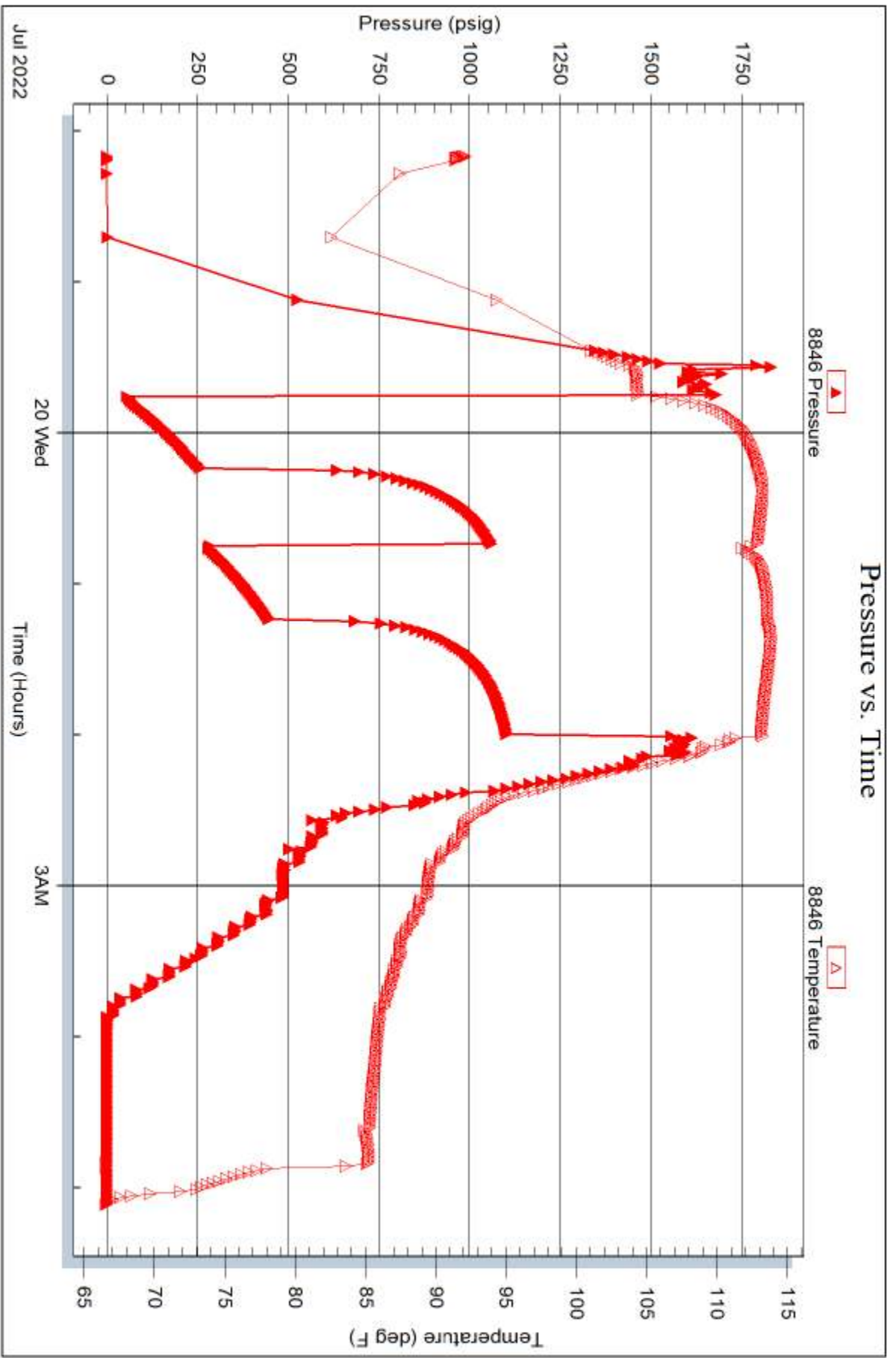
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68421

