



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Co.**

PO Box 2757  
Wichita, KS 67202

ATTN: Chuck Schmaltz

**Sarver 'A' #1**

**1-9s-16w Rooks KS**

Start Date: 2016.08.21 @ 10:10:00

End Date: 2016.08.21 @ 16:04:15

Job Ticket #: 65419                      DST #: 1

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

Printed: 2016.08.24 @ 08:51:49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Co.  
 PO Box 2757  
 Wichita, KS 67202  
 ATTN: Chuck Schmaltz

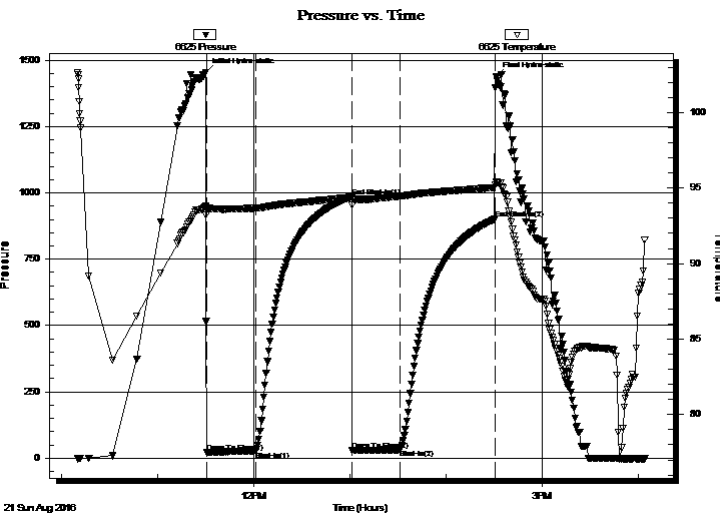
**1-9s-16w Rooks KS**  
**Sarver 'A' #1**  
 Job Ticket: 65419 **DST#: 1**  
 Test Start: 2016.08.21 @ 10:10:00

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:30:30  
 Time Test Ended: 16:04:15  
 Interval: **2982.00 ft (KB) To 3040.00 ft (KB) (TVD)**  
 Total Depth: 3040.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 2075.00 ft (KB)  
 2067.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**  
 Press@RunDepth: 31.77 psig @ 2983.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.21 End Date: 2016.08.21 Last Calib.: 2016.08.21  
 Start Time: 10:10:05 End Time: 16:04:14 Time On Btm: 2016.08.21 @ 11:30:00  
 Time Off Btm: 2016.08.21 @ 14:31:30

**TEST COMMENT:** 30 - IF: 1/2" Blow at open, built to 3/4"  
 60 - ISI: No blow back  
 30 - FF: No blow  
 30 - FSI: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1454.09	93.79	Initial Hydro-static
1	20.61	93.68	Open To Flow (1)
31	26.62	93.66	Shut-In(1)
91	986.26	94.37	End Shut-In(1)
92	28.39	93.87	Open To Flow (2)
121	31.77	94.45	Shut-In(2)
181	901.16	95.03	End Shut-In(2)
182	1438.56	95.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.10
0.00	Trace of oil in tool	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Co.  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**1-9s-16w Rooks KS**  
**Sarver 'A' #1**  
Job Ticket: 65419      **DST#: 1**  
Test Start: 2016.08.21 @ 10:10:00

**Tool Information**

Drill Pipe:	Length: 2850.00 ft	Diameter: 3.80 inches	Volume: 39.98 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 40.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2982.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			2954.00	
Shut In Tool	5.00			2959.00	
Hydraulic tool	5.00			2964.00	
Jars	5.00			2969.00	
Safety Joint	3.00			2972.00	
Packer	5.00			2977.00	29.00      Bottom Of Top Packer
Packer	5.00			2982.00	
Stubb	1.00			2983.00	
Recorder	0.00	6625	Inside	2983.00	
Recorder	0.00	8366	Outside	2983.00	
Perforations	20.00			3003.00	
Blank Spacing	33.00			3036.00	
Perforations	1.00			3037.00	
Bullnose	3.00			3040.00	58.00      Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gore Oil Co.  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**1-9s-16w Rooks KS**  
**Sarver 'A' #1**  
Job Ticket: 65419      **DST#: 1**  
Test Start: 2016.08.21 @ 10:10:00

