



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 @ 01:15:00

End Date: 2014.01.20 @ 00:00:00

Job Ticket #: 17120 DST #: 6

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

Printed: 2014.01.20 @ 13:25:38



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206
 ATTN: Reene Hustead

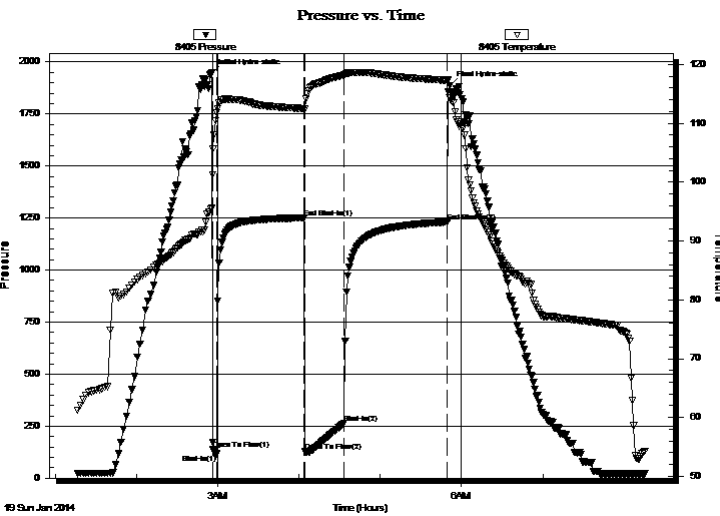
30-20s-15w Barton
Smith D #1-30
 Job Ticket: 17120 **DST#: 6**
 Test Start: 2014.01.20 @ 01:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3847.00 ft (KB) To 3857.00 ft (KB) (TVD)**
 Total Depth: 3857.00 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 @ Run Depth: 1230.94 psig @ 3854.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.01.19 End Date: 2014.01.19 Last Calib.: 2014.01.20
 Start Time: 01:16:40 End Time: 08:15:10 Time On Btm: 2014.01.19 @ 02:55:40
 Time Off Btm: 2014.01.19 @ 05:51:10

TEST COMMENT: 1st Opening 3 Minutes-Strong blow built to the bottom of the bucket gas to surface in 2 minutes
 1st Shut-In 60 Minutes-w eak blow back
 2nd Opening 30 Minutes-Strong blow -see gas flow report
 2nd Shut-In 60 Minutes- fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1946.47	95.53	Initial Hydro-static
1	138.20	105.64	Open To Flow (1)
4	116.41	111.83	Shut-In(1)
68	1248.71	112.52	End Shut-In(1)
69	128.93	112.41	Open To Flow (2)
98	263.20	118.19	Shut-In(2)
174	1230.94	117.30	End Shut-In(2)
176	1887.44	114.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Muddy gassy oil	0.68
0.00	25%Gas 40%Oil 25%Mud 10%Water	0.00
180.00	Gassy frothy oil	2.46
0.00	65%Gas 30%Oil 2 1/2%Mud 2 1/2%Water	0.00
160.00	Slightly nud cut water	2.19
0.00	5%Mud 95%Water	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	21.50	56.95
Last Gas Rate	0.25	9.00	37.12
Max. Gas Rate	0.25	21.50	56.95



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TOOL DIAGRAM

F.G.Holl Company LLC

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Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.75 inches	Volume: 52.37 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: 52.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3847.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3824.00	
Hydraulic Tool	5.00			3829.00	
Safety Joint	2.00			3831.00	
Jars	6.00			3837.00	
Packer	5.00			3842.00	28.00 Bottom Of Top Packer
Packer	5.00			3847.00	
Anchor	5.00			3852.00	
Recorder	1.00	8419	Inside	3853.00	
Recorder	1.00	8405	Outside	3854.00	
Bullnose	3.00			3857.00	10.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



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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: 45.00 sec/qt
Water Loss: 9.59 in³
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
50.00	Muddy gassy oil	0.683
0.00	25%Gas 40%Oil 25%Mud 10%Water	0.000
180.00	Gassy frothy oil	2.459
0.00	65%Gas 30%Oil 2 1/2%Mud 2 1/2%Water	0.000
160.00	Slightly nud cut w ater	2.186
0.00	5%Mud 95%Water	0.000
120.00	Water chlorides 33000	1.639

Total Length: 510.00 ft Total Volume: 6.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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Gas Rates Information

Temperature: 15 (deg C)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	21.50	56.95
2	15	0.25	11.00	40.30
2	20	0.25	10.00	38.71
2	25	0.25	9.00	37.12

