



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: 2012.08.26 @ 00:00:00

End Date: 2012.08.26 @ 00:00:00

Job Ticket #: 17788 DST #: 1

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

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DRILL STEM TEST REPORT

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

30-20s-16w

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Job Ticket: 17788

DST#: 1

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Test Start: 2012.08.26 @ 00:00:00

GENERAL INFORMATION:

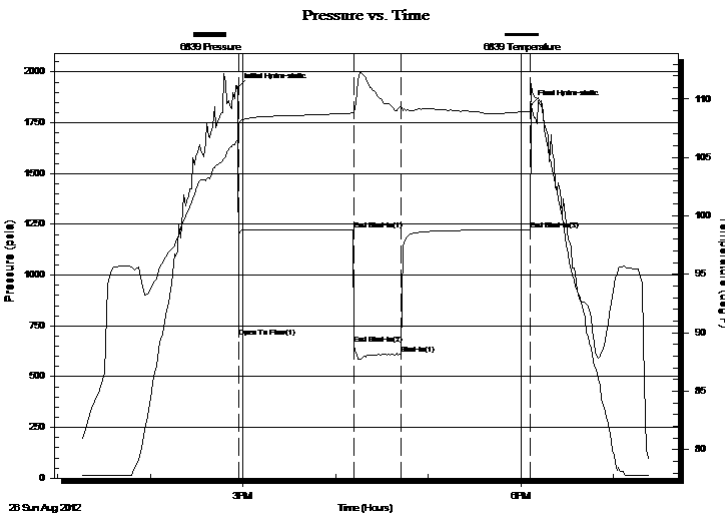
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3765.00 ft (KB) To 3777.00 ft (KB) (TVD)**
 Total Depth: 3777.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-50
 Reference Elevations: 2017.00 ft (KB)
 2009.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ Run Depth: 1222.17 psia @ 3769.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.08.26 End Date: 2012.08.26 Last Calib.: 2012.08.26
 Start Time: 13:15:00 End Time: 19:23:30 Time On Btm: 2012.08.26 @ 14:56:30
 Time Off Btm: 2012.08.26 @ 18:07:00

TEST COMMENT: 1st Opening 1 Minute-Strong blow with gas to surface
 1st Shut-In 60 Minutes-Weak blow back
 2nd Opening 30 Minutes Strong blow see gas flow report
 2nd Shut-In 90 Minutes-Weak blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.37	106.41	Initial Hydro-static
1	696.06	106.90	Open To Flow (1)
75	1224.48	108.81	End Shut-In(1)
76	660.06	108.82	End Shut-In(2)
106	612.31	109.46	Shut-In(1)
190	1222.17	108.97	End Shut-In(3)
191	1838.55	111.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oil and gas cut muddy w ater	0.70
0.00	20%Gas 35%Oil 15%Mud 30%Water	0.00
45.00	Slightly oil and gas cut w ater	0.63
0.00	1%Oil 2%Mud 97%Water	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	38.00	1092.45
Last Gas Rate	1.00	91.00	2616.14
Max. Gas Rate	1.00	91.00	2616.14



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Demel Unit #1-36

Job Ticket: 17788

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.08.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-50

Interval: 3765.00 ft (KB) To 3777.00 ft (KB) (TVD)

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3777.00 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: 1221.53 psia @ 3768.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.26

End Date: 2012.08.26

Last Calib.: 2012.08.26

Start Time: 13:15:00

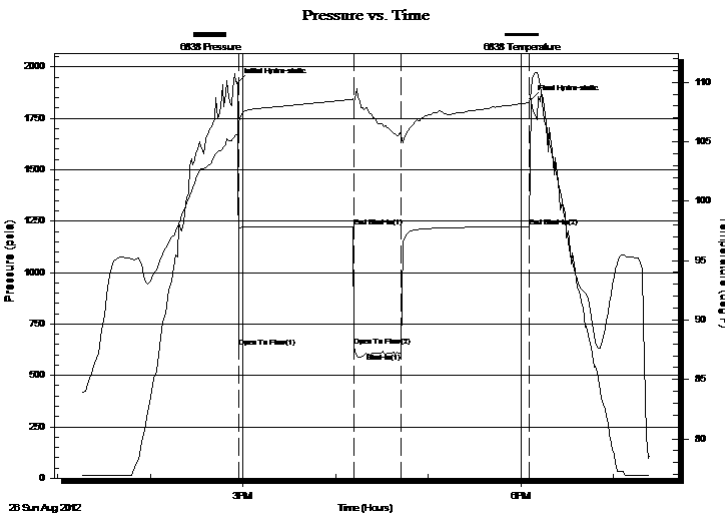
End Time: 19:24:00

Time On Btm: 2012.08.26 @ 14:56:30

Time Off Btm: 2012.08.26 @ 18:06:30

TEST COMMENT: 1st Opening 1 Minute-Strong blow with gas to surface
 1st Shut-In 60 Minutes-Weak blow back
 2nd Opening 30 Minutes Strong blow see gas flow report
 2nd Shut-In 90 Minutes-Weak blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1922.64	105.62	Initial Hydro-static
1	639.71	105.97	Open To Flow (1)
75	1223.94	108.59	End Shut-In (1)
76	644.69	108.37	Open To Flow (2)
107	607.08	105.58	Shut-In (1)
189	1221.53	108.30	End Shut-In (2)
190	1841.82	109.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oil and gas cut muddy w ater	0.70
0.00	20%Gas 35%Oil 15%Mud 30%Water	0.00
45.00	Slightly oil and gas cut w ater	0.63
0.00	1%Oil 2%Mud 97%Water	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	38.00	1092.45
Last Gas Rate	1.00	91.00	2616.14
Max. Gas Rate	1.00	91.00	2616.14



