



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: 2013.07.21 @ 00:00:00

End Date: 2013.07.21 @ 00:00:00

Job Ticket #: 17748 DST #: 2

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

Printed: 2013.07.22 @ 00:15:30



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 9431 East Central Suite100
 Wichita, Kansas 67206-2563
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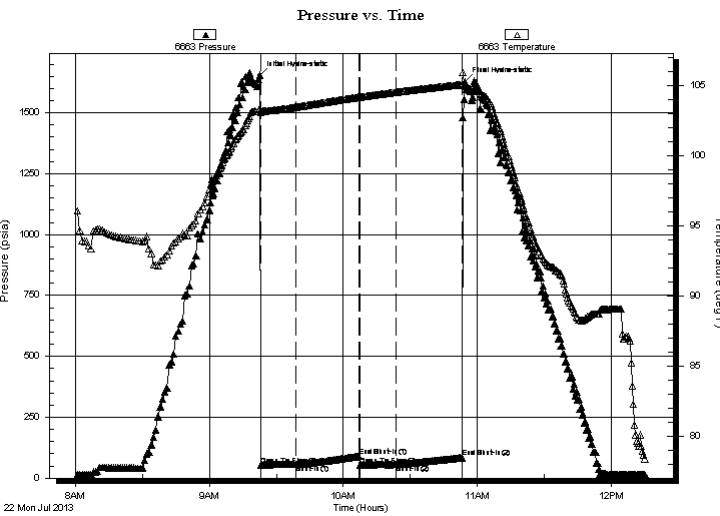
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17748 **DST#:2**
 Test Start: 2013.07.21 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "C,D,E &**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-14
Interval: 3280.00 ft (KB) To 3326.00 ft (KB) (TVD) Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3290.00 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: 83.95 psia @ 3322.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.22
 Start Time: 08:00:00 End Time: 12:15:00 Time On Btm: 2013.07.22 @ 09:22:30
 Time Off Btm: 2013.07.22 @ 10:54:30

TEST COMMENT: 1st Opening 15 Minutes Weak surface blow for 11 minutes and died
 1st Shut-In 30 Minutes No blow Back
 2nd Opening 15 Minutes Weak surface blow for 3 minutes and died
 2nd Shut-In 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1654.18	103.32	Initial Hydro-static
1	54.72	103.09	Open To Flow (1)
16	57.45	103.44	Shut-In(1)
45	90.15	104.17	End Shut-In(1)
45	51.83	104.16	Open To Flow (2)
61	56.37	104.51	Shut-In(2)
91	83.95	105.06	End Shut-In(2)
92	1626.99	104.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.21

* Recovery from multiple tests

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2013.07.21 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3272.00 ft	Diameter: 3.80 inches	Volume: 45.90 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: lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 45.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3280.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			3257.00	
Hydraulic Tool	5.00			3262.00	
Safety Joint	2.00			3264.00	
Jars	6.00			3270.00	
Packer	5.00			3275.00	28.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Anchor	41.00			3321.00	
Recorder	1.00	6663	Inside	3322.00	
Recorder	1.00	6748	Outside	3323.00	
Bullnose	3.00			3326.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 6700.00 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
15.00	Drilling Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

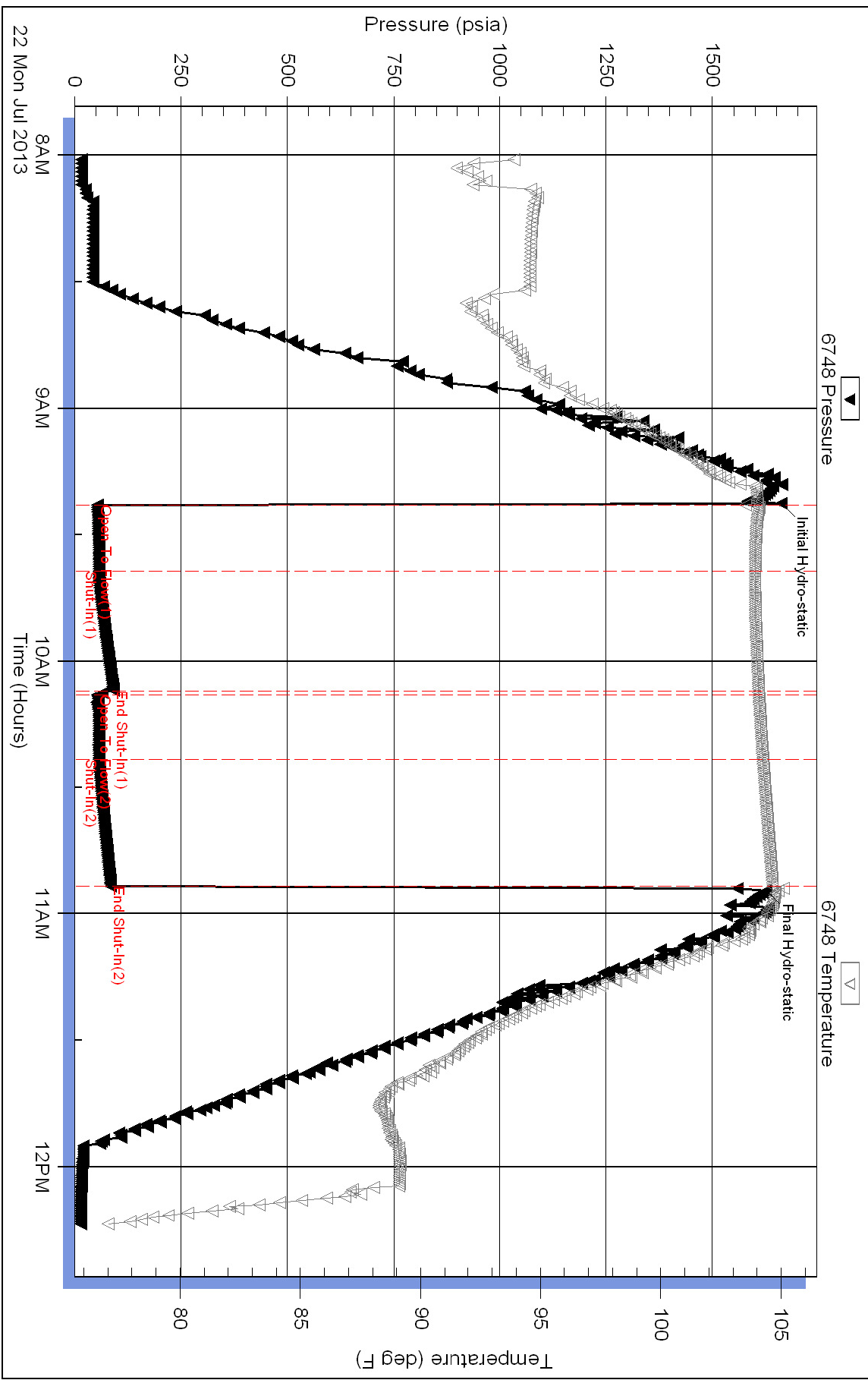
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

