



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.11.29 @ 15:49:00

End Date: 2014.11.29 @ 20:26:30

Job Ticket #: 62029                      DST #: 1

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

Printed: 2014.12.09 @ 16:58:45



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

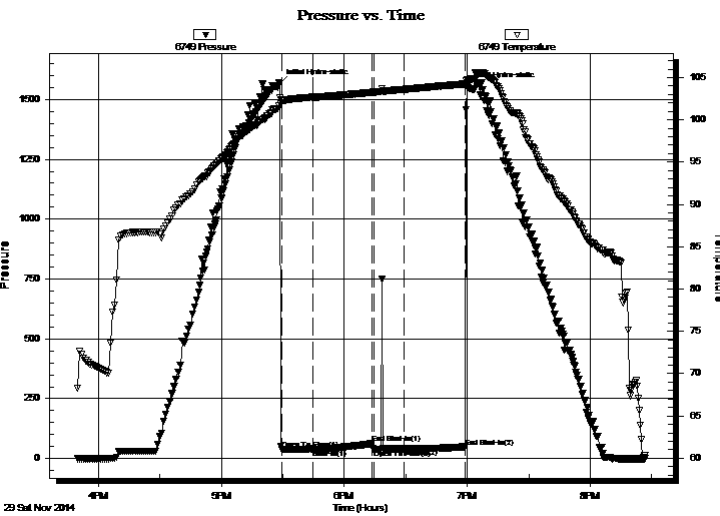
**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62029 **DST#: 1**  
Test Start: 2014.11.29 @ 15:49:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:29:30  
Time Test Ended: 20:26:30  
Interval: **3214.00 ft (KB) To 3265.00 ft (KB) (TVD)**  
Total Depth: 3265.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1 Great Bend/12  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
Press@RunDepth: 41.32 psig @ 3260.98 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.29 End Date: 2014.11.29 Last Calib.: 2014.11.29  
Start Time: 15:50:00 End Time: 20:26:30 Time On Btm: 2014.11.29 @ 17:28:30  
Time Off Btm: 2014.11.29 @ 19:00:00

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow /Blow built to 1/8 inch then died in 14 minutes  
1ST Shut In 30 Mintues/No blow back  
2ND Open 15 Minutes/Dead no blow /Flush tool no help  
2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.27	102.57	Initial Hydro-static
1	38.87	102.32	Open To Flow (1)
16	40.83	102.66	Shut-In(1)
45	62.66	103.25	End Shut-In(1)
46	40.14	103.27	Open To Flow (2)
61	41.32	103.60	Shut-In(2)
91	49.11	104.24	End Shut-In(2)
92	1554.09	104.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.04

## Gas Rates

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



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 ATTN: Frank Greenbaum

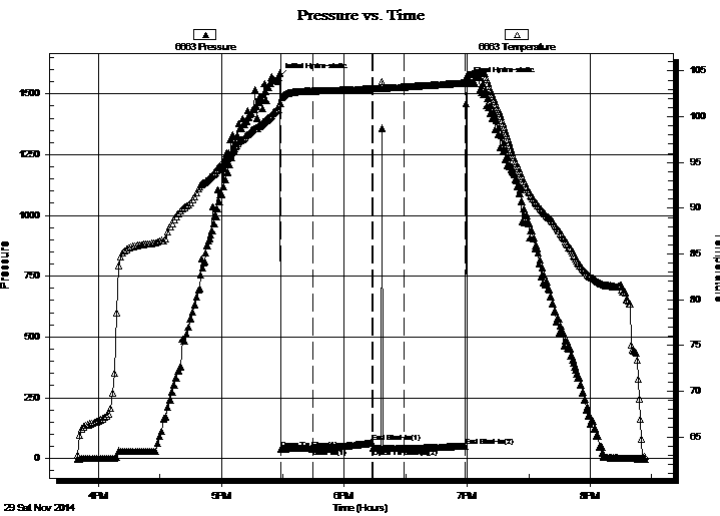
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62029 **DST#: 1**  
 Test Start: 2014.11.29 @ 15:49:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:29:30  
 Time Test Ended: 20:26:30  
 Interval: **3214.00 ft (KB) To 3265.00 ft (KB) (TVD)**  
 Total Depth: 3265.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Great Bend/12  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 51.61 psig @ 3261.98 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.29 End Date: 2014.11.29 Last Calib.: 2014.11.29  
 Start Time: 15:50:00 End Time: 20:26:30 Time On Btm: 2014.11.29 @ 17:28:00  
 Time Off Btm: 2014.11.29 @ 19:00:00

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow /Blow built to 1/8 inch then died in 14 minutes  
 1ST Shut In 30 Mintues/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool no help  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.89	100.81	Initial Hydro-static
1	39.04	101.43	Open To Flow (1)
17	40.03	102.81	Shut-In(1)
46	64.74	103.06	End Shut-In(1)
46	42.85	103.06	Open To Flow (2)
61	42.12	103.25	Shut-In(2)
91	51.61	103.70	End Shut-In(2)
92	1551.41	104.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62029

**DST#: 1**

ATTN: Frank Greenbaum

Test Start: 2014.11.29 @ 15:49:00

## Tool Information

Drill Pipe:	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 44.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3214.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.98 ft			
Tool Length:	78.98 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3191.00	
Hydraulic tool	5.00			3196.00	
Jars	6.00			3202.00	
Safety Joint	2.00			3204.00	
Top Packer	5.00			3209.00	
Packer	5.00			3214.00	28.00 Bottom Of Top Packer
Anchor	3.00			3217.00	
Change Over Sub	0.75			3217.75	
Drill Pipe	31.48			3249.23	
Change Over Sub	0.75			3249.98	
Anchor	10.00			3259.98	
Recorder	1.00	6749	Inside	3260.98	
Recorder	1.00	6663	Outside	3261.98	
Bullnose	3.00			3264.98	50.98 Anchor Tool

**Total Tool Length: 78.98**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62029

**DST#: 1**

ATTN: Frank Greenbaum

Test Start: 2014.11.29 @ 15:49:00

## 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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 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
3.00	Mud 100%	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl

Num Fluid Samples: 0

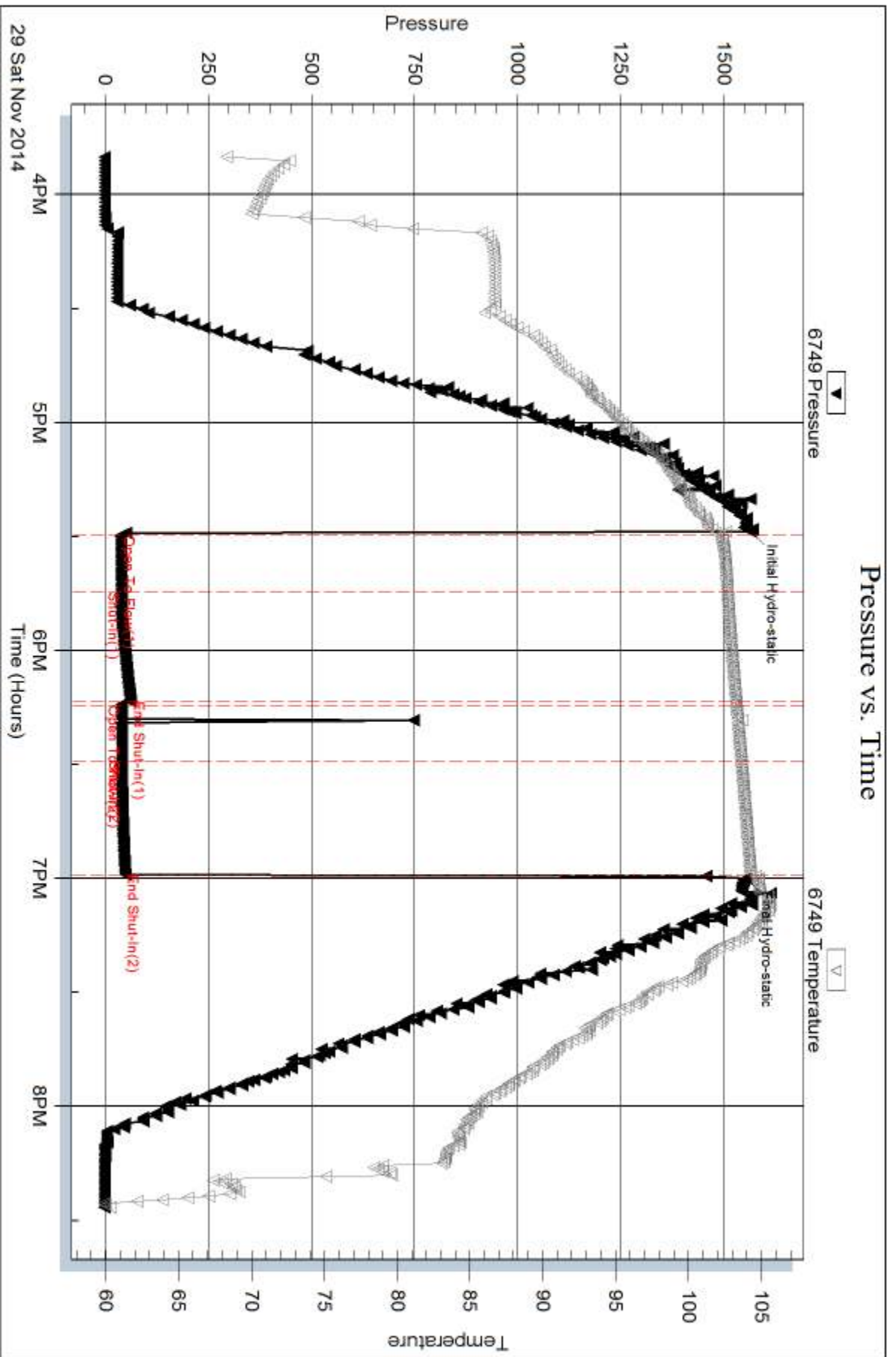
Num Gas Bombs: 0

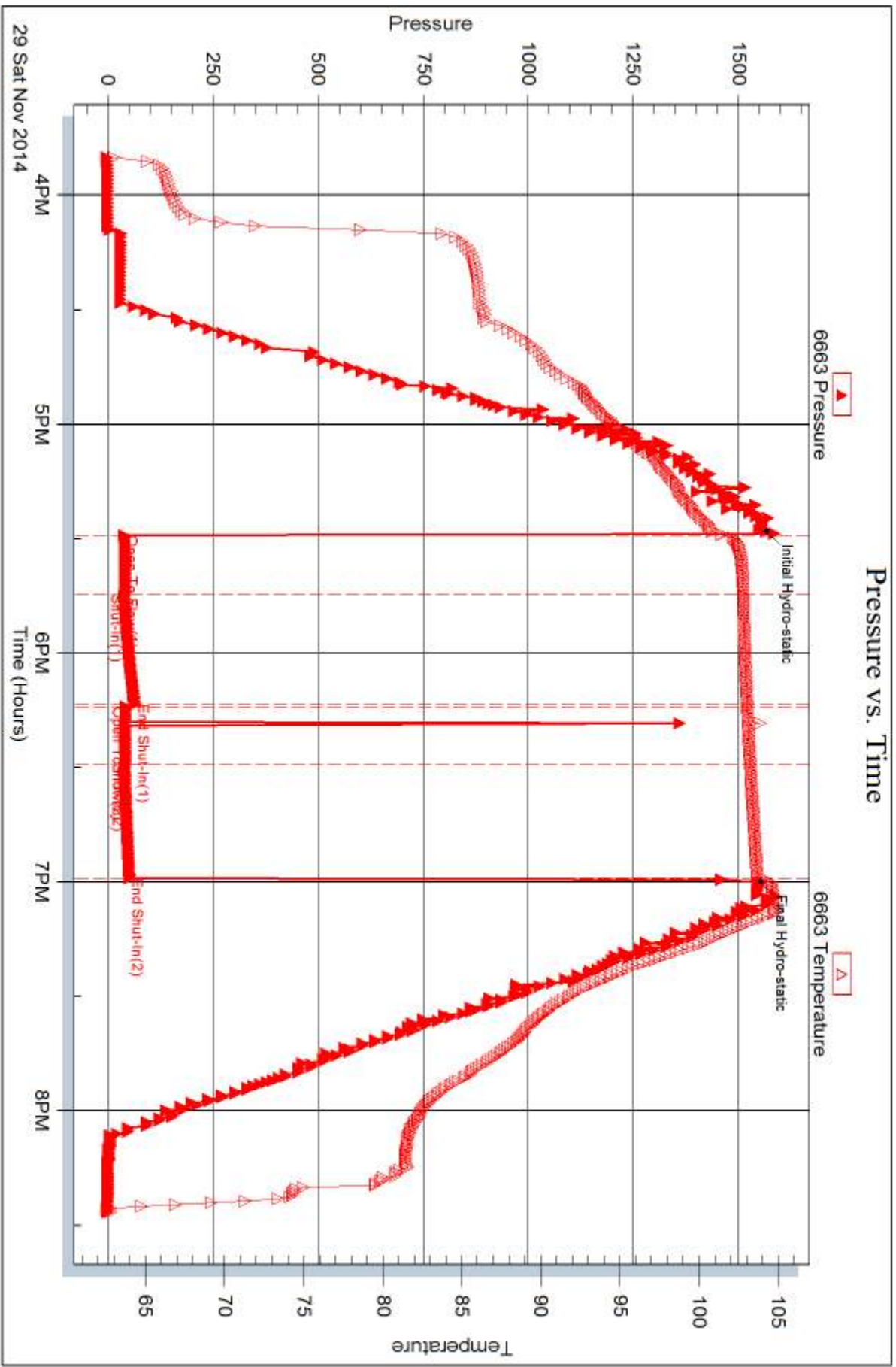
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

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ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.11.30 @ 15:47:00

End Date: 2014.11.30 @ 21:49:30

Job Ticket #: 62030                      DST #: 2

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

Printed: 2014.12.09 @ 16:51:50





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# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

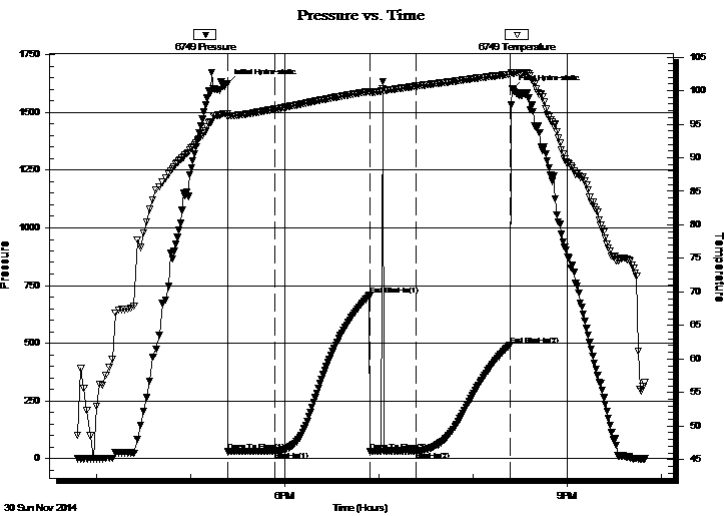
**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62030 **DST#: 2**  
 Test Start: 2014.11.30 @ 15:47:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:24:00  
 Time Test Ended: 21:49:30  
 Interval: **3340.00 ft (KB) To 3378.00 ft (KB) (TVD)**  
 Total Depth: 3378.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Great Bend/12  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 33.69 psig @ 3374.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.30 End Date: 2014.11.30 Last Calib.: 2014.11.30  
 Start Time: 15:48:00 End Time: 21:49:30 Time On Btm: 2014.11.30 @ 17:23:30  
 Time Off Btm: 2014.11.30 @ 20:25:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch then died to weak surface blow  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Light surge at open then dead/Flush tool no help  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.14	96.59	Initial Hydro-static
1	30.93	96.08	Open To Flow (1)
31	32.16	97.27	Shut-In(1)
91	707.30	99.87	End Shut-In(1)
91	32.68	99.71	Open To Flow (2)
121	33.69	100.67	Shut-In(2)
180	491.09	102.45	End Shut-In(2)
182	1600.95	102.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud 100%	0.11