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TOOL DIAGRAM

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

30-20s-16w

9431 East Central Suited 100
Wichita, Kansas 67206

Demel Unit #1-36

Job Ticket: 17788

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.08.26 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3752.00 ft	Diameter: 3.80 inches	Volume: 52.63 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: 55000.00 lb
			<u>Total Volume: 52.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3760.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			3737.00	
Hydraulic Tool	5.00			3742.00	
Jars	6.00			3748.00	
Safety Joint	2.00			3750.00	
Packer	5.00			3755.00	28.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Perforations	7.00			3767.00	
Recorder	1.00	6838	Inside	3768.00	
Recorder	1.00	6839	Outside	3769.00	
Bull Plug	3.00			3772.00	12.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



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FLUID SUMMARY

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Demel Unit #1-36

Job Ticket: 17788

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.08.26 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 10.19 in³
Resistivity: ohm.m
Salinity: 6800.00 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
50.00	Oil and gas cut muddy w ater	0.701
0.00	20%Gas 35%Oil 15%Mud 30%Water	0.000
45.00	Slightly oil and gas cut w ater	0.631
0.00	1%Oil 2%Mud 97%Water	0.000

Total Length: 95.00 ft Total Volume: 1.332 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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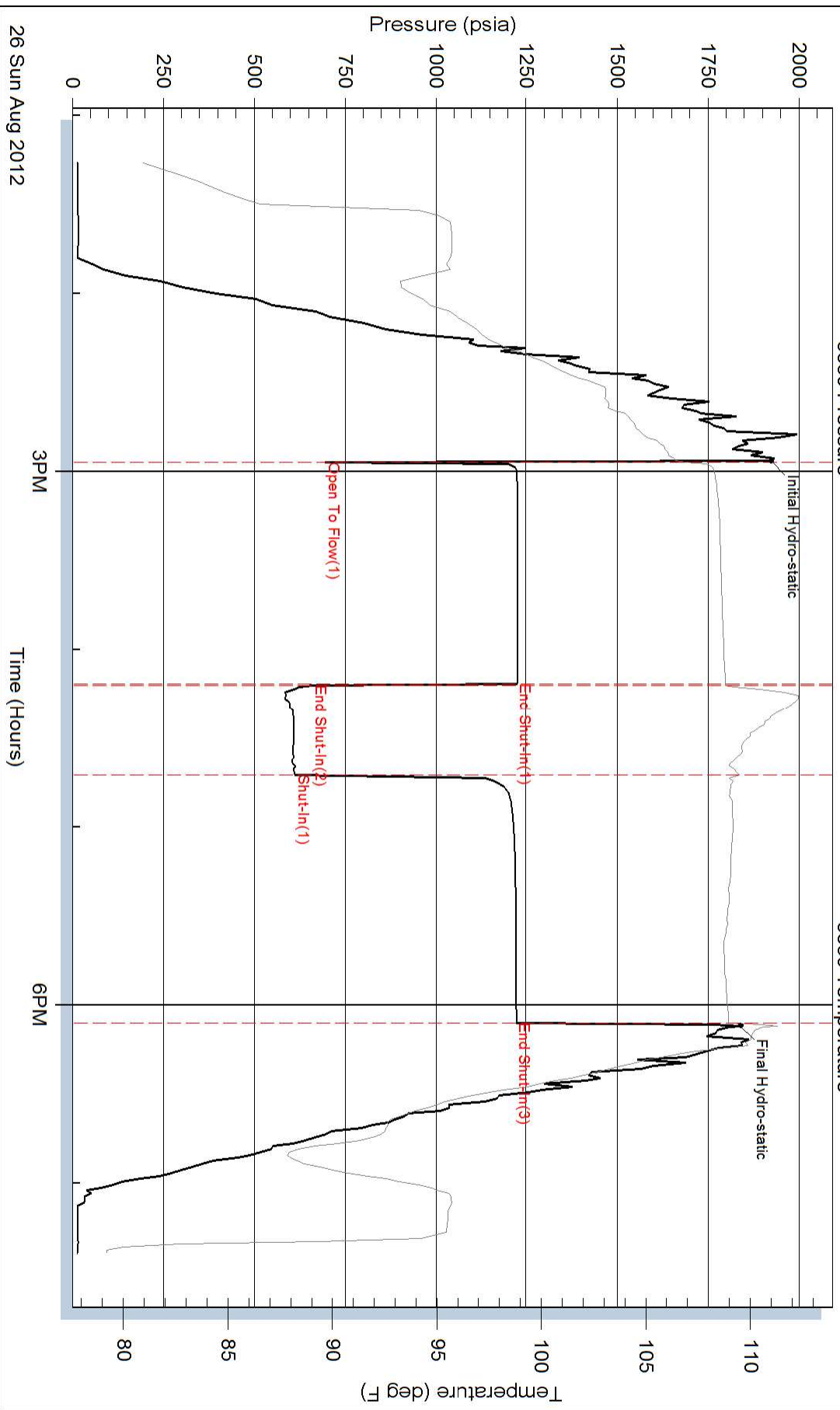
Gas Rates Information

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	1.00	38.00	1092.45
2	10	1.00	83.00	2386.15
2	20	1.00	88.00	2529.90
2	30	1.00	91.00	2616.14

Pressure vs. Time



Pressure vs. Time

