



## 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 @ 12:34:00

End Date: 2013.10.23 @ 17:35:00

Job Ticket #: 18572                      DST #: 1

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

Printed: 2013.10.23 @ 03:49:45



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**Hanson A Unit 1-15**

Job Ticket: 18572

**DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 12:34:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:30

Time Test Ended: 17:35:00

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 Inside**

Press @ RunDepth: 1232.49 psia @ 3747.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.23

End Date: 2013.10.23

Last Calib.: 2013.10.23

Start Time: 12:34:00

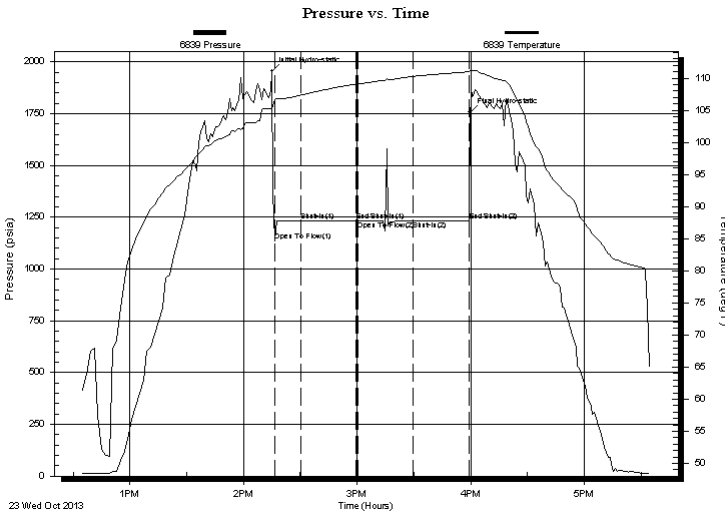
End Time: 17:35:00

Time On Btm: 2013.10.23 @ 14:15:00

Time Off Btm: 2013.10.23 @ 15:59:30

**TEST COMMENT:** 1st Open 15 minutes Weak surface blow that died off after 9 minutes.  
1st Shut in 30 minutes No blow back.  
2nd Open 30 minutes Dead Flushed tool w eak surface blow that died off.  
2nd Shut in 30 minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1954.85	105.21	Initial Hydro-static
2	1137.66	106.65	Open To Flow (1)
15	1233.13	107.32	Shut-In(1)
45	1234.08	109.05	End Shut-In(1)
46	1234.10	109.09	Open To Flow (2)
75	1232.49	110.25	Shut-In(2)
104	1232.95	110.99	End Shut-In(2)
105	1755.29	111.16	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.28

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



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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 Outside**

Press @ Run Depth: 1232.23 psia @ 3746.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.23

End Date: 2013.10.23

Last Calib.: 2013.10.23

Start Time: 12:34:00

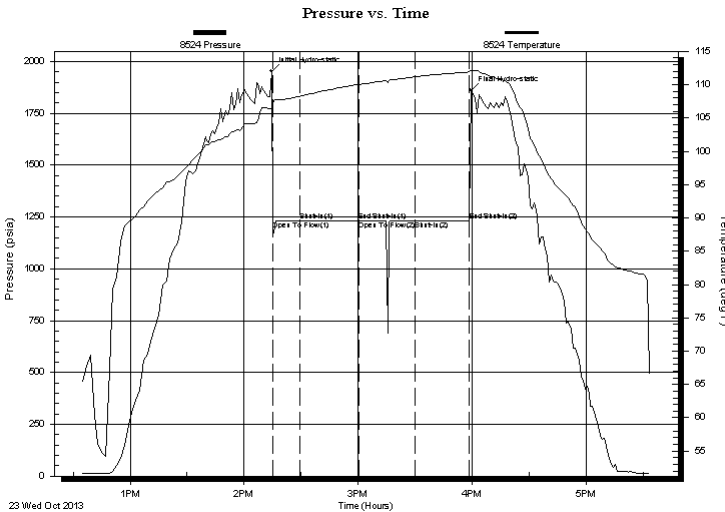
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## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1952.80	106.38	Initial Hydro-static
1	1188.89	107.01	Open To Flow (1)
15	1232.40	108.25	Shut-In(1)
46	1233.03	110.00	End Shut-In(1)
46	1233.04	110.02	Open To Flow (2)
76	1231.80	111.19	Shut-In(2)
104	1232.23	111.91	End Shut-In(2)
105	1860.35	112.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.28

## 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**

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**Hanson A Unit 1-15**

Job Ticket: 18572

**DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2013.10.23 @ 12:34:00

## 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: 45000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3740.00 ft			Final 42000.00 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**



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9200.00 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
20.00	Mud 100%	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

