



## DRILL STEM TEST REPORT

Prepared For: **F G Holl Company**

9431 East Central STE 100  
Wichita Kansas 67206

ATTN: Renna Husted

**Neuforth 1-7**

**7-19s-14w-Barton**

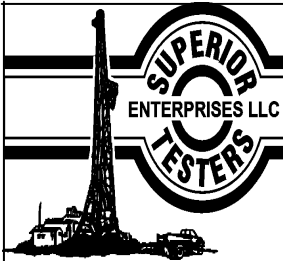
Start Date: 2013.07.10 @ 06:30:00

End Date: 2013.07.10 @ 13:04:00

Job Ticket #: 17531                      DST #: 3

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

Printed: 2013.07.10 @ 11:25:22



# DRILL STEM TEST REPORT

F G Holl Company  
 9431 East Central STE 100  
 Wichita Kansas 67206  
 ATTN: Renna Husted

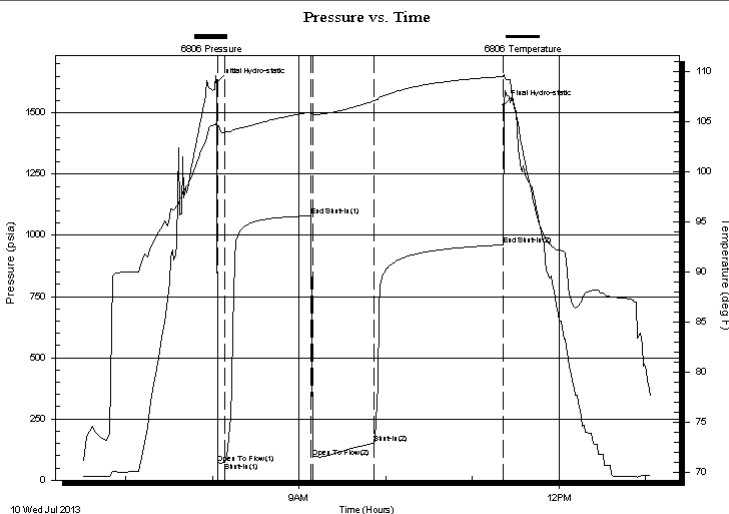
**7-19s-14w-Barton**  
**Neuforth 1-7**  
 Job Ticket: 17531 **DST#: 3**  
 Test Start: 2013.07.10 @ 06:30:00

## GENERAL INFORMATION:

Formation: **Lansing A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:03:30  
 Time Test Ended: 13:04:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-35  
 Interval: **3250.00 ft (KB) To 3282.00 ft (KB) (TVD)**  
 Reference Elevations: 1938.00 ft (KB)  
 Total Depth: 3282.00 ft (KB) (TVD)  
 1931.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

**Serial #: 6806** **Outside**  
 Press @ RunDepth: 151.63 psia @ 3279.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.10 End Date: 2013.07.10 Last Calib.: 2013.07.10  
 Start Time: 06:30:00 End Time: 13:04:00 Time On Btm: 2013.07.10 @ 08:03:00  
 Time Off Btm: 2013.07.10 @ 11:22:00

**TEST COMMENT:** 1st Open 5 minutes Strong blow built to the bottom of a 5 gallon bucket in 2 minutes.  
 1st Shut in 60 minutes No blow back  
 2nd Open 45 minutes Strong blow blew off bottom bucket instantly.  
 2nd Shut in 90 minutes No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1624.14	104.87	Initial Hydro-static
1	67.40	104.31	Open To Flow (1)
6	73.89	103.92	Shut-In(1)
66	1079.47	105.90	End Shut-In(1)
67	94.89	105.68	Open To Flow (2)
109	151.63	107.02	Shut-In(2)
199	961.42	109.47	End Shut-In(2)
199	1533.09	109.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
305.00	Gassy oil cut mud	4.28
0.00	Oil 65% Gas 30% Mud 5%	0.00
0.00	2733 gas in pipe.	0.00

