



DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

Schmitt Family #1-15

15-20s-15w Barton

Start Date: 2013.01.31 @ 00:00:00

End Date:

Job Ticket #: 16958

DST #: 5

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

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ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 25

Interval: 3698.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Outside

Press @ Run Depth: 1155.96 psia @ 3712.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.31

End Date: 2013.01.31

Last Calib.: 2013.02.01

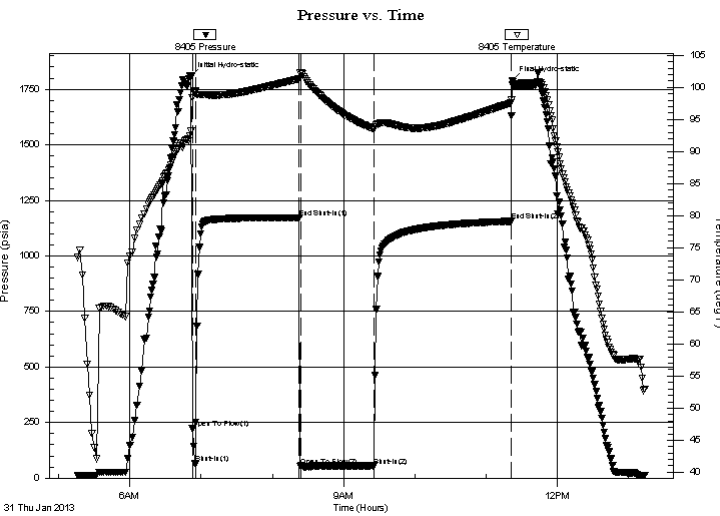
Start Time: 05:16:00

End Time: 13:13:30

Time On Btm: 2013.01.31 @ 06:51:30

Time Off Btm: 2013.01.31 @ 11:22:00

TEST COMMENT: 1st Open/ 2 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in 30 seconds
 1st Shut In/ 90 Minutes/ No blow back
 2nd Open/ 60 Minutes/ Strong Blow built to the bottom of a 5 gallon bucket in 30 seconds. Gas to surface in 2
 2nd Shut In/ 120 Minutes/ fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1807.78	93.27	Initial Hydro-static
1	222.89	98.43	Open To Flow (1)
4	65.04	99.52	Shut-In(1)
91	1172.59	101.33	End Shut-In(1)
92	54.31	102.26	Open To Flow (2)
154	55.13	93.44	Shut-In(2)
270	1155.96	97.57	End Shut-In(2)
271	1788.49	100.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud No show s of oil	0.63

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.63	110.62
Last Gas Rate	1.00	3.63	110.62
Max. Gas Rate	1.00	3.63	110.62



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DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

GENERAL INFORMATION:

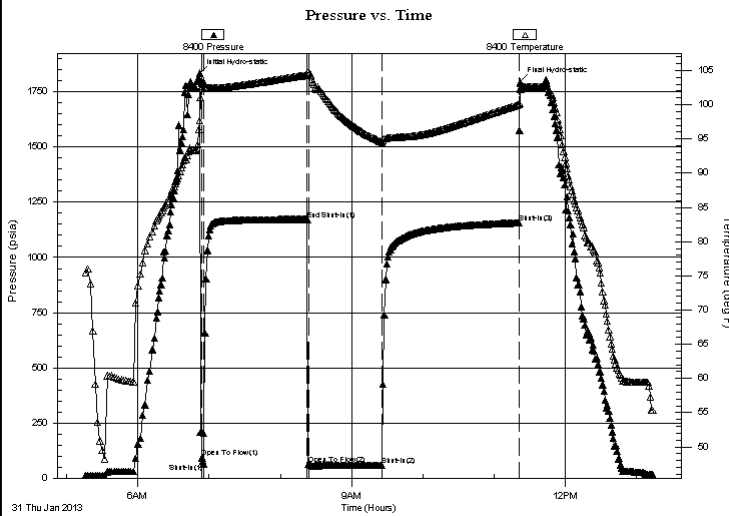
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened:
 Tester: Shane Konzem
 Time Test Ended:
 Unit No: 3330 Great Bend/ 25
 Interval: **3698.00 ft (KB) To 3720.00 ft (KB) (TVD)**
 Reference Elevations: 1996.00 ft (KB)
 Total Depth: 3720.00 ft (KB) (TVD)
 1988.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press @ Run Depth: 1172.78 psia @ 3711.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.31 End Date: 2013.01.31 Last Calib.: 2013.02.01
 Start Time: 05:16:00 End Time: 13:14:00 Time On Btm: 2013.01.31 @ 06:52:00
 Time Off Btm: 2013.01.31 @ 11:22:00

TEST COMMENT: 1st Open/ 2 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in 30 seconds
 1st Shut In/ 90 Minutes/ No blow back
 2nd Open/ 60 Minutes/ Strong Blow built to the bottom of a 5 gallon bucket in 30 seconds. Gas to surface in 2
 2nd Shut In/ 120 Minutes/ fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1834.55	97.62	Initial Hydro-static
2	92.25	103.13	Open To Flow (1)
3	65.58	103.37	Shut-In(1)
91	1172.78	104.34	End Shut-In(1)
92	61.72	104.71	Open To Flow (2)
154	59.25	94.51	Shut-In(2)
269	1156.62	100.00	Shut-In(3)
270	1794.14	102.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud No show s of oil	0.63

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.63	110.62
Last Gas Rate	1.00	3.63	110.62
Max. Gas Rate	1.00	3.63	110.62



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TOOL DIAGRAM

F.G.Holl Company L.L.C.

