



## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**mAUNEY #1-6**

**6-21S-15W bARTON**

Start Date: 2012.10.20 @ 00:00:00

End Date: 2012.10.20 @ 00:00:00

Job Ticket #: 16890                      DST #: 7

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

Printed: 2012.10.20 @ 15:35:00



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Test Start: 2012.10.20 @ 00:00:00

## GENERAL INFORMATION:

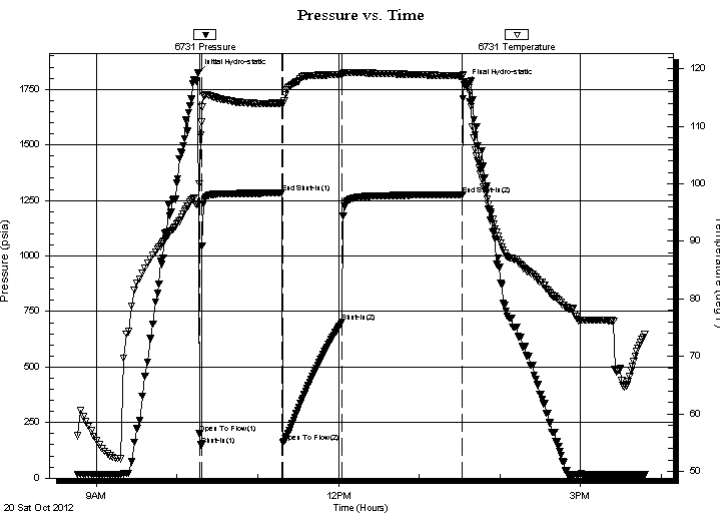
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00  
 Tester: Gene Budig  
 Time Test Ended: 00:00:00  
 Unit No: 3320  
 Interval: **3807.00 ft (KB) To 3815.00 ft (KB) (TVD)**  
 Reference Elevations: 1966.00 ft (KB)  
 Total Depth: 3815.00 ft (KB) (TVD) 1958.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 6731

**Inside**

Press @ Run Depth: 1276.73 psia @ 3811.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.10.20 End Date: 2012.10.20 Last Calib.: 2012.10.20  
 Start Time: 08:45:00 End Time: 15:48:00 Time On Btm: 2012.10.20 @ 10:15:30  
 Time Off Btm: 2012.10.20 @ 13:34:00

**TEST COMMENT:** 1st Opening 2 Minutes--Strong blow built to the bottom of a 5 gallon bucekt in 15 seconds  
 1st Shut-In 60 Minutes--Weak blow back  
 2nd Opening 45 Minutes--Strong blow gas to surface in 20 minutes see gas report  
 2nd Shut-In 90 Minutes--Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1822.69	96.51	Initial Hydro-static
1	199.84	100.00	Open To Flow (1)
3	149.79	110.69	Shut-In(1)
62	1283.61	114.03	End Shut-In(1)
63	162.62	113.82	Open To Flow (2)
108	702.91	118.94	Shut-In(2)
197	1276.73	118.74	End Shut-In(2)
199	1776.96	117.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	clean oil	3.37
0.00	15%Gas 85%Oil Gravity 38 Corrected	0.00
1200.00	Water Chlorides 38000	16.83

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	5.61
Last Gas Rate	0.13	22.00	8.23
Max. Gas Rate	0.13	30.00	11.23



