



## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 6205

ATTN: Rene Husted

**Mull unit #B 1-14**

**14-20s-15w-Barton**

Start Date: 2012.08.15 @ 00:00:00

End Date: 2012.08.15 @ 00:00:00

Job Ticket #: 17785                      DST #: 2

Superior Testers Enterprises LLC  
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# DRILL STEM TEST REPORT

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 9431 East Central Suit 100  
 Wichita Kansas 6205  
 ATTN: Rene Husted

**14-20s-15w-Barton**  
**Mull unit #B 1-14**  
 Job Ticket: 17785 **DST#: 2**  
 Test Start: 2012.08.15 @ 00:00:00

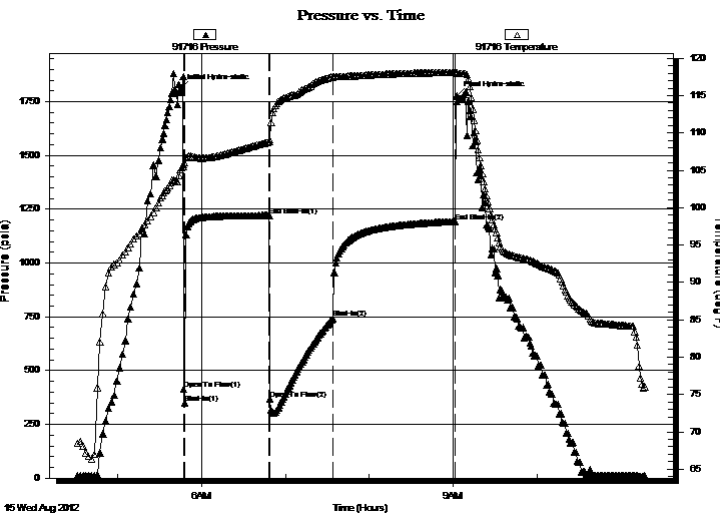
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00  
 Tester: Gene Budig  
 Time Test Ended: 00:00:00  
 Unit No: 3335-22  
 Interval: **3691.00 ft (KB) To 3705.00 ft (KB) (TVD)**  
 Reference Elevations: 2002.00 ft (KB)  
 Total Depth: 3705.00 ft (KB) (TVD) 1994.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 91716

Press @ RunDepth: 1193.24 psia @ ft (KB) Capacity: psia  
 Start Date: 2012.08.15 End Date: 2012.08.15 Last Calib.: 1899.12.30  
 Start Time: 04:30:00 End Time: 11:17:30 Time On Btm: 2012.08.15 @ 05:45:00  
 Time Off Btm: 2012.08.15 @ 09:02:30

**TEST COMMENT:** 1st Opening 1 Minute Strong blow bottom of the bucket in 30 seconds  
 1st Shut-In 60 Minutes-Weak blow back  
 2nd Opening 45 Minutes-Strong blow gas to surface in 2 minutes see gas report  
 2nd Shut-In 90 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1810.18	105.04	Initial Hydro-static
3	414.03	105.72	Open To Flow (1)
3	350.51	106.04	Shut-In(1)
64	1220.87	108.81	End Shut-In(1)
64	369.10	109.12	Open To Flow (2)
109	742.32	117.50	Shut-In(2)
197	1193.24	118.11	End Shut-In(2)
198	1776.20	118.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	Slightly oil cut mud	1.40
0.00	6%Gas 2%Oil 92%Mud	0.00
480.00	Slightly mud cut w atery oil	6.73
0.00	10%Gas 55%oil 35%Water	0.00
240.00	Clean gassy oil 15%Gas 85% oil	3.37
0.00	Gravity 39 Corrected	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	2.87	44.83
Last Gas Rate	0.50	3.25	21.92
Max. Gas Rate	0.50	4.16	28.06



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G Holl Company

**14-20s-15w-Barton**

9431 East Central Suit 100  
Wichita Kansas 6205

**Mull unit #B 1-14**

Job Ticket: 17785

**DST#: 2**

ATTN: Rene Hustedad

Test Start: 2012.08.15 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 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: 64000.00 lb
			<u>Total Volume: 51.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3691.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3673.00	
Hydraulic Tool	5.00			3678.00	
Jars	6.00			3684.00	
Safety Joint	2.00			3686.00	
Packer	5.00			3691.00	23.00 Bottom Of Top Packer
Perforations	9.00			3700.00	
Recorder	1.00	8524	Inside	3701.00	
Recorder	1.00	91716	Outside	3702.00	
Bull Plug	3.00			3705.00	14.00 Anchor Tool
<b>Total Tool Length:</b>	<b>37.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G Holl Company

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Job Ticket: 17785

**DST#: 2**

ATTN: Rene Husted

Test Start: 2012.08.15 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 74.00 sec/qt  
Water Loss: 9.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7300.00 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
100.00	Slightly oil cut mud	1.403
0.00	6%Gas 2%Oil 92%Mud	0.000
480.00	Slightly mud cut watery oil	6.733
0.00	10%Gas 55%oil 35%Water	0.000
240.00	Clean gassy oil 15%Gas 85% oil	3.367
0.00	Gravity 39 Corrected	0.000
60.00	slightly oil cut w ater	0.842
0.00	10%Gas 2%oil 88%Water	0.000
970.00	Gassy Water 5%Gas 95%Water	13.607
0.00	Chlorides28000	0.000

Total Length: 1850.00 ft      Total Volume: 25.952 bbl

Num Fluid Samples: 0

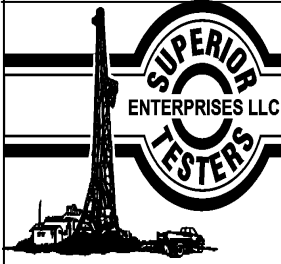
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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**GAS RATES**

F.G Holl Company

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Test Start: 2012.08.15 @ 00:00:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	0.75	2.87	44.83
2	15	0.75	1.81	28.27
2	20	0.50	3.95	26.64
2	30	0.50	4.16	28.06
2	40	0.50	3.50	23.61
2	45	0.50	3.25	21.92

