



## 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**

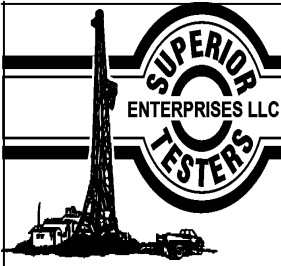
Start Date: 2013.07.25 @ 00:00:00

End Date: 2013.07.25 @ 00:00:00

Job Ticket #: 17106                      DST #: 10

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

Printed: 2013.07.26 @ 04:27:28



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 Wichita, Kansas 67206-2563  
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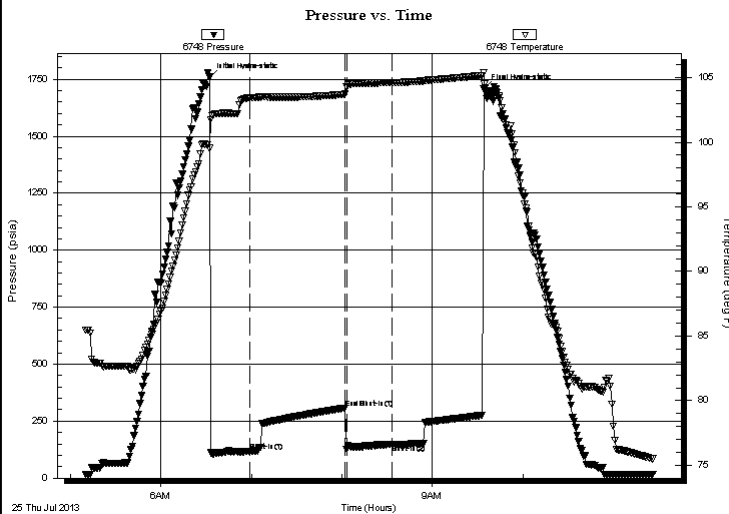
**19-20s-13w Barton**  
**McDonald #1-19**  
 Job Ticket: 17106 **DST#: 10**  
 Test Start: 2013.07.25 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 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: **3443.00 ft (KB) To 3535.00 ft (KB) (TVD)**  
 Reference Elevations: 1888.00 ft (KB)  
 Total Depth: 3535.00 ft (KB) (TVD) 1880.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6748 Inside**  
 Press@RunDepth: 307.96 psia @ 3532.88 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.25 End Date: 2013.07.25 Last Calib.: 2013.07.26  
 Start Time: 02:30:00 End Time: 11:26:30 Time On Btm: 2013.07.25 @ 06:32:00  
 Time Off Btm: 2013.07.25 @ 09:34:30

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 10 inches into the water  
 1st Shut-in 60 Minutes no blow back  
 2nd Opening 30 Minutes-Weak blow built to 4 inches into the water decreased and died  
 2nd Shut-In 60 Minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1759.36	99.55	Initial Hydro-static
27	117.98	103.45	Shut-In(1)
90	307.96	103.72	End Shut-In(1)
91	126.16	104.27	Open To Flow (1)
121	148.63	104.62	Shut-In(2)
183	1708.45	104.52	Final Hydro-static

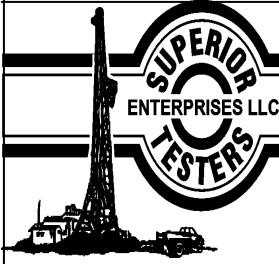
## Recovery

Length (ft)	Description	Volume (bbl)
100.00	drilling mud	1.40

## Gas Rates

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





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**TOOL DIAGRAM**

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**McDonald #1-19**

Job Ticket: 17106

**DST#: 10**

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

## Tool Information

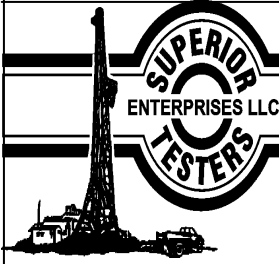
Drill Pipe:	Length: 3433.00 ft	Diameter: 3.80 inches	Volume: 48.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3443.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.88 ft			
Tool Length:	120.88 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3420.00	
Hydraulic Tool	5.00			3425.00	
Safety Joint	2.00			3427.00	
Jars	6.00			3433.00	
Packer	5.00			3438.00	28.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Change Over Sub	0.75			3443.75	
Drill Pipe	62.38			3506.13	
Change Over Sub	0.75			3506.88	
Anchor	24.00			3530.88	
Recorder	1.00	6663	Inside	3531.88	
Recorder	1.00	6748	Inside	3532.88	
Bullnose	3.00			3535.88	92.88 Bottom Packers & Anchor