## Gas Rates

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



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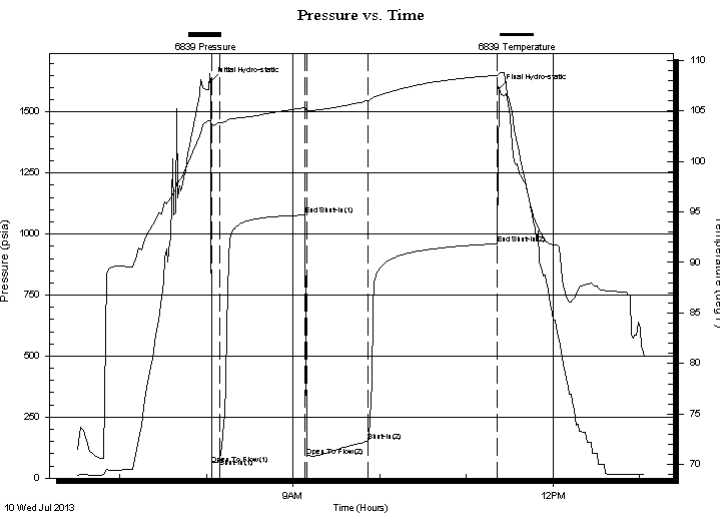
**7-19s-14w-Barton**  
**Neuforth 1-7**  
 Job Ticket: 17531 **DST#: 3**  
 Test Start: 2013.07.10 @ 06:30:00

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Formation: **Lansing A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:03:30  
 Time Test Ended: 13:04:00  
 Interval: **3250.00 ft (KB) To 3282.00 ft (KB) (TVD)**  
 Total Depth: 3282.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-35  
 Reference Elevations: 1938.00 ft (KB)  
 1931.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6839 Inside**  
 Press @ Run Depth: 960.14 psia @ 3278.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.10 End Date: 2013.07.10 Last Calib.: 2013.07.10  
 Start Time: 06:30:00 End Time: 13:04:00 Time On Btm: 2013.07.10 @ 08:03:00  
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 1st Shut in 60 minutes No blow back  
 2nd Open 45 minutes Strong blow blew off bottom bucket instantly.  
 2nd Shut in 90 minutes No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1622.48	104.14	Initial Hydro-static
1	58.37	103.54	Open To Flow (1)
7	83.17	103.83	Shut-In(1)
66	1077.68	105.33	End Shut-In(1)
67	88.81	105.08	Open To Flow (2)
109	151.13	106.02	Shut-In(2)
199	960.14	108.50	End Shut-In(2)
200	1596.75	108.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
305.00	Gassy oil cut mud	4.28
0.00	Oil 65% Gas 30% Mud 5%	0.00
0.00	2733 gas in pipe.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F G Holl Company

**7-19s-14w-Barton**

9431 East Central STE 100  
Wichita Kansas 67206

**Neuforth 1-7**

Job Ticket: 17531

**DST#: 3**

ATTN: Renna Hustead

Test Start: 2013.07.10 @ 06:30:00

## Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.80 inches	Volume: 45.50 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: 56000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3250.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3227.00	
Hydraulic Tool	5.00			3232.00	
Jars	6.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	28.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Anchor	27.00			3277.00	
Recorder	1.00	6839	Inside	3278.00	
Recorder	1.00	6806	Outside	3279.00	
Bull Plug	3.00			3282.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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**Neuforth 1-7**

Job Ticket: 17531

**DST#: 3**

ATTN: Renna Hustead

Test Start: 2013.07.10 @ 06:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 9.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9500.00 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
305.00	Gassy oil cut mud	4.278
0.00	Oil 65% Gas 30% Mud 5%	0.000
0.00	2733 gas in pipe.	0.000

Total Length: 305.00 ft      Total Volume: 4.278 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

