



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: 2013.02.02 @ 00:00:00

End Date: 2013.02.02 @ 00:00:00

Job Ticket #: 16961 DST #: 8

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

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DRILL STEM TEST REPORT

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ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

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: Shane Konzem

Unit No: 3330 Great Bend/ 40

Interval: 3739.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3750.00 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: 1089.99 psia @ 3751.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.02

End Date: 2013.02.02

Last Calib.: 2013.02.02

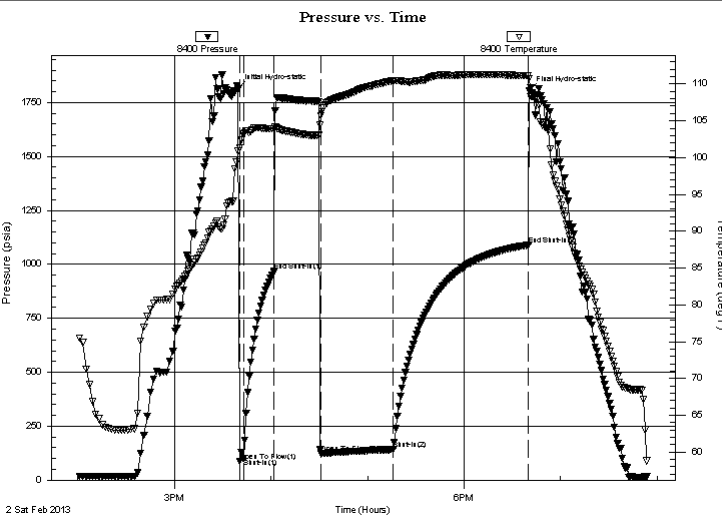
Start Time: 14:00:00

End Time: 19:54:00

Time On Btm: 2013.02.02 @ 15:39:30

Time Off Btm: 2013.02.02 @ 18:40:30

TEST COMMENT: 1st Open/ 2 Minutes. Good blow to the bottom of a 5 gallon bucket in less than 3 minute.
1st Shut In/ 45 Minutes. No blow back
2nd Open/ 45 Minutes. fair blow built to 6 inches into the water
2nd Shut In/ 90 Minutes. Weak Blow back to 1/4 inch in bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1813.07	100.89	Initial Hydro-static
1	86.31	101.37	Open To Flow (1)
4	101.78	103.26	Shut-In(1)
23	969.23	103.92	End Shut-In(1)
52	124.32	105.73	Open To Flow (2)
97	142.51	110.45	Shut-In(2)
181	1089.99	111.15	End Shut-In(2)
181	1804.42	110.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	Drilling Mud	3.16
800.00	Gas in the pipe	11.22

Gas Rates

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



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GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

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Time Test Ended: 00:00:00

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Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

Reference Elevations: 1996.00 ft (KB)

1988.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8405 Outside

Press @ Run Depth: 1089.45 psia @ 3752.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.02

End Date: 2013.02.02

Last Calib.: 2013.02.02

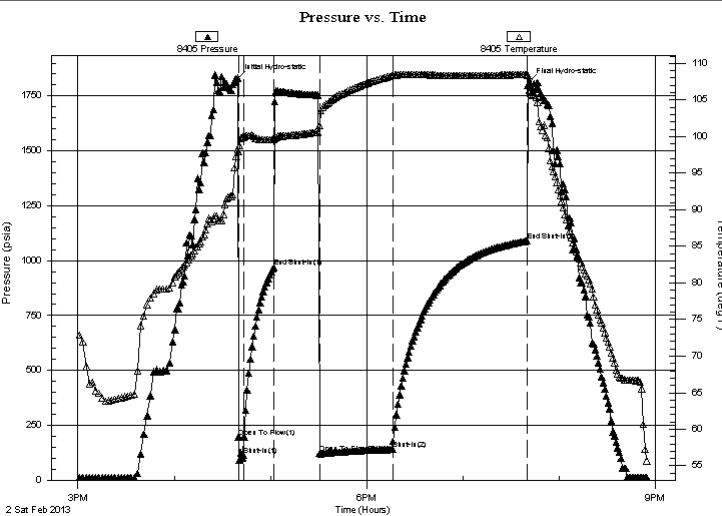
Start Time: 15:00:00

End Time: 20:55:00

Time On Btm: 2013.02.02 @ 16:39:30

Time Off Btm: 2013.02.02 @ 19:41:30

TEST COMMENT: 1st Open/ 2 Minutes. Good blow to the bottom of a 5 gallon bucket in less than 3 minute.
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PRESSURE SUMMARY

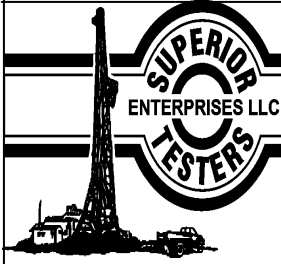
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1831.39	98.22	Initial Hydro-static
1	197.69	97.89	Open To Flow (1)
4	112.93	99.86	Shut-In(1)
23	969.66	99.62	End Shut-In(1)
52	121.50	101.53	Open To Flow (2)
97	141.41	108.31	Shut-In(2)
181	1089.45	108.48	End Shut-In(2)
182	1813.17	106.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	Drilling Mud	3.16
800.00	Gas in the pipe	11.22

