



## DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co**

101 S. Main St  
Stafford KS 67578+1429

ATTN: Josh Austin

### **Fisher #1-23**

#### **23-24s-12w Stafford,KS**

Start Date: 2019.10.11 @ 18:04:00

End Date: 2019.10.12 @ 01:56:00

Job Ticket #: 65703                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.10.14 @ 14:29:18

Rama Operating Co  
23-24s-12w Stafford,KS  
Fisher #1-23  
DST # 1  
LKC A-D  
2019.10.11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Rama Operating Co  
 101 S. Main St  
 Stafford KS 67578+1429  
 ATTN: Josh Austin

**23-24s-12w Stafford, KS**  
**Fisher #1-23**  
 Job Ticket: 65703 **DST#: 1**  
 Test Start: 2019.10.11 @ 18:04:00

## GENERAL INFORMATION:

Formation: **LKC A-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:47:20  
 Time Test Ended: 01:56:00  
 Interval: **3548.00 ft (KB) To 3598.00 ft (KB) (TVD)**  
 Total Depth: 3598.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Benny Mulligan  
 Unit No: 66  
 Reference Elevations: 1921.00 ft (KB)  
 1910.00 ft (CF)  
 KB to GR/CF: 11.00 ft

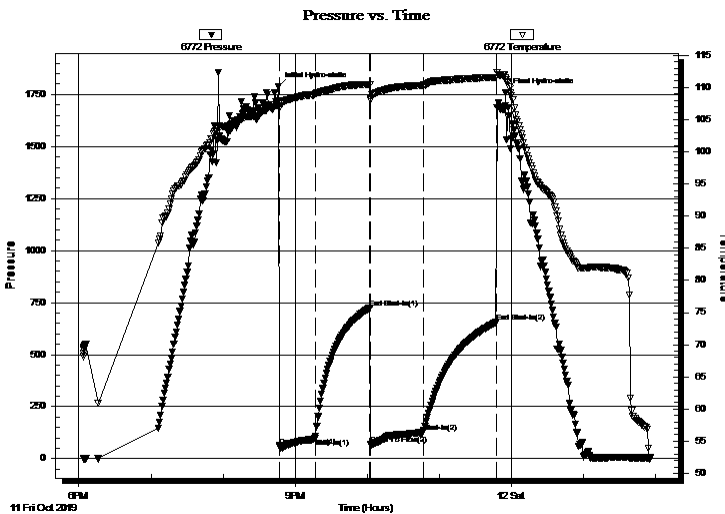
## Serial #: 6772

Inside

Press@RunDepth: 125.70 psig @ 3549.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.10.11 End Date: 2019.10.12 Last Calib.: 2019.10.12  
 Start Time: 18:04:01 End Time: 01:56:00 Time On Btm: 2019.10.11 @ 20:46:10  
 Time Off Btm: 2019.10.11 @ 23:55:30

TEST COMMENT: IF-30-BOB 1 min total build of 226"  
 ISI-45- no blow back  
 FF-45- BOB 35 secs total build of 259"  
 FSI-60- GTS w hen bled off no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.19	107.15	Initial Hydro-static
2	58.45	106.87	Open To Flow (1)
31	98.18	108.99	Shut-In(1)
76	723.08	110.47	End Shut-In(1)
77	68.01	108.02	Open To Flow (2)
121	125.70	110.31	Shut-In(2)
182	654.95	111.56	End Shut-In(2)
190	1757.09	111.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GHOCM 40%G 40%O 20%M	0.59
120.00	GHOCM 20%G 40%O 40%M	0.72
60.00	GVSOCM 5%G 5%O 90%M	0.84
0.00	GIP 3030'	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65703

**DST#: 1**

ATTN: Josh Austin

Test Start: 2019.10.11 @ 18:04:00

## Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 226.00 ft	Diameter: 2.25 inches	Volume: 1.11 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3548.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			3529.00	
Shut In Tool	5.00			3534.00	
Hydraulic tool	5.00			3539.00	
Packer	5.00			3544.00	20.00 Bottom Of Top Packer
Packer	4.00			3548.00	
Stubb	1.00			3549.00	
Recorder	0.00	6772	Inside	3549.00	
Recorder	0.00	6769	Outside	3549.00	
Perforations	12.00			3561.00	
Change Over Sub	1.00			3562.00	
Drill Pipe	32.00			3594.00	
Change Over Sub	1.00			3595.00	
Bullnose	3.00			3598.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65703

**DST#: 1**

ATTN: Josh Austin

Test Start: 2019.10.11 @ 18:04:00

## 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:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GHOCM 40%G 40%O 20%M	0.590
120.00	GHOCM 20%G 40%O 40%M	0.718
60.00	GVSOCM 5%G 5%O 90%M	0.842
0.00	GIP 3030'	0.000

