

## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene Husted

### **Kufeld #1-19**

#### **19-19s18w Barton**

Start Date: 2014.09.08 @ 05:30:00

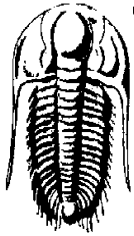
End Date: 2014.09.08 @ 00:00:00

Job Ticket #: 60368                      DST #: 2

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

Printed: 2014.09.08 @ 10:16:32





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene Husted

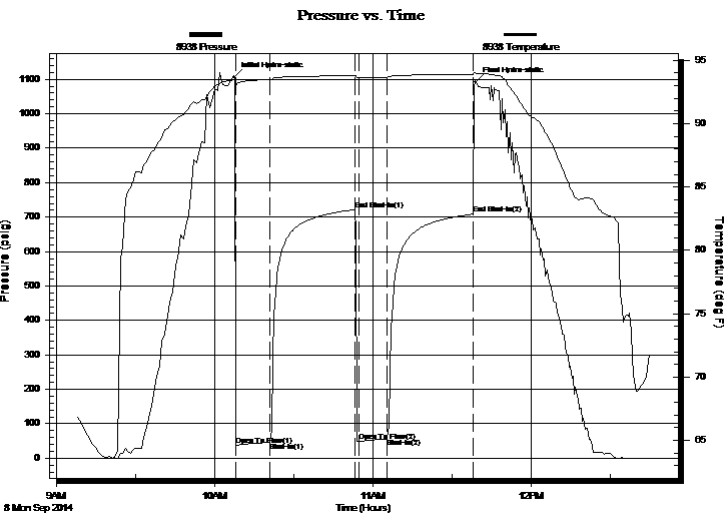
**19-19s18w Barton**  
**Kufeld #1-19**  
 Job Ticket: 60368 **DST#: 2**  
 Test Start: 2014.09.08 @ 05:30:00

## GENERAL INFORMATION:

Formation: **Cottonwood**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:26:00  
 Time Test Ended: 00:00:00  
 Interval: **2190.00 ft (KB) To 2240.00 ft (KB) (TVD)**  
 Total Depth: 2240.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S5 20 Miles  
 Reference Elevations: 1915.00 ft (KB)  
 1907.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8938 Outside**  
 Press@RunDepth: 708.60 psig @ 2237.15 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.09.08 End Date: 2014.09.08 Last Calib.: 2014.09.08  
 Start Time: 09:06:58 End Time: 12:44:58 Time On Btm: 2014.09.08 @ 10:07:28  
 Time Off Btm: 2014.09.08 @ 11:38:58

**TEST COMMENT:** 1st Opening 15 Min utes-Weak building blow built to 2 inches  
 1st Shut-In 30 Minutes  
 2nd Opening 15 Minutes Weak building blow built to 1 inch  
 2nd Shut-In 30 Minutes



## PRESSURE SUMMARY

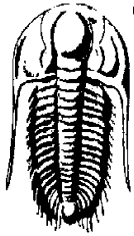
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1106.56	93.46	Initial Hydro-static
1	37.46	92.99	Open To Flow (1)
14	46.57	93.50	Shut-In(1)
46	721.02	93.80	End Shut-In(1)
47	48.41	93.63	Open To Flow (2)
58	56.31	93.66	Shut-In(2)
91	708.60	93.89	End Shut-In(2)
92	1092.99	93.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Drilling Mud	0.70

## Gas Rates

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



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**TOOL DIAGRAM**

F.G. Holl Company LLC

**19-19s18w Barton**

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**Kufeld #1-19**

Job Ticket: 60368

**DST#: 2**

ATTN: Rene Husted

Test Start: 2014.09.08 @ 05:30:00

## Tool Information

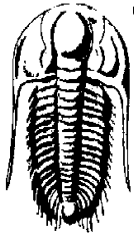
Drill Pipe:	Length: 2186.00 ft	Diameter: 3.80 inches	Volume: 30.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer:	2000065 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 30.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	2190.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.15 ft				
Tool Length:	78.15 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			2167.00	
Hydraulic Tool	5.00			2172.00	
Jars	6.00			2178.00	
Safety Joint	2.00			2180.00	
Top Packer	5.00			2185.00	
Packer	5.00			2190.00	28.00 Bottom Of Top Packer
Anchor	5.00			2195.00	
Change Over Sub	0.75			2195.75	
Drill Pipe	31.65			2227.40	
Change Over Sub	0.75			2228.15	
Anchor	7.00			2235.15	
Recorder	1.00	8875	Inside	2236.15	
Recorder	1.00	8938	Outside	2237.15	
Bull Plug	3.00			2240.15	50.15 Anchor Tool

