



## 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: 2013.02.12 @ 04:40:00

End Date: 2013.02.12 @ 11:41:30

Job Ticket #: 16970                      DST #: 3

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

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Job Ticket: 16970

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Test Start: 2013.02.12 @ 04:40:00

## GENERAL INFORMATION:

Formation: **Lansing A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:37:30

Time Test Ended: 11:41:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330-20/ Great Bend

**Interval: 3320.00 ft (KB) To 3367.00 ft (KB) (TVD)**

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3367.00 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 @ Run Depth: 102.48 psia @ 3363.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.12

End Date:

2013.02.12

Last Calib.:

2013.02.12

Start Time:

04:40:00

End Time:

11:41:30

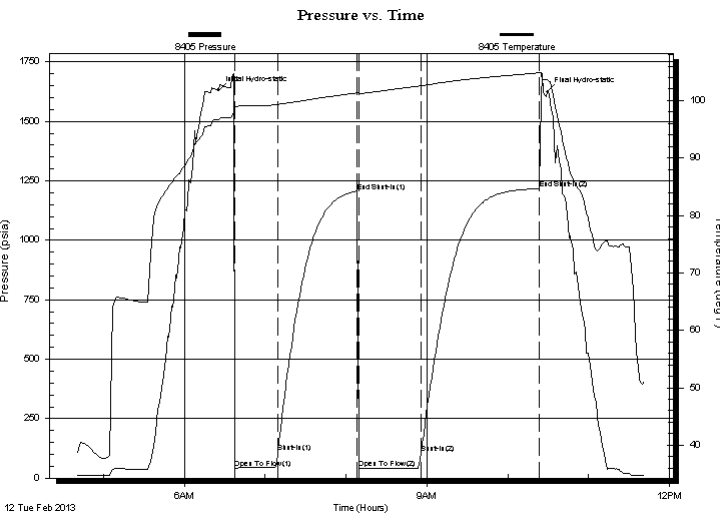
Time On Btm:

2013.02.12 @ 06:25:30

Time Off Btm:

2013.02.12 @ 10:29:30

**TEST COMMENT:** 1st Open/ 30 Minutes. Good blow built to bottom of bucket in 5.5 minutes  
 1st Shut In/ 60 Minutes. No blow back  
 2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in less than 1 minute.  
 2nd Shut In/ 90 Minutes. No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1630.96	96.75	Initial Hydro-static
12	42.13	98.67	Open To Flow (1)
44	109.63	99.33	Shut-In(1)
103	1205.93	101.36	End Shut-In(1)
104	42.39	101.23	Open To Flow (2)
150	102.48	102.58	Shut-In(2)
238	1217.59	104.84	End Shut-In(2)
244	1623.43	103.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud	0.56
0.00	100% mud	0.00

## Gas Rates

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



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Tester: Shane Konzem

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Reference Elevations: 1980.00 ft (KB)

Total Depth: 3367.00 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: 1217.94 psia @ 3364.00 ft (KB)

Capacity: psia

Start Date: 2013.02.12

End Date:

2013.02.12

Last Calib.:

1899.12.30

Start Time: 04:40:00

End Time:

11:42:00

Time On Btm:

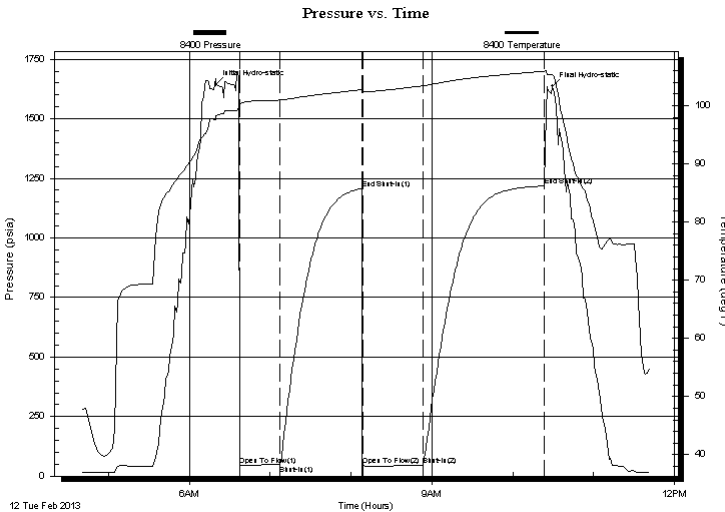
2013.02.12 @ 06:20:00

Time Off Btm:

2013.02.12 @ 10:29:30

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 1st Shut In/ 60 Minutes. No blow back  
 2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in less than 1 minute.  
 2nd Shut In/ 90 Minutes. No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1642.44	98.28	Initial Hydro-static
18	44.89	100.20	Open To Flow (1)
48	47.46	100.97	Shut-In(1)
108	1207.68	102.76	End Shut-In(1)
109	44.96	102.38	Open To Flow (2)
154	43.81	103.40	Shut-In(2)
244	1217.94	105.94	End Shut-In(2)
250	1636.17	105.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud	0.56
0.00	100% mud	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G. Holl Company LLC

**12-20s-15w/ Barton**

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ATTN: Frank

Test Start: 2013.02.12 @ 04:40:00

## Tool Information

Drill Pipe:	Length: 3298.00 ft	Diameter: 3.80 inches	Volume: 46.26 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: 55000.00 lb
			<u>Total Volume: 46.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3320.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	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	3297.00	
Hydraulic Tool	5.00			3302.00	
Jars	6.00			3308.00	
Safety Joint	2.00			3310.00	
Packer	5.00			3315.00	28.00 Bottom Of Top Packer
Packer	5.00			3320.00	
Anchor	0.00			3320.00	
Change Over Sub	0.00			3320.00	
Drill Pipe	0.00		Outside	3320.00	
Change Over Sub	0.00		Outside	3320.00	
Anchor	42.00			3362.00	
Recorder	1.00	8405	Inside	3363.00	
Recorder	1.00	8400	Outside	3364.00	
Bullnose	3.00			3367.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



# DRILL STEM TEST REPORT

## 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: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5800.00 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
40.00	mud	0.561
0.00	100% mud	0.000

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

