



## DRILL STEM TEST REPORT

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

9431 East Central STE 100  
Wichita Kansas 67206

ATTN: Rene Husted

**ScottClarkJrGstTrust**

**25-20s-16w-Pawnee**

Start Date: 2013.12.19 @ 03:24:00

End Date: 2013.12.19 @ 12:29:30

Job Ticket #: 19161                      DST #: 5

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

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# DRILL STEM TEST REPORT

F.G. Holl Company  
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 Wichita Kansas 67206  
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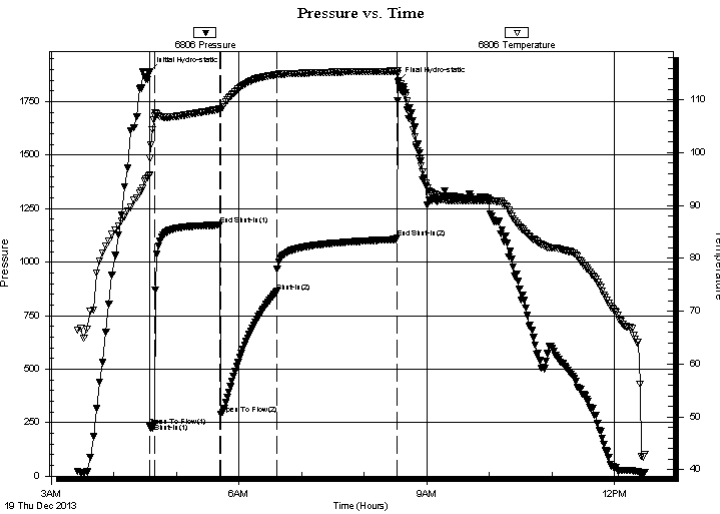
**25-20s-16w-Pawnee**  
**ScottClarkJrGstTrust**  
 Job Ticket: 19161 **DST#: 5**  
 Test Start: 2013.12.19 @ 03:24:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 04:34:30 Tester: Dustin Ellis  
 Time Test Ended: 12:29:30 Unit No: 3315-Great Bend-50  
 Interval: **3770.00 ft (KB) To 3780.00 ft (KB) (TVD)** Reference Elevations: 2038.00 ft (KB)  
 Total Depth: 3780.00 ft (KB) (TVD) 2033.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 6806 Inside**  
 Press @ RunDepth: 862.64 psia @ 3776.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.12.19 End Date: 2013.12.19 Last Calib.: 2013.12.19  
 Start Time: 03:24:00 End Time: 12:29:30 Time On Btm: 2013.12.19 @ 04:34:00  
 Time Off Btm: 2013.12.19 @ 08:32:30

**TEST COMMENT:** 1st Open 5 minutes Strong building blow blew off the bottom bucket 45 seconds.  
 1st Shut in 60 minutes Yes Blow back bottom bucket  
 2nd Open 60 minutes Strong building blow blew off the bottom bucket instantly.  
 2nd Shut in 120 minutes Yes blow back Bottom bucket



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1892.56	95.78	Initial Hydro-static
1	231.03	98.93	Open To Flow (1)
5	245.38	106.91	Shut-In(1)
68	1173.09	108.25	End Shut-In(1)
69	290.53	108.13	Open To Flow (2)
123	862.64	114.74	Shut-In(2)
238	1113.08	115.43	End Shut-In(2)
239	1842.73	114.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface in 13 minutes.	0.00
2280.00	Clean gassy oil Oil 100%	31.98
240.00	Gassy oil cut mud	3.37
0.00	Mud 50% Oil 40% Gas 10%	0.00
0.00	Gravity of oil 39 corrected	0.00
0.00	Gas to surface in 13 minutes	0.00