**Total Tool Length: 78.15**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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**Kufeld #1-19**

Job Ticket: 60368

**DST#: 2**

ATTN: Rene Husted

Test Start: 2014.09.08 @ 05:30:00

## Mud and Cushion Information

Mud Type: STARCH

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 18.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 27000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Drilling Mud	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

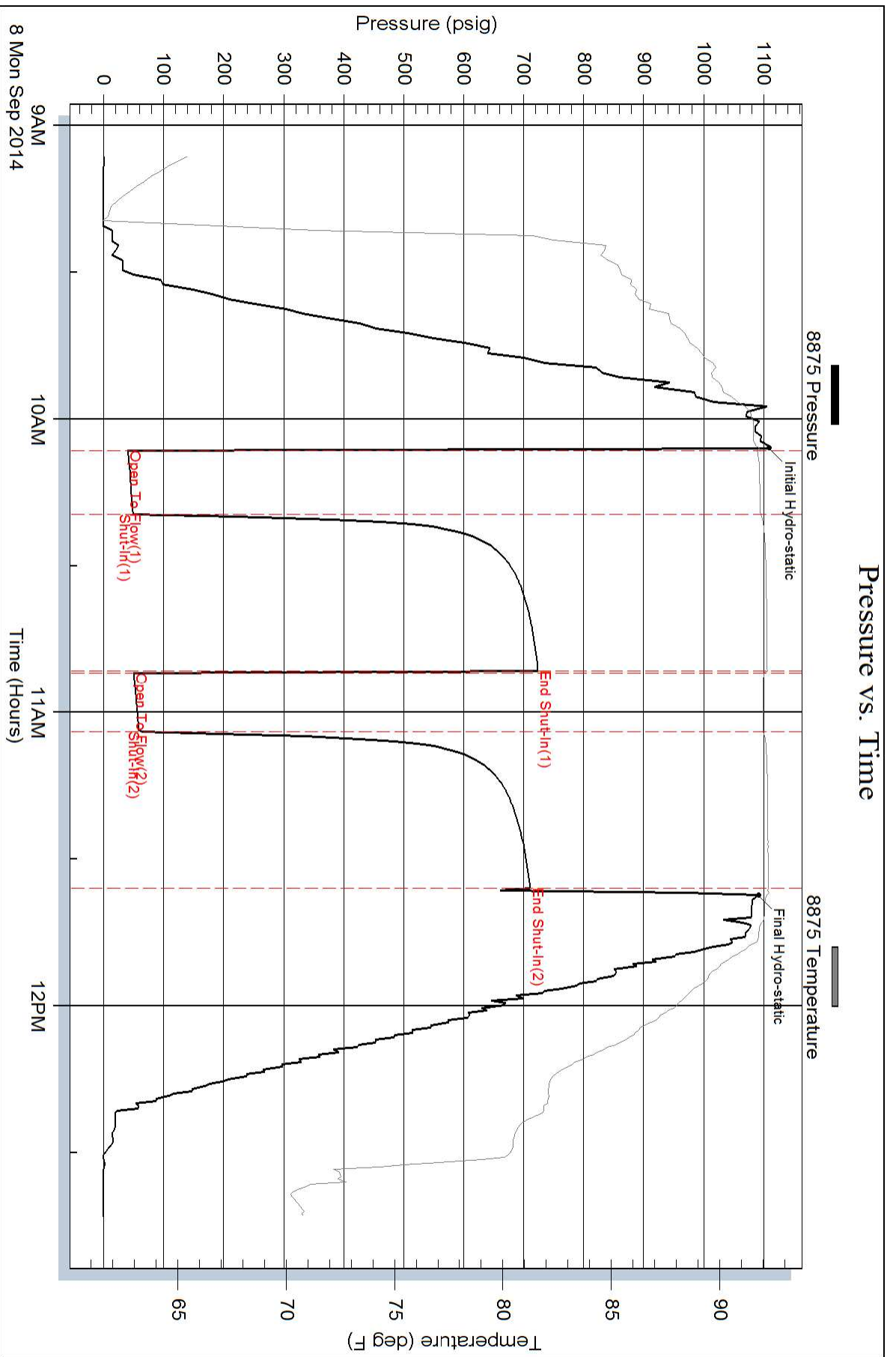
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