### 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%	0.098
0.00	Trace of oil in tool	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

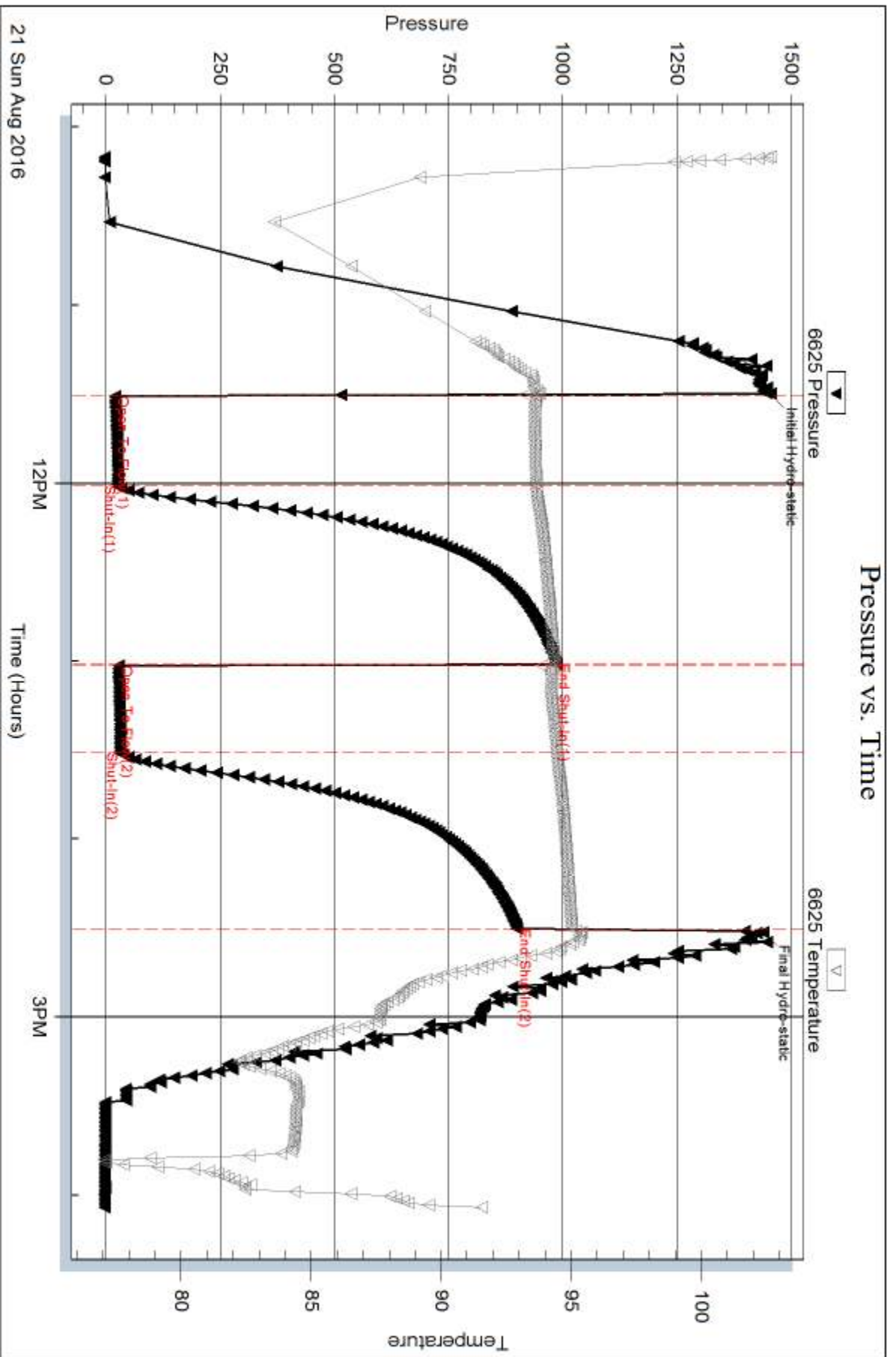
Serial #: 6625

Inside

Gore Oil Co.