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**mAUNEY #1-6**

Job Ticket: 16890

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2012.10.20 @ 00:00:00

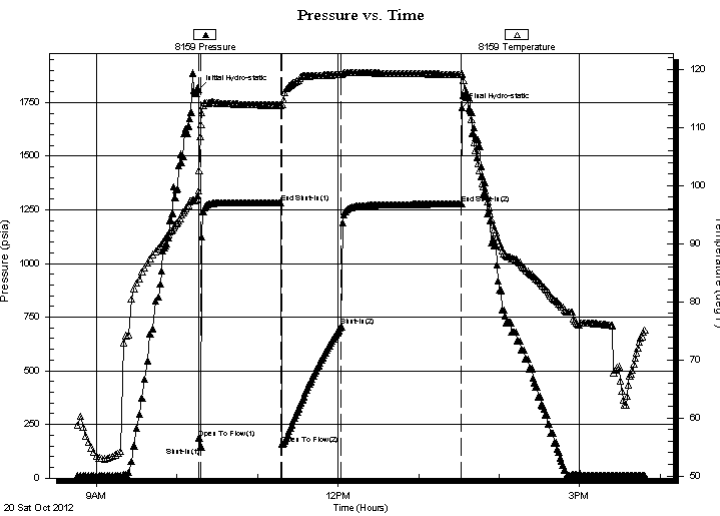
## GENERAL INFORMATION:

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: 3320  
 Interval: **3807.00 ft (KB) To 3815.00 ft (KB) (TVD)**  
 Reference Elevations: 1966.00 ft (KB)  
 Total Depth: 3815.00 ft (KB) (TVD) 1958.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8159 Outside

Press @ Run Depth: 1277.78 psia @ 3812.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.10.20 End Date: 2012.10.20 Last Calib.: 2012.10.20  
 Start Time: 08:45:00 End Time: 15:48:30 Time On Btm: 2012.10.20 @ 10:16:00  
 Time Off Btm: 2012.10.20 @ 13:32:30

**TEST COMMENT:** 1st Opening 2 Minutes--Strong blow built to the bottom of a 5 gallon bucekt in 15 seconds  
 1st Shut-In 60 Minutes--Weak blow back  
 2nd Opening 45 Minutes--Strong blow gas to surface in 20 minutes see gas report  
 2nd Shut-In 90 Minutes--Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1810.23	99.13	Initial Hydro-static
1	185.71	102.57	Open To Flow (1)
2	145.78	110.55	Shut-In(1)
62	1284.05	113.86	End Shut-In(1)
63	156.35	113.95	Open To Flow (2)
107	706.71	119.09	Shut-In(2)
196	1277.78	119.12	End Shut-In(2)
197	1725.47	119.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	clean oil	3.37
0.00	15%Gas 85%Oil Gravity 38 Corrected	0.00
1200.00	Water Chlorides 38000	16.83

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	5.61
Last Gas Rate	0.13	22.00	8.23
Max. Gas Rate	0.13	30.00	11.23



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**6-21S-15W bARTON**

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**mAUNEY #1-6**

Job Ticket: 16890

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2012.10.20 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 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:	52000.00 lb	
			<u>Total Volume:</u>	53.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	42000.00 lb	
Depth to Top Packer:	3807.00 ft			Final	46000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	8.00 ft					
Tool Length:	31.00 ft					
Number of Packers:	1	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3789.00	
Hydraulic Tool	5.00			3794.00	
Jars	6.00			3800.00	
Safety Joint	2.00			3802.00	
Packer	5.00			3807.00	23.00 Bottom Of Top Packer
Perforations	3.00			3810.00	
Recorder	1.00	6731	Inside	3811.00	
Recorder	1.00	8159	Outside	3812.00	
Bullnose	3.00			3815.00	8.00 Anchor Tool
<b>Total Tool Length:</b>	<b>31.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Job Ticket: 16890

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2012.10.20 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 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
240.00	clean oil	3.367
0.00	15%Gas 85%Oil Gravity 38 Corrected	0.000
1200.00	Water Chlorides 38000	16.833

Total Length: 1440.00 ft      Total Volume: 20.200 bbl

Num Fluid Samples: 0

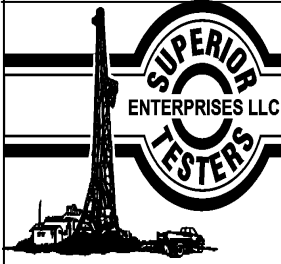
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.