Well Name & No. SSA Unit #1 Test No. 1 Date 7/18/22
 Company Mai Oil operations Elevation 1860 KB 1850 GL
 Address 8411 Preston Rd STE 800 Dallas, TX 75225
 Co. Rep / Geo. Jim Muskerone Rig Southwind 1
 Location: Sec. 36 Twp 15S Rge. 12W Co. Russell State KS

Interval Tested 3174'-3246' Zone Tested Loring F-K
 Anchor Length 72 Drill Pipe Run 3169 Mud Wt. 9.2
 Top Packer Depth 3166 Drill Collars Run Ø Vls 50
 Bottom Packer Depth 3170 Wt. Pipe Run Ø WL 8.8
 Total Depth 3246 Chlorides 5000 ppm System LCM 1.5

Blow Description FF: Strong Building Blow built 161.76" (30)
ISJ: no flow back (30)
FF: Strong Building Blow built 171.87" (45)
ISJ: 25" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
189	GMCO	30	50	20	
63	GMCO	50	35	15	
63	GWMCO	35	55	5	
63	OWMCO	55	35	5	
	2079' GIP				

Rec Total _____ BHT _____ Gravity 32@60 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1639 Test 1800 T-On Location 1527
 (B) First Initial Flow 43 Jars _____ T-Started 1639
 (C) First Final Flow 87 Safety Joint _____ T-Open 1845
 (D) Initial Shut-In 791 Circ Sub _____ T-Pulled 2118
 (E) Second Initial Flow 98 Hourly Standby _____ T-Out 2328
 (F) Second Final Flow 164 Mileage 96rt 144 Comments _____
 (G) Final Shut-In 719 Sampler _____
 (H) Final Hydrostatic 1539 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1944
 Sub Total 1944 MP/DST Disc't _____

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

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68422

Well Name & No. SSA Unit #1 Test No. 2 Date 7/19/22
 Company Mal Oil Operations Elevation 1860 KB 1850 GL
 Address 8411 Preston Rd Ste 800 Dallas, TX 75225
 Co. Rep / Geo. Jim Mockrone Rig Southwind 1
 Location: Sec. 36 Twp 15S Rge. 12W Co. Russell State K

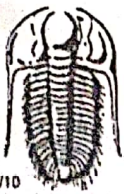
Interval Tested 3271-3316 Zone Tested Arkuckle
 Anchor Length 45' Drill Pipe Run 3263 Mud Wt. 9.3
 Top Packer Depth 3263 Drill Collars Run Ø Vis 50
 Bottom Packer Depth 3267 Wt. Pipe Run Ø WL 9.6
 Total Depth 3316 Chlorides 6000 ppm System LCM 3
 Blow Description FF: Strong Building Blow built 27.88" (30)
ISI: No Blow Back (30)
FF: Weak Building Blow built 4" in bucket (30)
FSE: No Blow Back (45)

Rec	Feet of	%gas	%oil	%water	%mud
94	oil	100			
63	MCO	95		5	
63	GMWCO	25	50	5	20
63	GMWCO	20	60	5	15

Rec Total 283 BHT _____ Gravity 36060 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1687 Test 1800 T-On Location 0840
 (B) First Initial Flow 67 Jars _____ T-Started 0919
 (C) First Final Flow 109 Safety Joint _____ T-Open 1115
 (D) Initial Shut-In 458 Circ Sub _____ T-Pulled 1324
 (E) Second Initial Flow 117 Hourly Standby _____ T-Out 1517
 (F) Second Final Flow 126 Mileage 154 144 Comments _____
 (G) Final Shut-In 309 Sampler _____
 (H) Final Hydrostatic 1614 Straddle _____ EM Tool _____
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1944
 Sub Total 1944 MP/DST Disc't _____

Approved By _____ Our Representative 23
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68423

Well Name & No. SS A Unit #1 Test No. 3 Date 7/19/22
 Company Mei oil operations Inc. Elevation 1860 KB 1850 GL
 Address 8411 Preston Rd STE 800 Dallas, Tx. 75225
 Co. Rep/Geo. Jim Muskarene Rig Southwind 1
 Location: Sec. 26 Twp 15S Rge. 12W Co. Russell State KS