Server 'A' #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65A19

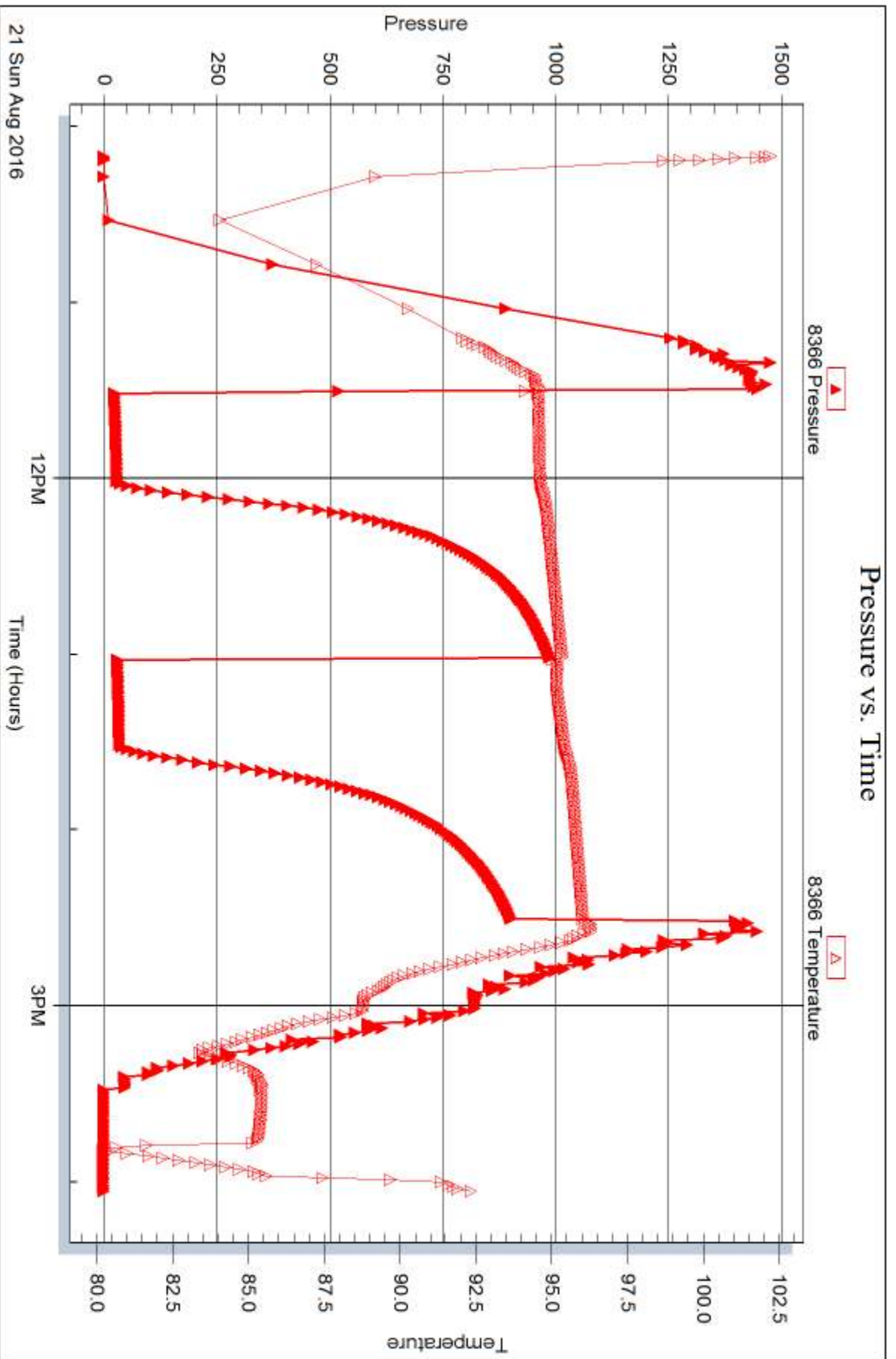
Printed: 2016.08.24 @ 08:51:50

Serial #: 8366

Outside Gore Oil Co.

