



## DRILL STEM TEST REPORT

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

9431 East Central Suited 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

### **Demel Unit #1-36**

#### **30-20s-16w**

Start Date: 2012.08.27 @ 00:00:00

End Date: 2012.08.27 @ 00:00:00

Job Ticket #: 17789                      DST #: 2

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

Printed: 2012.08.27 @ 09:39:19



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Test Start: 2012.08.27 @ 00:00:00

## GENERAL INFORMATION:

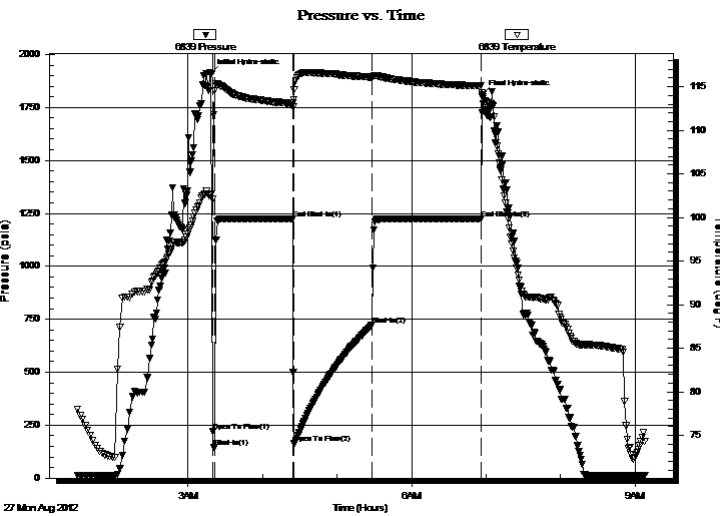
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00  
 Tester: Gene Budig  
 Time Test Ended: 00:00:00  
 Unit No: 3335  
 Interval: **3777.00 ft (KB) To 3785.00 ft (KB) (TVD)**  
 Reference Elevations: 2017.00 ft (KB)  
 Total Depth: 3785.00 ft (KB) (TVD)  
 2009.00 ft (CF)  
 Hole Diameter: 7.80 inches  
 Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 6839

**Outside**

Press @ RunDepth: 1225.10 psia @ 3782.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 1899.12.30  
 Start Time: 01:30:00 End Time: 09:08:00 Time On Btm: 2012.08.27 @ 03:18:00  
 Time Off Btm: 2012.08.27 @ 06:57:00

**TEST COMMENT:** 1st Opening 2 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 1 minute  
 1st Shut-In 60 Minutes-No low back  
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 2 minutes gas in 25 minutes  
 2nd Shut-In 90 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1910.60	102.62	Initial Hydro-static
2	219.13	102.11	Open To Flow (1)
4	145.42	114.58	Shut-In(1)
66	1225.41	113.12	End Shut-In(1)
67	164.75	113.52	Open To Flow (2)
130	722.22	116.10	Shut-In(2)
218	1225.10	115.10	End Shut-In(2)
219	1808.26	113.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Oil and gas cut muddy water	2.52
0.00	30%Gas 10%Oil 20%Mud 40%Water	0.00
180.00	Oil Gas and Mud cut water	2.52
0.00	2%Gas 1%Oil 2%Mud 95%Water	0.00
1165.00	Water Chlorides	16.34

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	4.92	33.19
Last Gas Rate	0.50	5.22	35.21
Max. Gas Rate	0.50	5.28	35.62



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Job Ticket: 17789

**DST#: 2**

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## GENERAL INFORMATION:

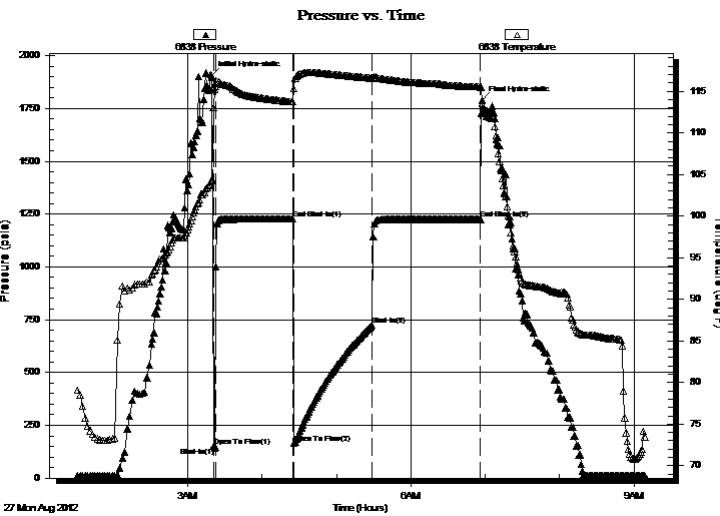
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 Time Test Ended: 00:00:00  
 Unit No: 3335  
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 Reference Elevations: 2017.00 ft (KB)  
 Total Depth: 3785.00 ft (KB) (TVD)  
 2009.00 ft (CF)  
 Hole Diameter: 7.80 inches  
 Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 6838

Inside

Press @ Run Depth: 1225.74 psia @ 3781.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 2012.08.27  
 Start Time: 01:30:00 End Time: 09:09:00 Time On Btm: 2012.08.27 @ 03:19:00  
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 1st Shut-In 60 Minutes-No low back  
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 2 minutes gas in 25 minutes  
 2nd Shut-In 90 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1905.30	104.29	Initial Hydro-static
2	149.54	113.07	Open To Flow (1)
3	147.13	115.60	Shut-In(1)
66	1226.08	113.77	End Shut-In(1)
67	164.30	115.34	Open To Flow (2)
130	724.20	116.57	Shut-In(2)
217	1225.74	115.52	End Shut-In(2)
219	1789.18	113.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Oil and gas cut muddy water	2.52
0.00	30%Gas 10%Oil 20%Mud 40%Water	0.00
180.00	Oil Gas and Mud cut water	2.52
0.00	2%Gas 1%Oil 2%Mud 95%Water	0.00
1165.00	Water Chlorides	16.34

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	4.92	33.19
Last Gas Rate	0.50	5.22	35.21
Max. Gas Rate	0.50	5.28	35.62



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**30-20s-16w**

9431 East Central Suited 100  
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**Demel Unit #1-36**

Job Ticket: 17789

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2012.08.27 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3757.00 ft	Diameter: 3.80 inches	Volume: 52.70 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: 60000.00 lb
			<u>Total Volume: 52.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3777.00 ft			Final 50000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3759.00	
Hydraulic Tool	5.00			3764.00	
Jars	6.00			3770.00	
Safety Joint	2.00			3772.00	
Packer	5.00			3777.00	23.00 Bottom Of Top Packer
Perforations	3.00			3780.00	
Recorder	1.00	6838	Inside	3781.00	
Recorder	1.00	6839	Outside	3782.00	
Bull Plug	3.00			3785.00	8.00 Anchor Tool
<b>Total Tool Length:</b>	<b>31.00</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: 58.00 sec/qt  
Water Loss: 10.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8100.00 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
180.00	Oil and gas cut muddy w ater	2.525
0.00	30%Gas 10%Oil 20%Mud 40%Water	0.000
180.00	Oil Gas and Mud cut w ater	2.525
0.00	2%Gas 1%Oil 2%Mud 95%Water	0.000
1165.00	Water Chlorides	16.342

Total Length: 1525.00 ft      Total Volume: 21.392 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 L.L.C.

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Test Start: 2012.08.27 @ 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	30	0.50	4.92	33.19
2	40	0.50	5.28	35.62
2	50	0.50	5.27	35.55
2	60	0.50	5.22	35.21

