



## DRILL STEM TEST REPORT

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

9431 East Central Ste 100  
Wichita Ks. 67206

ATTN: Ryan Greenbaum

### **Hanson A Unit 1-15**

### **15-20s-16w Pawnee**

Start Date: 2013.10.23 @ 02:08:00

End Date: 2013.10.23 @ 08:45:30

Job Ticket #: 18573                      DST #: 2

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

Printed: 2013.10.23 @ 19:06:25



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**15-20s-16w Pawnee**

9431 East Central Ste 100  
Wichita Ks. 67206

**Hanson A Unit 1-15**

Job Ticket: 18573

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 02:08:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:32:00

Time Test Ended: 08:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

**Interval: 3740.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Reference Elevations: 2033.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8524

Press @ Run Depth: 601.81 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.23

End Date: 2013.10.23

Last Calib.: 2013.10.23

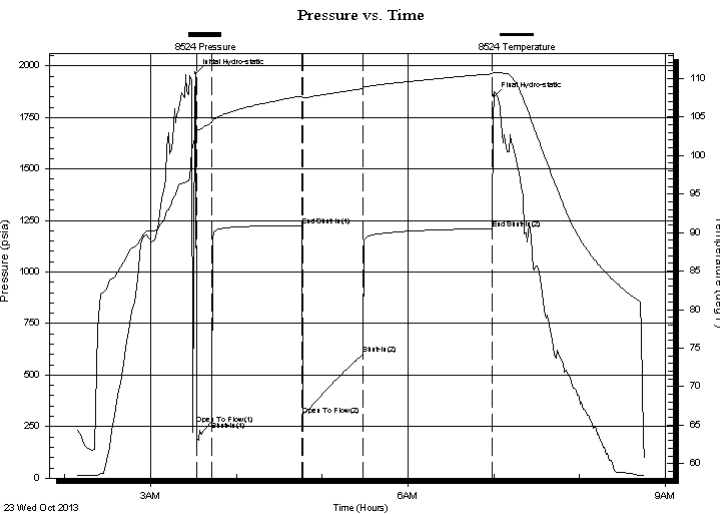
Start Time: 02:08:00

End Time: 08:45:30

Time On Btm: 2013.10.23 @ 03:31:30

Time Off Btm: 2013.10.23 @ 07:00:00

**TEST COMMENT:** 1st Open 15 minutes Good building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Good building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.  
2nd Shut in 90 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1964.80	102.90	Initial Hydro-static
1	263.98	103.10	Open To Flow (1)
12	275.84	104.31	Shut-In(1)
75	1222.68	107.68	End Shut-In(1)
75	304.60	107.46	Open To Flow (2)
117	601.81	108.69	Shut-In(2)
208	1211.81	110.60	End Shut-In(2)
209	1852.02	110.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	Mud 100%	3.42
976.00	Water 100%	13.69
0.00	Chlorides 46,000 .4ohms @ 57degrees.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**15-20s-16w Pawnee**

9431 East Central Ste 100  
Wichita Ks. 67206

**Hanson A Unit 1-15**

Job Ticket: 18573

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 02:08:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:32:00

Time Test Ended: 08:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

**Interval: 3740.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Reference Elevations: 2033.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 6839

Press @ RunDepth: 1209.93 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.23

End Date: 2013.10.23

Last Calib.: 2013.10.23

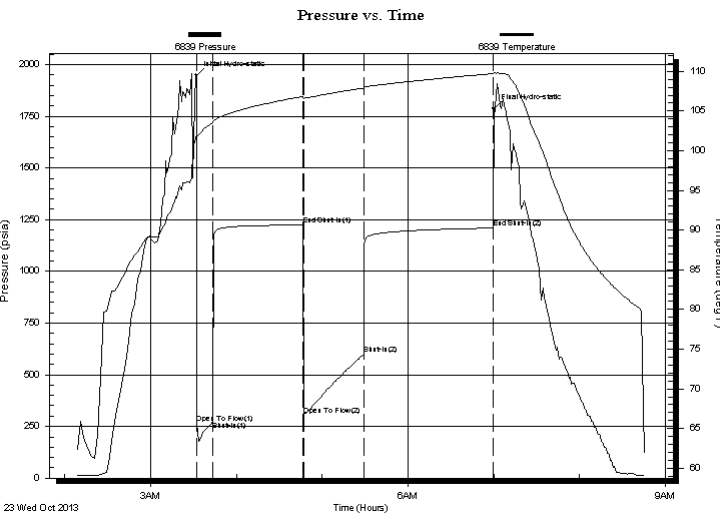
Start Time: 02:08:00

End Time: 08:46:00

Time On Btm: 2013.10.23 @ 03:32:00

Time Off Btm: 2013.10.23 @ 07:00:00

**TEST COMMENT:** 1st Open 15 minutes Good building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Good building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.  
2nd Shut in 90 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1947.85	102.00	Initial Hydro-static
1	263.67	101.72	Open To Flow (1)
12	274.66	103.52	Shut-In(1)
75	1224.79	106.83	End Shut-In(1)
75	302.81	106.61	Open To Flow (2)
117	599.32	107.89	Shut-In(2)
208	1209.93	109.72	End Shut-In(2)
208	1786.96	109.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	Mud 100%	3.42
976.00	Water 100%	13.69
0.00	Chlorides 46,000 .4ohms @ 57degrees.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G Holl Company LLC.

**15-20s-16w Pawnee**

9431 East Central Ste 100  
Wichita Ks. 67206

**Hanson A Unit 1-15**

Job Ticket: 18573

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 02:08:00

## Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 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:	72000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3740.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	30.00 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			3725.00	
Hydraulic Tool	5.00			3730.00	
Packer	5.00			3735.00	20.00 Bottom Of Top Packer
Packer	5.00			3740.00	
Anchor	5.00			3745.00	
Recorder	1.00	8524	Outside	3746.00	
Recorder	1.00	6839	Inside	3747.00	
Bull Plug	3.00			3750.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 30.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G Holl Company LLC.

**15-20s-16w Pawnee**

9431 East Central Ste 100  
Wichita Ks. 67206

**Hanson A Unit 1-15**

Job Ticket: 18573

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 02:08:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8500.00 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
244.00	Mud 100%	3.423
976.00	Water 100%	13.691
0.00	Chlorides 46,000 .4ohms @ 57degrees.	0.000

Total Length: 1220.00 ft      Total Volume: 17.114 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

