



## 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**

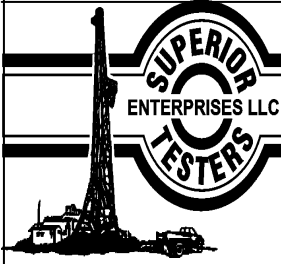
Start Date: 2013.09.05 @ 00:00:00

End Date: 2013.09.05 @ 00:00:00

Job Ticket #: 17083                      DST #: 2

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

Printed: 2013.09.05 @ 16:13:22



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F.G.Holl Company LLC

**32-21s-15w Pawnee**

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**Farthing #2-32**

Job Ticket: 17083

**DST#: 2**

ATTN: Rene Husted

Test Start: 2013.09.05 @ 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: 3529.00 ft (KB) To 3557.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3557.00 ft (KB) (TVD)

1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6663 Inside**

Press@RunDepth: 1265.26 psia @ 3552.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.05

End Date: 2013.09.05

Last Calib.: 2013.09.05

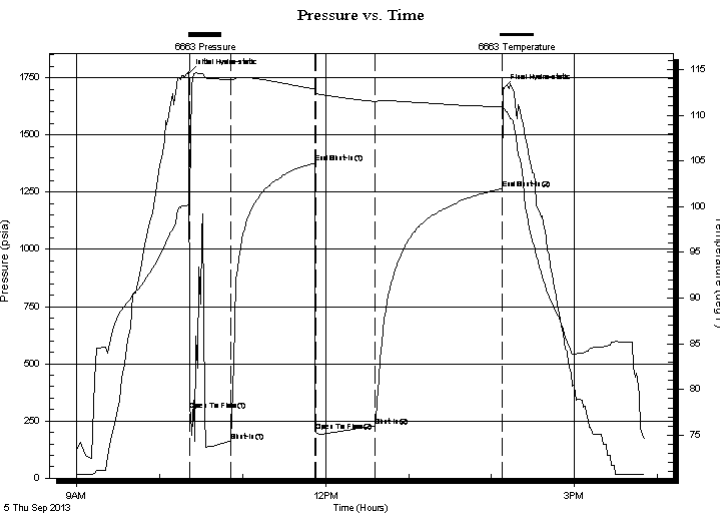
Start Time: 09:00:00

End Time: 15:51:00

Time On Btm: 2013.09.05 @ 10:21:30

Time Off Btm: 2013.09.05 @ 14:08:30

**TEST COMMENT:** 1st Opening 30 Minutes WEak blow built to the bottom of a 5 gallon bucket in 145 minutes  
1st Shut-In 60 Minutes- No blow back  
2nd Opening 45 Minutes Weak building blow built to the bottom of a 5 gallon bucket in 35 minutes  
2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

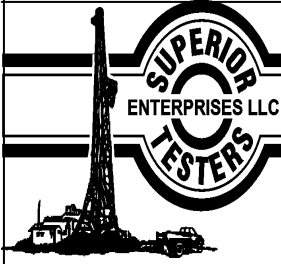
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1770.01	100.24	Initial Hydro-static
1	295.59	101.41	Open To Flow (1)
30	162.82	113.82	Shut-In(1)
91	1377.29	112.85	End Shut-In(1)
92	206.34	112.42	Open To Flow (2)
135	228.65	111.50	Shut-In(2)
227	1265.26	110.90	End Shut-In(2)
227	1701.87	110.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	Gas in the pipe	1.40
120.00	gas cut w atery mud w ith a trace of oil	1.68
0.00	10% Gas 1%Oil 70%Mud 20%Water	0.00
120.00	gas cut Muddy w ater w ith a trace of oil	1.68
0.00	14%Gas 1% Oil 50%Mud 35%w ate	0.00
60.00	gas cut muddy water w ith a trace of oil	0.84

## Gas Rates

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



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9431 East Central Suite 100  
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**Farthing #2-32**

Job Ticket: 17083

**DST#: 2**

ATTN: Rene Husted

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## GENERAL INFORMATION:

Formation: **kansas City "B"**

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Test Type: Conventional Bottom Hole (Initial)

Tester: Gene budig

Unit No: 3335

**Interval: 3529.00 ft (KB) To 3557.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3557.00 ft (KB) (TVD)

1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6748 Outside**

Press@RunDepth: 1267.84 psia @ 3553.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.05

