



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: 2014.09.11 @ 09:20:00

End Date: 2014.09.11 @ 13:43:30

Job Ticket #: 60371 DST #: 5

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

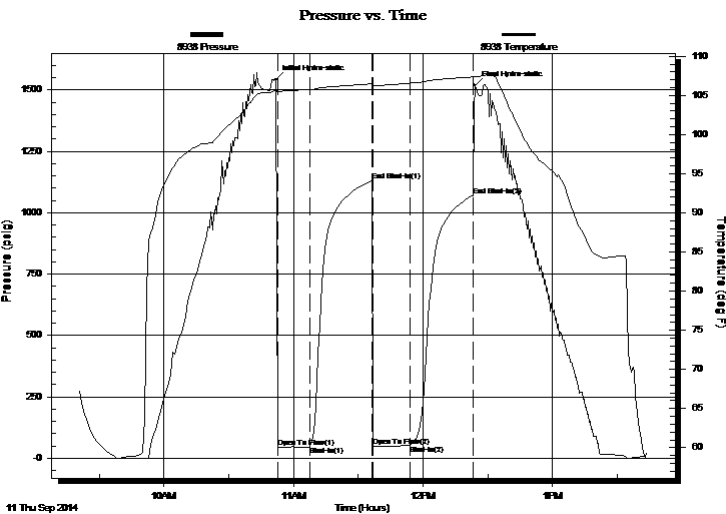
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60371 **DST#: 5**
 Test Start: 2014.09.11 @ 09:20:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:52:30
 Time Test Ended: 13:43:30
 Interval: **3135.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4-20 miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
 Press@RunDepth: 52.92 psig @ 3169.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.11 End Date: 2014.09.11 Last Calib.: 2014.09.12
 Start Time: 09:20:00 End Time: 13:43:30 Time On Btm: 2014.09.11 @ 10:52:00
 Time Off Btm: 2014.09.11 @ 12:24:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes-Weak surface blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.91	105.69	Initial Hydro-static
1	44.18	105.39	Open To Flow (1)
16	48.23	105.74	Shut-In(1)
45	1129.80	106.51	End Shut-In(1)
45	47.82	106.15	Open To Flow (2)
62	52.92	106.56	Shut-In(2)
91	1070.17	107.36	End Shut-In(2)
92	1518.46	107.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Very slightly oil cut mud 6%Oil 94%Mud	0.70

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2014.09.11 @ 09:20:00

Tool Information

Drill Pipe:	Length: 3122.00 ft	Diameter: 3.80 inches	Volume: 43.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 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: 80000.00 lb
			<u>Total Volume: 43.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3135.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 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			3112.00	
Hydraulic Tool	5.00			3117.00	
Jars	6.00			3123.00	
Safety Joint	2.00			3125.00	
Top Packer	5.00			3130.00	
Packer	5.00			3135.00	28.00 Bottom Of Top Packer
Anchor	33.00			3168.00	
Recorder	1.00	8938	Inside	3169.00	
Recorder	1.00	8875	Outside	3170.00	
Bull Plug	3.00			3173.00	38.00 Anchor Tool
Total Tool Length:	66.00				



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FLUID SUMMARY

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Test Start: 2014.09.11 @ 09:20:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Very slightly oil cut mud 6%Oil 94%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:

Serial #: 8938

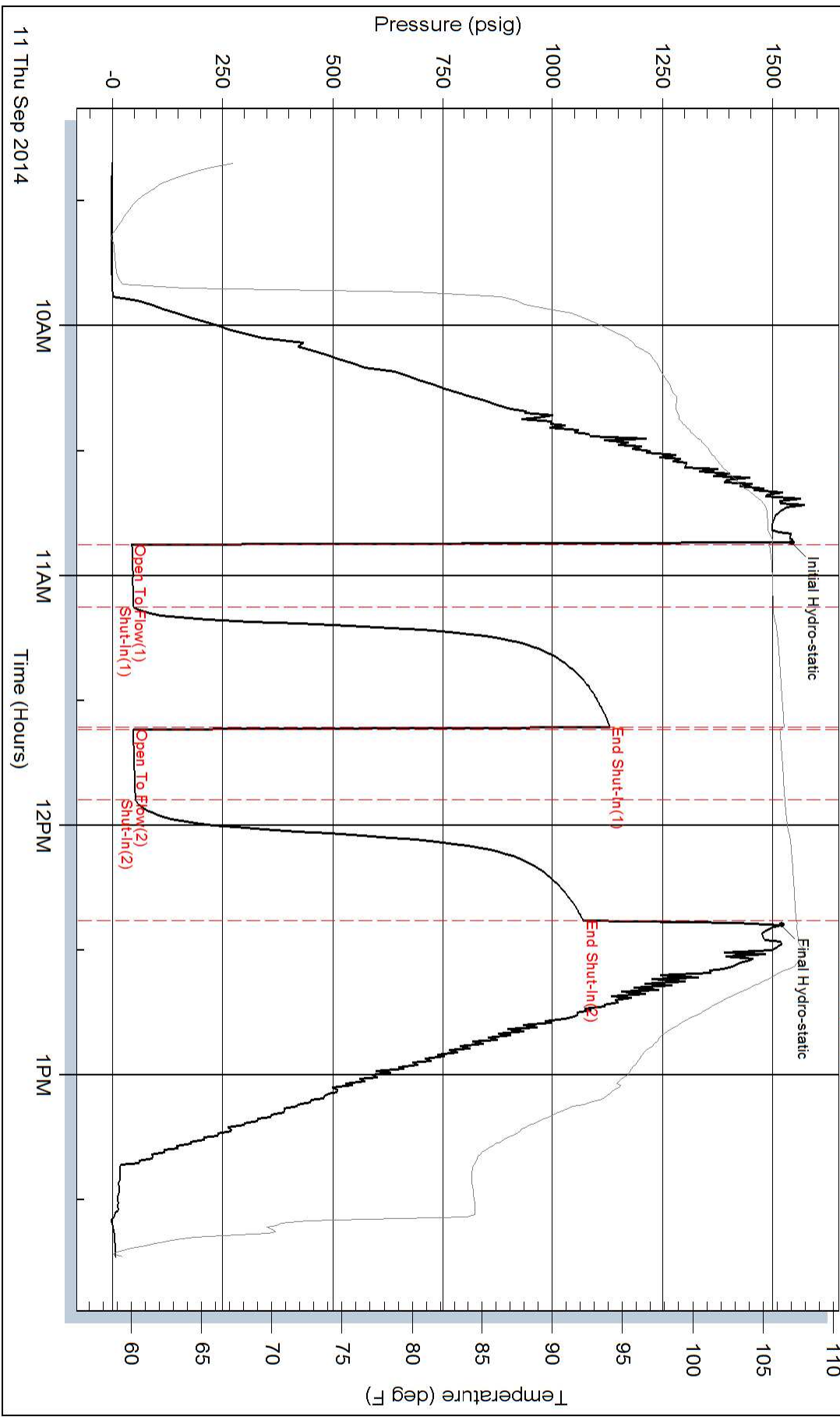
Inside

F.G. Holl Company LLC

Kufeld #1-19

DST Test Number: 5

Pressure vs. Time



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