## Gas Rates

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



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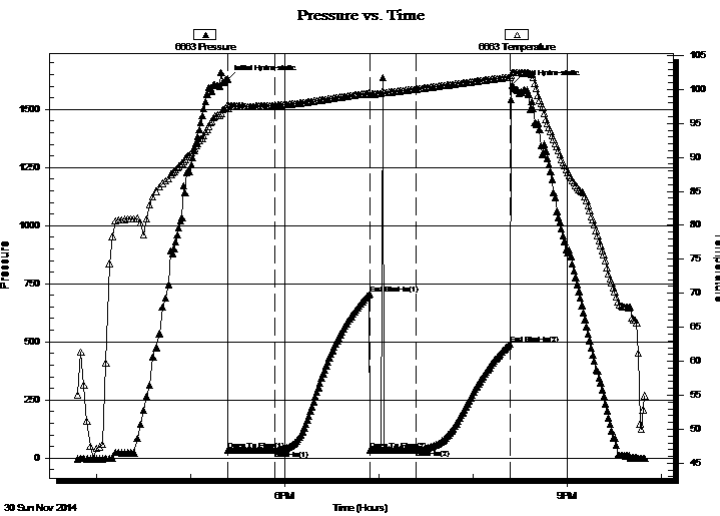
**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62030 **DST#: 2**  
 Test Start: 2014.11.30 @ 15:47:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:24:00  
 Time Test Ended: 21:49:30  
 Interval: **3340.00 ft (KB) To 3378.00 ft (KB) (TVD)**  
 Total Depth: 3378.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Great Bend/12  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 490.98 psig @ 3375.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.30 End Date: 2014.11.30 Last Calib.: 1899.12.30  
 Start Time: 15:48:00 End Time: 21:50:00 Time On Btm: 2014.11.30 @ 17:23:30  
 Time Off Btm: 2014.11.30 @ 20:25:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch then died to weak surface blow  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Light surge at open then dead/Flush tool no help  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.92	97.75	Initial Hydro-static
1	33.14	97.22	Open To Flow (1)
31	34.56	97.65	Shut-In(1)
91	705.21	99.46	End Shut-In(1)
91	35.13	99.25	Open To Flow (2)
121	36.10	100.07	Shut-In(2)
180	490.98	101.81	End Shut-In(2)
182	1604.75	102.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud 100%	0.11

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62030

**DST#: 2**

ATTN: Frank Greenbaum

Test Start: 2014.11.30 @ 15:47:00

## Tool Information

Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3340.00 ft			Final 53300.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3318.00	
Hydraulic tool	5.00			3323.00	
Jars	5.00			3328.00	
Safety Joint	2.00			3330.00	
Top Packer	5.00			3335.00	
Packer	5.00			3340.00	27.00 Bottom Of Top Packer
Anchor	33.00			3373.00	
Recorder	1.00	6749	Inside	3374.00	
Recorder	1.00	6663	Outside	3375.00	
Bullnose	3.00			3378.00	38.00 Anchor Tool
<b>Total Tool Length:</b>	<b>65.00</b>				



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62030

**DST#: 2**

ATTN: Frank Greenbaum

Test Start: 2014.11.30 @ 15:47:00

## 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: 43.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud 100%	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl

Num Fluid Samples: 0

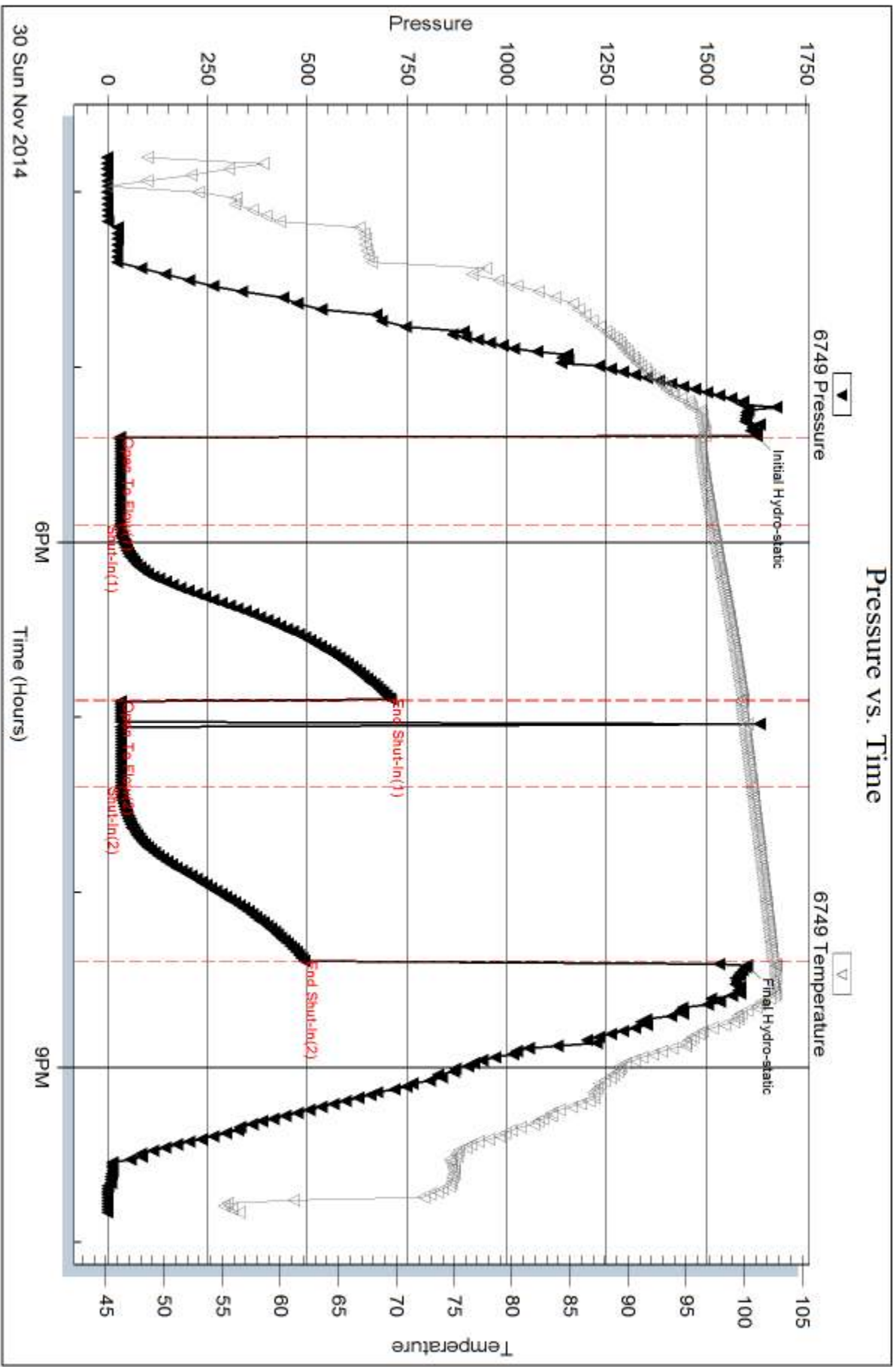
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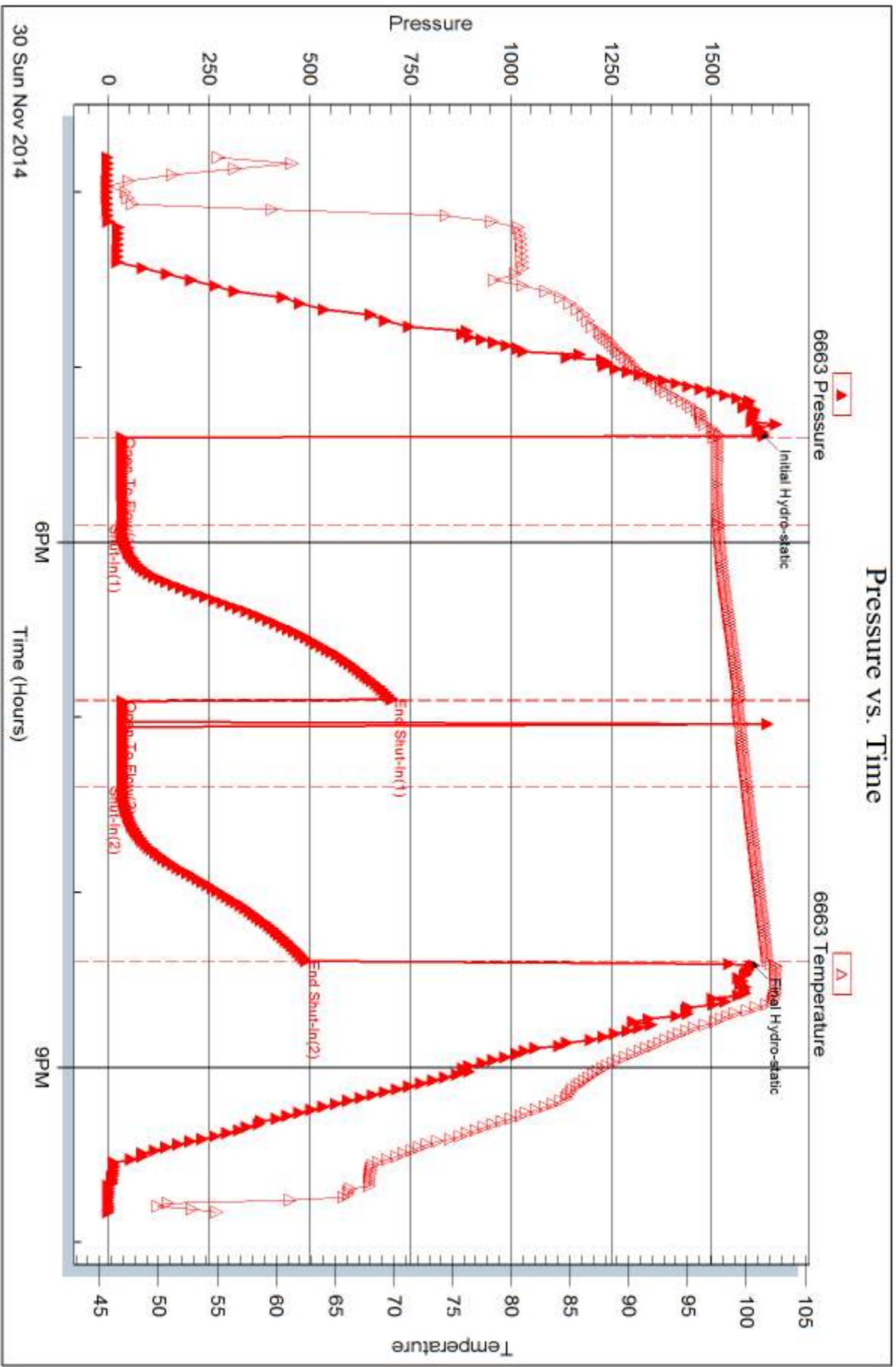
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.01 @ 09:11:00

End Date: 2014.12.01 @ 13:32:00

Job Ticket #: 62031                      DST #: 3

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

Printed: 2014.12.09 @ 16:51:29



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62031 **DST#: 3**  
Test Start: 2014.12.01 @ 09:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:25:00  
Time Test Ended: 13:32:00  
Interval: **3378.00 ft (KB) To 3406.00 ft (KB) (TVD)**  
Total Depth: 3406.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: S1 Great Bend/12

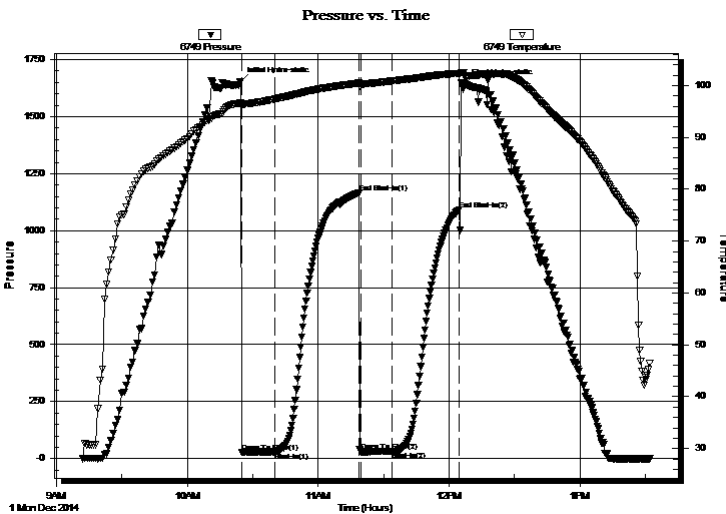
## Serial #: 6749

Inside

Press@RunDepth: 30.98 psig @ 3402.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.01 End Date: 2014.12.01 Last Calib.: 2014.12.01  
Start Time: 09:12:00 End Time: 13:32:00 Time On Btm: 2014.12.01 @ 10:24:30  
Time Off Btm: 2014.12.01 @ 12:07:30

TEST COMMENT: 1ST Open 15 Minutes/Weak blow / 2 foot slide at open/Blow built to 1 inch  
1ST Shut In 40 Minutes/No blow back  
2ND Open 15 Minutes/Weak surface blow throughout/Blow did not build  
2ND Shut In 30 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.26	96.61	Initial Hydro-static
1	29.01	96.33	Open To Flow (1)
16	29.40	97.38	Shut-In(1)
54	1164.06	100.45	End Shut-In(1)
55	30.26	100.27	Open To Flow (2)
70	30.98	100.88	Shut-In(2)
100	1092.16	102.37	End Shut-In(2)
103	1644.21	101.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud 100%	0.11

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

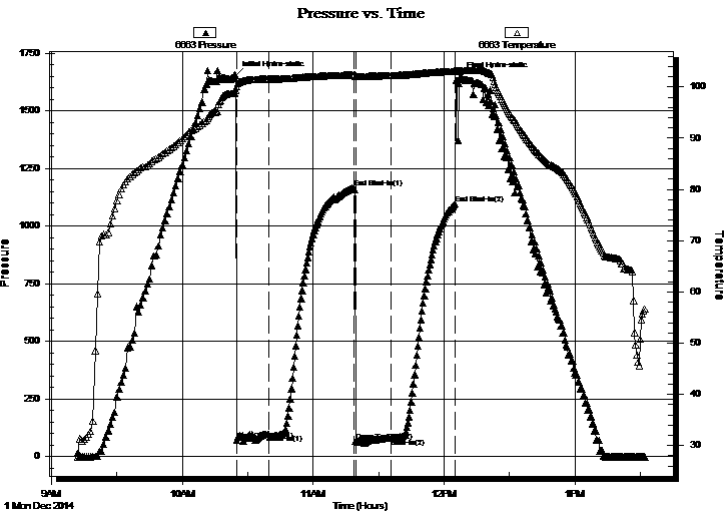
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62031 **DST#: 3**  
 Test Start: 2014.12.01 @ 09:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:25:00  
 Time Test Ended: 13:32:00  
 Interval: **3378.00 ft (KB) To 3406.00 ft (KB) (TVD)**  
 Total Depth: 3406.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: S1 Great Bend/12  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 1096.21 psig @ 3403.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.01 End Date: 2014.12.01 Last Calib.: 2014.12.01  
 Start Time: 09:12:00 End Time: 13:32:00 Time On Btm: 2014.12.01 @ 10:24:30  
 Time Off Btm: 2014.12.01 @ 12:07:30