Server 'A' #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65A19

Printed: 2016.08.24 @ 08:51:50



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Co.**

PO Box 2757  
Wichita, KS 67202

ATTN: Chuck Schmaltz

**Sarver 'A' #1**

**1-9s-16w Rooks KS**

Start Date: 2016.08.22 @ 14:02:00

End Date: 2016.08.22 @ 21:42:15

Job Ticket #: 65420                      DST #: 2

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

Printed: 2016.08.24 @ 08:51:02









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Co.  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**1-9s-16w Rooks KS**  
**Sarver 'A' #1**  
Job Ticket: 65420      **DST#: 2**  
Test Start: 2016.08.22 @ 14:02:00

**Tool Information**

Drill Pipe:	Length: 3071.00 ft	Diameter: 3.80 inches	Volume: 43.08 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 43.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3197.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	161.00 ft			
Tool Length:	190.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3169.00	
Shut In Tool	5.00			3174.00	
Hydraulic tool	5.00			3179.00	
Jars	5.00			3184.00	
Safety Joint	3.00			3187.00	
Packer	5.00			3192.00	29.00      Bottom Of Top Packer
Packer	5.00			3197.00	
Stubb	1.00			3198.00	
Recorder	0.00	6625	Inside	3198.00	
Recorder	0.00	8366	Outside	3198.00	
Perforations	29.00			3227.00	
Blank Spacing	127.00			3354.00	
Perforations	1.00			3355.00	
Bullnose	3.00			3358.00	161.00      Bottom Packers & Anchor

**Total Tool Length: 190.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gore Oil Co.  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**1-9s-16w Rooks KS**  
**Sarver 'A' #1**  
Job Ticket: 65420      **DST#: 2**  
Test Start: 2016.08.22 @ 14:02:00

### 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud w /oil spots 99%m, 1%o	0.730

Total Length: 130.00 ft      Total Volume: 0.730 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