Interval Tested 3315-3331 Zone Tested Aruckle
 Anchor Length 16' Drill Pipe Run 3294 Mud Wt. 9.3
 Top Packer Depth 3307 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3311 Wt. Pipe Run 0 WL 9.6
 Total Depth 3331 Chlorides 6000 ppm System LCM 3

Blow Description FF: Strong building Blow built 82.61" (30)
DSI: no Blow Back (30)
FF: Strong Building Blow built 70.19" (30)
PSI: NO Blow Back (45)

Rec	Feet of	%gas	%oil	%water	%mud
<u>1008</u>	<u>oil</u>	<u>100</u>			
<u>63</u>	<u>GMUCO</u>	<u>30</u>	<u>50</u>	<u>5</u>	<u>15</u>
<u>63</u>	<u>GMUCO</u>	<u>30</u>	<u>50</u>	<u>10</u>	<u>10</u>
	<u>1386' GIP</u>	<u>100</u>			

Rec Total 1134 BHT 114 Gravity 36 @ 60 API RW .60 @ 70 °F Chlorides 10,000 ppm
 Test 1800 T-On Location 2140
 Jars _____ T-Started 2210
 Safety Joint _____ T-Open 2350
 Circ Sub _____ T-Pulled 0205
 Hourly Standby _____ T-Out 2 0506
 Mileage 154 288 Comments _____
 Sampler _____ loaded tools 7/20 9:20
 Straddle _____
 Shale Packer _____ EM Tool _____
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2088
 Sub Total 2088 MP/DST Disc't _____

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

Approved By _____ Our Representative

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.

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 786-0839

Mai Oil Operations, Inc.
S&S Unit A #1
NW-NW-NE-SE (2817' FNL & 1202' FEL)
Section 36-15s-12w
Russell County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #1)
Commenced: July 14, 2022
Completed: July 20, 2022
Elevation: 1860' K.B., 1858 D.F., 1850' G.L.
Casing program: Surface; 8 5/8" @ 729'
Production, 5 1/2" @ 3407'
Sample: Samples saved and examined 2600' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2600' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were three (3) test ran by Trilobite Testing Co.
Electric Log: By Eli, Dual Induction; Compensated Density/Neutron and Micro Log

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	722	+1138
Base Anhydrite	749	+1111
Topeka	2636	-776
Heebner	2918	-1058
Toronto	2936	-1076
Douglas	2950	-1090
Brown Lime	3008	-1148
Lansing	3026	-1166
Base Kansas City	3279	-1419
Arbuckle	3302	-1442
Rotary Total Depth	3410	-1550
Log Total Depth	3412	-1552

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

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

TOPEKA SECTION

2934-2944' Limestone, white, gray, oolitic, sub-oomoldic; poor to fair sub-oomoldic porosity, trace brown stain, no free oil and no odor.
2861-2868' Limestone, white, oomoldic, fair oomoldic porosity, slightly chalky; brown and dark brown spotty stain, show of free oil and no odor.

TORONTO SECTION

2934-2944' Limestone, white, cream, finely crystalline, chalky; light brown surface staining; no free oil and no odor.

LANSING SECTION

3026-3036' Limestone, tan, fine and medium crystalline, fossiliferous; oolitic, chalky; poor visible porosity, trace brown stain, no free oil and no odor.

3051-3059' Limestone, tan, gray; oomoldic, chalky; fair oomoldic porosity; light brown and golden brown stain, no free oil and no odor.

3070-3080' Limestone, tan, dark gray, oolitic, dense

3096-3106' Limestone, white; oolitic; chalky; poorly developed porosity, no shows.

3113-3120; Limestone, white, gray; oomoldic; good oomoldic porosity; trace questionable brown stain, no free oil and no odor.

3120-3137' Limestone, as above

3160-3170' Limestone, white, gray; tan, finely crystalline; oolitic/fossiliferous, slightly chalky; trace brown stain, no free oil and no odor.