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow / 2 foot slide at open/Blow built to 1 inch  
 1ST Shut In 40 Minutes/No blow back  
 2ND Open 15 Minutes/Weak surface blow throughout/Blow did not build  
 2ND Shut In 30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.52	99.38	Initial Hydro-static
1	69.21	100.06	Open To Flow (1)
15	96.27	101.56	Shut-In(1)
54	1164.48	102.39	End Shut-In(1)
55	64.55	102.13	Open To Flow (2)
71	79.99	102.24	Shut-In(2)
101	1096.21	103.10	End Shut-In(2)
103	1646.65	103.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud 100%	0.11

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62031

**DST#: 3**

ATTN: Frank Greenbaum

Test Start: 2014.12.01 @ 09:11:00

## Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 47.44 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3378.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3356.00	
Hydraulic tool	5.00			3361.00	
Jars	5.00			3366.00	
Safety Joint	2.00			3368.00	
Top Packer	5.00			3373.00	
Packer	5.00			3378.00	27.00 Bottom Of Top Packer
Anchor	23.00			3401.00	
Recorder	1.00	6749	Inside	3402.00	
Recorder	1.00	6663	Outside	3403.00	
Bullnose	3.00			3406.00	28.00 Anchor Tool
<b>Total Tool Length:</b>	<b>55.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62031

**DST#: 3**

ATTN: Frank Greenbaum

Test Start: 2014.12.01 @ 09:11:00

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud 100%	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

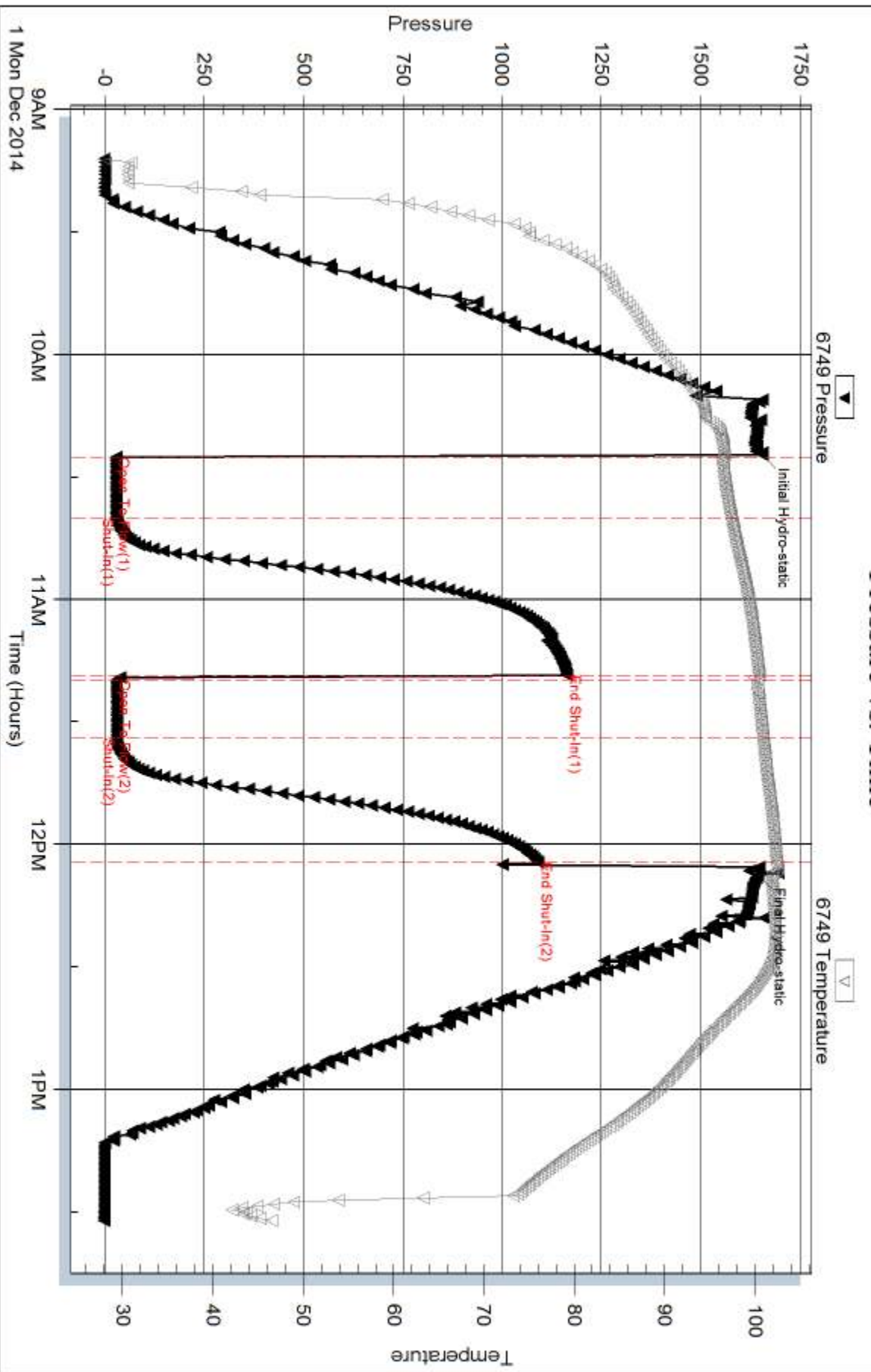
Serial #:

Laboratory Name:

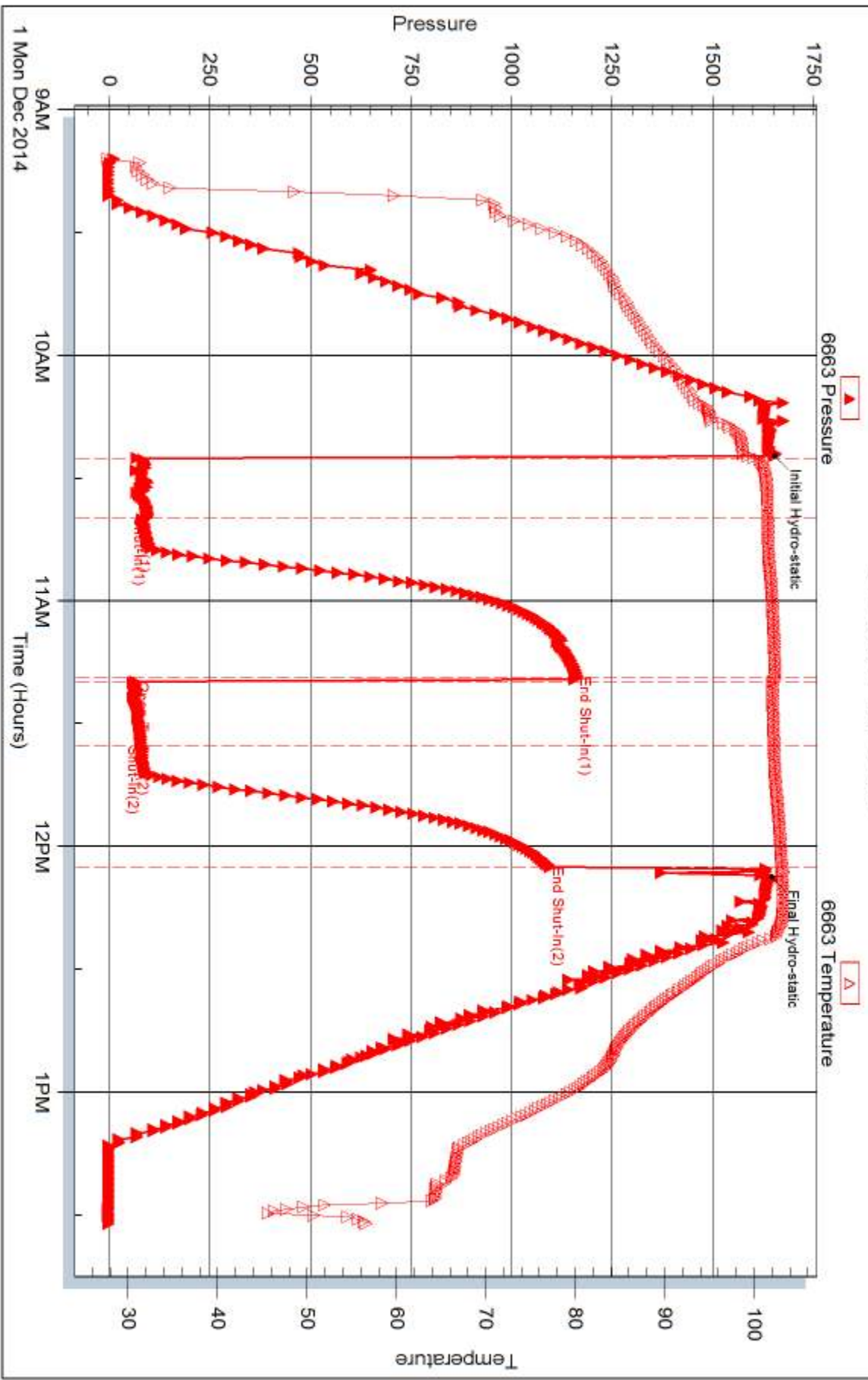
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.02 @ 01:21:01

End Date: 2014.12.02 @ 06:05:01

Job Ticket #: 62032                      DST #: 4

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

Printed: 2014.12.09 @ 16:50:54



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62032 **DST#: 4**  
Test Start: 2014.12.02 @ 01:21:01

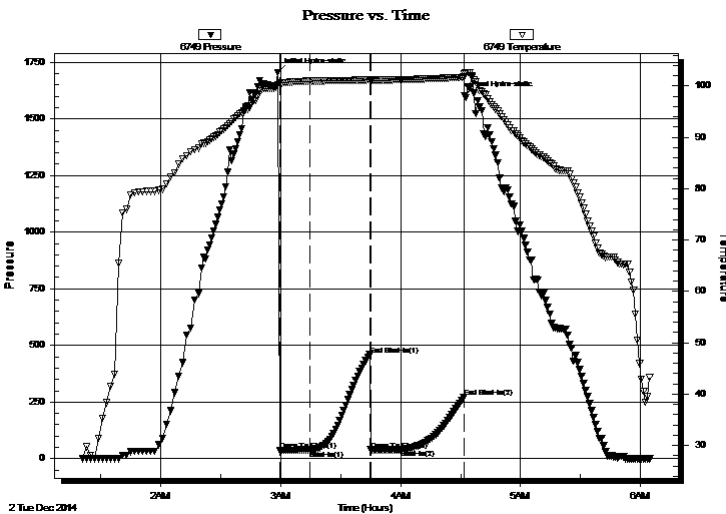
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:59:31  
Time Test Ended: 06:05:01  
Interval: **3403.00 ft (KB) To 3450.00 ft (KB) (TVD)**  
Total Depth: 3450.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S1  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6749** **Inside**  
Press@RunDepth: 39.60 psig @ 3445.72 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02  
Start Time: 01:21:01 End Time: 06:05:01 Time On Btm: 2014.12.02 @ 02:58:31  
Time Off Btm: 2014.12.02 @ 04:32:01

TEST COMMENT: 1st Opening 15 Minbutes-Weak blow for 8 minutes  
1st Shut-In 30 Minutes  
2nd Opening 15 Minutes-No blow  
2nd Shut-In 30 Minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.81	100.33	Initial Hydro-static
1	36.69	100.44	Open To Flow (1)
16	38.27	100.95	Shut-In(1)
46	459.39	101.20	End Shut-In(1)
47	38.89	101.12	Open To Flow (2)
62	39.60	101.22	Shut-In(2)
93	272.47	101.72	End Shut-In(2)
94	1603.54	102.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRILLING MUD	0.14

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

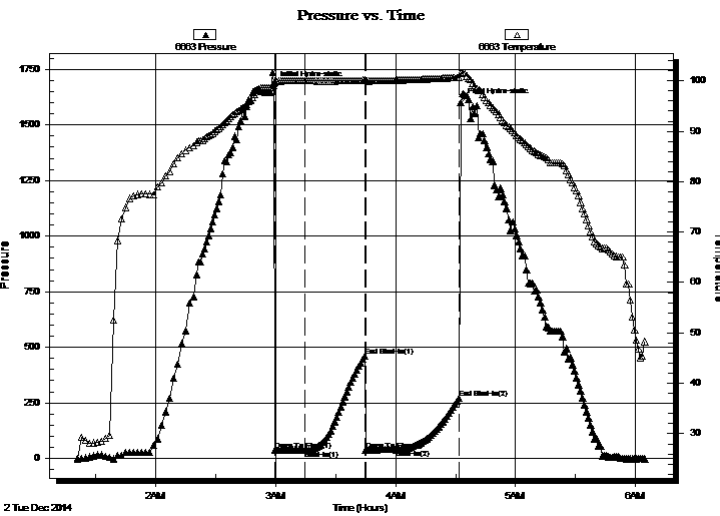
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62032 **DST#: 4**  
 Test Start: 2014.12.02 @ 01:21:01

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:59:31  
 Time Test Ended: 06:05:01  
 Interval: **3403.00 ft (KB) To 3450.00 ft (KB) (TVD)**  
 Total Depth: 3450.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S1  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 269.63 psig @ 3446.72 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02  
 Start Time: 01:21:00 End Time: 06:05:00 Time On Btm: 2014.12.02 @ 02:59:00  
 Time Off Btm: 2014.12.02 @ 04:32:30

**TEST COMMENT:** 1st Opening 15 Minbutes-Weak blow for 8 minutes  
 1st Shut-In 30 Minutes  
 2nd Opening 15 Minutes-No blow  
 2nd Shut-In 30 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.30	99.57	Initial Hydro-static
1	37.00	99.66	Open To Flow (1)
16	38.65	100.04	Shut-In(1)
46	459.48	100.13	End Shut-In(1)
46	38.95	100.01	Open To Flow (2)
61	39.64	100.12	Shut-In(2)
93	269.63	100.71	End Shut-In(2)
94	1601.80	101.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRILLING MUD	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62032

**DST#: 4**

ATTN: Frank Greenbaum

Test Start: 2014.12.02 @ 01:21:01

## Tool Information

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.80 inches	Volume: 47.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 75000.00 lb
			<u>Total Volume: 47.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3403.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.72 ft			
Tool Length:	74.72 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3380.00	
Hydraulic tool	5.00			3385.00	
Jars	6.00			3391.00	
Safety Joint	2.00			3393.00	
Top Packer	5.00			3398.00	
Packer	5.00			3403.00	28.00 Bottom Of Top Packer
Change Over Sub	0.75			3403.75	
Drill Pipe	31.22			3434.97	
Change Over Sub	0.75			3435.72	
Anchor	10.00			3445.72	
Recorder	0.00	6749	Inside	3445.72	
Recorder	1.00	6663	Outside	3446.72	
Bullnose	3.00			3449.72	46.72 Anchor Tool

**Total Tool Length: 74.72**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62032

**DST#: 4**

ATTN: Frank Greenbaum

Test Start: 2014.12.02 @ 01:21:01

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DRILLING MUD	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

