



## DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita Kansas  
67206-2563

ATTN: Frank Greenbaum

**Wolf #3-12**

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

Start Date: 2013.02.14 @ 22:20:00

End Date: 2013.02.15 @ 04:56:00

Job Ticket #: 16973                      DST #: 6

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

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

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**Wolf #3-12**

Job Ticket: 16973

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ATTN: Frank Greenbaum

Test Start: 2013.02.14 @ 22:20:00

## GENERAL INFORMATION:

Formation: **Lansing zone "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:30

Time Test Ended: 04:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330-20/ Great Bend

**Interval: 3469.00 ft (KB) To 3488.00 ft (KB) (TVD)**

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3488.00 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: 39.96 psia @ 3484.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.14

End Date:

2013.02.15

Last Calib.:

2013.02.14

Start Time:

22:20:00

End Time:

04:56:00

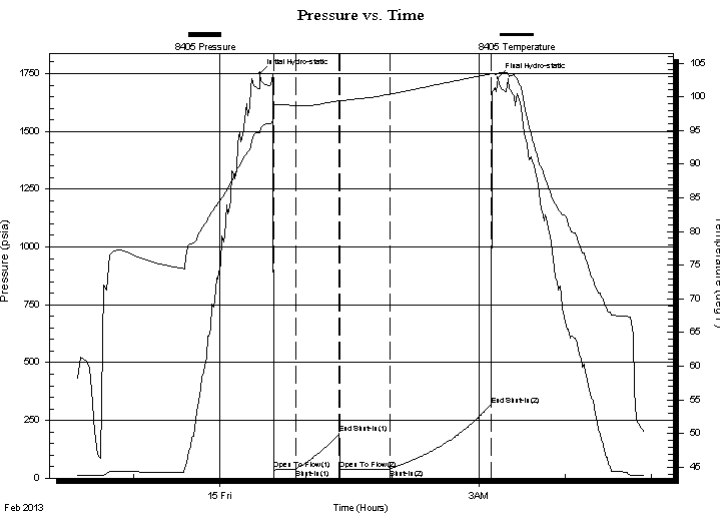
Time On Btm:

2013.02.15 @ 00:28:00

Time Off Btm:

2013.02.15 @ 03:13:30

**TEST COMMENT:** 1st Open/ 15 minutes. Weak blow built to 2 inchs into water in 15 minutes.  
 1st Shut In/ 30 minutes. No blow back  
 2nd Open/ 30 minutes. Weak blow built to 2 inchs into water in 20 minutes.  
 2nd Shut In/ 60 minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1751.50	94.83	Initial Hydro-static
10	37.13	98.55	Open To Flow (1)
25	38.91	98.75	Shut-In(1)
55	192.25	99.45	End Shut-In(1)
56	36.90	99.47	Open To Flow (2)
91	39.96	100.42	Shut-In(2)
161	316.07	103.39	End Shut-In(2)
166	1731.97	103.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud	0.35
0.00	10% oil, 90% mud	0.00

## Gas Rates

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



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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:30

Time Test Ended: 04:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330-20/ Great Bend

**Interval: 3469.00 ft (KB) To 3488.00 ft (KB) (TVD)**

Reference Elevations: 1980.00 ft (KB)

Total Depth: 3488.00 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: 316.69 psia @ 3485.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.14

End Date: 2013.02.15

Last Calib.: 2013.02.14

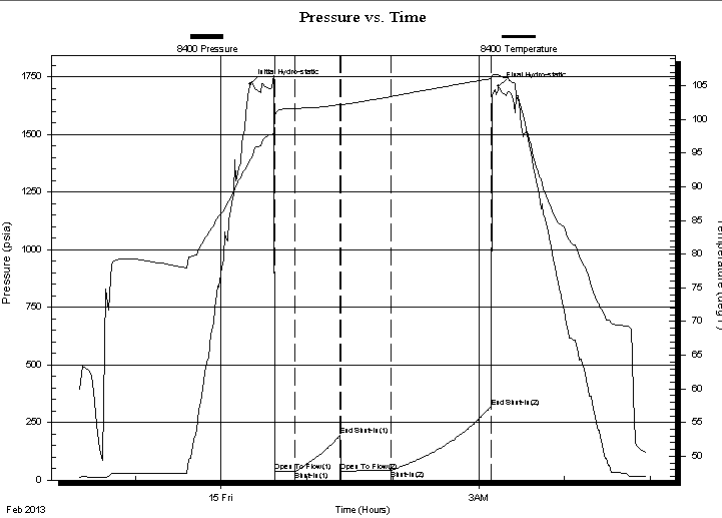
Start Time: 22:20:00

End Time: 04:58:00

Time On Btm: 2013.02.15 @ 00:20:30

Time Off Btm: 2013.02.15 @ 03:14:00

**TEST COMMENT:** 1st Open/ 15 minutes. Weak blow built to 2 inchs into water in 15 minutes.  
 1st Shut In/ 30 minutes. No blow back  
 2nd Open/ 30 minutes. Weak blow built to 2 inchs into water in 20 minutes.  
 2nd Shut In/ 60 minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1720.46	94.21	Initial Hydro-static
17	39.02	100.53	Open To Flow (1)
31	39.98	101.65	Shut-In(1)
63	192.90	102.20	End Shut-In(1)
64	38.82	102.16	Open To Flow (2)
99	42.56	103.40	Shut-In(2)
168	316.69	106.05	End Shut-In(2)
174	1709.03	106.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud	0.35
0.00	10% oil, 90% 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 Greenbaum

Test Start: 2013.02.14 @ 22:20:00

## Tool Information

Drill Pipe:	Length: 3459.00 ft	Diameter: 3.80 inches	Volume: 48.52 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: 58000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3469.00 ft			Final 41500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 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	3446.00	
Hydraulic Tool	5.00			3451.00	
Jars	6.00			3457.00	
Safety Joint	2.00			3459.00	
Packer	5.00			3464.00	28.00 Bottom Of Top Packer
Packer	5.00			3469.00	
Anchor	14.00			3483.00	
Recorder	1.00	8405	Inside	3484.00	
Recorder	1.00	8400	Outside	3485.00	
Bullnose	3.00			3488.00	19.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



# 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: 55.00 sec/qt

Water Loss: 7.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	oil cut mud	0.351
0.00	10% oil, 90% mud	0.000

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