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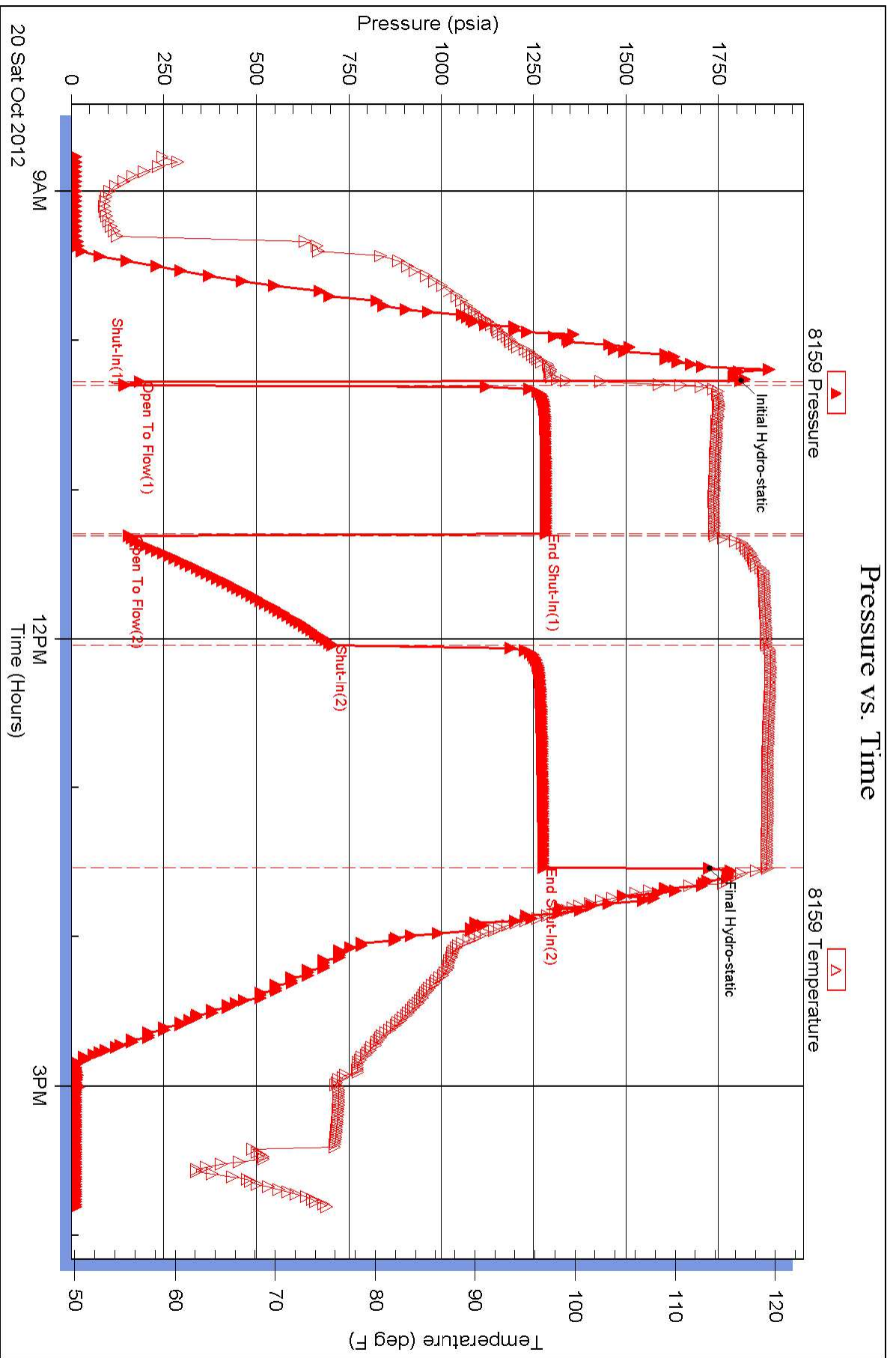
Test Start: 2012.10.20 @ 00:00:00

## 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	25	0.13	15.00	5.61
2	35	0.13	30.00	11.23
2	45	0.13	22.00	8.23



### Pressure vs. Time