**Total Tool Length: 120.88**



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## FLUID SUMMARY

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**DST#: 10**

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 9.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 8200.00 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
100.00	drilling mud	1.403

Total Length: 100.00 ft      Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

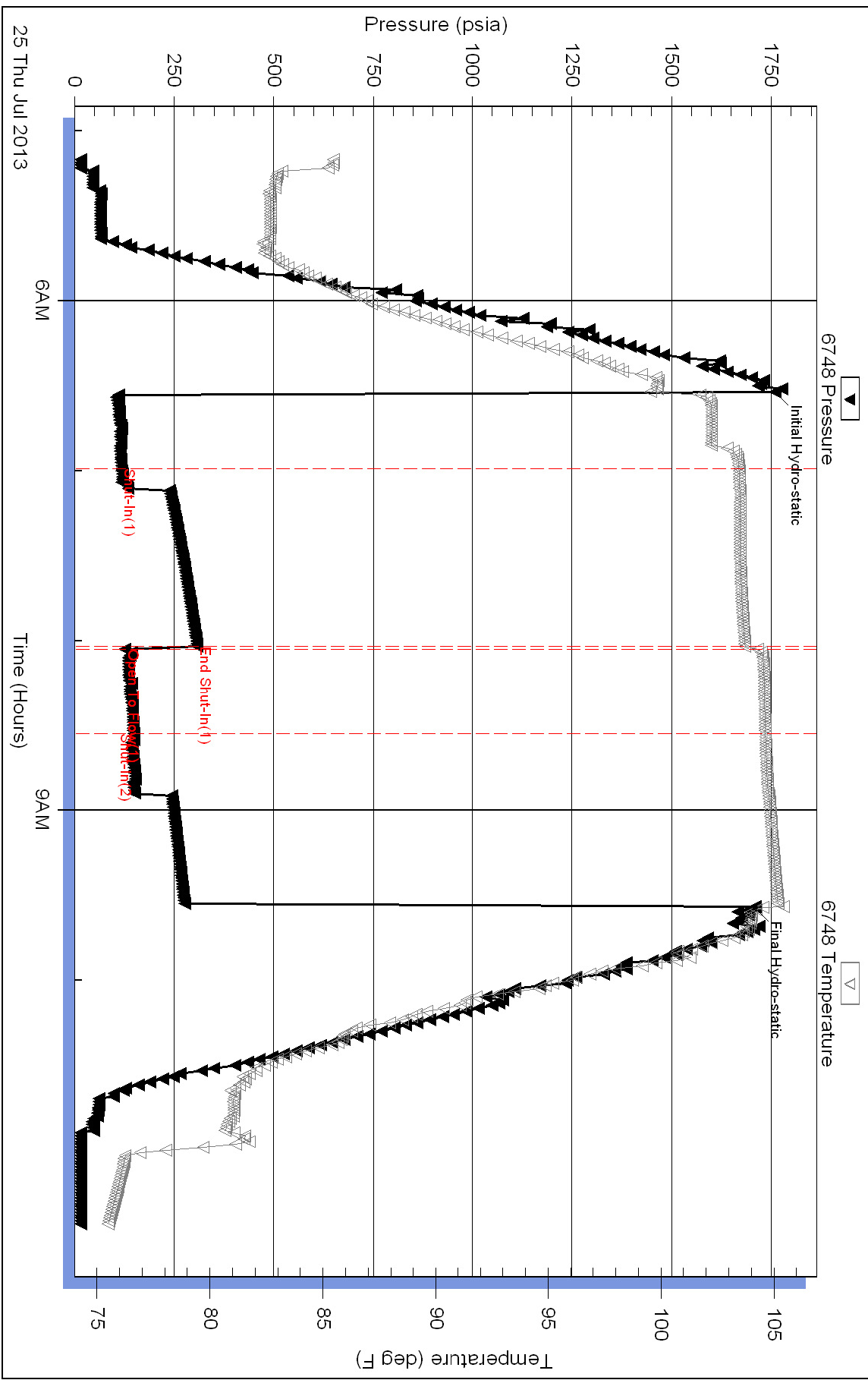
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