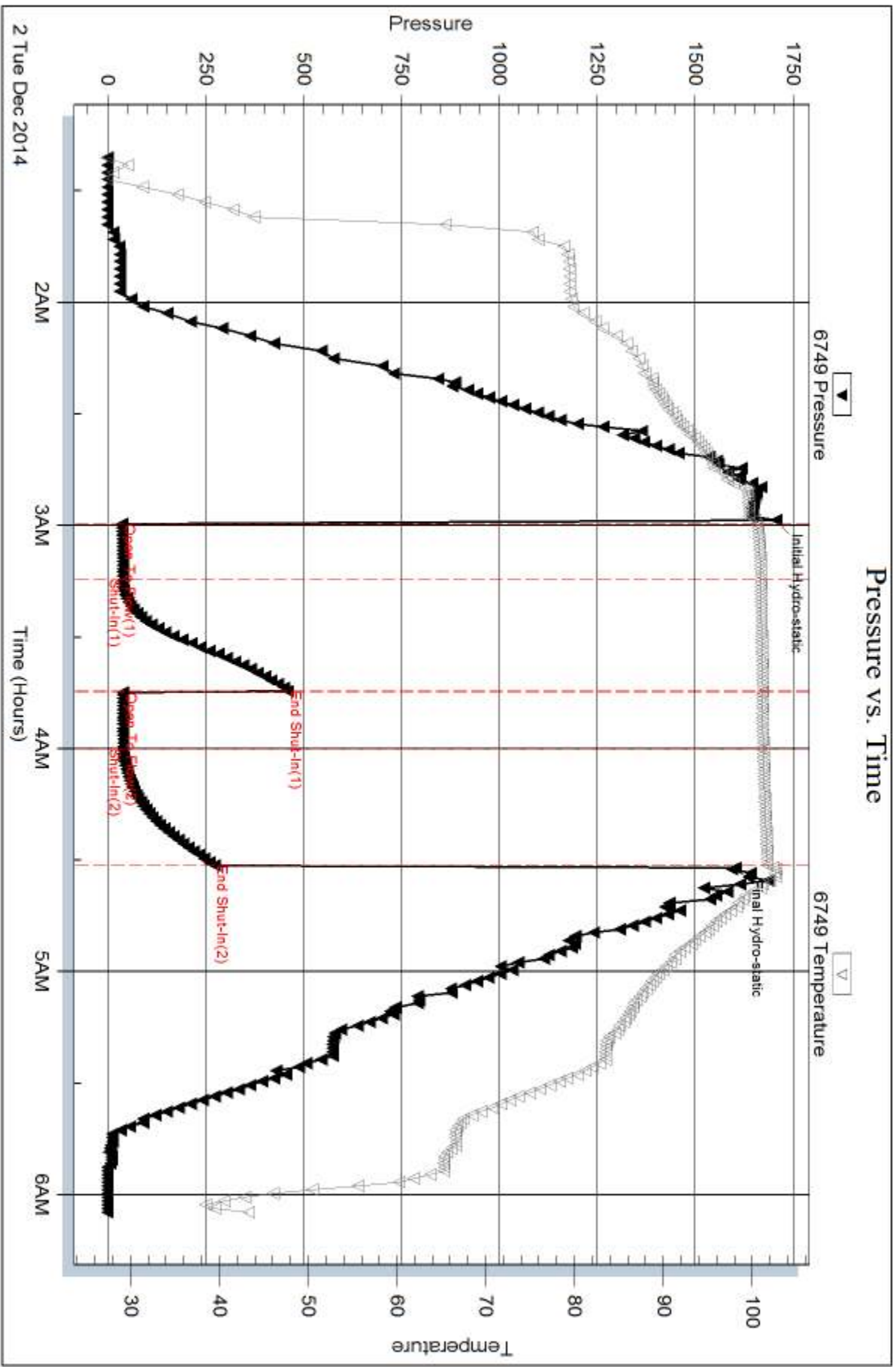
Num Gas Bombs: 0

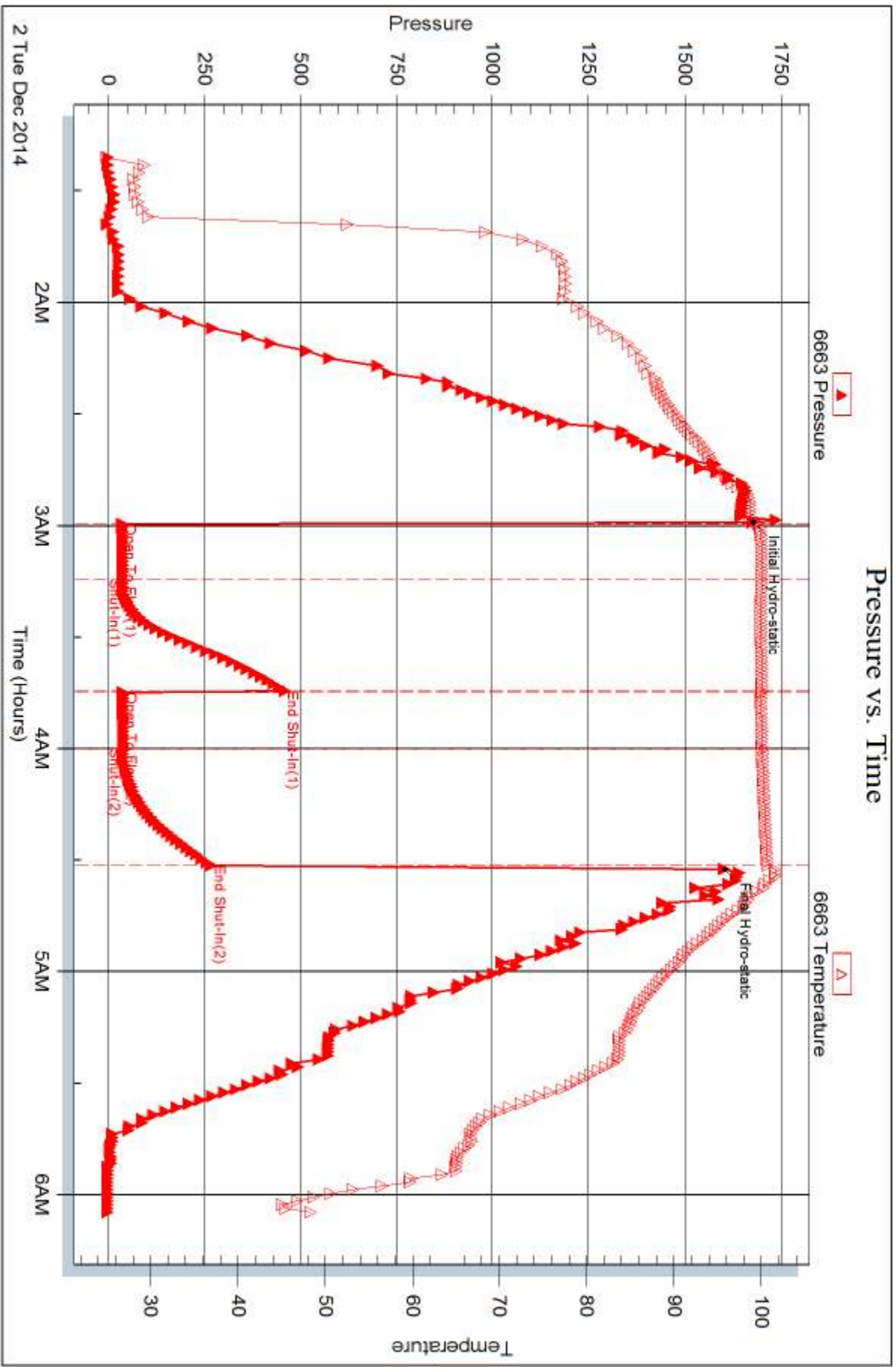
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.02 @ 16:16:00

End Date: 2014.12.02 @ 21:36:00

Job Ticket #: 62033                      DST #: 5

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

Printed: 2014.12.09 @ 16:50:30



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

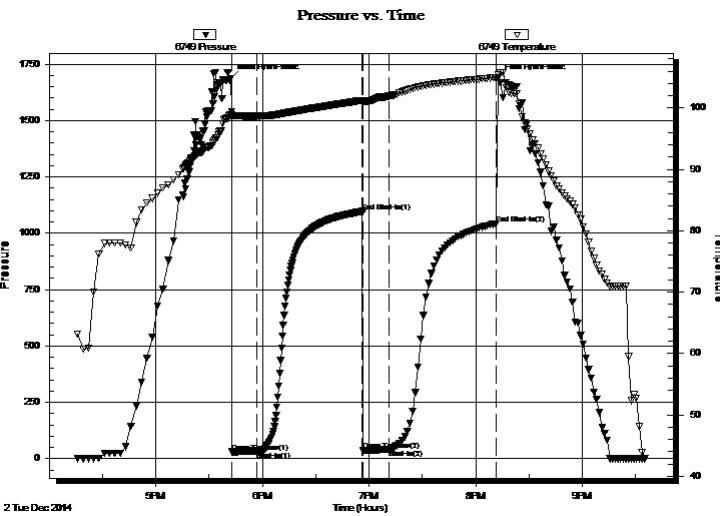
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62033 **DST#: 5**  
Test Start: 2014.12.02 @ 16:16:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:42:50  
Time Test Ended: 21:36:00  
Interval: **3438.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
Total Depth: 3470.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S-1  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
Press@RunDepth: 41.24 psig @ 3466.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02  
Start Time: 16:16:00 End Time: 21:36:00 Time On Btm: 2014.12.02 @ 17:42:20  
Time Off Btm: 2014.12.02 @ 20:12:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 6 minutes and did  
1st Shut-In 60 Minutes  
2nd Opening 15 Minutes-No blow  
2nd Shut-In 60 Minutes-



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.11	98.89	Initial Hydro-static
1	30.00	98.49	Open To Flow (1)
15	34.63	98.68	Shut-In(1)
74	1096.69	101.25	End Shut-In(1)
75	38.16	101.01	Open To Flow (2)
89	41.24	101.93	Shut-In(2)
150	1042.63	104.97	End Shut-In(2)
151	1685.48	105.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly Oil spotted mud 3% Oil 97% Mud	0.28
0.00	2 inches of clean oil on top and a good	0.00
0.00	show of free oil between the tools	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

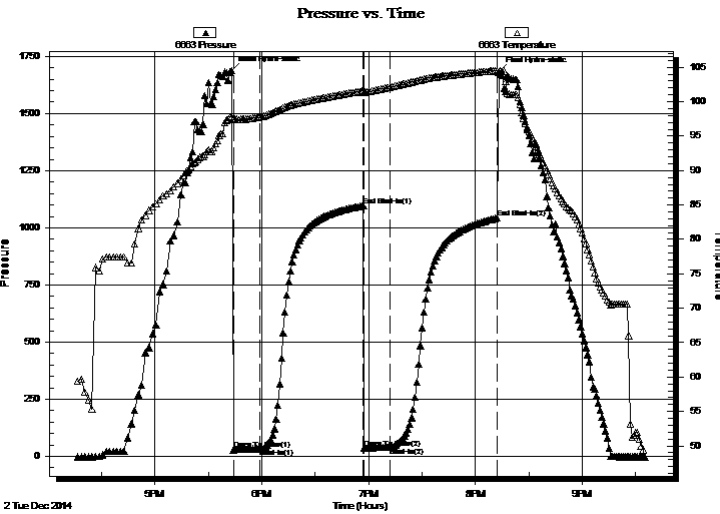
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62033 **DST#: 5**  
 Test Start: 2014.12.02 @ 16:16:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:42:50  
 Time Test Ended: 21:36:00  
 Interval: **3438.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
 Total Depth: 3470.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S-1  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 1042.88 psig @ 3467.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02  
 Start Time: 16:16:29 End Time: 21:35:29 Time On Btm: 2014.12.02 @ 17:42:59  
 Time Off Btm: 2014.12.02 @ 20:12:59

**TEST COMMENT:** 1st Opening 15 Minutes-Weak blow for 6 minutes and did  
 1st Shut-In 60 Minutes  
 2nd Opening 15 Minutes-No blow  
 2nd Shut-In 60 Minutes-



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.89	97.79	Initial Hydro-static
1	29.46	97.54	Open To Flow (1)
16	33.93	97.79	Shut-In(1)
74	1097.22	101.59	End Shut-In(1)
75	37.32	101.38	Open To Flow (2)
89	40.53	102.13	Shut-In(2)
149	1042.88	104.55	End Shut-In(2)
150	1685.14	104.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly Oil spotted mud 3% Oil 97% Mud	0.28
0.00	2 inches of clean oil on top and a good	0.00
0.00	show of free oil between the tools	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62033

**DST#: 5**

ATTN: Frank Greenbaum

Test Start: 2014.12.02 @ 16:16:00

## Tool Information

Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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:	62000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3438.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Jars	5.00			3426.00	
Safety Joint	2.00			3428.00	
Top Packer	5.00			3433.00	
Packer	5.00			3438.00	27.00 Bottom Of Top Packer
Anchor	27.00			3465.00	
Recorder	1.00	6749	Inside	3466.00	
Recorder	1.00	6663	Outside	3467.00	
Bullnose	3.00			3470.00	32.00 Anchor Tool
<b>Total Tool Length:</b>	<b>59.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62033

**DST#: 5**

ATTN: Frank Greenbaum

Test Start: 2014.12.02 @ 16:16:00

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 71.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Slightly Oil spotted mud 3% Oil 97% Mud	0.281
0.00	2 inches of clean oil on top and a good	0.000
0.00	show of free oil between the tools	0.000