## Gas Rates

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



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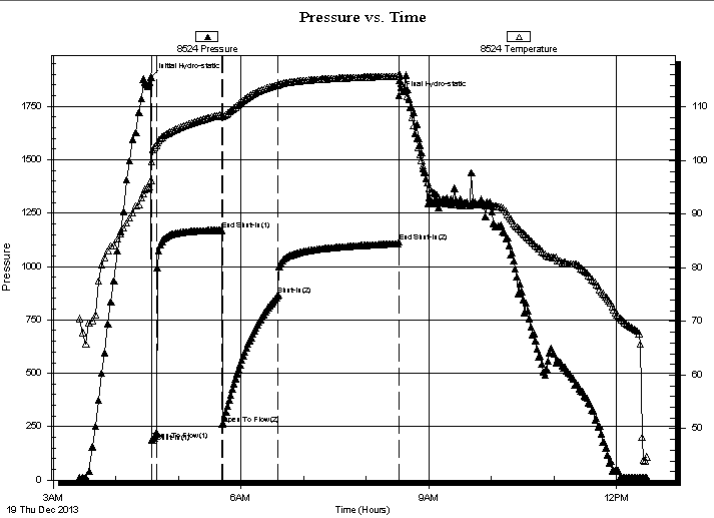
**25-20s-16w-Pawnee**  
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 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8524 Outside**  
 Press @ Run Depth: 1116.68 psia @ 3777.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.12.19 End Date: 2013.12.19 Last Calib.: 2013.12.19  
 Start Time: 03:24:00 End Time: 12:29:00 Time On Btm: 2013.12.19 @ 04:33:30  
 Time Off Btm: 2013.12.19 @ 08:31:30

**TEST COMMENT:** 1st Open 5 minutes Strong building blow blew off the bottom bucket 45 seconds.  
 1st Shut in 60 minutes Yes Blow back bottom bucket  
 2nd Open 60 minutes Strong building blow blew off the bottom bucket instantly.  
 2nd Shut in 120 minutes Yes blow back Bottom bucket



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1885.81	96.35	Initial Hydro-static
1	187.26	99.84	Open To Flow (1)
6	221.20	102.88	Shut-In(1)
68	1169.95	108.61	End Shut-In(1)
69	263.98	108.29	Open To Flow (2)
123	864.89	114.13	Shut-In(2)
238	1116.68	115.76	End Shut-In(2)
238	1798.49	116.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface in 13 minutes.	0.00
2280.00	Clean gassy oil Oil 100%	31.98
240.00	Gassy oil cut mud	3.37
0.00	Mud 50% Oil 40% Gas 10%	0.00
0.00	Gravity of oil 39 corrected	0.00
0.00	Gas to surface in 13 minutes	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G. Holl Company

**25-20s-16w-Pawnee**

9431 East Central STE 100  
Wichita Kansas 67206

**ScottClarkJrGstTrust**

Job Ticket: 19161

**DST#: 5**

ATTN: Rene Husted

Test Start: 2013.12.19 @ 03:24:00

## Tool Information

Drill Pipe:	Length: 3773.00 ft	Diameter: 3.80 inches	Volume: 52.93 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: 57000.00 lb
			<u>Total Volume: 52.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3770.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3747.00	
Hydraulic Tool	5.00			3752.00	
Jars	6.00			3758.00	
Safety Joint	2.00			3760.00	
Packer	5.00			3765.00	28.00 Bottom Of Top Packer
Packer	5.00			3770.00	
Anchor	5.00			3775.00	
Recorder	1.00	6806	Inside	3776.00	
Recorder	1.00	8524	Outside	3777.00	
Bull Plug	3.00			3780.00	10.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 6.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4600.00 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
0.00	Gas to surface in 13 minutes.	0.000
2280.00	Clean gassy oil Oil 100%	31.982
240.00	Gassy oil cut mud	3.367
0.00	Mud 50% Oil 40% Gas10%	0.000
0.00	Gravity of oil 39 corrected	0.000
0.00	Gas to surface in 13 minutes	0.000

Total Length: 2520.00 ft      Total Volume: 35.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