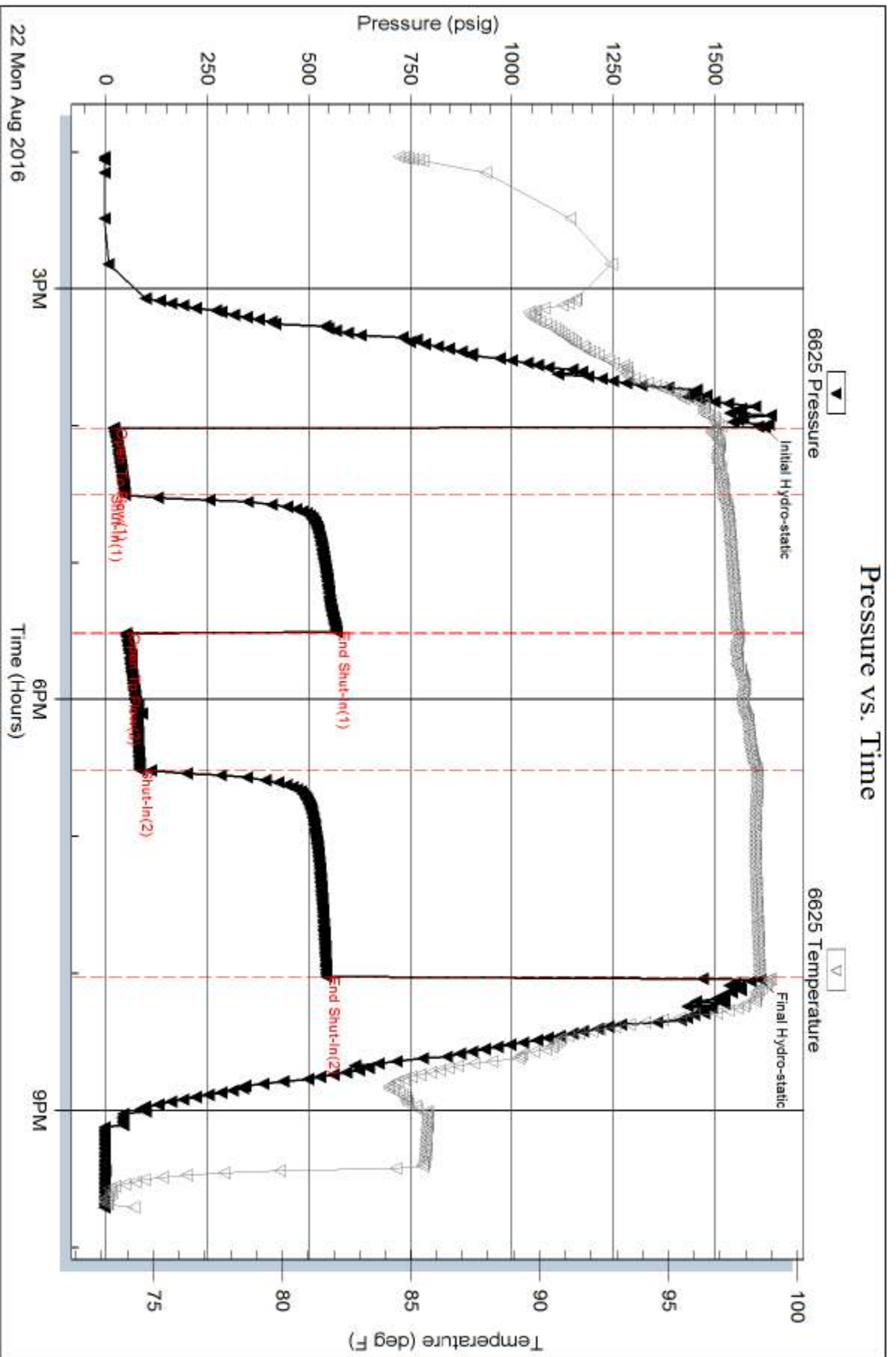
Serial #: 6625

Inside

Gore Oil Co.