3180-3188' Limestone, white, gray, oolitic, fair porosity; brown and dark brown stain, show of free oil and questionable odor.

3198-3208' Limestone, white, gray; oomoldic; poor to fair oomoldic porosity, questionable edge staining, no free oil and no odor in fresh samples.

3233-3238' Limestone; white; highly oolitic, fair to good porosity; gray to black and dark brown stain; show of free oil (heavy, black) and fair odor in fresh samples.

Drill Stem Test #1 **3174-3246'**

Times: 30-30-45-45

Blow: Strong

**Recovery: 2079' gas in pipe
189' gassy muddy oil
(30% gas; 50% oil; 20% mud)
63' heavily oil and gas cut mud
(50% gas; 35% oil; 15% mud)
63' muddy gassy oil; trace of water
(35% gas; 55% oil; 5% water)
63' muddy gassy oil, trace of water
(35% gas; 35% oil; 5% water, 5% mud)**

**Pressures: ISIP 741 psi
FSIP 719 psi
IFP 43-87 psi
FFP 98-164 psi
HSH 1634-1539 psi**

3267-3277' Limestone, tan, brown; finely crystalline; slightly fossiliferous, cherty (dense)

MARMATON SECTION

3284-3300' Shale, gray; green; purplish gray; sandy/silty with chert; white, gray; opaque.

ARBUCKLE SECTION

3302-3316' Dolomite; white, cream; medium crystalline, fair inter-crystalline porosity; fair golden brown and light brown stain, fair show of free oil and faint to faint odor in fresh samples.

Drill Stem Test #2 **3271-3316'**

Times: 30-30-30-45

Blow: Strong
2nd Opening Fair (4'')

Recovery: 94' clean oil
63' slightly mud cut oil
(95% oil; 5% mud)
63' gassy muddy oil
(25% gas; 50% oil; 5% water; 20% mud)
63' gassy muddy oil; trace of water
(25% oil; 60% mud; 5% water; 15% mud)

Pressures: ISIP 458 psi
FSIP 309 psi
IFP 67-109 psi
FFP 117-126 psi
HSH 1687-1614 psi

3316-3327' Dolomite; as above; fair stain; fair show of free oil and faint odor.

3327-3331' Dolomite; gray; white; medium and coarse crystalline, fair to good inter-crystalline to slightly vuggy type porosity; fair to good light brown stain fair show of free oil and fair odor in fresh samples.

Drill Stem Test #3 **3315-3331'**

Times: 30-30-30-45

Blow: Strong

Recovery: 1386' gas in pipe
1008' clean oil
63' gassy muddy oil; trace of water
(30% gas; 50% oil; 5% water; 15 mud)
63' gassy muddy watery oil
(30% gas; 50% oil; 10%water; 10% mud)

Pressures: ISIP 1062 psi
FSIP 1104 psi
IFP 77-264 psi
FFP 283-450 psi
HSH 1670-1620 psi

Mai Oil Operations, Inc.
S&S Unit A #1
NW-NW-NE-SE (2817' FNL & 1202' FEL)
Section 36-15s-12w
Russell County, Kansas

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3320-3331'	Dolomite, white; cream, coarse crystalline, good inter-crystalline and vuggy type porosity, decreasing stain, show of free oil and faint odor.
3350-3360'	Dolomite, as above
3360-3370'	Dolomite; as above, fair to good porosity, glauconitic; brown stain; trace of free oil and questionable.
3370-3380'	Dolomite; as above; sandy; trace stain; no free oil and questionable odor in fresh samples.
3380-3390'	Dolomite; as above
3390-3410'	Dolomite, white, cream, coarse crystalline, few medium crystalline, slightly glauconitic; trace stain, no free oil and no odor.

Rotary Total Depth: 3410
Log Total Depth: 3412

Remarks:

5 1/2" production casing was set and cemented on Mai Oil Operations, Inc.; S&S A Unit #1

Respectfully submitted,

James C Musgrove
Petroleum Geologist