



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita Kansas
67206-2563

ATTN: Frank

Wolf #3-12

12-20s-15w/ Barton

Start Date: 2013.02.13 @ 18:20:00

End Date: 2013.02.14 @ 01:14:30

Job Ticket #: 16971 DST #: 4

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

Printed: 2013.02.13 @ 01:49:37



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Test Start: 2013.02.13 @ 18:20:00

GENERAL INFORMATION:

Formation: **Lansing zone F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:30

Time Test Ended: 01:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330-20/ Great Bend

Interval: 3386.00 ft (KB) To 3400.00 ft (KB) (TVD)

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3400.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ RunDepth: 101.22 psia @ 3396.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.13

End Date:

2013.02.14

Last Calib.:

2013.02.13

Start Time:

18:20:00

End Time:

01:14:30

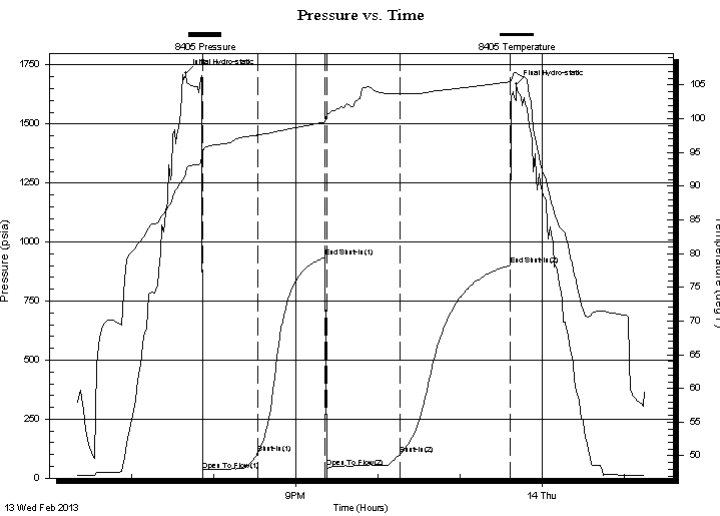
Time On Btm:

2013.02.13 @ 19:40:00

Time Off Btm:

2013.02.13 @ 23:41:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 3 inches in 5 gallon bucket of water in 20 minutes..
 1st Shut In/ 60 Minutes. No blow back
 2nd Open/ 45 Minutes. Fair blow to 6 inches in bucket in 35 minutes.
 2nd Shut In/ 90 Minutes. No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1715.33	92.13	Initial Hydro-static
13	35.43	95.29	Open To Flow (1)
52	103.45	97.58	Shut-In(1)
102	935.40	99.51	End Shut-In(1)
103	44.07	100.63	Open To Flow (2)
156	101.22	103.70	Shut-In(2)
237	901.66	105.47	End Shut-In(2)
241	1668.69	106.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 feet of light gas odor	0.00
60.00	gas, oil and water cut mud	0.84
0.00	2% gas, 28% oil, 20% water, 50% mud	0.00

Gas Rates

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



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Interval: 3386.00 ft (KB) To 3400.00 ft (KB) (TVD)

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3400.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 891.42 psia @ 3397.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.13

End Date:

2013.02.14

Last Calib.:

2013.02.13

Start Time:

18:20:00

End Time:

01:16:00

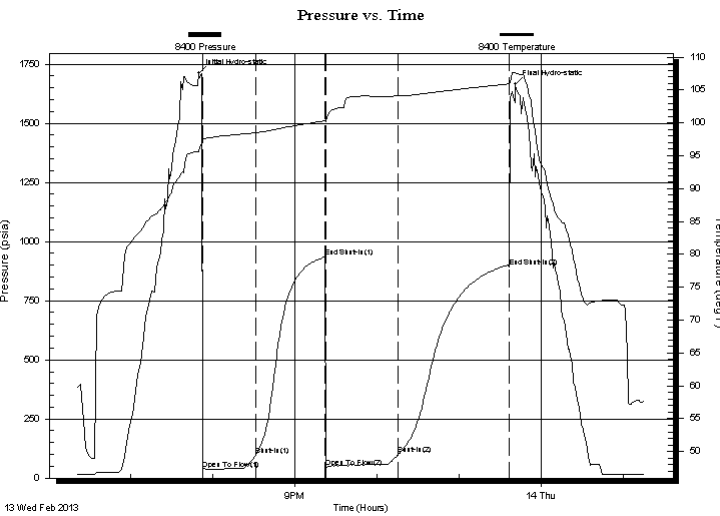
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 2nd Shut In/ 90 Minutes. No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1711.61	95.66	Initial Hydro-static
3	38.35	97.61	Open To Flow (1)
42	96.52	98.51	Shut-In(1)
92	935.42	100.33	End Shut-In(1)
93	47.46	100.20	Open To Flow (2)
146	99.84	104.11	Shut-In(2)
227	891.42	105.93	End Shut-In(2)
232	1663.50	107.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 feet of light gas odor	0.00
60.00	gas, oil and water cut mud	0.84
0.00	2% gas, 28% oil, 20% water, 50% mud	0.00

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company LLC

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Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 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: 61000.00 lb
			<u>Total Volume: 47.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3386.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3363.00	
Hydraulic Tool	5.00			3368.00	
Jars	6.00			3374.00	
Safety Joint	2.00			3376.00	
Packer	5.00			3381.00	28.00 Bottom Of Top Packer
Packer	5.00			3386.00	
Anchor	9.00			3395.00	
Recorder	1.00	8405	Inside	3396.00	
Recorder	1.00	8400	Outside	3397.00	
Bullnose	3.00			3400.00	14.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



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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: 59.00 sec/qt
 Water Loss: 7.20 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
0.00	120 feet of light gas odor	0.000
60.00	gas, oil and water cut mud	0.842
0.00	2% gas, 28% oil, 20% water, 50% mud	0.000

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

