



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: 2013.02.13 @ 10:05:00

End Date: 2013.02.13 @ 15:45:00

Job Ticket #: 16972 DST #: 5

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

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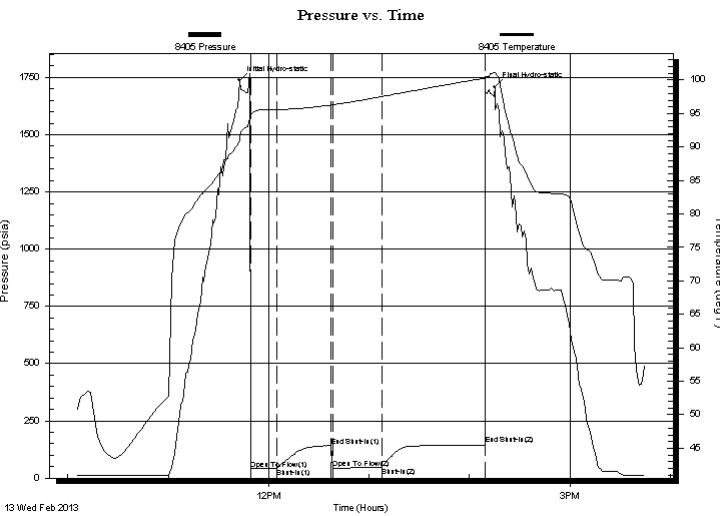
GENERAL INFORMATION:

Formation: **Lansing Zone "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:49:30 Tester: Shane Konzem
 Time Test Ended: 15:45:00 Unit No: 3330- 20/ Great Bend
 Interval: **3446.00 ft (KB) To 3469.00 ft (KB) (TVD)** Reference Elevations: 1980.00 ft (KB)
 Total Depth: 3469.00 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: 46.87 psia @ 3447.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.13 End Date: 2013.02.13 Last Calib.: 2013.02.13
 Start Time: 10:05:00 End Time: 15:45:00 Time On Btm: 2013.02.13 @ 11:42:30
 Time Off Btm: 2013.02.13 @ 14:15:00

TEST COMMENT: 1st Open/ 15 minutes. Weak blow to 2 inches into the water.
 1st Shut In/ 30 minutes. No blow back.
 2nd Open/ 30 Minutes. Good Blow built to bottom of bucket in 15 Minutes.
 2nd Shut In/ 60 minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1737.85	91.01	Initial Hydro-static
7	40.31	94.87	Open To Flow (1)
23	42.53	95.60	Shut-In(1)
56	141.39	96.28	End Shut-In(1)
56	41.95	96.30	Open To Flow (2)
85	46.87	97.52	Shut-In(2)
147	149.34	100.28	End Shut-In(2)
153	1708.75	101.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	540 feet of slight gas odor.	0.00
40.00	oil cut mud	0.56
0.00	30% oil 70% mud	0.00

Gas Rates

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



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 Time Test Ended: 15:45:00
 Interval: **3446.00 ft (KB) To 3469.00 ft (KB) (TVD)**
 Total Depth: 3469.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330- 20/ Great Bend
 Reference Elevations: 1980.00 ft (KB)
 1972.00 ft (CF)
 KB to GR/CF: 8.00 ft

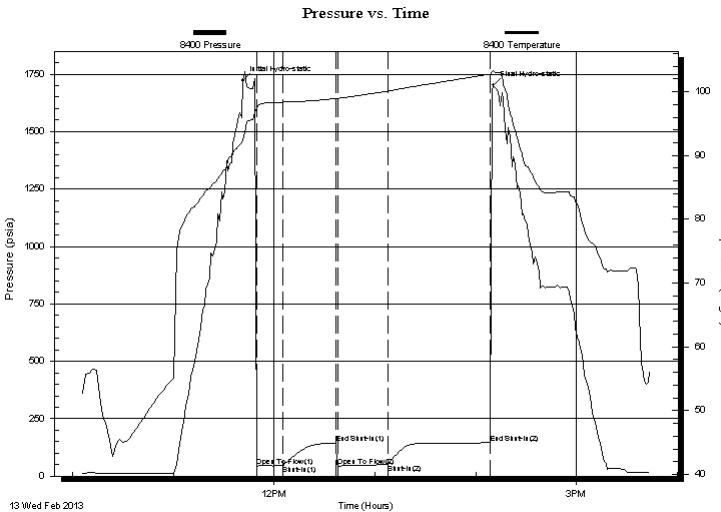
Serial #: 8400

Outside

Press @ RunDepth: 145.11 psia @ 3448.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.13 End Date: 2013.02.13 Last Calib.: 2013.02.13
 Start Time: 10:05:00 End Time: 15:43:30 Time On Btm: 2013.02.13 @ 11:41:30
 Time Off Btm: 2013.02.13 @ 14:10:30

TEST COMMENT: 1st Open/ 15 minutes. Weak blow to 2 inches into the water.
 1st Shut In/ 30 minutes. No blow back.
 2nd Open/ 30 Minutes. Good Blow built to bottom of bucket in 15 Minutes.
 2nd Shut In/ 60 minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1722.12	92.27	Initial Hydro-static
8	43.89	97.40	Open To Flow (1)
24	45.76	98.35	Shut-In(1)
56	143.84	98.97	End Shut-In(1)
57	43.07	98.96	Open To Flow (2)
86	49.79	100.08	Shut-In(2)
147	145.11	102.73	End Shut-In(2)
149	1702.14	103.34	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	540 feet of slight gas odor.	0.00
40.00	oil cut mud	0.56
0.00	30% oil 70% mud	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

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Test Start: 2013.02.13 @ 10:05:00

Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 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: 68000.00 lb
			<u>Total Volume: 48.06 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3446.00 ft			Final 41500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3423.00	
Hydraulic Tool	5.00			3428.00	
Jars	6.00			3434.00	
Safety Joint	2.00			3436.00	
Packer	5.00			3441.00	28.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Anchor	0.00			3446.00	
Recorder	1.00	8405	Inside	3447.00	
Recorder	1.00	8400	Outside	3448.00	
Bullnose	3.00			3451.00	5.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



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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: 55.00 sec/qt
Water Loss: 7.20 in³
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: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	540 feet of slight gas odor.	0.000
40.00	oil cut mud	0.561
0.00	30% oil 70% 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

