



## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Reene Husted

**Smith D #1-30**

**30-20s-15w Barton**

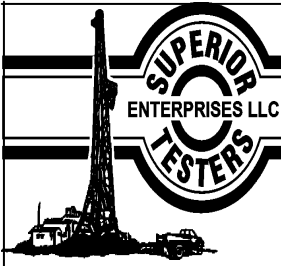
Start Date: 2014.01.20 @ 03:45:00

End Date: 2014.01.20 @ 00:00:00

Job Ticket #: 17121                      DST #: 7

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

Printed: 2014.01.20 @ 11:16:21



# DRILL STEM TEST REPORT

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 9431 East Central Suite 100  
 Wichita, Kansas 67206  
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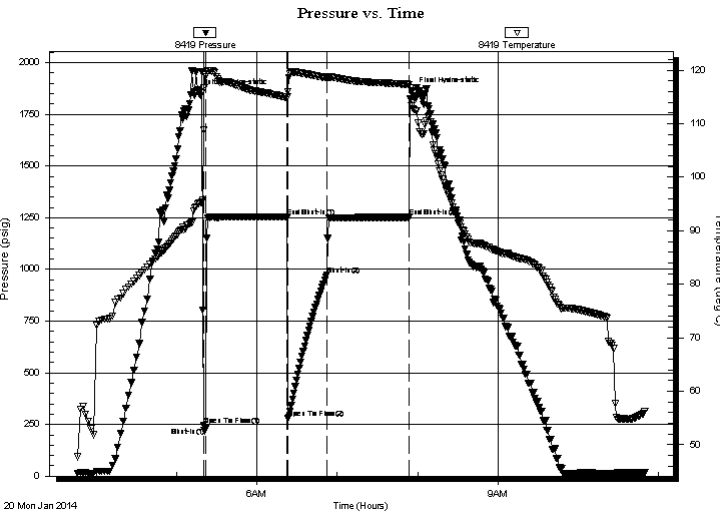
**30-20s-15w Barton**  
**Smith D #1-30**  
 Job Ticket: 17121 **DST#: 7**  
 Test Start: 2014.01.20 @ 03:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3858.00 ft (KB) To 3867.00 ft (KB) (TVD)**  
 Total Depth: 3858.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320  
 Reference Elevations: 2033.00 ft (KB)  
 2025.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 1252.41 psig @ 3863.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.01.20 End Date: 2014.01.20 Last Calib.: 2014.01.20  
 Start Time: 03:45:00 End Time: 10:50:00 Time On Btm: 2014.01.20 @ 05:16:30  
 Time Off Btm: 2014.01.20 @ 07:55:30

**TEST COMMENT:** 1st Opening 3 Minutes Strong blow built to the bottom of a 5 gallon bucket in 30 Seconds  
 1st Shut-In 60 Minutes-no blow back  
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket gas to surface in 28 minutes  
 2nd Shut-In 60 Minutes-Weak blow back



## PRESSURE SUMMARY

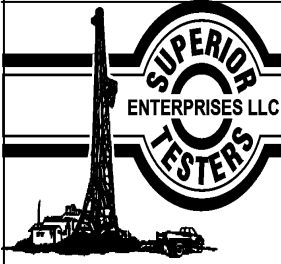
Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1852.48	95.16	Initial Hydro-static
4	245.52	108.79	Open To Flow (1)
6	235.34	119.17	Shut-In(1)
66	1254.37	114.97	End Shut-In(1)
67	279.50	116.05	Open To Flow (2)
96	971.63	118.62	Shut-In(2)
157	1252.41	117.37	End Shut-In(2)
159	1862.22	113.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	slightly oil cut gassy muddy w ater	2.52
0.00	25%Gas 3%Oil 15%Mud 57%Water	0.00
120.00	very slightly oil cut gassy w ater	1.68
0.00	15%Gas 1%Oil 84%Water	0.00
1825.00	Gassy Water Chlorides	25.60

