



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206 2563

ATTN: Rene Husted

Farthing #2-32

32-21s-15w Pawnee

Start Date: 2013.09.04 @ 00:00:00

End Date: 2013.09.04 @ 00:00:00

Job Ticket #: 17082 DST #: 1

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

Printed: 2013.09.05 @ 14:42:59



DRILL STEM TEST REPORT

F.G.Holl Company LLC

32-21s-15w Pawnee

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Job Ticket: 17082

DST#: 1

ATTN: Rene Husted

Test Start: 2013.09.04 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "B"**

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: 3536.00 ft (KB) To 3551.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3551.00 ft (KB) (TVD)

1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6148 Outside

Press@RunDepth: 1661.05 psia @ 3548.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.05

End Date:

2013.09.05

Last Calib.:

2013.09.05

Start Time:

02:09:37

End Time:

07:25:37

Time On Btm:

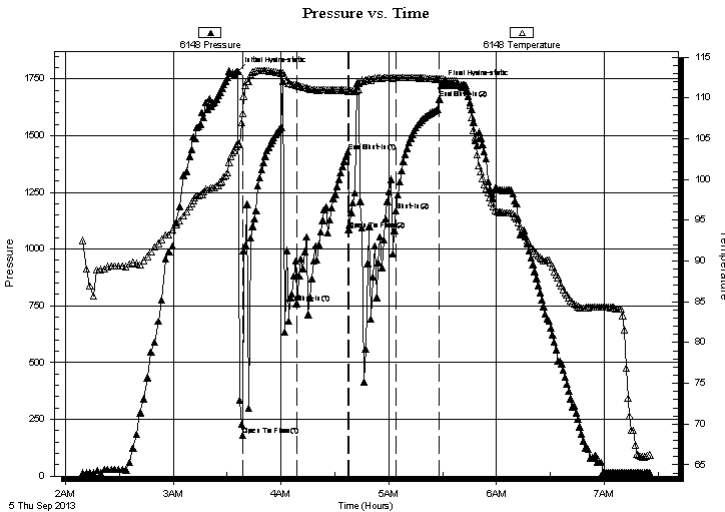
2013.09.05 @ 03:36:07

Time Off Btm:

2013.09.05 @ 05:29:07

TEST COMMENT: 1st Openig 30 Minutes-good blow died off flushed tool good surge died off
1st Shut-In 30 Minutes -No blow back
2nd Opening 15 Minutes-No blow flushed tool good surge built to 3 inches and died
2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1780.85	104.44	Initial Hydro-static
3	179.51	108.14	Open To Flow (1)
33	760.82	111.50	Shut-In(1)
61	1427.91	110.95	End Shut-In(1)
62	1087.12	110.77	Open To Flow (2)
88	1167.63	112.47	Shut-In(2)
112	1661.05	112.31	End Shut-In(2)
113	1722.80	112.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	thick heavy mud	2.52

Gas Rates

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



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TOOL DIAGRAM

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DST#: 1

ATTN: Rene Husted

Test Start: 2013.09.04 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3531.00 ft	Diameter: 3.80 inches	Volume: 49.53 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: 54000.00 lb
			<u>Total Volume: 49.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3536.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 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			3513.00	
Hydraulic Tool	5.00			3518.00	
Safety Joint	2.00			3520.00	
Jars	6.00			3526.00	
Packer	5.00			3531.00	28.00 Bottom Of Top Packer
Packer	5.00			3536.00	
Anchor	10.00			3546.00	
Recorder	1.00	6663	Inside	3547.00	
Recorder	1.00	6148	Outside	3548.00	
Bullnose	3.00			3551.00	15.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



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FLUID SUMMARY

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Job Ticket: 17082

DST#: 1

ATTN: Rene Husted

Test Start: 2013.09.04 @ 00:00:00

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: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	thick heavy mud	2.525