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

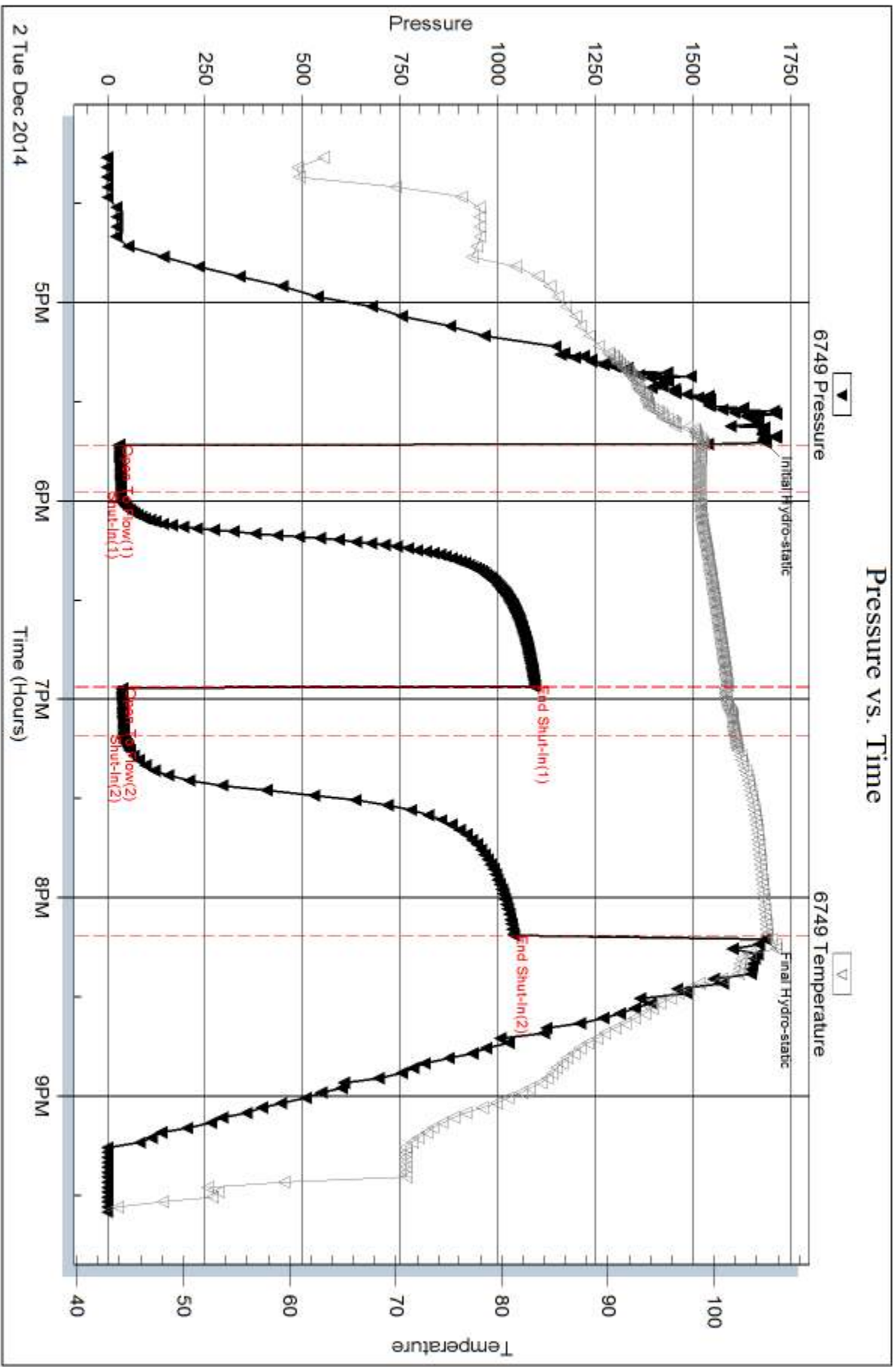
Num Gas Bombs: 0

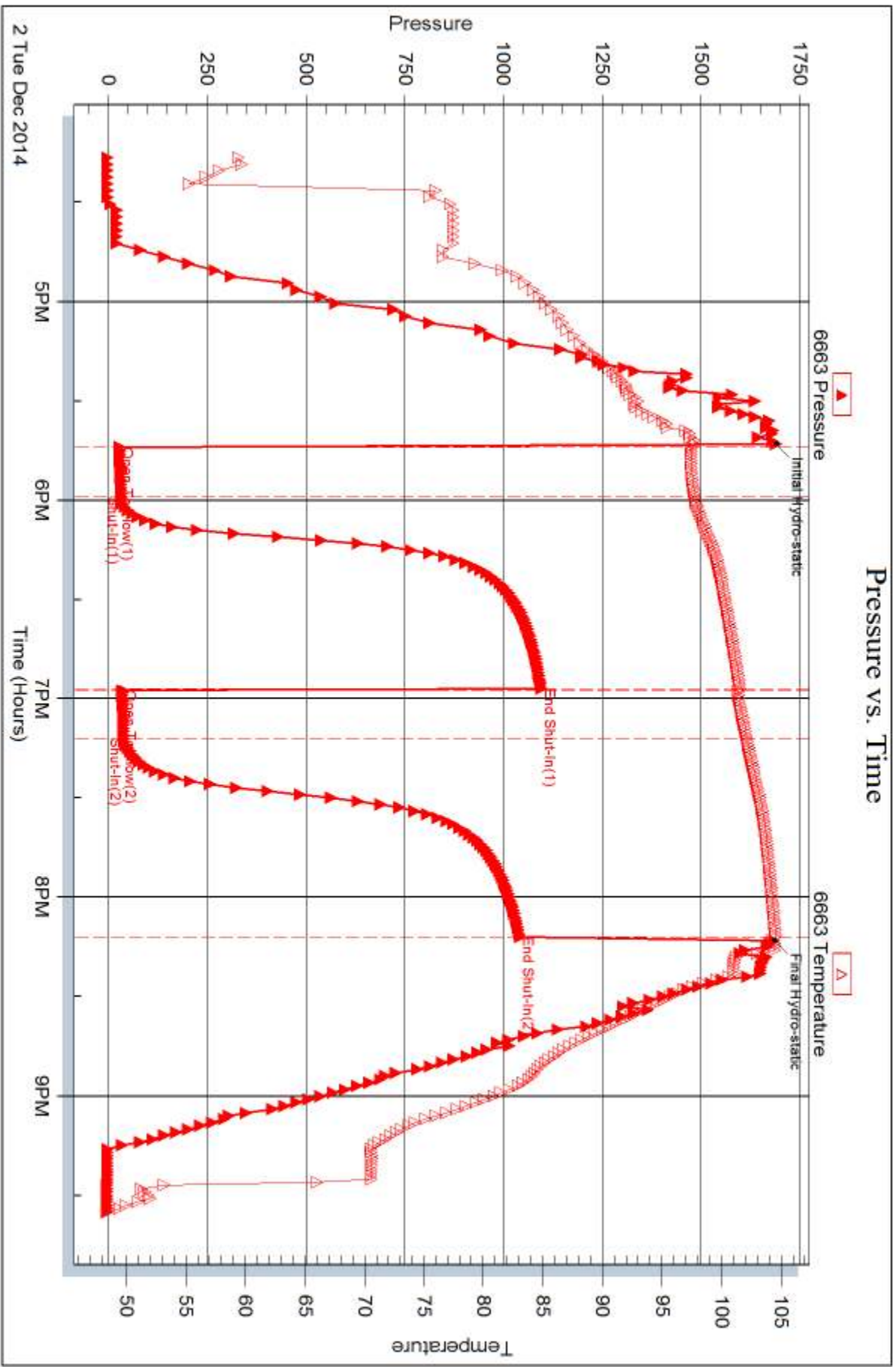
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.03 @ 05:30:00

End Date: 2014.12.03 @ 12:15:00

Job Ticket #: 6238                      DST #: 6

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

Printed: 2014.12.09 @ 16:50:05



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

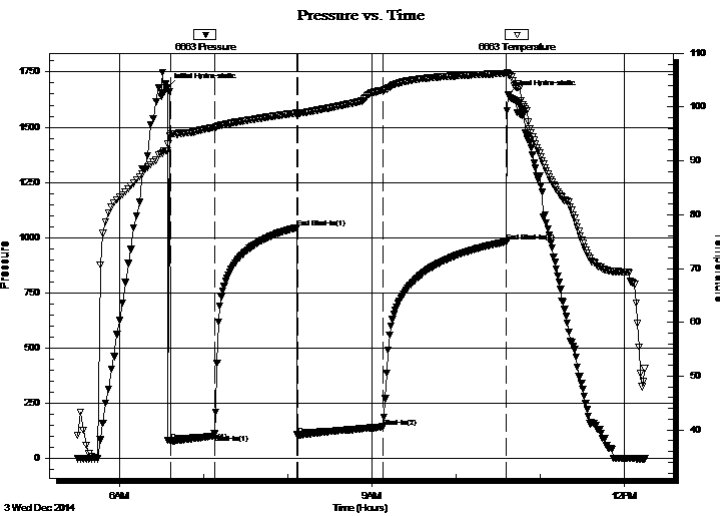
**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 6238 **DST#: 6**  
Test Start: 2014.12.03 @ 05:30:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:36:30  
Time Test Ended: 12:15:00  
Interval: **3466.00 ft (KB) To 3475.00 ft (KB) (TVD)**  
Total Depth: 3475.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S-1  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
Press@RunDepth: 142.71 psig @ 3472.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.03 End Date: 2014.12.03 Last Calib.: 2014.12.03  
Start Time: 05:30:00 End Time: 12:15:00 Time On Btm: 2014.12.03 @ 06:34:00  
Time Off Btm: 2014.12.03 @ 10:37:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 9 inches in to the water  
1st Shut-In 60 Minutes no blow back  
2nd Opening 60 Minutes- Weak building blow built to BOB in 50 Minutes  
2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.05	91.88	Initial Hydro-static
3	76.54	94.69	Open To Flow (1)
34	111.07	96.22	Shut-In(1)
92	1045.00	98.91	End Shut-In(1)
93	104.44	98.82	Open To Flow (2)
154	142.71	103.12	Shut-In(2)
242	981.10	106.26	End Shut-In(2)
243	1645.60	106.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 Gas in the pipe	0.00
120.00	CGO 15%Gas 85%Oil 34 Gravity	1.68
60.00	MGO 5%Gas 35%Oil 60%Mud	0.84
60.00	MGO 5%Gas 25%Oil 70%Mud	0.84
60.00	MGO 5% Gas 15%Oil 80%Mud	0.84

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

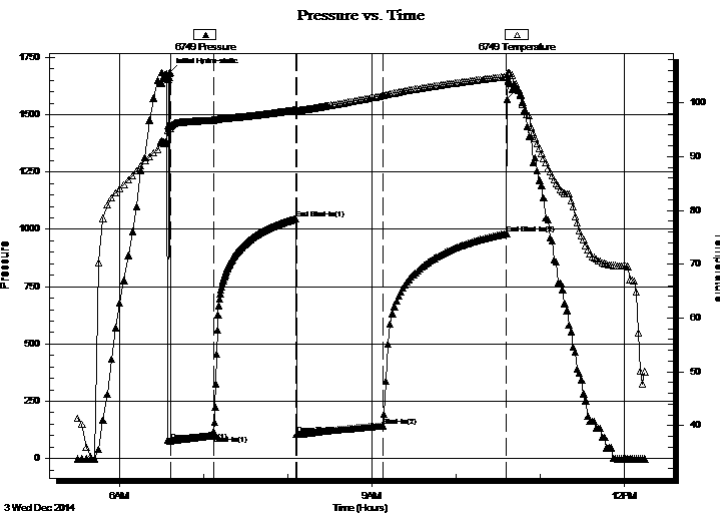
**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 6238 **DST#: 6**  
 Test Start: 2014.12.03 @ 05:30:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:36:30  
 Time Test Ended: 12:15:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S-1  
 Interval: **3466.00 ft (KB) To 3475.00 ft (KB) (TVD)**  
 Reference Elevations: 1884.00 ft (KB)  
 Total Depth: 3475.00 ft (KB) (TVD) 1876.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 982.11 psig @ 3471.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.03 End Date: 2014.12.03 Last Calib.: 1899.12.30  
 Start Time: 05:30:00 End Time: 12:14:30 Time On Btm: 2014.12.03 @ 06:35:50  
 Time Off Btm:

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 9 inches in to the water  
 1st Shut-In 60 Minutes no blow back  
 2nd Opening 60 Minutes- Weak building blow built to BOB in 50 Minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.34	95.56	Initial Hydro-static
1	76.14	95.17	Open To Flow (1)
31	101.48	96.76	Shut-In(1)
90	1046.31	98.69	End Shut-In(1)
91	106.64	98.43	Open To Flow (2)
152	143.11	101.29	Shut-In(2)
241	982.11	104.87	End Shut-In(2)
241	1568.20	105.23	5

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 Gas in the pipe	0.00
120.00	CGO 15%Gas 85%Oil 34 Gravity	1.68
60.00	MGO 5%Gas 35%Oil 60%Mud	0.84
60.00	MGO 5%Gas 25%Oil 70%Mud	0.84
60.00	MGO 5% Gas 15%Oil 80%Mud	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 6238

**DST#: 6**

ATTN: Frank Greenbaum

Test Start: 2014.12.03 @ 05:30:00

## Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 68000.00 lb
			<u>Total Volume: 48.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3466.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3444.00	
Hydraulic tool	5.00			3449.00	
Jars	5.00			3454.00	
Safety Joint	2.00			3456.00	
Top Packer	5.00			3461.00	
Packer	5.00			3466.00	27.00 Bottom Of Top Packer
Anchor	4.00			3470.00	
Recorder	1.00	6749	Inside	3471.00	
Recorder	1.00	6663	Outside	3472.00	
Bullnose	3.00			3475.00	9.00 Anchor Tool
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 6238

**DST#: 6**

ATTN: Frank Greenbaum

Test Start: 2014.12.03 @ 05:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	120 Gas in the pipe	0.000
120.00	CGO 15%Gas 85%Oil 34 Gravity	1.683
60.00	MGO 5%Gas 35%Oil 60%Mud	0.842
60.00	MGO 5%Gas 25%Oil 70%Mud	0.842
60.00	MGO 5% Gas 15%Oil 80%Mud	0.842