Total Length: 300.00 ft

Total Volume: 2.150 bbl

Num Fluid Samples: 0

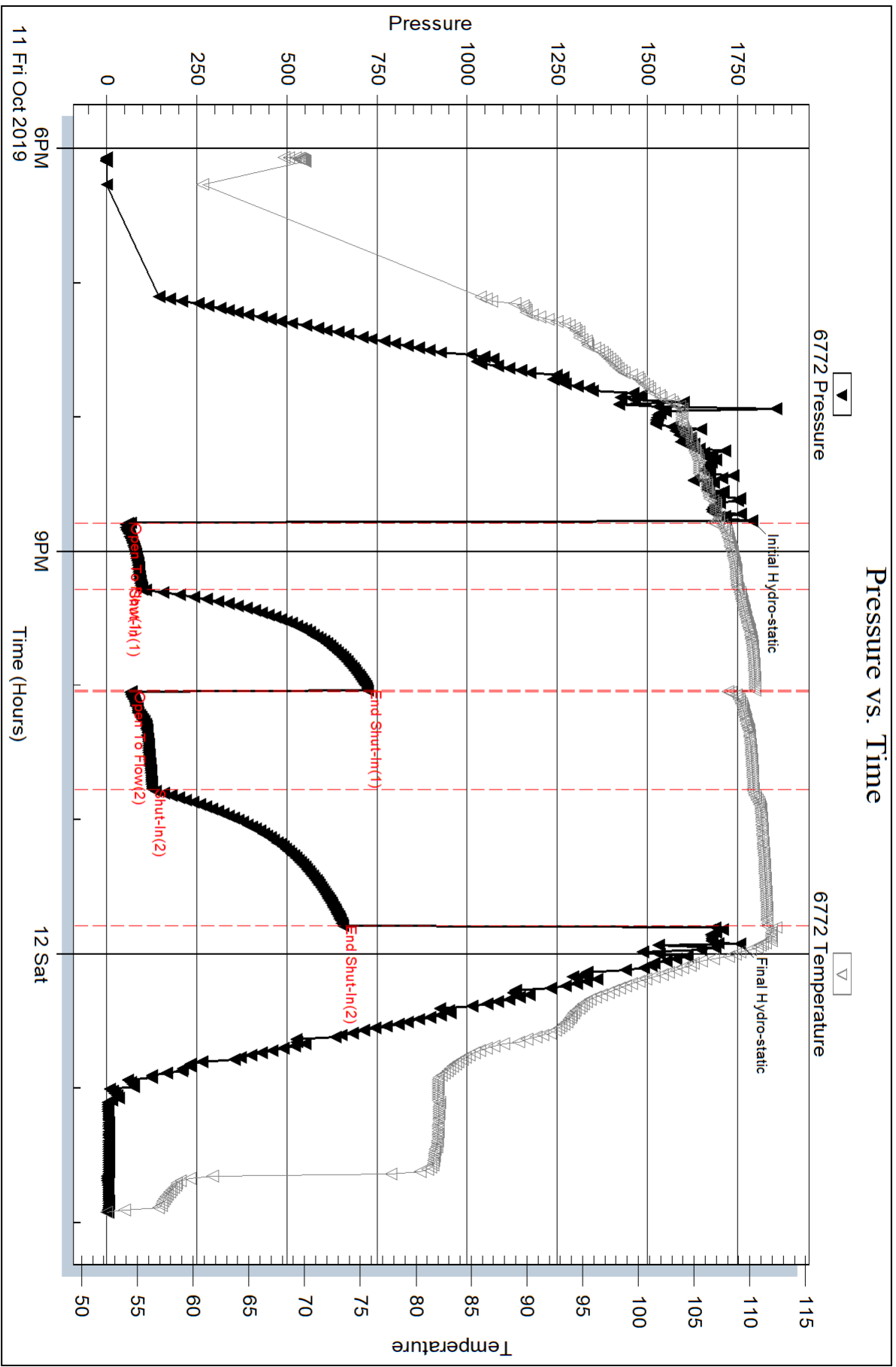
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

