



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: 2014.01.18 @ 06:15:00

End Date: 2014.01.18 @ 00:00:00

Job Ticket #: 17119 DST #: 5

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

Printed: 2014.01.19 @ 00:40:29



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F.G.Holl Company LLC

30-20s-15w Barton

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Smith D #1-30

Job Ticket: 17119

DST#: 5

ATTN: Reene Hustead

Test Start: 2014.01.18 @ 06:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budi

Unit No: 3320

Interval: 3788.00 ft (KB) To 3797.00 ft (KB) (TVD)

Reference Elevations: 2033.00 ft (KB)

Total Depth: 3788.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Outside

Press@RunDepth: 1225.75 psig @ 3794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.18

End Date: 2014.01.18

Last Calib.: 2014.01.19

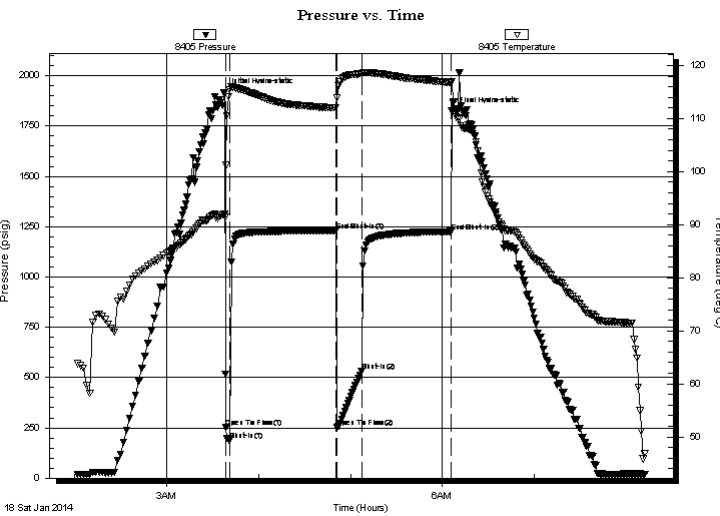
Start Time: 02:00:44

End Time: 08:12:14

Time On Btm: 2014.01.18 @ 03:37:44

Time Off Btm: 2014.01.18 @ 06:06:14

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 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 1 minute
2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1917.68	91.97	Initial Hydro-static
1	254.03	101.20	Open To Flow (1)
4	187.76	115.48	Shut-In(1)
73	1229.51	112.02	End Shut-In(1)
74	250.85	113.87	Open To Flow (2)
90	531.11	118.46	Shut-In(2)
148	1225.75	116.79	End Shut-In(2)
149	1823.96	117.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	muddy water	1.54
880.00	w ater chlorides 24000	12.34

Gas Rates

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



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 Wichita, Kansas 67206
 ATTN: Reene Hustead

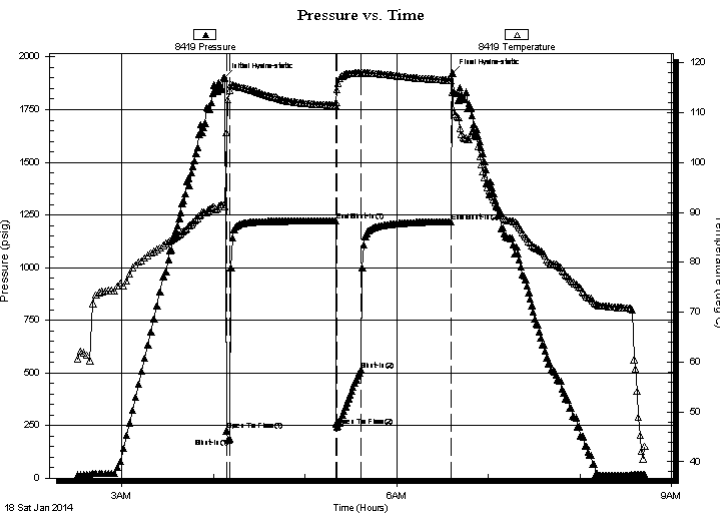
30-20s-15w Barton
Smith D #1-30
 Job Ticket: 17119 **DST#: 5**
 Test Start: 2014.01.18 @ 06:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
Interval: 3788.00 ft (KB) To 3797.00 ft (KB) (TVD)
 Total Depth: 3788.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budi
 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: 1218.54 psig @ 3793.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.01.18 End Date: 2014.01.18 Last Calib.: 2014.01.19
 Start Time: 02:30:00 End Time: 08:43:00 Time On Btm: 2014.01.18 @ 04:07:30
 Time Off Btm: 2014.01.18 @ 06:36:30

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 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 1 minute
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg C)	Annotation
0	1900.06	91.25	Initial Hydro-static
1	225.24	106.06	Open To Flow (1)
3	186.89	114.56	Shut-In(1)
73	1222.14	111.47	End Shut-In(1)
74	244.46	114.71	Open To Flow (2)
90	514.72	118.00	Shut-In(2)
148	1218.54	116.48	End Shut-In(2)
149	1923.28	114.01	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	muddy water	1.54
880.00	w ater chlorides 24000	12.34