End Date: 2013.09.05

Last Calib.: 2013.09.05

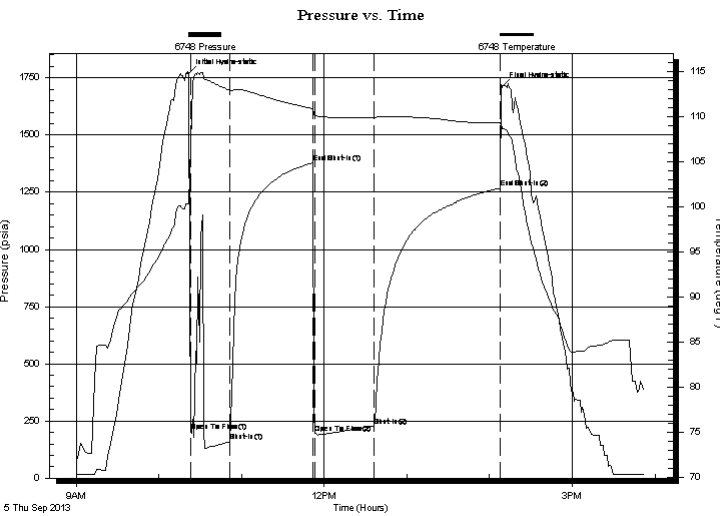
Start Time: 09:00:00

End Time: 15:52:30

Time On Btm: 2013.09.05 @ 10:21:30

Time Off Btm: 2013.09.05 @ 14:09:00

**TEST COMMENT:** 1st Opening 30 Minutes WEak blow built to the bottom of a 5 gallon bucket in 145 minutes  
 1st Shut-In 60 Minutes- No blow back  
 2nd Opening 45 Minutes Weak building blow built to the bottom of a 5 gallon bucket in 35 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

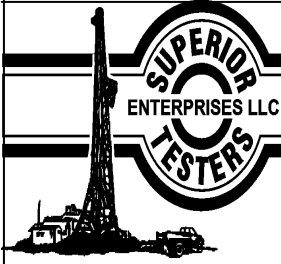
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1769.73	100.33	Initial Hydro-static
2	203.25	106.94	Open To Flow (1)
30	159.65	112.86	Shut-In(1)
91	1378.76	110.84	End Shut-In(1)
92	194.87	110.09	Open To Flow (2)
135	227.71	109.83	Shut-In(2)
227	1267.84	109.26	End Shut-In(2)
228	1712.28	108.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	Gas in the pipe	1.40
120.00	gas cut w atery mud w ith a trace of oil	1.68
0.00	10% Gas 1%Oil 70%Mud 20%Water	0.00
120.00	gas cut Muddy w ater w ith a trace of oil	1.68
0.00	14%Gas 1% Oil 50%Mud 35%w ate	0.00
60.00	gas cut muddy water w ith a trace of oil	0.84

## 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: 17083

**DST#: 2**

ATTN: Rene Husted

Test Start: 2013.09.05 @ 00:00:00

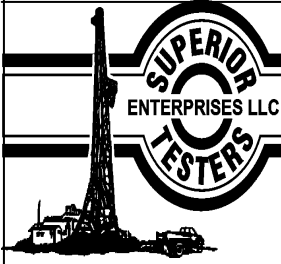
## Tool Information

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: 58000.00 lb
			<u>Total Volume: 49.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3529.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 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			3506.00	
Hydraulic Tool	5.00			3511.00	
Safety Joint	2.00			3513.00	
Jars	6.00			3519.00	
Packer	5.00			3524.00	28.00 Bottom Of Top Packer
Packer	5.00			3529.00	
Anchor	22.00			3551.00	
Recorder	1.00	6663	Inside	3552.00	
Recorder	1.00	6748	Outside	3553.00	
Bullnose	3.00			3556.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>55.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company LLC

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**Farthing #2-32**

Job Ticket: 17083

**DST#: 2**

ATTN: Rene Husted

Test Start: 2013.09.05 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Gas in the pipe	1.403
120.00	gas cut watery mud with a trace of oil	1.683
0.00	10% Gas 1%Oil 70%Mud 20%Water	0.000
120.00	gas cut Muddy water with a trace of oil	1.683
0.00	14%Gas 1% Oil 50%Mud 35%w ate	0.000
60.00	gas cut muddy water with a trace of oil	0.842
0.00	9%Gas 1%Oil 35%Mud 55%Water	0.000
60.00	muddy water with a trace of oil	0.842
0.00	1%oL 30%muD 69%w ater	0.000

Total Length: 460.00 ft      Total Volume: 6.453 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

