



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: 2013.09.08 @ 00:00:00

End Date: 2013.09.08 @ 00:00:00

Job Ticket #: 17087 DST #: 6

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

Printed: 2013.09.08 @ 12:17:36



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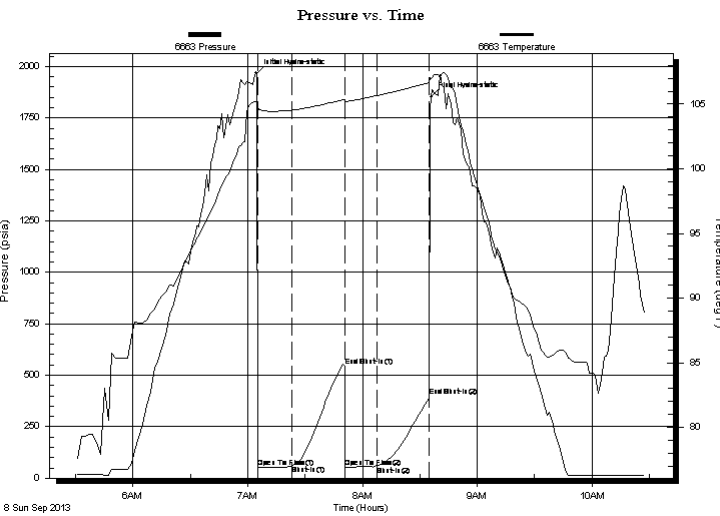
32-21s-15w Pawnee
Farthing #2-32
 Job Ticket: 17087 **DST#: 6**
 Test Start: 2013.09.08 @ 00:00:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335
 Interval: **3848.00 ft (KB) To 3892.00 ft (KB) (TVD)** Reference Elevations: 1986.00 ft (KB)
 Total Depth: 3892.00 ft (KB) (TVD) 1978.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 396.50 psia @ 3888.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.08 End Date: 2013.09.08 Last Calib.: 2013.09.08
 Start Time: 05:30:00 End Time: 10:28:00 Time On Btm: 2013.09.08 @ 07:04:30
 Time Off Btm: 2013.09.08 @ 08:36:00

TEST COMMENT: 1st Opening 15 Minutes Weak surface blow for 9 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	1967.62	105.14	Initial Hydro-static
1	51.93	104.36	Open To Flow (1)
19	61.12	104.53	Shut-In(1)
46	546.49	105.35	End Shut-In(1)
47	54.23	105.22	Open To Flow (2)
63	59.61	105.66	Shut-In(2)
91	396.50	106.67	End Shut-In(2)
92	1852.72	106.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

Gas Rates

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



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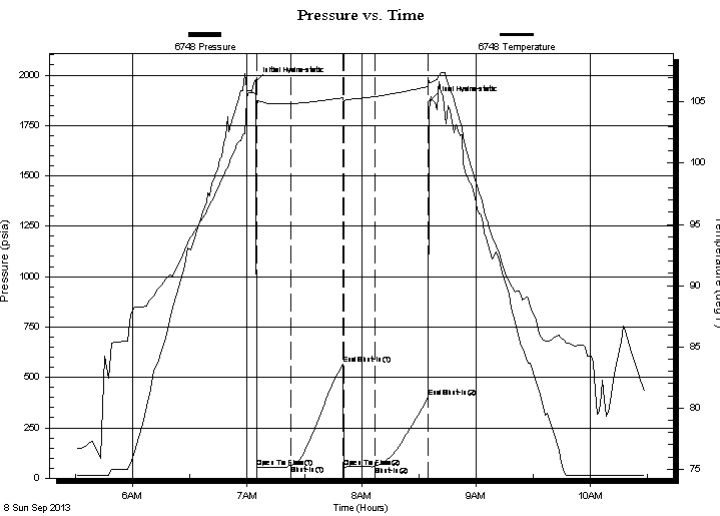
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 Total Depth: 3892.00 ft (KB) (TVD) 1978.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6748 Outside
 Press@RunDepth: 399.40 psia @ 3889.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.08 End Date: 2013.09.08 Last Calib.: 2013.09.08
 Start Time: 05:30:00 End Time: 10:28:30 Time On Btm: 2013.09.08 @ 07:04:30
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 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	1969.71	105.61	Initial Hydro-static
1	53.77	104.71	Open To Flow (1)
19	62.96	104.88	Shut-In(1)
46	563.49	105.34	End Shut-In(1)
46	55.43	104.99	Open To Flow (2)
63	60.01	105.45	Shut-In(2)
91	399.40	106.26	End Shut-In(2)
92	1871.90	106.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

32-21s-15w Pawnee

9431 East Central Suite 100
Wichita, Kansas 67206 2563

Farthing #2-32

Job Ticket: 17087

DST#: 6

ATTN: Rene Husted

Test Start: 2013.09.08 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 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: 62000.00 lb
			<u>Total Volume: 54.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3848.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			3833.00	
Hydraulic Tool	5.00			3838.00	
Packer	5.00			3843.00	20.00 Bottom Of Top Packer
Packer	5.00			3848.00	
Anchor	39.00			3887.00	
Recorder	1.00	6663	Inside	3888.00	
Recorder	1.00	6748	Outside	3889.00	
Bullnose	3.00			3892.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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FLUID SUMMARY

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DST#: 6

ATTN: Rene Husted

Test Start: 2013.09.08 @ 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5100.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