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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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: 17119

DST#: 5

ATTN: Reene Hustead

Test Start: 2014.01.18 @ 06:15:00

Tool Information

Drill Pipe:	Length: 3775.00 ft	Diameter: 3.80 inches	Volume: 52.95 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:	63000.00 lb
			<u>Total Volume: 52.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3788.00 ft			Final	53000.00 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			3765.00	
Hydraulic Tool	5.00			3770.00	
Safety Joint	2.00			3772.00	
Jars	6.00			3778.00	
Packer	5.00			3783.00	28.00 Bottom Of Top Packer
Packer	5.00			3788.00	
Anchor	4.00			3792.00	
Recorder	1.00	8419	Inside	3793.00	
Recorder	1.00	8405	Outside	3794.00	
Bullnose	3.00			3797.00	9.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



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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: 54.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 56000.00 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
110.00	muddy w ater	1.543
880.00	w ater chlorides 24000	12.344

Total Length: 990.00 ft Total Volume: 13.887 bbl

Num Fluid Samples: 0

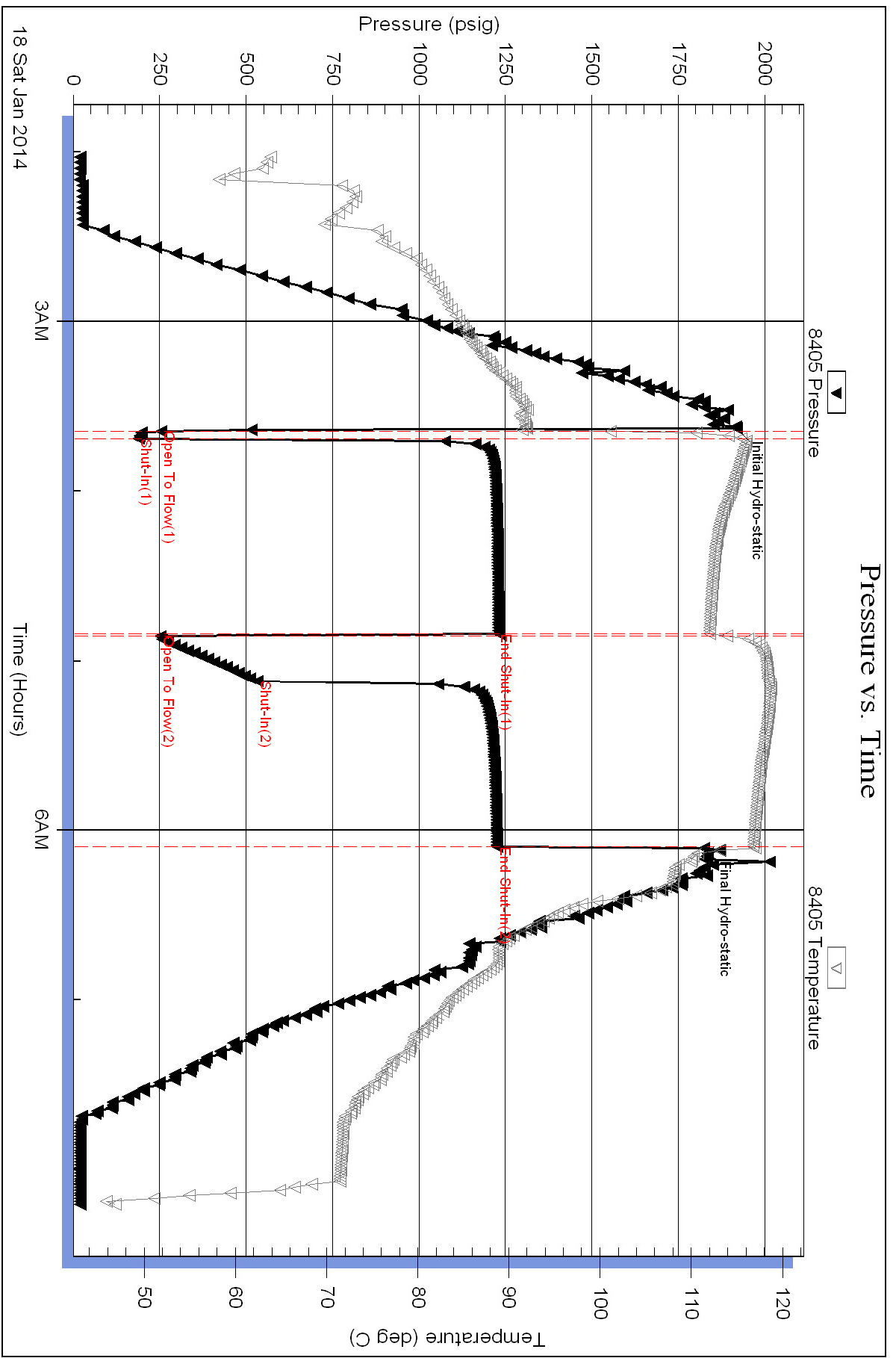
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time