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Test Start: 2013.01.31 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 51.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3698.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3675.00	
Hydraulic Tool	5.00			3680.00	
Jars	6.00			3686.00	
Safety Joint	2.00			3688.00	
Packer	5.00			3693.00	28.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Anchor	12.00			3710.00	
Recorder	1.00	8400	Inside	3711.00	
Recorder	1.00	8405	Outside	3712.00	
Bullnose	3.00			3715.00	17.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



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FLUID SUMMARY

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Job Ticket: 16958

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3500.00 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
45.00	Drilling Mud No shows of oil	0.631

Total Length: 45.00 ft Total Volume: 0.631 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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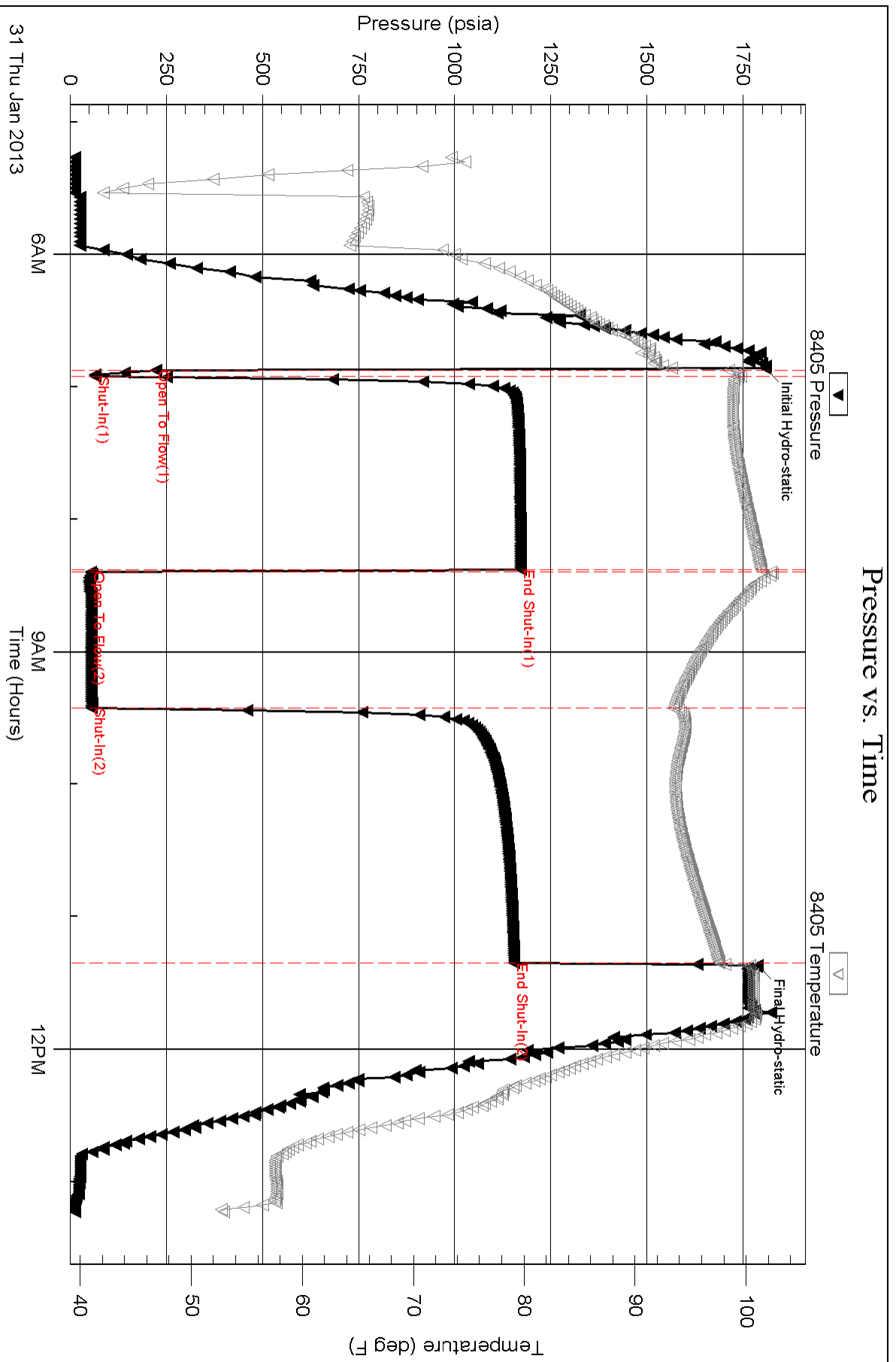
Gas Rates Information

Temperature: 2 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	1.00	3.63	110.62
2	15	1.00	3.63	110.62
2	25	1.00	3.63	110.62
2	35	1.00	3.63	110.62
2	45	1.00	3.63	110.62
2	55	1.00	3.63	110.62
2	55	1.00	3.63	110.62

Pressure vs. Time



Pressure vs. Time