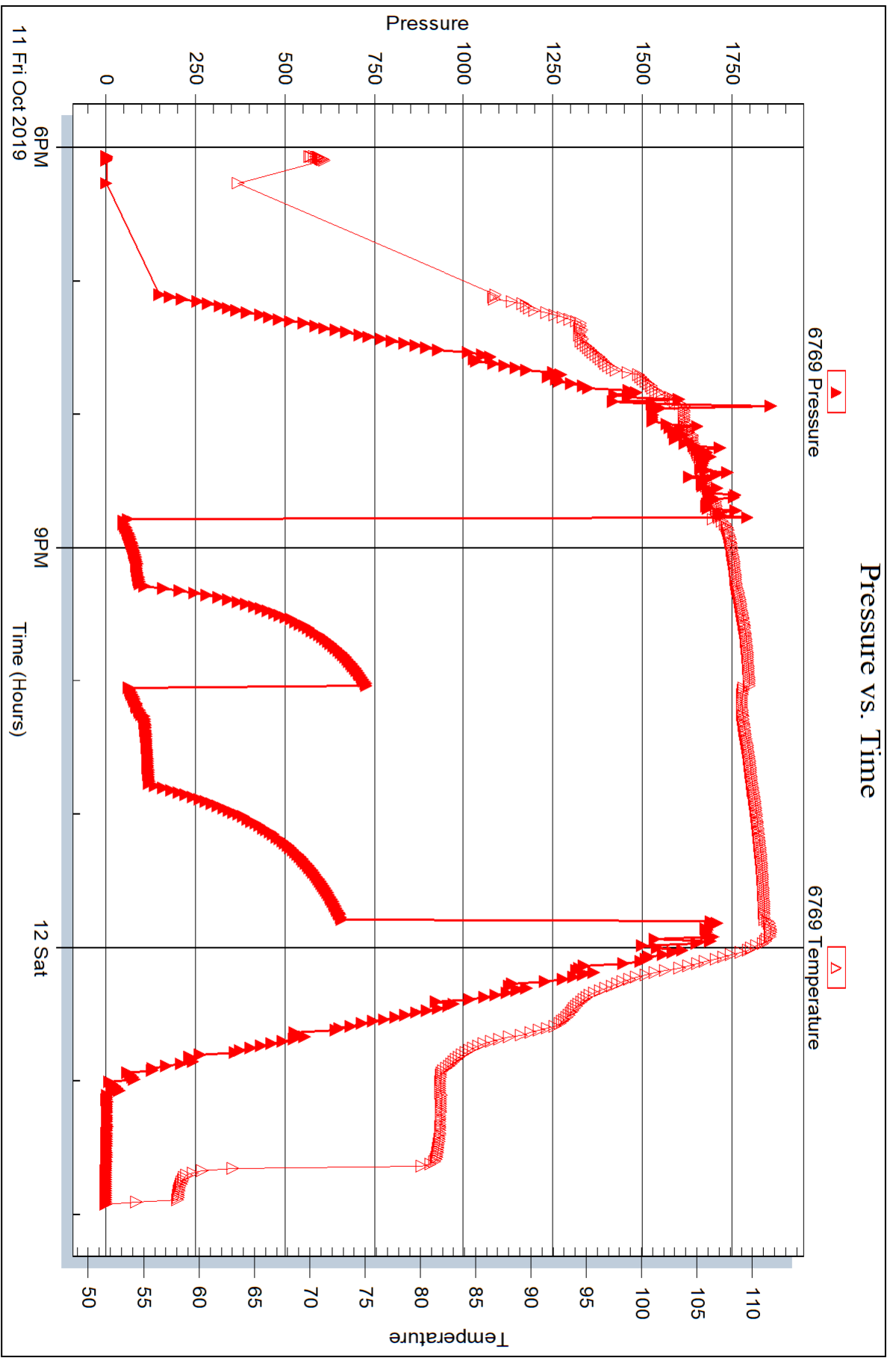


Serial #: 6769

Outside Rama Operating Co

Fisher #1-23

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co**

101 S. Main St  
Stafford KS 67578+1429

ATTN: Josh Austin

### **Fisher #1-23**

#### **23-24s-12w Stafford,KS**

Start Date: 2019.10.12 @ 13:44:00

End Date: 2019.10.12 @ 21:12:30

Job Ticket #: 65704                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.10.14 @ 14:27:40





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65704

**DST#: 2**

ATTN: Josh Austin

Test Start: 2019.10.12 @ 13:44:00

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:00

Time Test Ended: 21:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

**Interval: 3669.00 ft (KB) To 3685.00 ft (KB) (TVD)**

Reference Elevations: 1921.00 ft (KB)

Total Depth: 3685.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 64.90 psig @ 3670.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.12

End Date:

2019.10.12

Last Calib.: 2019.10.12

Start Time: 13:44:01

End Time:

21:12:30

Time On Btm: 2019.10.12 @ 16:38:20

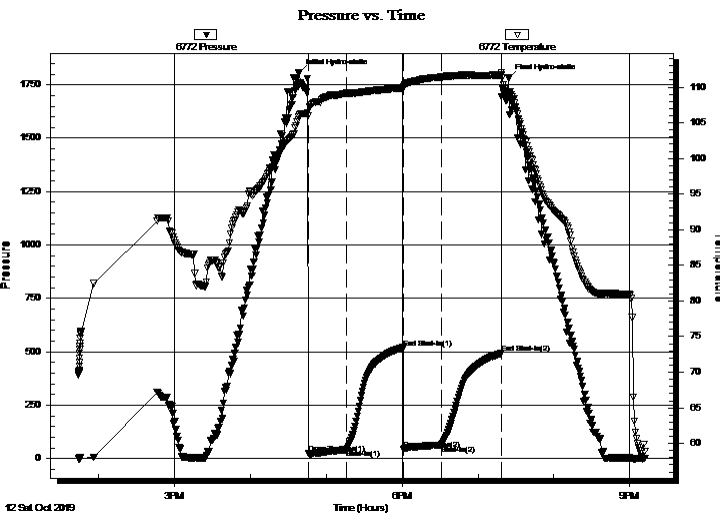
Time Off Btm: 2019.10.12 @ 19:24:20

**TEST COMMENT:** IF-30-BOB 19 mns 30 secs total build of 16"

ISI-45- no blow back

FF-30- built to 9 1/2 "