Total Length: 300.00 ft

Total Volume: 4.209 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

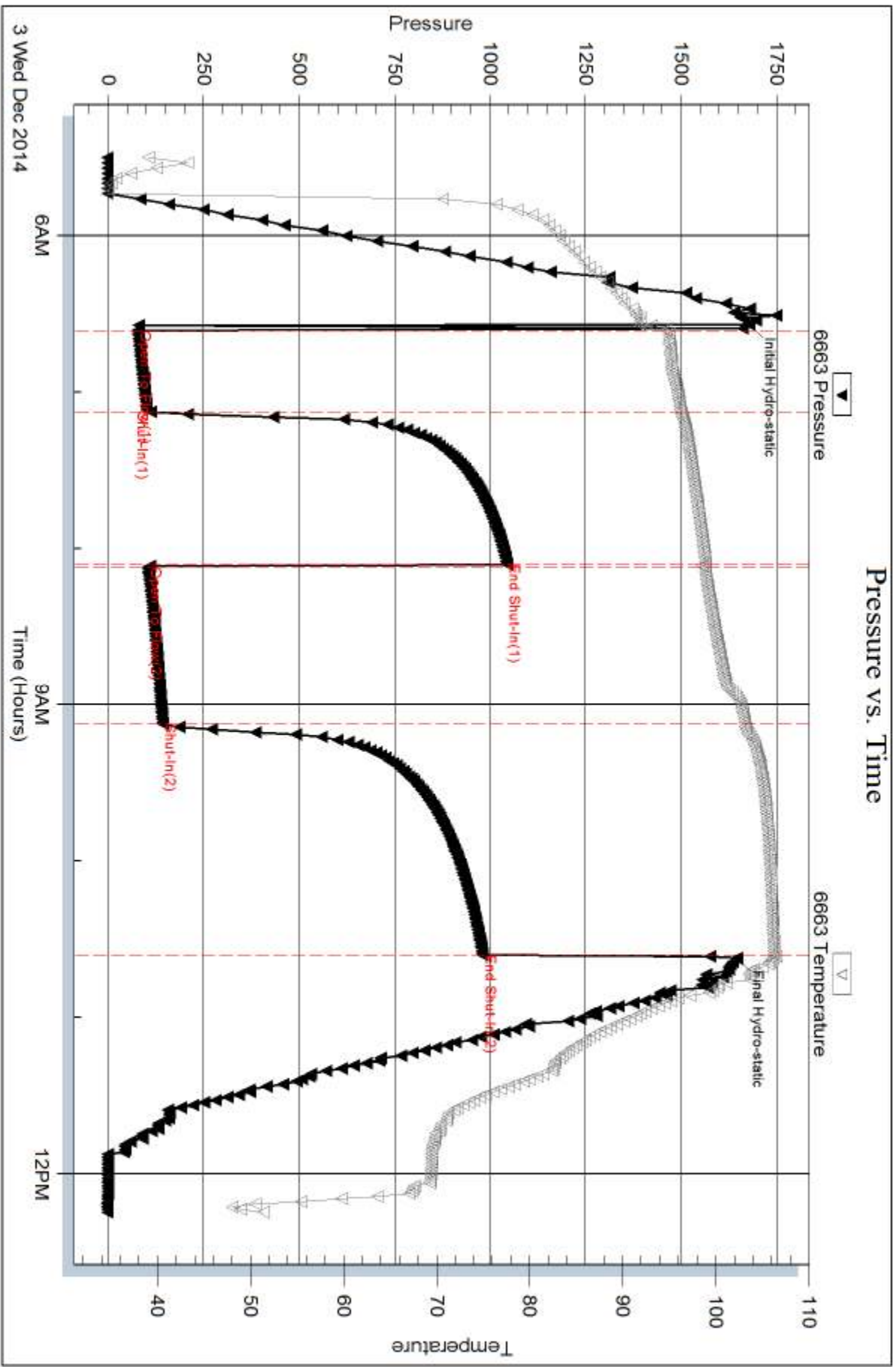
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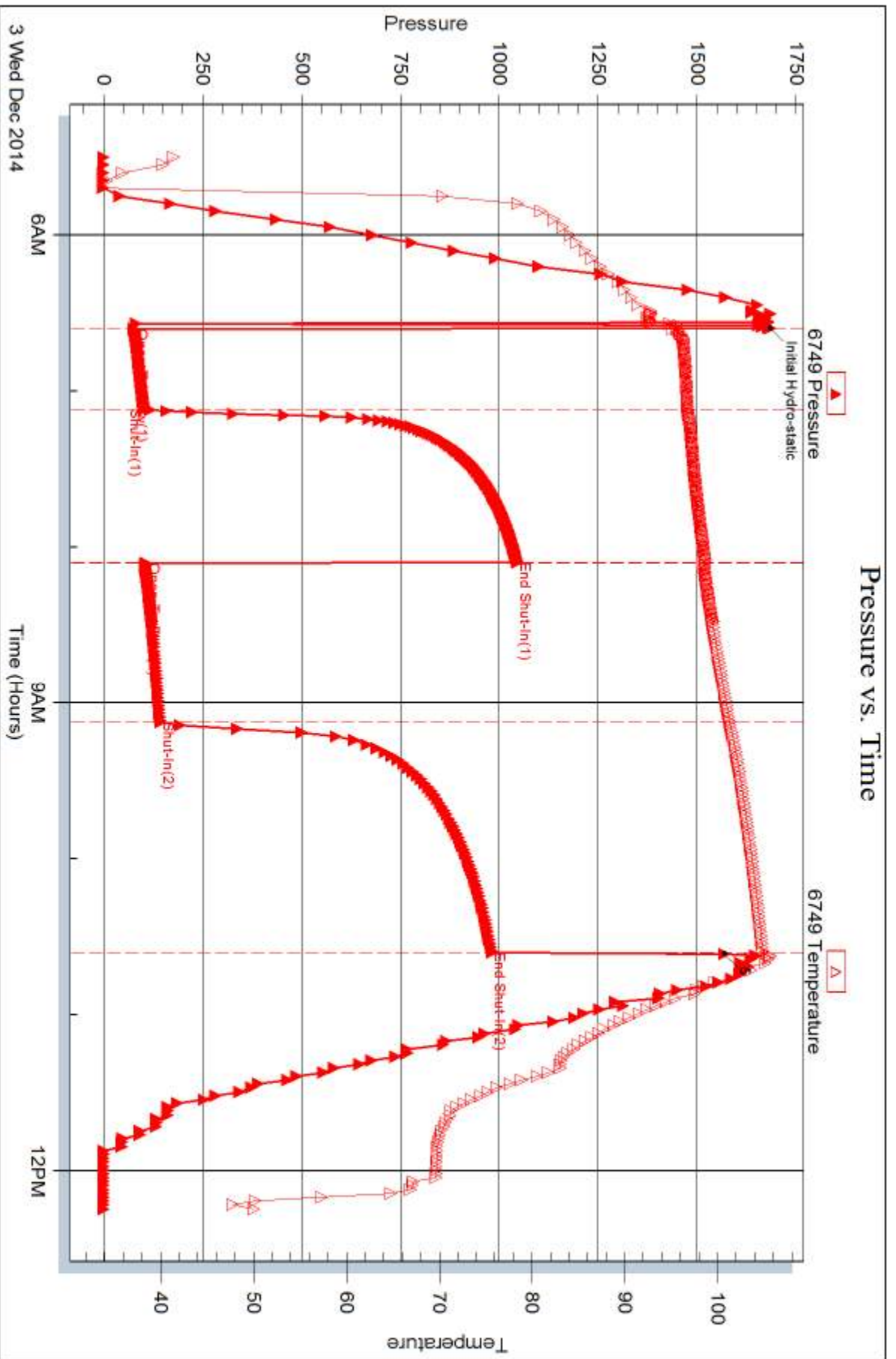
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.04 @ 20:15:00

End Date: 2014.12.05 @ 01:46:00

Job Ticket #: 62035                      DST #: 7

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

Printed: 2014.12.09 @ 16:49:37



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

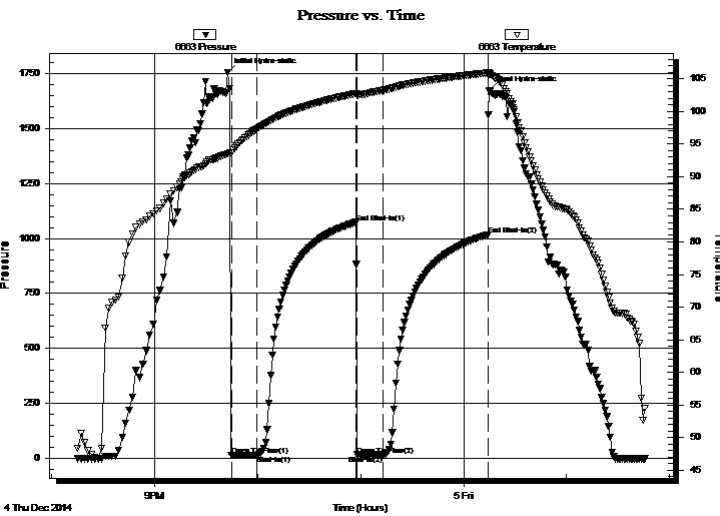
**6-19s-13w Barton,KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62035 **DST#: 7**  
Test Start: 2014.12.04 @ 20:15:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:44:30  
Time Test Ended: 01:46:00  
Interval: **3475.00 ft (KB) To 3481.00 ft (KB) (TVD)**  
Total Depth: 3481.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S-1  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
Press@RunDepth: 16.29 psig @ 3478.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.04 End Date: 2014.12.05 Last Calib.: 2014.12.04  
Start Time: 20:15:00 End Time: 01:46:00 Time On Btm: 2014.12.04 @ 21:42:30  
Time Off Btm: 2014.12.05 @ 00:15:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 11 minutes and died  
1st Shut-In 60 Minutes  
2nd Opening 15 Minutes No blow  
2nd Shut-In 60 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.71	93.52	Initial Hydro-static
2	14.55	93.65	Open To Flow (1)
17	15.59	97.31	Shut-In(1)
75	1072.51	102.73	End Shut-In(1)
76	16.18	102.51	Open To Flow (2)
91	16.29	103.25	Shut-In(2)
152	1016.87	105.90	End Shut-In(2)
153	1672.59	105.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	very slightly oil cut mud 3%oil 97%mud	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
9431 East Central Suite 100  
Wichita, KS 67206+2563  
ATTN: Frank Greenbaum

**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
Job Ticket: 62035 **DST#: 7**  
Test Start: 2014.12.04 @ 20:15:00

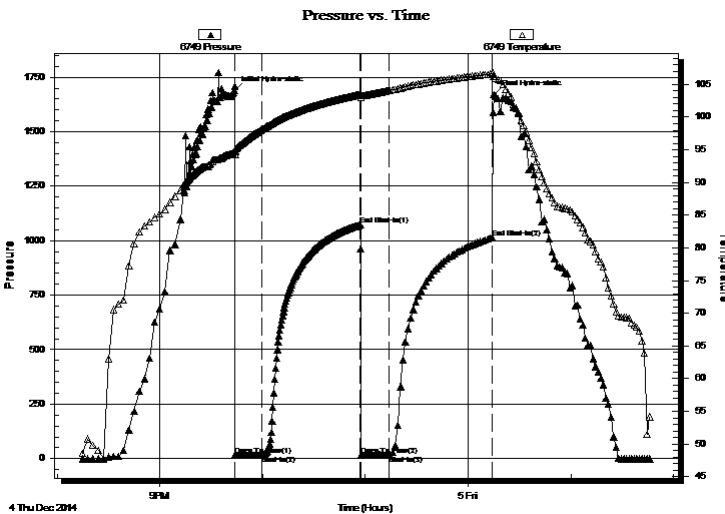
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:44:30  
Time Test Ended: 01:46:00  
Interval: **3475.00 ft (KB) To 3481.00 ft (KB) (TVD)**  
Total Depth: 3481.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S-1  
Reference Elevations: 1884.00 ft (KB)  
1876.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
Press@RunDepth: 1014.94 psig @ 3477.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.04 End Date: 2014.12.05 Last Calib.: 2014.12.04  
Start Time: 20:15:00 End Time: 01:46:00 Time On Btm: 2014.12.04 @ 21:43:50  
Time Off Btm: 2014.12.05 @ 00:15:00

**TEST COMMENT:** 1st Opening 15 Minutes Weak blow for 11 minutes and died  
1st Shut-In 60 Minutes  
2nd Opening 15 Minutes No blow  
2nd Shut-In 60 Minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.90	94.94	Initial Hydro-static
1	14.03	94.32	Open To Flow (1)
16	15.30	98.10	Shut-In(1)
16	15.84	98.13	Shut-In(2)
74	1072.92	103.47	End Shut-In(1)
74	14.84	103.03	Open To Flow (2)
90	16.54	104.05	Shut-In(3)
151	1014.94	106.61	End Shut-In(2)
152	1671.22	106.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	very slightly oil cut mud 3%oil 97%mud	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62035

**DST#: 7**

ATTN: Frank Greenbaum

Test Start: 2014.12.04 @ 20:15:00

## Tool Information

Drill Pipe:	Length: 3473.00 ft	Diameter: 3.80 inches	Volume: 48.72 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.26 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 48.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3475.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Jars	5.00			3463.00	
Safety Joint	2.00			3465.00	
Top Packer	5.00			3470.00	
Packer	5.00			3475.00	27.00 Bottom Of Top Packer
Anchor	1.00			3476.00	
Recorder	1.00	6749	Inside	3477.00	
Recorder	1.00	6663	Outside	3478.00	
Bullnose	3.00			3481.00	6.00 Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62035

**DST#: 7**

ATTN: Frank Greenbaum

Test Start: 2014.12.04 @ 20:15:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	very slightly oil cut mud 3%oil 97%mud	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

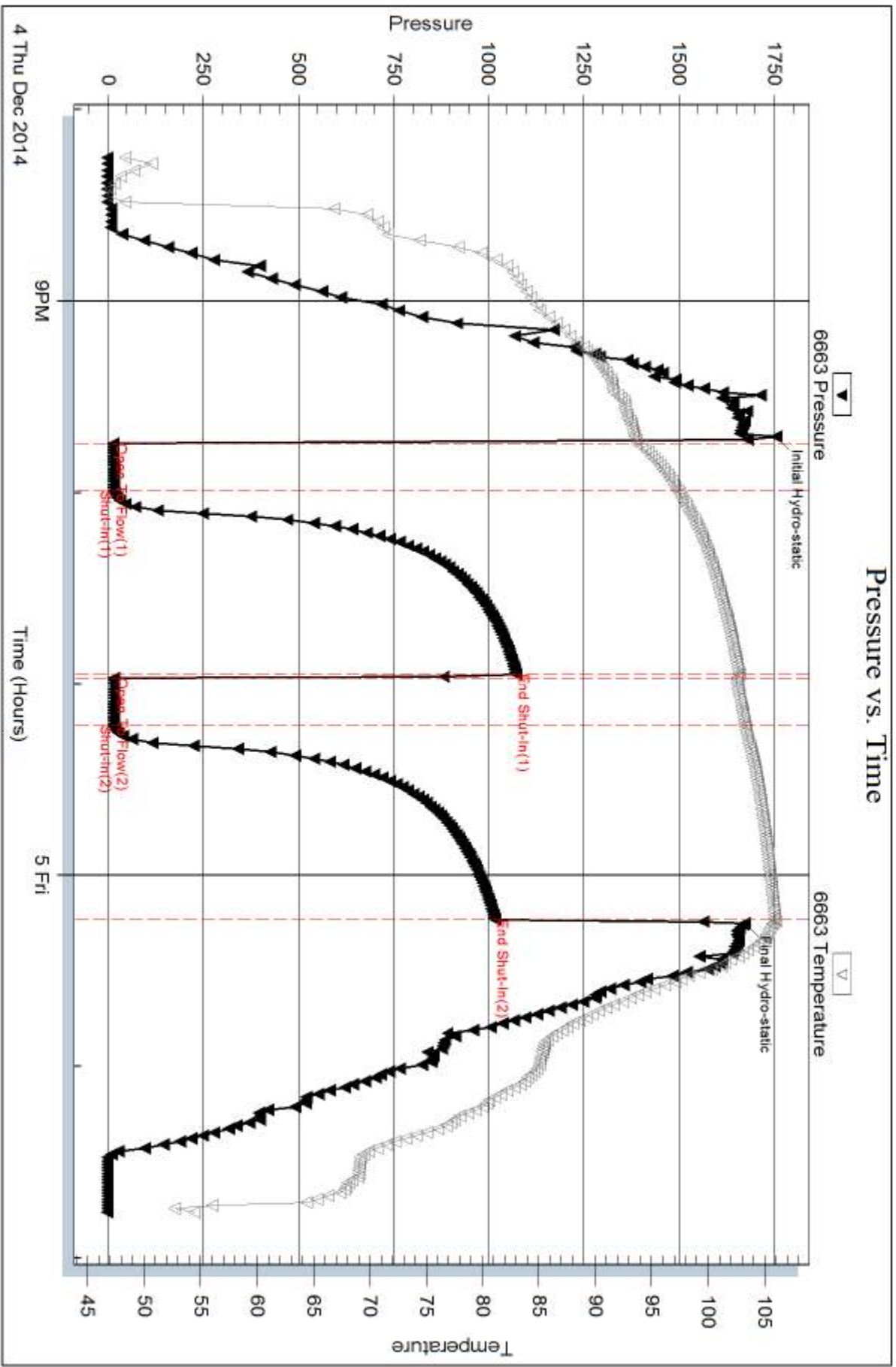
Num Gas Bombs: 0

Serial #:

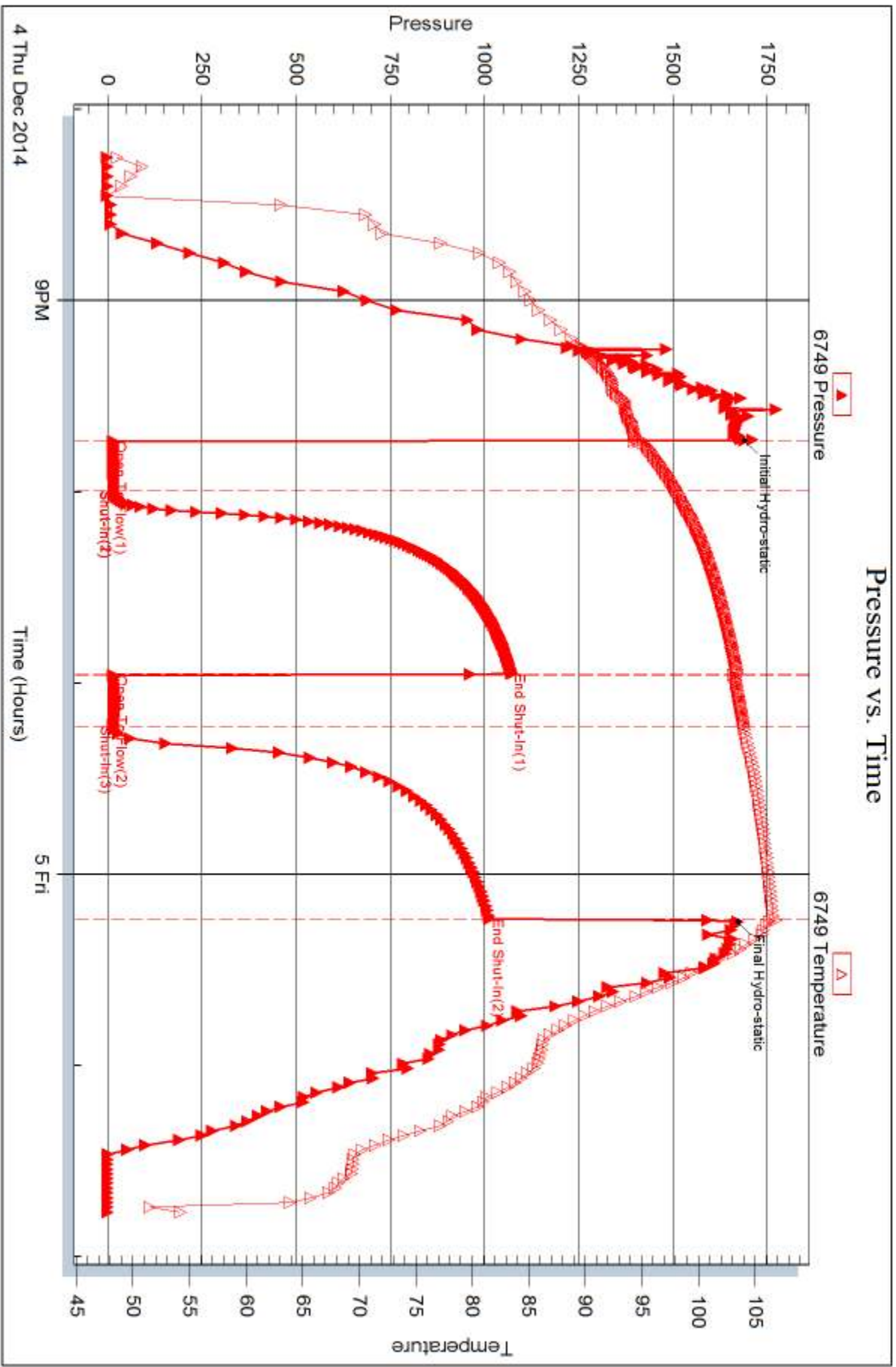
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central Suite 100  
Wichita, KS 67206+2563

ATTN: Frank Greenbaum

### **Roberts/Phillips 1-6**

### **6-19s-13w Barton,KS**

Start Date: 2014.12.04 @ 09:15:00

End Date: 2014.12.04 @ 17:16:30

Job Ticket #: 62036                      DST #: 8

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

Printed: 2014.12.09 @ 16:47:27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62036 **DST#: 8**  
 Test Start: 2014.12.04 @ 09:15:00

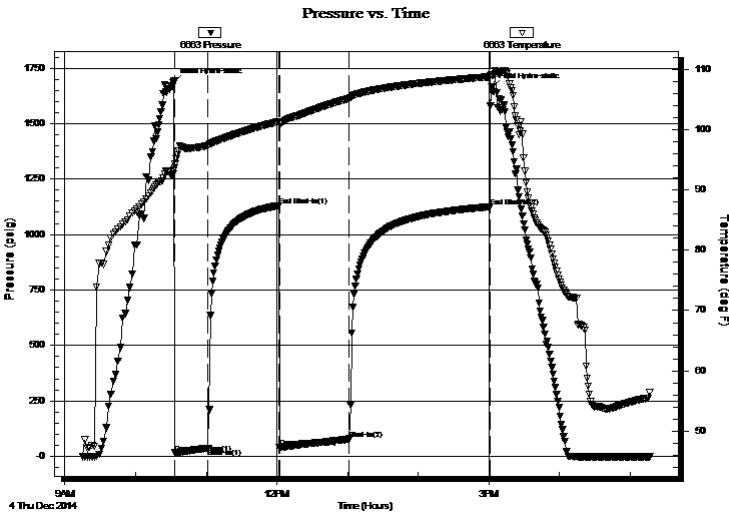
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:33:00  
 Time Test Ended: 17:16:30  
 Interval: **3478.00 ft (KB) To 3486.00 ft (KB) (TVD)**  
 Total Depth: 3486.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S1  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**  
 Press@RunDepth: 77.36 psig @ 3483.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.04 End Date: 2014.12.04 Last Calib.: 2014.12.04  
 Start Time: 09:15:00 End Time: 17:16:30 Time On Btm: 2014.12.04 @ 10:32:00  
 Time Off Btm: 2014.12.04 @ 15:02:30

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 8 inches  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 60 Minutes-Weak building blow built to 12 inches  
 2nd Shut-In 120 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.79	92.66	Initial Hydro-static
1	16.32	93.64	Open To Flow (1)
30	37.57	97.36	Shut-In(1)
90	1130.52	101.32	End Shut-In(1)
90	39.24	101.02	Open To Flow (2)
149	77.36	105.14	Shut-In(2)
269	1124.88	108.74	End Shut-In(2)
271	1664.20	109.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Water with a scum of oil	1.75

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, KS 67206+2563  
 ATTN: Frank Greenbaum

**6-19s-13w Barton, KS**  
**Roberts/Phillips 1-6**  
 Job Ticket: 62036 **DST#: 8**  
 Test Start: 2014.12.04 @ 09:15:00

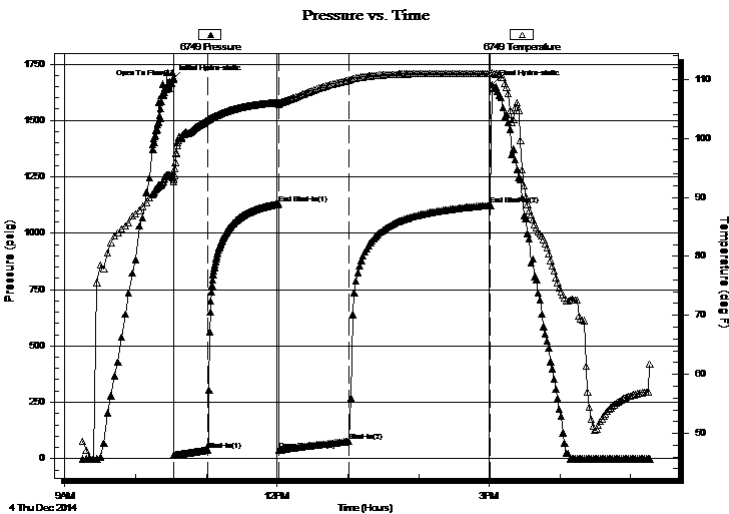
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:33:00  
 Time Test Ended: 17:16:30  
 Interval: **3478.00 ft (KB) To 3486.00 ft (KB) (TVD)**  
 Total Depth: 3486.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S1  
 Reference Elevations: 1884.00 ft (KB)  
 1876.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 1124.02 psig @ 3482.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.04 End Date: 2014.12.04 Last Calib.: 2014.12.04  
 Start Time: 09:15:00 End Time: 17:16:30 Time On Btm: 2014.12.04 @ 10:31:40  
 Time Off Btm: 2014.12.04 @ 15:02:30

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 8 inches  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 60 Minutes-Weak building blow built to 12 inches  
 2nd Shut-In 120 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.83	93.34	Initial Hydro-static
1	1688.40	93.29	Open To Flow (1)
30	38.84	103.08	Shut-In(1)
90	1129.64	106.08	End Shut-In(1)
90	37.93	105.74	Open To Flow (2)
150	76.74	109.85	Shut-In(2)
270	1124.02	111.01	End Shut-In(2)
271	1660.45	111.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Water with a scum of oil	1.75

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62036

**DST#: 8**

ATTN: Frank Greenbaum

Test Start: 2014.12.04 @ 09:15:00

## Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 48.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3478.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Shut-In Tool	5.00			3456.00	
Hydraulic tool	5.00			3461.00	
Jars	5.00			3466.00	
Safety Joint	2.00			3468.00	
Top Packer	5.00			3473.00	
Packer	5.00			3478.00	27.00 Bottom Of Top Packer
Anchor	3.00			3481.00	
Recorder	1.00	6749	Inside	3482.00	
Recorder	1.00	6663	Outside	3483.00	
Bullnose	3.00			3486.00	8.00 Anchor Tool
<b>Total Tool Length:</b>	<b>35.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**6-19s-13w Barton,KS**

9431 East Central Suite 100  
Wichita, KS 67206+2563

**Roberts/Phillips 1-6**

Job Ticket: 62036

**DST#: 8**

ATTN: Frank Greenbaum

Test Start: 2014.12.04 @ 09:15:00

## 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:

14000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Water with a scum of oil	1.753

Total Length: 125.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

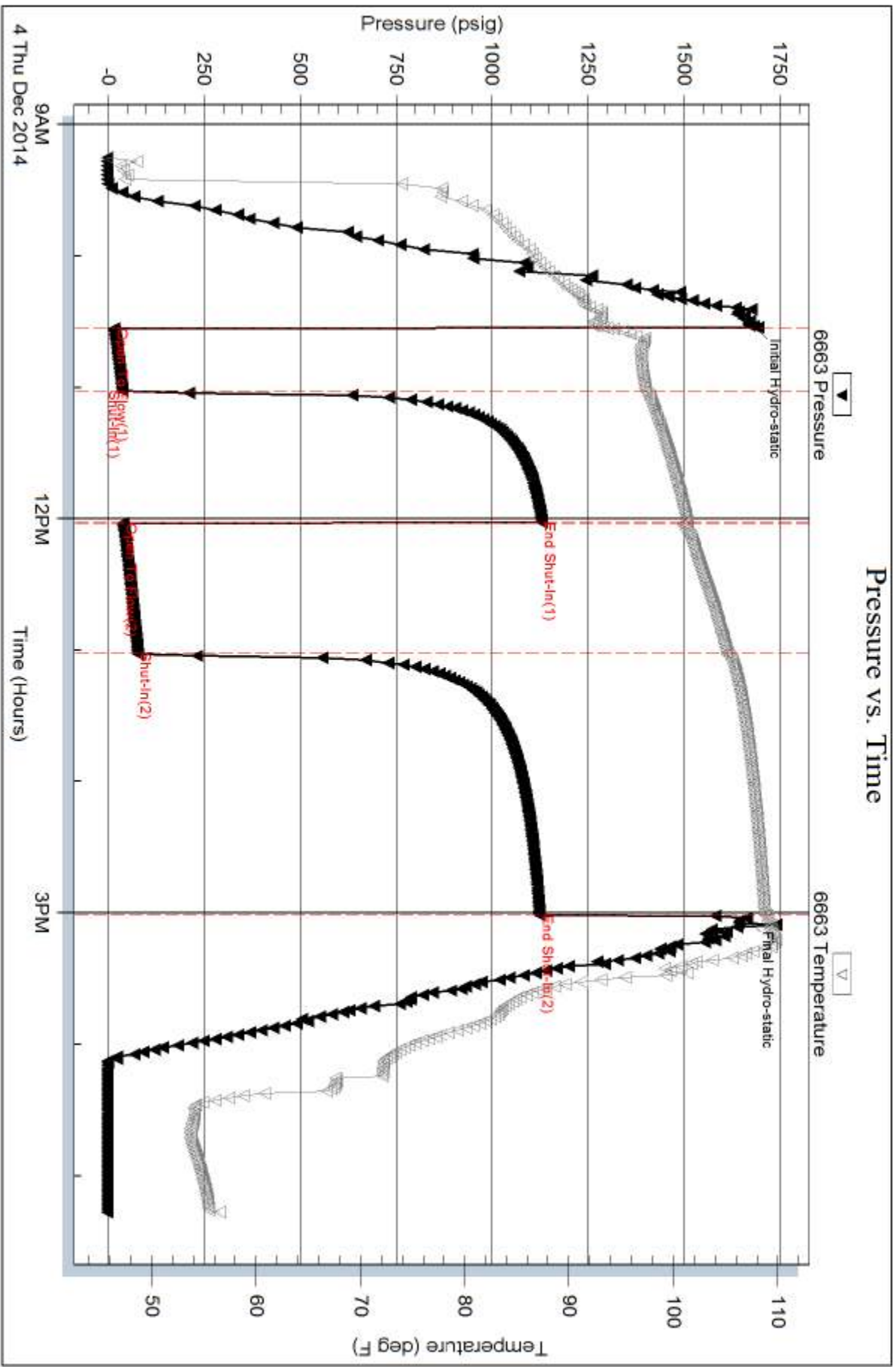
Num Gas Bombs: 0

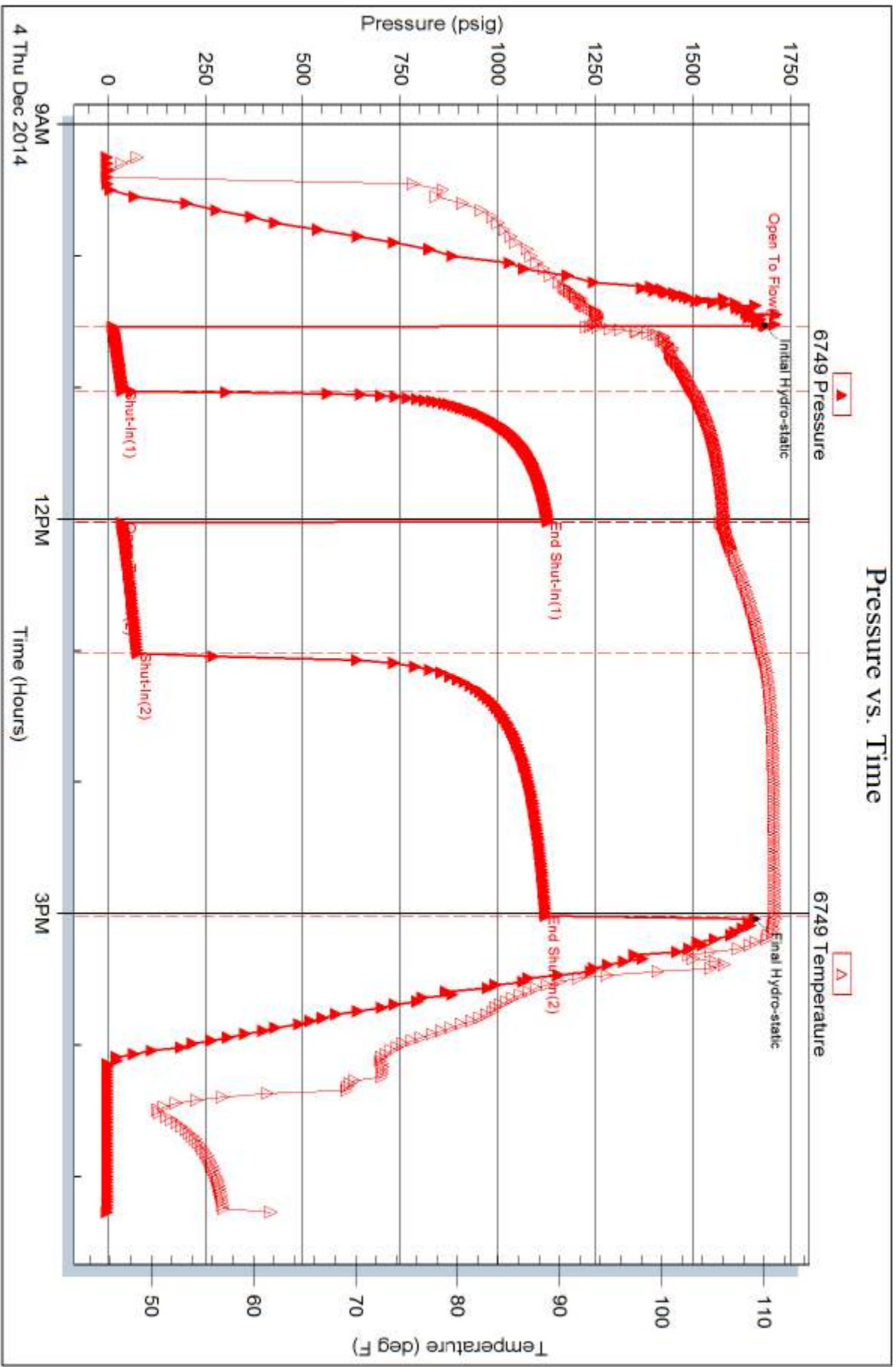
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62029