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

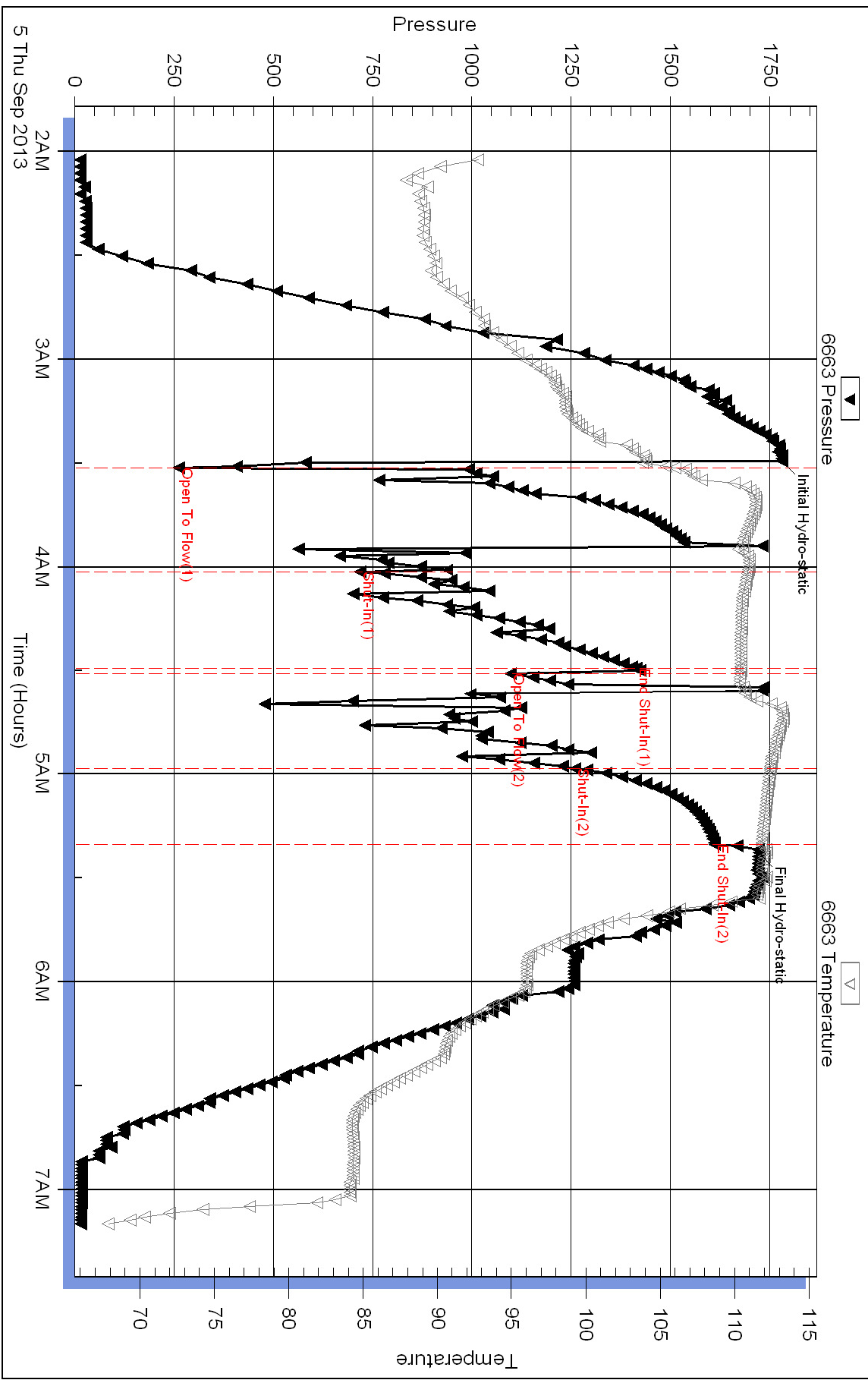
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