FSI-45- no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.79	105.90	Initial Hydro-static
8	24.29	106.00	Open To Flow (1)
38	42.09	109.15	Shut-In(1)
83	519.81	109.88	End Shut-In(1)
83	44.89	110.06	Open To Flow (2)
113	64.90	111.46	Shut-In(2)
160	493.03	111.69	End Shut-In(2)
167	1781.01	109.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSWM 5%O 75%W 20%M	0.30
30.00	GOSM 5%G 1%O 94%M	0.15
0.00	GIP 150'	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65704

**DST#: 2**

ATTN: Josh Austin

Test Start: 2019.10.12 @ 13:44:00

## Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 226.00 ft	Diameter: 2.25 inches	Volume: 1.11 bbl	Weight to Pull Loose:	71000.00 lb
			<u>Total Volume: 49.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3669.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	36.00 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			3650.00	
Shut In Tool	5.00			3655.00	
Hydraulic tool	5.00			3660.00	
Packer	5.00			3665.00	20.00 Bottom Of Top Packer
Packer	4.00			3669.00	
Stubb	1.00			3670.00	
Recorder	0.00	6772	Inside	3670.00	
Recorder	0.00	6769	Outside	3670.00	
Perforations	12.00			3682.00	
Bullnose	3.00			3685.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65704

**DST#: 2**

ATTN: Josh Austin

Test Start: 2019.10.12 @ 13:44:00

## 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:

50000 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OSWM 5%O 75%W 20%M	0.295
30.00	GOSM 5%G 1%O 94%M	0.148
0.00	GIP 150'	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