Server 'A' #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 65420

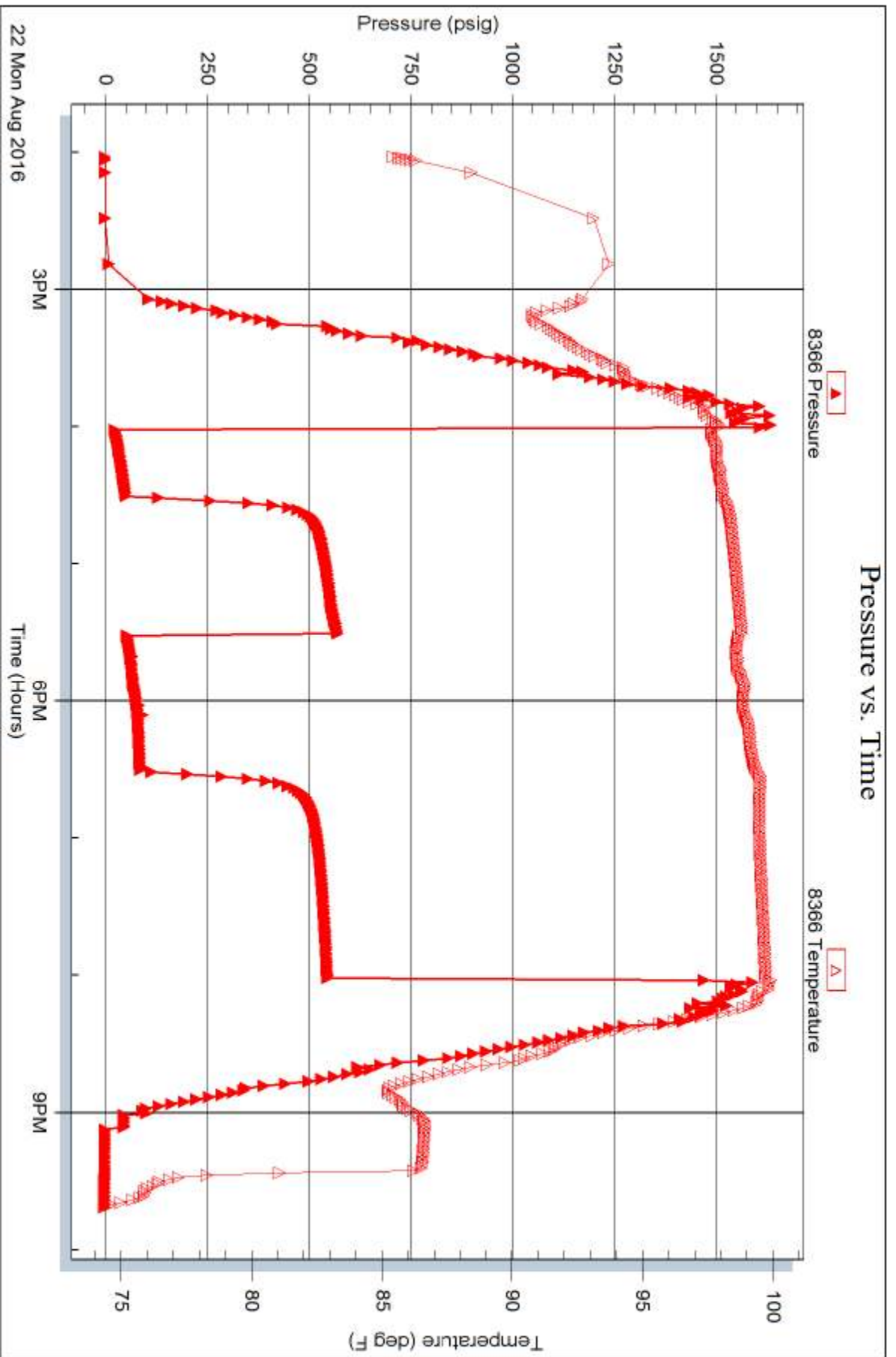
Printed: 2016.08.24 @ 08:51:03

Serial #: 8366

Outside Gore Oil Co.

Server 'A' #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65420

Printed: 2016.08.24 @ 08:51:03



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65419**

Well Name & No. Sarver 'A' #1 Test No. 1 Date 8-21-16  
 Company Gore Oil Co Elevation 2075 KB 2067 GL  
 Address 202 S St Francis PO Box 2757 Wichita, KS 67202  
 Co. Rep / Geo. Chuck Schmalz Rig WW #12  
 Location: Sec. 1 Twp. 9s Rge. 16w Co. Rooks State KS

Interval Tested 2982-3040 Zone Tested Topeka  
 Anchor Length 58 Drill Pipe Run 2850 Mud Wt. 8.9  
 Top Packer Depth 2977 Drill Collars Run 120 Vis 59  
 Bottom Packer Depth 2982 Wt. Pipe Run - WL 6.8  
 Total Depth 3040 Chlorides 3000 ppm System LCM 2

Blow Description IF: 1/2" Blow at open, built to 3/4"  
ISI: No blowback  
FF: No blow  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
	<u>trace of oil in tool</u>				

Rec Total 20 BHT 95 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1454  Test 1050 T-On Location 9:35  
 (B) First Initial Flow 20  Jars 250 T-Started 10:10  
 (C) First Final Flow 27  Safety Joint 75 T-Open 11:30  
 (D) Initial Shut-In 986  Circ Sub \_\_\_\_\_ T-Pulled 14:30  
 (E) Second Initial Flow 28  Hourly Standby \_\_\_\_\_ T-Out 16:00  
 (F) Second Final Flow 32  Mileage 88RT 66 Comments Note 1  
 (G) Final Shut-In 901  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1438  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1441  
 MP/DST Disc't \_\_\_\_\_

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

Approved By [Signature] Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged or 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. **65420**

Well Name & No. Sarver 'A' #1 Test No. 2 Date 8-22-16  
 Company Gore Oil Co. Elevation 2075 KB 2067 GL  
 Address 202 S St. Francis PO Box 2757 Wichita, KS 67202  
 Co. Rep / Geo. Chuck Schmalz Rig LWW #12  
 Location: Sec. 1 Twp. 9s Rge. 16w Co. Rooks State KS

Interval Tested 3197-3358 Zone Tested Toronto - Lans. "G"  
 Anchor Length 161 Drill Pipe Run 3071 Mud Wt. 9.0  
 Top Packer Depth 3192 Drill Collars Run 120 Vis 59  
 Bottom Packer Depth 3197 Wt. Pipe Run - WL 6.8  
 Total Depth 3358 Chlorides 3500 ppm System LCM 5

Blow Description IF: 1/4" Blow at open, surging blow built to 2 1/4"  
ISI: No blowback  
FF: Blow started at 11 min., surging blow built to 2 1/2"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>Mud w/oil spots</u>	<u>1</u>		<u>99</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 130 BHT 99 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1622</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>13:15</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:02</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:00</u>
(D) Initial Shut-In <u>568</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:01</u>
(E) Second Initial Flow <u>51</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>21:40</u>
(F) Second Final Flow <u>84</u>	<input checked="" type="checkbox"/> Mileage <u>88 RT x 2</u> <u>132</u>	Comments <u>Hotel</u>
(G) Final Shut-In <u>544</u>	<input type="checkbox"/> Sampler _____	<u>loaded 20:30 8/23</u>
(H) Final Hydrostatic <u>1613</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1507

Sub Total 1507

Approved By [Signature] Our Representative James Winder

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.