Well Name & No. Roberts/Phillips Unit # 1-6 Test No. 1 Date 29 NOV 14  
 Company FG Hell Company LLC Elevation 1984 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita, Kansas 67206+2563  
 Co. Rep / Geo. Frank Greenbaum Rig Duke Rig #2  
 Location: Sec. 6 Twp. 19S Rge. 13W Co. Barton State KS

Interval Tested 3214-3265 Zone Tested Lansing/Kansas City  
 Anchor Length 51 Drill Pipe Run 3194 Mud Wt. 9.2  
 Top Packer Depth 3209 Drill Collars Run 0 Vis 67  
 Bottom Packer Depth 3214 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3265 Chlorides 3500 ppm System LCM 0

Blow Description Weak blow/ Blow built to 1/2" inch then died in 14 minutes  
No blow back  
Dead no blow/ Flush tool no help  
No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</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 3 BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1565  Test 1150 T-On Location \_\_\_\_\_  
 (B) First Initial Flow 38  Jars 250 T-Started 3:49 pm  
 (C) First Final Flow 40  Safety Joint 75 T-Open 5:29 pm  
 (D) Initial Shut-In 62  Circ Sub \_\_\_\_\_ T-Pulled 6:59 pm  
 (E) Second Initial Flow 40  Hourly Standby \_\_\_\_\_ T-Out 8:26 pm  
 (F) Second Final Flow 41  Mileage 12 18.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 49  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1554  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1493.60  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1493.60

Approved By \_\_\_\_\_

Our Representative [Signature]

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. 62030

4/10

Well Name & No. Roberts/Phillips Unit #1-6 Test No. 2 Date 30 Nov 14  
 Company FG Hall Company LLC Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206+2563  
 Co. Rep / Geo. Frank Greenbaum Rig Duke Rig #2  
 Location: Sec. 6 Twp. 19S Rge. 13W Co. Barton State KS

Interval Tested 3340-3378 Zone Tested Lansing/Kansas City zone H  
 Anchor Length 38 Drill Pipe Run 3320 Mud Wt. 9.3  
 Top Packer Depth 3335 Drill Collars Run 0 Vis 43  
 Bottom Packer Depth 3340 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3378 Chlorides 5300 ppm System LCM 0  
 Blow Description Weak blow/Blow built to 1/2 inch then died to a weak surface blow  
No blow back  
light surge at open then dead/Flush tool no help  
No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>Mud</u>			<u>100</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 8 BHT 102 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1626  Test 1150 T-On Location 3:00 pm  
 (B) First Initial Flow 30  Jars 250 T-Started 3:47 pm  
 (C) First Final Flow 32  Safety Joint 75 T-Open 5:24 pm  
 (D) Initial Shut-In 707  Circ Sub \_\_\_\_\_ T-Pulled 8:24 pm  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 9:50 pm  
 (F) Second Final Flow 33  Mileage 12 18.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 491  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1600  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1493.60

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1493.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62031

Well Name & No. Roberts/Phillips Unit #1-6 Test No. 3 Date 1 Dec 14  
 Company FG Hall Company LLC Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita, Kansas 67206+2563  
 Co. Rep / Geo. Frank Greenbaum Rig Duke Rig 2  
 Location: Sec. 6 Twp. 19S Rge. 13W Co. Barton State KS

Interval Tested 3378-3406 Zone Tested Lansing/Kansas City zones I & J  
 Anchor Length 28 Drill Pipe Run 3382 Mud Wt. 7.3  
 Top Packer Depth 3373 Drill Collars Run 0 Vis 63  
 Bottom Packer Depth 3378 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3406 Chlorides 5100 ppm System LCM 0  
 Blow Description Weak blow/Blow built to 1 inch / 2 ft slide at open  
No blow back  
Weak surface blow throughout/Blow did not build  
No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>Mud</u>			<u>100</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 <u>8</u>	BHT	Gravity	API RW	@	°F Chlorides ppm

(A) Initial Hydrostatic 1654  
 (B) First Initial Flow 29  
 (C) First Final Flow 29  
 (D) Initial Shut-In 1164  
 (E) Second Initial Flow 30  
 (F) Second Final Flow 30  
 (G) Final Shut-In 1092  
 (H) Final Hydrostatic 1644  
 Initial Open 15  
 Initial Shut-In 40  
 Final Flow 15  
 Final Shut-In 30

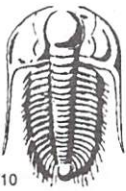
Test 1150  
 Jars 250  
 Safety Joint 75  
 Circ Sub  
 Hourly Standby  
 Mileage 12 18.60  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1493.60

T-On Location 9:00 am  
 T-Started 9:10 am  
 T-Open 10:25 am  
 T-Pulled 12:05 pm  
 T-Out 1:32 pm  
 Comments Head started to  
come loose at 2nd open,  
1st shut in 10 minutes long  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1493.60  
 MP/DST Disc't

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62032

Well Name & No. Robert-Phillips Unit #1-6 Test No. 4 Date 12-2-2014  
 Company F.G. Hall Company LLC Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206-2563  
 Co. Rep / Geo. FRANK Greenbaum - Renee Husted Rig Duke Drilling Rig #2  
 Location: Sec. 6 Twp. 19<sup>s</sup> Rge. 13<sup>w</sup> Co. Barton State KANSAS

Interval Tested 3403-3450 Zone Tested LANSING "K&L"  
 Anchor Length 47 Drill Pipe Run 3374 Mud Wt. 9.2  
 Top Packer Depth 3398 Drill Collars Run NONE Vis 63  
 Bottom Packer Depth 3403 Wt. Pipe Run NONE WL 6.81  
 Total Depth 3450 Chlorides 6100 ppm System LCM 0  
 Blow Description 1<sup>st</sup> OPEN WEAK blow for 8 minutes & DIED  
2<sup>nd</sup> OPEN - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
Rec Total	<u>5</u>	BHT	<u>102</u>	Gravity	API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1705  Test 1150 T-On Location 1:20 A.M.  
 (B) First Initial Flow 36  Jars 10 250 T-Started 1:37 A.M.  
 (C) First Final Flow 38  Safety Joint 75 T-Open 3:17 A.M.  
 (D) Initial Shut-In 459  Circ Sub \_\_\_\_\_ T-Pulled 4:47 A.M.  
 (E) Second Initial Flow 38  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 39  Mileage 12 18.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 272  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1603  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1493.60

Initial Open 1:37 - 3:32 AM 15  
 Initial Shut-In 3:32 - 4:02 AM 30  
 Final Flow 4:02 - 4:17 AM 15  
 Final Shut-In 4:17 - 4:47 AM 30

Sub Total 0  
 Total 1493.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Renee Husted

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62033

Well Name & No. Roberts Phillips Unit #1-6 Test No. 5 Date 12-2-2014  
 Company F.G. HOLL COMPANY L.L.C. Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206-2563  
 Co. Rep / Geo. RAND HUSTAD Rig Pu Ke Drilling Rig #2  
 Location: Sec. 6 Twp. 19S Rge. 15W Co. Barton State KANSAS

Interval Tested Arbuckle 3388-3470 Zone Tested Arbuckle  
 Anchor Length 32 3434-3470 Drill Pipe Run 3393-3405 Mud Wt. 9.3  
 Top Packer Depth 3383 3438-3433 Drill Collars Run None Vis 50  
 Bottom Packer Depth 3388 3470-3438 Wt. Pipe Run None WL 7.2  
 Total Depth 3420 3470 Chlorides 5300 ppm System LCM 530  
 Blow Description 1<sup>st</sup> OPEN weak blow for cementitis & DIEB  
2<sup>nd</sup> OPEN NO blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Very slicky oil spread mud</u>		<u>3%</u>		<u>97%</u>
	<u>6 inch of blow D.I. at top</u>				
	<u>Good show of free oil between</u>				
	<u>The tools</u>				

Rec Total 20 BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1687</u>	<input type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:10 pm</u>
(B) First Initial Flow <u>30</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>4:15 pm</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:41 pm</u>
(D) Initial Shut-In <u>1096</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:11 P.M.</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:34 P.M.</u>
(F) Second Final Flow <u>41</u>	<input type="checkbox"/> Mileage <u>18.60</u>	Comments _____
(G) Final Shut-In <u>1042</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1685</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>4:41</u> <u>5:56</u> <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>8:56</u> <u>6:56</u> <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>6:56</u> <u>7:11 pm</u> <u>15</u>	<input type="checkbox"/> Day Standby _____	Total <u>1493.60</u>
Final Shut-In <u>7:11</u> <u>8:11 pm</u> <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1493.60</u>	

Approved By \_\_\_\_\_

Our Representative Ann Budig

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 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. 62034

Well Name & No. Robert & Phillips Unit #1-6 Test No. 6 Date 12-3-2014  
 Company F.G. HOLL COMPANY L.L.C. Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206-2563  
 Co. Rep / Geo. Rene Husted Rig Duke Drilling Rig # 2  
 Location: Sec. 6 Twp. 19<sup>s</sup> Rge. 13<sup>w</sup> Co. Barton State Kansas

Interval Tested 3466-3475 Zone Tested Arbuckle  
 Anchor Length 9 Drill Pipe Run 3439 Mud Wt. 9.31  
 Top Packer Depth 3461 Drill Collars Run NONE Vis 50  
 Bottom Packer Depth 3466 Wt. Pipe Run NONE WL 7.31  
 Total Depth 3475 Chlorides 5300 ppm System LCM 0  
 Blow Description 1<sup>st</sup> OPEN Weak building blow built to 9 inches  
2<sup>nd</sup> OPEN Weak building blow built to the BOB in 40 minutes

Rec	Feet of	%gas	%oil	%water	%mud
120	Gas in the Pipe				
120	CLEAN Gassy oil Gravity 34				
60	Muddy Gassy oil	5	55	60	0
60	Muddy Gassy oil	5	25	70	0
60	Muddy Gassy oil	5	15	80	0

Rec Total 300 BHT 106 Gravity 34 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic	<u>1678</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>5:20 A.M</u>
(B) First Initial Flow	<u>76</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>5:29 A.M</u>
(C) First Final Flow	<u>111</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>6:36 A.M</u>
(D) Initial Shut-In	<u>1045</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>10:36 A.M</u>
(E) Second Initial Flow	<u>104</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>12:15 P.M</u>
(F) Second Final Flow	<u>142</u>	<input checked="" type="checkbox"/> Mileage	<u>12</u> 18.60	Comments	
(G) Final Shut-In	<u>981</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1645</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>5:36 - 7:06 A.M</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>7:06 - 8:06 A.M</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>8:06 - 9:06 A.M</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>9:06 - 10:36 A.M</u>	<input type="checkbox"/> Day Standby		Total	<u>1493.60</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1493.60</u>		

Approved By \_\_\_\_\_ Our Representative Ben Budig  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62035

Well Name & No. Robert & Phillips Unit #1-6 Test No. 7 Date 12-3-2014  
 Company F. G. Holl Company LLC Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206-2563  
 Co. Rep / Geo. RENE HUSTEAD Rig DUKE Drilling Rig #2  
 Location: Sec. 6 Twp. 19<sup>S</sup> Rge. 13<sup>W</sup> Co. BARTON State KANSAS

Interval Tested 3475-3481 Zone Tested 2454 ARBUCKLE  
 Anchor Length 9 Drill Pipe Run NONE 3454 Mud Wt. 9.3  
 Top Packer Depth NONE Drill Collars Run NONE Vis 50  
 Bottom Packer Depth 3475 Wt. Pipe Run NONE WL 7.2  
 Total Depth 3481 Chlorides 5300 ppm System LCM 0  
 Blow Description 1<sup>ST</sup> OPEN WEAK flow for 11 minutes & DIED  
2<sup>ND</sup> OPEN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>VERY SLIGHTLY oil cut mud</u>	<u>0</u>	<u>2</u>	<u>98</u>	<u>0</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 1 BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1754  Test 1150 T-On Location 8:00 pm  
 (B) First Initial Flow 14  Jars 250 T-Started 8:19 P.M  
 (C) First-Final Flow 15  Safety Joint 75 T-Open 9:48 P.M  
 (D) Initial Shut-In 1072  Circ Sub \_\_\_\_\_ T-Pulled 12:18 A.M  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_ T-Out 1:51 A.M  
 (F) Second Final Flow 16  Mileage 12 18.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1016  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1672  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1493.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1493.60

Initial Open 9:48 - 10:03 pm 15  
 Initial Shut-In 10:03 11:03 pm 60  
 Final Flow 11:03 11:48 pm 45  
 Final Shut-In 11:48 - 12:18 A.M 60

Approved By \_\_\_\_\_ Our Representative Deane Budy

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62036

Well Name & No. Robert-Phillips Unit # 1-6 Test No. 8 Date 12-4-2014  
 Company F.G. Hall Company LLC Elevation 1884 KB 1876 GL  
 Address 9431 East Central Suite 100 Wichita Kansas 67206-2563  
 Co. Rep / Geo. RAND HUSTON Rig Duke Drilling Rig #2  
 Location: Sec. 6 Twp. 19<sup>s</sup> Rge. 13<sup>w</sup> Co. Barton State KANSAS

Interval Tested 3478-3486 Zone Tested ARBuckle  
 Anchor Length 8 Drill Pipe Run 3457 Mud Wt. 9.4  
 Top Packer Depth NOPE Drill Collars Run NOPE Vis 47  
 Bottom Packer Depth 3478 Wt. Pipe Run NOPE WL 7.6  
 Total Depth 3486 Chlorides 5400 ppm System LCM 0  
 Blow Description 1<sup>st</sup> OPEN - WEAK build blow built to 8 inches  
2<sup>nd</sup> OPEN - WEAK building blow built to 12 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>WATER with a seam of oil</u>				
	<u>Chlorides 14,000</u>				

Rec Total 125 BHT 111 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides 14000 ppm

(A) Initial Hydrostatic <u>1682</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:05 AM</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:14 AM</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:31 AM</u>
(D) Initial Shut-In <u>1130</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:01 PM</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:16 PM</u>
(F) Second Final Flow <u>77</u>	<input checked="" type="checkbox"/> Mileage <u>12</u> 18.60	Comments _____
(G) Final Shut-In <u>1124</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1664</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1493.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1493.60</u>	

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_  
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