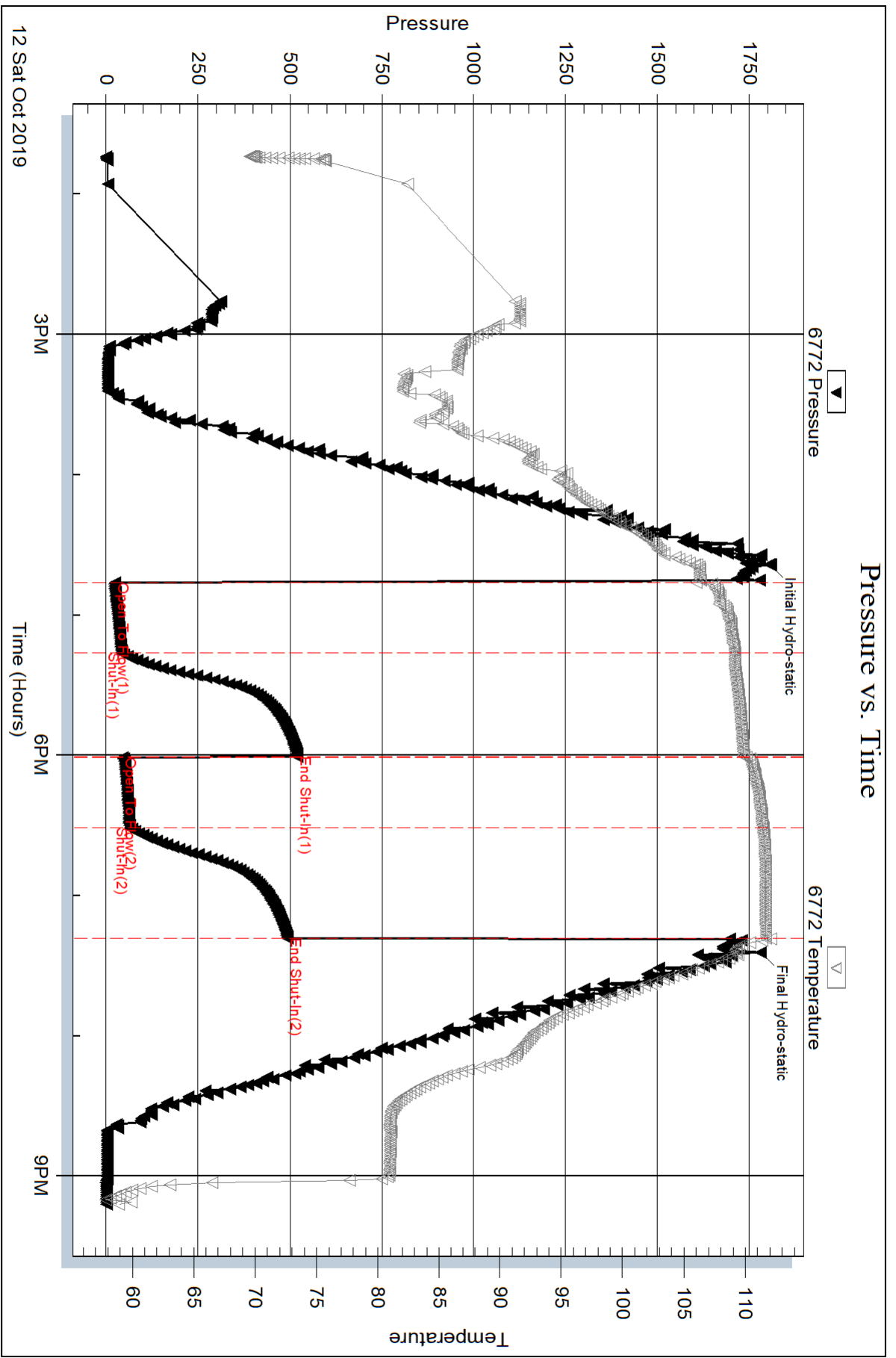
Num Gas Bombs: 0

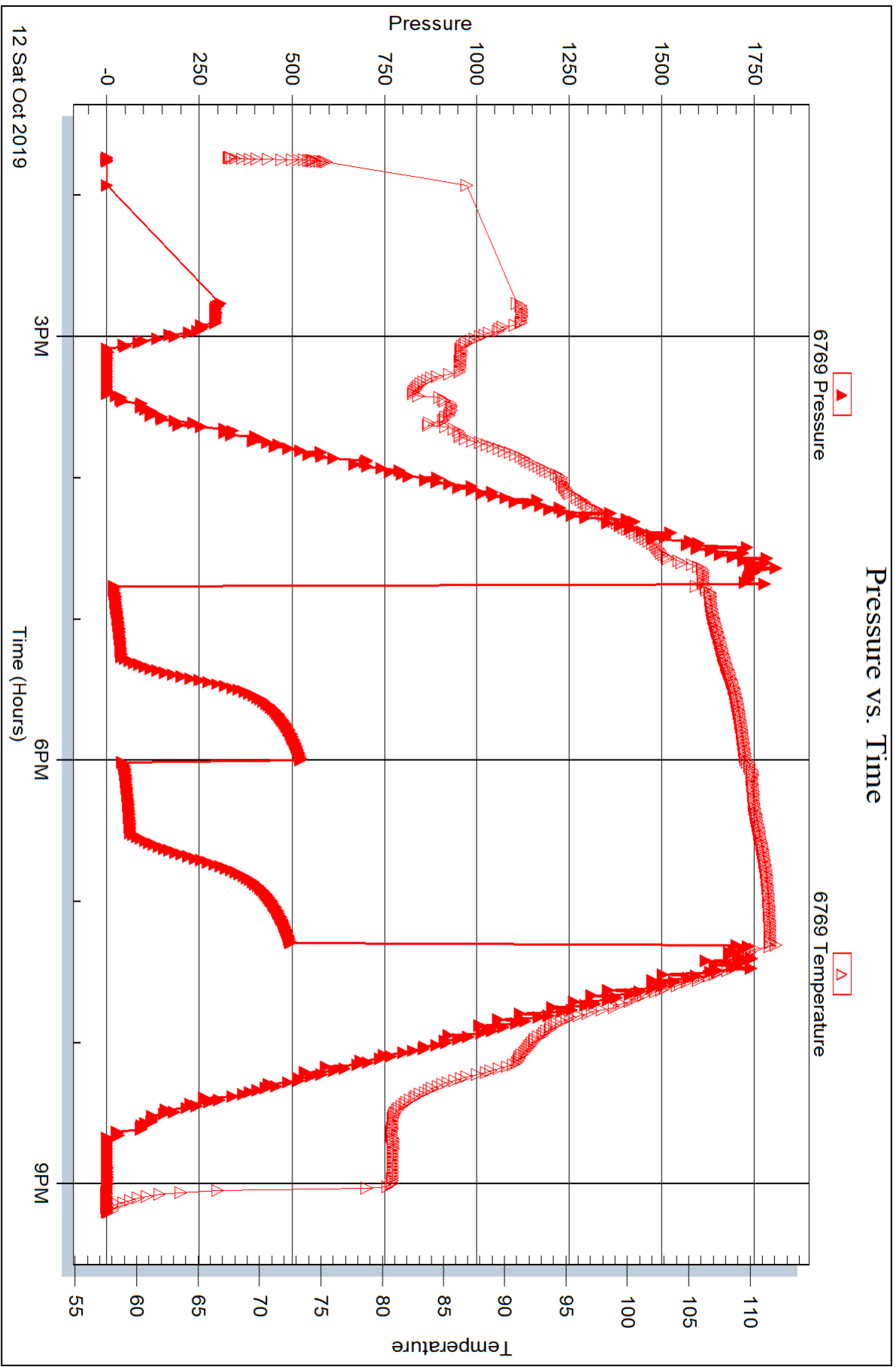
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 0.175@63.1







## DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co**

101 S. Main St  
Stafford KS 67578+1429

ATTN: Josh Austin

### **Fisher #1-23**

#### **23-24s-12w Stafford,KS**

Start Date: 2019.10.14 @ 00:58:00

End Date: 2019.10.14 @ 10:00:19

Job Ticket #: 65705                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.10.14 @ 14:26:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Rama Operating Co  
 101 S. Main St  
 Stafford KS 67578+1429  
 ATTN: Josh Austin

**23-24s-12w Stafford, KS**  
**Fisher #1-23**  
 Job Ticket: 65705 **DST#: 3**  
 Test Start: 2019.10.14 @ 00:58:00

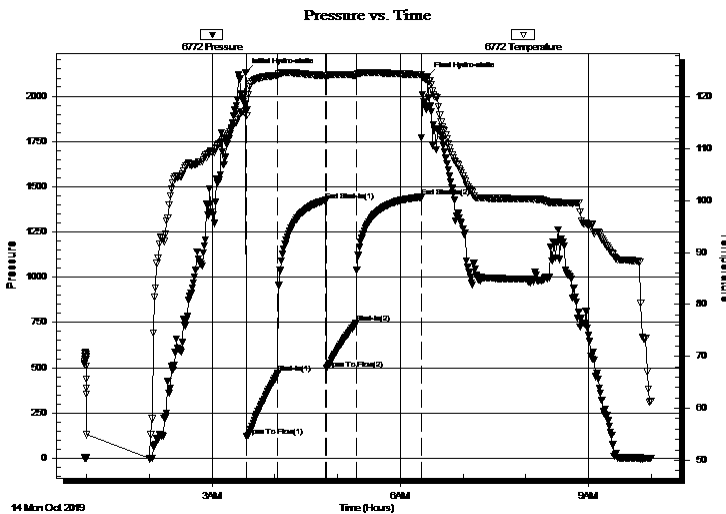
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:33:20 Tester: Benny Mulligan  
 Time Test Ended: 10:00:19 Unit No: 66  
 Interval: **4064.00 ft (KB) To 4069.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)  
 Total Depth: 4069.00 ft (KB) (TVD) 1910.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 6772 Inside**  
 Press@RunDepth: 745.85 psig @ 4065.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.10.14 End Date: 2019.10.14 Last Calib.: 2019.10.14  
 Start Time: 00:58:01 End Time: 10:00:19 Time On Btm: 2019.10.14 @ 03:32:20  
 Time Off Btm: 2019.10.14 @ 06:26:09

**TEST COMMENT:** IF-30-BOB 1 min total build of 178"  
 ISI-45-11" of blow back  
 FF-30- BOB 40 secs total build of 155"  
 FSI-60- 1 1/2" of blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.06	117.21	Initial Hydro-static
1	123.09	116.32	Open To Flow (1)
31	471.87	124.07	Shut-In(1)
77	1424.66	124.04	End Shut-In(1)
77	494.26	123.64	Open To Flow (2)
106	745.85	124.18	Shut-In(2)
168	1442.33	124.26	End Shut-In(2)
174	2105.97	123.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G 20%O 60%M	0.30
1975.00	GCO 20%G 80%O	26.19
0.00	GIP 425'	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65705

**DST#: 3**

ATTN: Josh Austin

Test Start: 2019.10.14 @ 00:58:00

## Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 226.00 ft	Diameter: 2.25 inches	Volume: 1.11 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4064.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	25.00 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			4045.00	
Shut In Tool	5.00			4050.00	
Hydraulic tool	5.00			4055.00	
Packer	5.00			4060.00	20.00 Bottom Of Top Packer
Packer	4.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	6772	Inside	4065.00	
Recorder	0.00	6769	Outside	4065.00	
Perforations	1.00			4066.00	
Bullnose	3.00			4069.00	5.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>25.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Rama Operating Co

**23-24s-12w Stafford,KS**

101 S. Main St  
Stafford KS 67578+1429

**Fisher #1-23**

Job Ticket: 65705

**DST#: 3**

ATTN: Josh Austin

Test Start: 2019.10.14 @ 00:58:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.49 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%G 20%O 60%M	0.295
1975.00	GCO 20%G 80%O	26.192
0.00	GIP 425'	0.000

Total Length: 2035.00 ft      Total Volume: 26.487 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

