



## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company L.L.C.**

9431 East Central Suite100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **McDonald #1-19**

### **19-20s-13w Barton**

Start Date: 2013.07.23 @ 00:00:00

End Date: 2013.07.23 @ 00:00:00

Job Ticket #: 17101                      DST #: 5

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.07.23 @ 22:53:36

F.G. Holl Company L.L.C.

19-20s-13w Barton

McDonald #1-19

DST # 5

Kansas City "K&L"

2013.07.23



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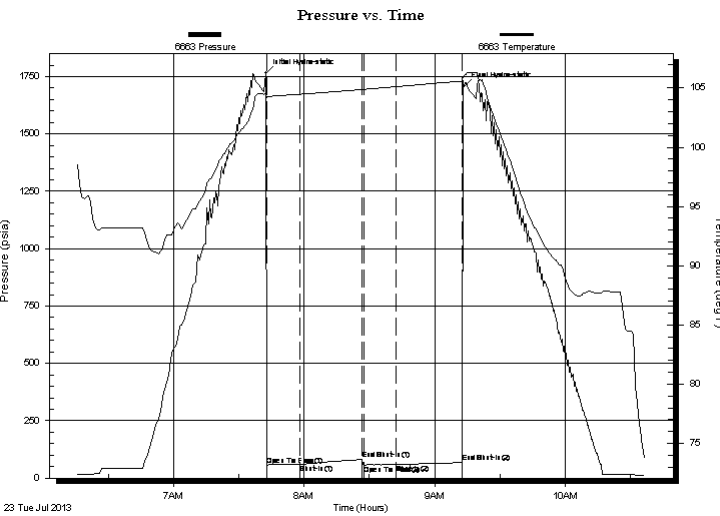
**19-20s-13w Barton**  
**McDonald #1-19**  
 Job Ticket: 17101 **DST#: 5**  
 Test Start: 2013.07.23 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "K&L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Interval: **3430.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
 Reference Elevations: 1888.00 ft (KB)  
 Total Depth: 3470.00 ft (KB) (TVD) 1880.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6663 Inside**  
 Press@RunDepth: 67.78 psia @ 3466.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23  
 Start Time: 06:15:00 End Time: 10:36:30 Time On Btm: 2013.07.23 @ 07:42:30  
 Time Off Btm: 2013.07.23 @ 09:13:30

**TEST COMMENT:** 1st Opening 15 Minutes weak surface blow for 3 minutes and died  
 1st Shut-In 30 Minutes No blow back  
 2nd Opening 15 Minutes No blow  
 2nd Shut-In 30 Minutes-No blow back



## PRESSURE SUMMARY

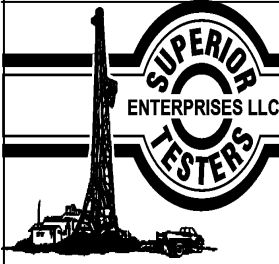
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1764.72	104.52	Initial Hydro-static
1	57.51	104.22	Open To Flow (1)
16	58.60	104.47	Shut-In(1)
44	81.02	104.88	End Shut-In(1)
45	56.43	104.89	Open To Flow (2)
60	58.84	105.11	Shut-In(2)
90	67.78	105.59	End Shut-In(2)
91	1707.97	106.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	drilling mud	0.28

## Gas Rates

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



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**McDonald #1-19**

Job Ticket: 17101

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "K&L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3430.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6748 Outside**

Press@RunDepth: 69.20 psia @ 3467.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.23

End Date: 2013.07.23

Last Calib.: 2013.07.23

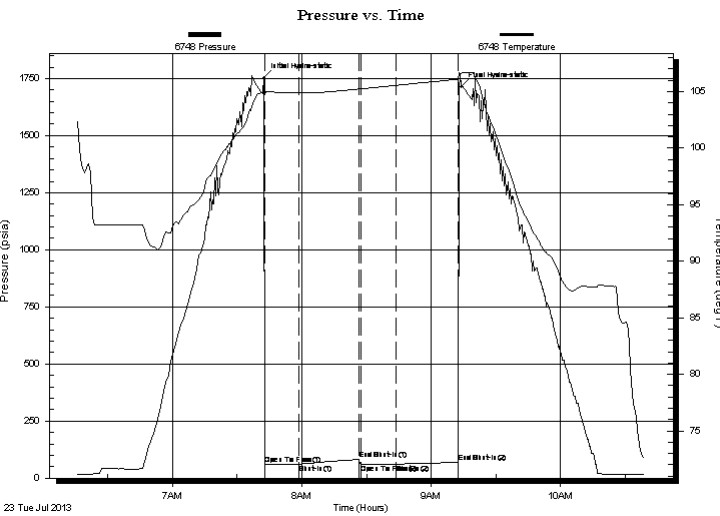
Start Time: 06:15:00

End Time: 10:39:00

Time On Btm: 2013.07.23 @ 07:42:30

Time Off Btm: 2013.07.23 @ 09:14:00

**TEST COMMENT:** 1st Opening 15 Minutes weak surface blow for 3 minutes and died  
 1st Shut-In 30 Minutes No blow back  
 2nd Opening 15 Minutes No blow  
 2nd Shut-In 30 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1752.79	104.88	Initial Hydro-static
1	60.68	104.76	Open To Flow (1)
16	61.41	104.86	Shut-In(1)
44	81.98	105.23	End Shut-In(1)
45	59.57	105.24	Open To Flow (2)
61	61.11	105.55	Shut-In(2)
90	69.20	106.09	End Shut-In(2)
92	1712.84	106.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	drilling mud	0.28

