



## DRILL STEM TEST REPORT

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

9431 E. Central STE. 100  
Wichita Ks, 67206

ATTN: Frank Greenbaum

**Jost #1-29**

**29/21s/15w/Pawnee**

Start Date: 2013.08.25 @ 11:40:00

End Date: 2013.08.25 @ 18:49:30

Job Ticket #: 18483                      DST #: 10

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

Printed: 2013.08.25 @ 19:06:39



# DRILL STEM TEST REPORT

F.G. Holl Company LLC.

**29/21s/15w/Pawnee**

9431 E. Central STE. 100  
Wichita Ks, 67206

**Jost #1-29**

Job Ticket: 18483

**DST#: 10**

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

## GENERAL INFORMATION:

Formation: **Coun/ Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

**Interval: 3820.00 ft (KB) To 3883.00 ft (KB) (TVD)**

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3883.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8405 Inside**

Press @ Run Depth: 372.62 psia @ 3879.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.25

End Date: 2013.08.25

Last Calib.: 2013.08.25

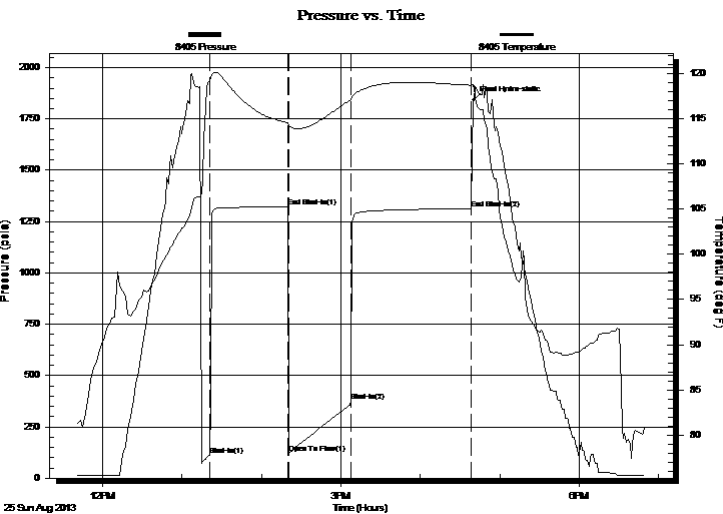
Start Time: 11:40:00

End Time: 18:49:30

Time On Btm:

Time Off Btm: 2013.08.25 @ 16:40:00

**TEST COMMENT:** 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 30 seconds.  
1st Shut In/ 60 Minutes. No blow back.  
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 20 seconds.  
2nd Shut In/ 90 Minutes. Weak surface blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	112.70	119.17	Shut-In(1)
60	1323.09	114.55	End Shut-In(1)
60	122.95	114.19	Open To Flow (1)
107	372.62	117.09	Shut-In(2)
199	1313.89	118.67	End Shut-In(2)
200	1839.76	118.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1449 feet of gas.	0.00
682.00	100% clean oil.	9.57
62.00	20% mud, 5% gas, 65% oil	0.87
62.00	20% mud, 30% gas, 50% oil.	0.87
0.00	Oil gravity 38 corrected	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G. Holl Company LLC.

**29/21s/15w/Pawnee**

9431 E. Central STE. 100  
Wichita Ks, 67206

**Jost #1-29**

Job Ticket: 18483

**DST#: 10**

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

## GENERAL INFORMATION:

Formation: **Coun/ Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

**Interval: 3820.00 ft (KB) To 3883.00 ft (KB) (TVD)**

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3883.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8400 Outside**

Press @ Run Depth: 1253.42 psia @ 3880.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.25

End Date: 2013.08.25

Last Calib.: 2013.08.25

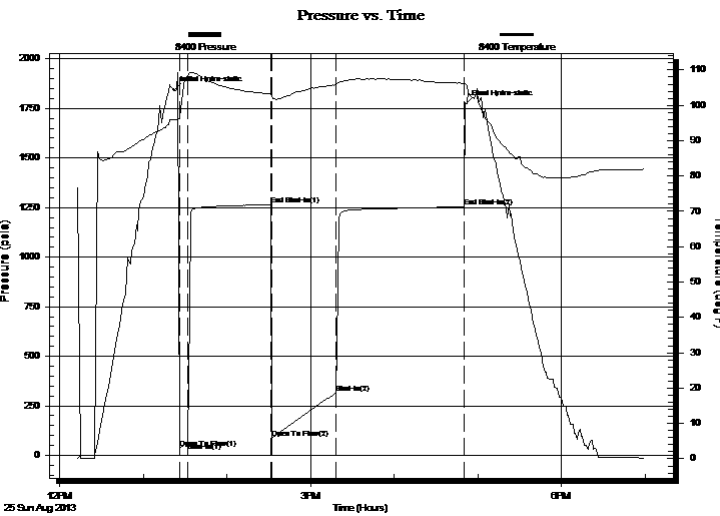
Start Time: 11:40:00

End Time: 19:00:00

Time On Btm: 2013.08.25 @ 13:22:00

Time Off Btm: 2013.08.25 @ 16:51:00

**TEST COMMENT:** 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 30 seconds.  
1st Shut In/ 60 Minutes. No blow back.  
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 20 seconds.  
2nd Shut In/ 90 Minutes. Weak surface blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.10	95.95	Initial Hydro-static
4	38.26	96.39	Open To Flow (1)
10	67.26	108.53	Shut-In(1)
70	1263.58	103.14	End Shut-In(1)
70	88.66	102.72	Open To Flow (2)
117	316.08	105.89	Shut-In(2)
208	1253.42	106.24	End Shut-In(2)
209	1770.22	106.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1449 feet of gas.	0.00
682.00	100% clean oil.	9.57
62.00	20% mud, 5% gas, 65% oil	0.87
62.00	20% mud, 30% gas, 50% oil.	0.87
0.00	Oil gravity 38 corrected	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G. Holl Company LLC.

**29/21s/15w/Pawnee**

9431 E. Central STE. 100  
Wichita Ks, 67206

**Jost #1-29**

Job Ticket: 18483

**DST#: 10**

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

## Tool Information

Drill Pipe:	Length: 3812.00 ft	Diameter: 3.80 inches	Volume: 53.47 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: 53.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3820.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.49 ft				
Tool Length:	92.49 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3792.00	
Shut-In Tool	5.00			3797.00	
Hydroic Tool	5.00			3802.00	
Jars	6.00			3808.00	
Safety Joint	2.00			3810.00	
Packer	5.00			3815.00	29.00 Bottom Of Top Packer
Packer	5.00			3820.00	
Perforations	5.00			3825.00	
Change Over Sub	0.75			3825.75	
Drill Pipe	31.99			3857.74	
Change Over Sub	0.75			3858.49	
Perforations	20.00			3878.49	
Recorder	1.00	8405	Inside	3879.49	
Recorder	1.00	8400	Outside	3880.49	
Bullnose	3.00			3883.49	63.49 Bottom Packers & Anchor

**Total Tool Length: 92.49**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G. Holl Company LLC.

**29/21s/15w/Pawnee**

9431 E. Central STE. 100  
Wichita Ks, 67206

**Jost #1-29**

Job Ticket: 18483

**DST#: 10**

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 64.00 sec/qt  
Water Loss: 8.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7000.00 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	1449 feet of gas.	0.000
682.00	100% clean oil.	9.567
62.00	20% mud, 5% gas, 65% oil	0.870
62.00	20% mud, 30% gas, 50% oil.	0.870
0.00	Oil gravity 38 corrected	0.000

Total Length: 806.00 ft      Total Volume: 11.307 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