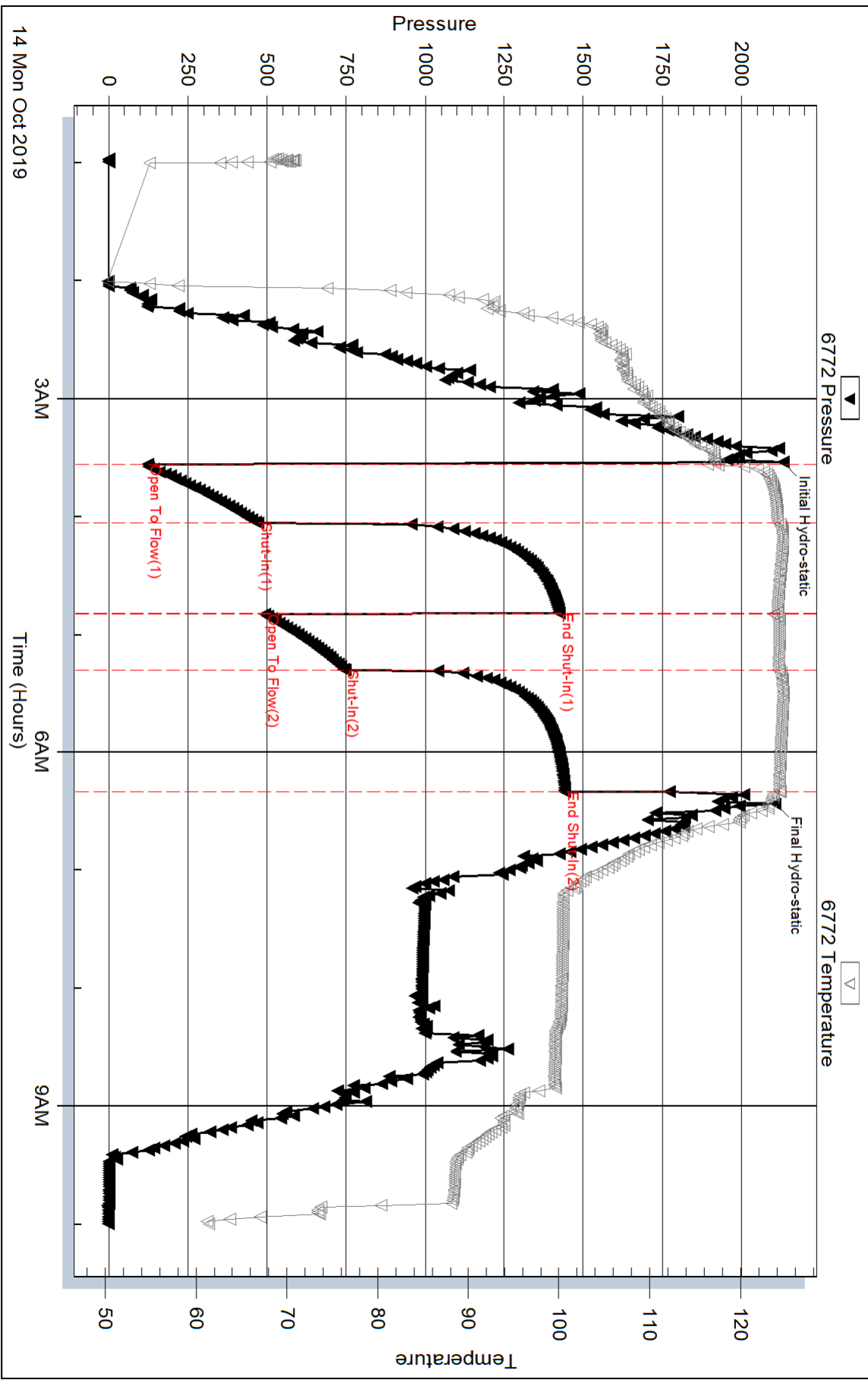
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65703

Well Name & No. ~~RAMA Operating Co~~ Fisher #1-23 Test No. 1 Date 10/11/2019  
 Company RAMA Operating Co Elevation 1921 KB 1910 GL  
 Address 101 S. Main St. Stafford, KS 67578+1429  
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4  
 Location: Sec. 23 Twp 24s Rge. 12w Co. Stafford State KS

Interval Tested 3548-3598 Zone Tested Lansing A-D  
 Anchor Length 50' Drill Pipe Run 3330 Mud Wt. 9.2  
 Top Packer Depth 3543 Drill Collars Run 226 Vis 61  
 Bottom Packer Depth 3548 Wt. Pipe Run --- WL 8.0  
 Total Depth 3598 Chlorides 4000 ppm System LCM Trc

Blow Description IF - BOB 1 min total build of 226"  
ISI - no blow back  
FF - BOB 35 secs total build of 259"  
FST - GTS when ~~bleed off~~ bled off no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>6V.S.O.C.M.</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u>0</u>
<u>120</u>	<u>6H.O.C.M.</u>	<u>20</u>	<u>40</u>	<u>40</u>	<u>0</u>
<u>120</u>	<u>6.H.O.C.M.</u>	<u>40</u>	<u>40</u>	<u>20</u>	<u>0</u>
<u>---</u>	<u>6EP 3030'</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 300' BHT 111° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1789  Test 1200 T-On Location 4:27 pm  
 (B) First Initial Flow 58  Jars \_\_\_\_\_ T-Started 6:04  
 (C) First Final Flow 98  Safety Joint \_\_\_\_\_ T-Open 8:47  
 (D) Initial Shut-In 723  Circ Sub \_\_\_\_\_ T-Pulled 11:47  
 (E) Second Initial Flow 68  Hourly Standby \_\_\_\_\_ T-Out 1:55 AM  
 (F) Second Final Flow 125  Mileage 62mi RT 62 Comments \_\_\_\_\_  
 (G) Final Shut-In 654  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1757  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1262  
 Sub Total 1262 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Benny Mulligan