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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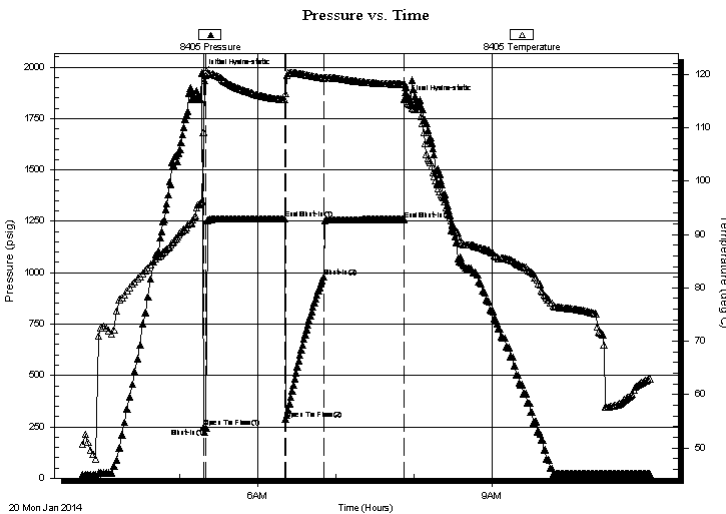
**30-20s-15w Barton**  
**Smith D #1-30**  
 Job Ticket: 17121 **DST#: 7**  
 Test Start: 2014.01.20 @ 03:45:00

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 Interval: **3858.00 ft (KB) To 3867.00 ft (KB) (TVD)**  
 Total Depth: 3858.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320  
 Reference Elevations: 2033.00 ft (KB)  
 2025.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8405 Outside**  
 Press@RunDepth: 1259.89 psig @ 3864.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.01.20 End Date: 2014.01.20 Last Calib.: 2014.01.20  
 Start Time: 03:45:00 End Time: 11:00:30 Time On Btm: 2014.01.20 @ 05:17:30  
 Time Off Btm: 2014.01.20 @ 07:52:30

**TEST COMMENT:** 1st Opening 3 Minutes Strong blow built to the bottom of a 5 gallon bucket in 30 Seconds  
 1st Shut-In 60 Minutes-no blow back  
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket gas to surface in 28 minutes  
 2nd Shut-In 60 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1971.35	96.24	Initial Hydro-static
1	249.22	109.18	Open To Flow (1)
3	241.98	119.80	Shut-In(1)
64	1261.76	115.27	End Shut-In(1)
64	285.27	116.45	Open To Flow (2)
93	979.57	119.36	Shut-In(2)
155	1259.89	118.16	End Shut-In(2)
155	1844.01	118.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	slightly oil cut gassy muddy w ater	2.52
0.00	25%Gas 3%Oil 15%Mud 57%Water	0.00
120.00	very slightly oil cut gassy w ater	1.68
0.00	15%Gas 1%Oil 84%Water	0.00
1825.00	Gassy Water Chlorides	25.60

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company LLC

**30-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith D #1-30**

Job Ticket: 17121

**DST#:7**

ATTN: Reene Hustead

Test Start: 2014.01.20 @ 03:45:00

## Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 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: 64000.00 lb
			<u>Total Volume: 53.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3858.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	1	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			3835.00	
Hydraulic Tool	5.00			3840.00	
Safety Joint	2.00			3842.00	
Jars	6.00			3848.00	
Packer	5.00			3853.00	28.00 Bottom Of Top Packer
Packer	5.00			3858.00	
Anchor	4.00			3862.00	
Recorder	1.00	8419	Inside	3863.00	
Recorder	1.00	8405	Outside	3864.00	
Bullnose	3.00			3867.00	9.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Job Ticket: 17121

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ATTN: Reene Hustead

Test Start: 2014.01.20 @ 03:45:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 9.60 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7300.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	slightly oil cut gassy muddy w ater	2.525
0.00	25%Gas 3%Oil 15%Mud 57%Water	0.000
120.00	very slightly oil cut gassy w ater	1.683
0.00	15%Gas 1%Oil 84%Water	0.000
1825.00	Gassy Water Chlorides	25.600

Total Length: 2125.00 ft      Total Volume: 29.808 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