Gas Rates

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



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TOOL DIAGRAM

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

15-20s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Schmitt Family #1-15

Job Ticket: 16961

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 52000.00 lb
			<u>Total Volume: 52.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3739.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	39.00 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-InTool	5.00		Inside	3721.00	
Hydraulic Tool	5.00			3726.00	
Jars	6.00			3732.00	
Safety Joint	2.00			3734.00	
Packer	0.00			3734.00	23.00 Bottom Of Top Packer
Packer	5.00			3739.00	
Anchor	11.00			3750.00	
Recorder	1.00	8400	Inside	3751.00	
Recorder	1.00	8405	Outside	3752.00	
Bullnose	3.00			3755.00	16.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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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: 65.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 4700.00 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
225.00	Drilling Mud	3.156
800.00	Gas in the pipe	11.222

Total Length: 1025.00 ft Total Volume: 14.378 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

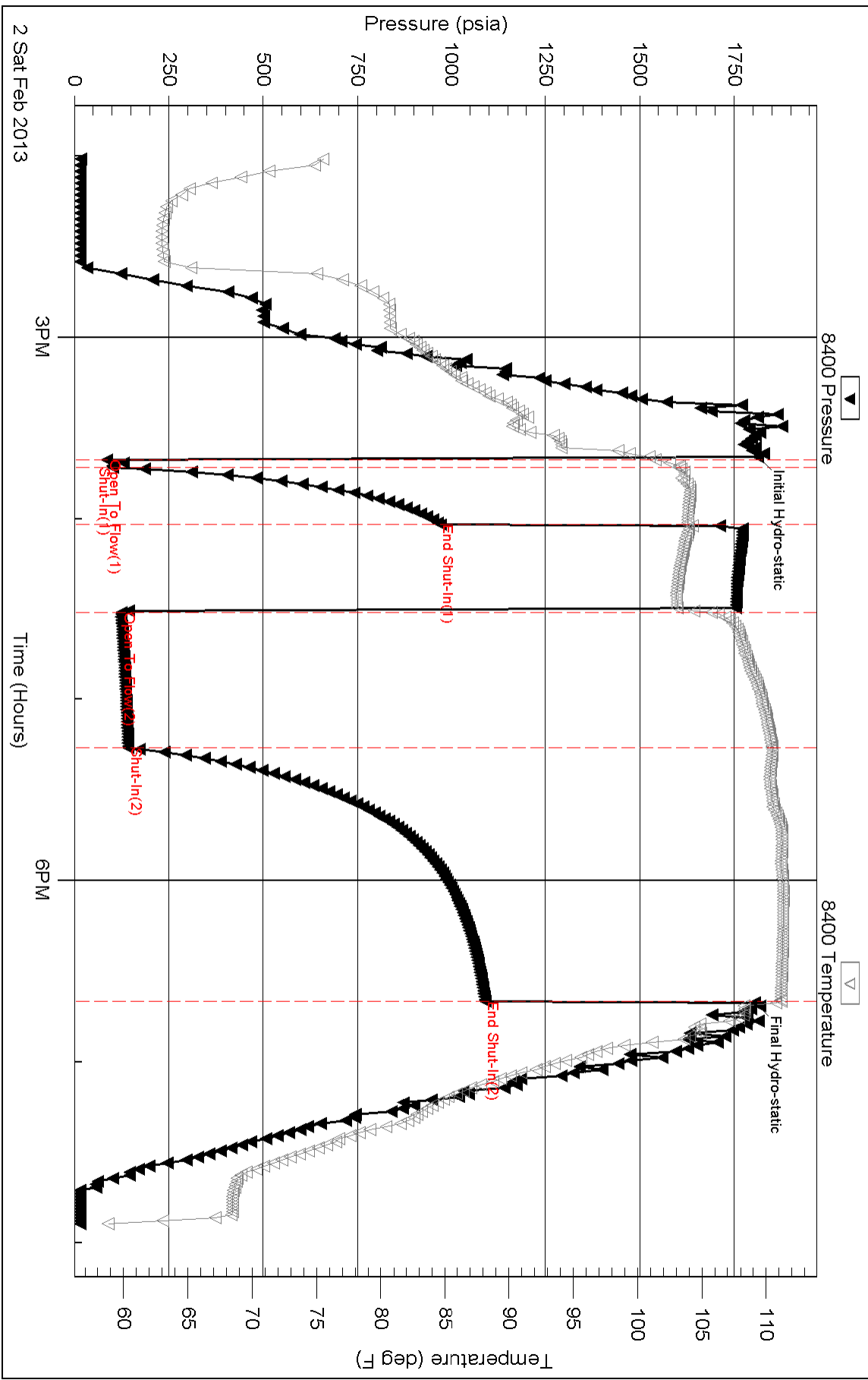
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