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



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65704

Well Name & No. Fisher #1-23 Test No. 2 Date 10/12/2019  
 Company Rama Operating Co. Elevation 1921 KB 1910 GL  
 Address 101 S. main st. Stafford, KS 67578+1429  
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4  
 Location: Sec. 23 Twp 24s Rge. 12w Co. Stafford State KS

Interval Tested 3669-3685 Zone Tested Lansing "H"  
 Anchor Length 16' Drill Pipe Run 3430 Mud Wt. 9.0  
 Top Packer Depth 3664 Drill Collars Run 226 Vis 76  
 Bottom Packer Depth 3669 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3685 Chlorides 5000 ppm System LCM 0#  
 Blow Description IF - BOB 19mins 30sec total build of 16"  
#SI - no blow back  
FF - built to 9 1/2"  
FSTI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>605m</u>	<u>5</u>	<u>1</u>	<u>94</u>	<u>94</u>
<u>60</u>	<u>05Wm</u>	<u>5</u>	<u>75</u>	<u>20</u>	<u>20</u>
	<u>GIP 150'</u>				

Rec Total 90' BHT 109° Gravity \_\_\_\_\_ API RW 175 @ 63.1 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>1804</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1:08 p.m</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>1:44</u>
(C) First Final Flow <u>42</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>4:46</u>
(D) Initial Shut-In <u>519</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:16</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:13</u>
(F) Second Final Flow <u>64</u>	<input checked="" type="checkbox"/> Mileage <u>62mi RT 62</u>	Comments _____
(G) Final Shut-In <u>493</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1781</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1262</u>
	Sub Total <u>1262</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Benny Mulligan

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65705**

Well Name & No. Fisher #1-23 Test No. 5 Date 10/14/2019  
 Company Rama Operating Co Elevation 1921 KB 1910 GL  
 Address 101 S. Main St. Stafford, KS 67578+1429  
 Co. Rep / Geo. Josh Austin Rig Sterling Rig 4  
 Location: Sec. 23 Twp 24s Rge. 12w Co. Stafford State KS

Interval Tested 4064-4069 Zone Tested Arbuckle  
 Anchor Length 5' Drill Pipe Run 3840 Mud Wt. 9.3  
 Top Packer Depth ~~4064~~ 4059 Drill Collars Run 226 Vis 55  
 Bottom Packer Depth 4064 Wt. Pipe Run \_\_\_\_\_ WL 9.5  
 Total Depth 4069 Chlorides 8,600 ppm System LCM 0#  
 Blow Description IF-BOB 1min total build of 178"  
FST-11" of blow back  
FF-BOB 40secs total build of 155"  
FST-1 1/2" blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1975</u>	<u>G.C.O.</u>	<u>20</u>	<u>80</u>		
<u>60</u>	<u>G.O.C.M</u>	<u>20</u>	<u>20</u>		<u>60</u>
	<u>GIP 425'</u>				

Rec Total 2035' BHT 123 Gravity 39 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2131</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>12:48 AM</u>
(B) First Initial Flow <u>123</u>	<input type="checkbox"/> Jars <u>_____</u>	T-Started <u>12:58</u>
(C) First Final Flow <u>471</u>	<input type="checkbox"/> Safety Joint <u>_____</u>	T-Open <u>3:34</u>
(D) Initial Shut-In <u>1424</u>	<input type="checkbox"/> Circ Sub <u>_____</u>	T-Pulled <u>6:20</u>
(E) Second Initial Flow <u>494</u>	<input type="checkbox"/> Hourly Standby <u>_____</u>	T-Out <u>10:01</u>
(F) Second Final Flow <u>745</u>	<input checked="" type="checkbox"/> Mileage <u>62mi RT 62</u>	Comments <u>damaged top packer rubber / loaded tools after test</u>
(G) Final Shut-In <u>1442</u>	<input type="checkbox"/> Sampler <u>_____</u>	<input type="checkbox"/> EM Tool <u>_____</u>
(H) Final Hydrostatic <u>2105</u>	<input type="checkbox"/> Straddle <u>_____</u>	<input type="checkbox"/> Ruined Shale Packer <u>_____</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>_____</u>	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>_____</u>	<input type="checkbox"/> Extra Copies <u>_____</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>_____</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>_____</u>	Total <u>1682</u>
	<input type="checkbox"/> Accessibility <u>_____</u>	MP/DST Disc't <u>_____</u>
	Sub Total <u>1362</u>	

Approved By \_\_\_\_\_ Our Representative Benny Mulligan

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.