## Gas Rates

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



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**TOOL DIAGRAM**

F.G. Holl Company L.L.C.  
 9431 East Central Suite100  
 Wichita, Kansas 67206-2563  
 ATTN: Ryan Greenbaum

**19-20s-13w Barton**  
**McDonald #1-19**  
 Job Ticket: 17101      **DST#: 5**  
 Test Start: 2013.07.23 @ 00:00:00

**Tool Information**

Drill Pipe:	Length: 3431.00 ft	Diameter: 3.80 inches	Volume: 48.13 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: 48.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3430.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 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			3407.00	
Hydraulic Tool	5.00			3412.00	
Safety Joint	2.00			3414.00	
Jars	6.00			3420.00	
Packer	5.00			3425.00	28.00      Bottom Of Top Packer
Packer	5.00			3430.00	
Anchor	35.00			3465.00	
Recorder	1.00	6663	Inside	3466.00	
Recorder	1.00	6748	Outside	3467.00	
Bullnose	3.00			3470.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.40 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	drilling mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

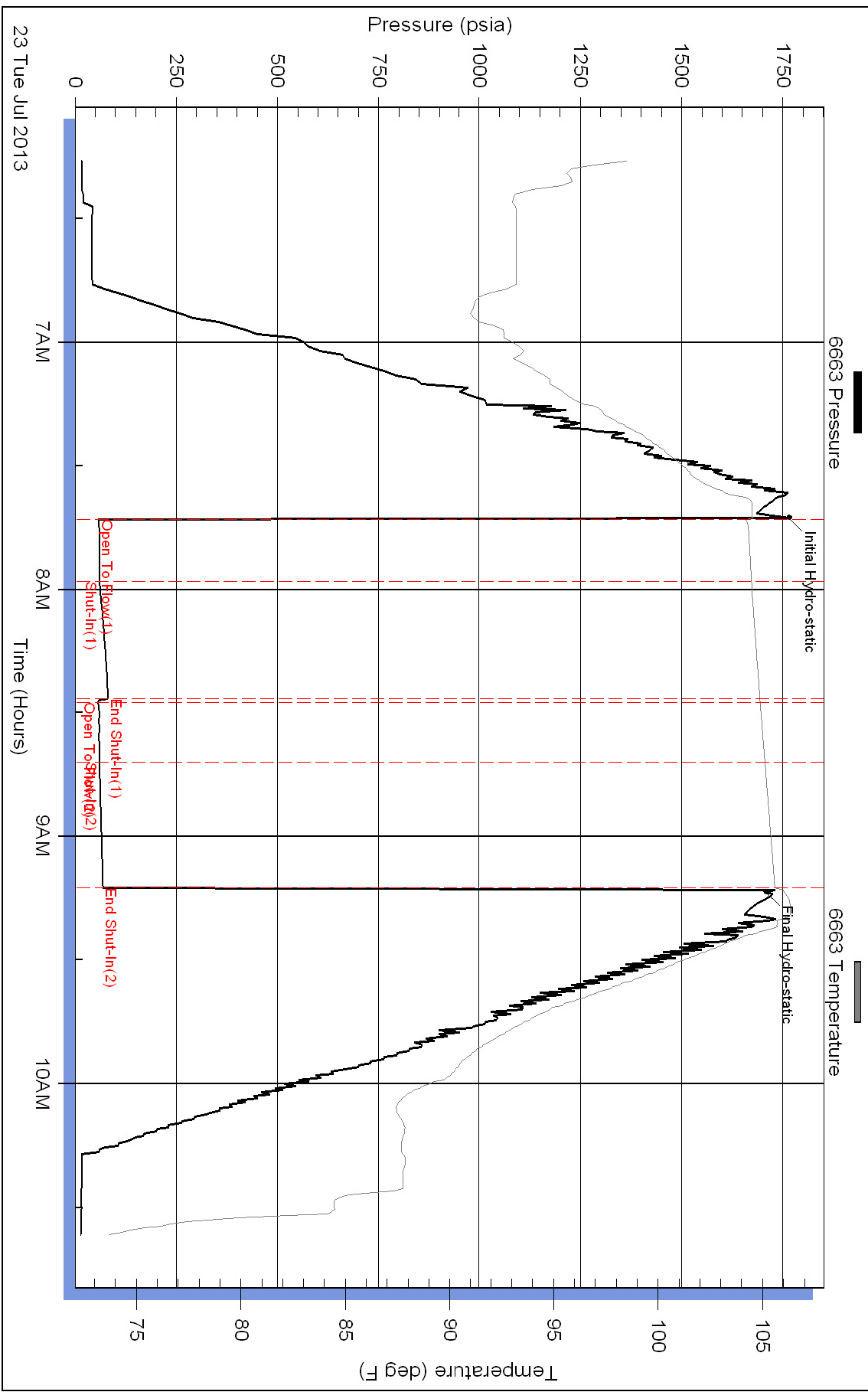
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

