



DRILL STEM TEST REPORT

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

9431 east Central Suite 100
Wichita, Kansas 67206

ATTN: Rene Husted

Button "A" Unit #1-24

29-19s-15w Barton

Start Date: 2012.09.09 @ 00:00:00

End Date: 2012.09.09 @ 00:00:00

Job Ticket #: 17798 DST #: 9

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.

29-19s-15w Barton

9431 east Central Suite 100
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Button "A" Unit #1-24

Job Ticket: 17798

DST#: 9

ATTN: Rene Hustedad

Test Start: 2012.09.09 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle & Ragan San**

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

Interval: 3551.00 ft (KB) To 3562.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3562.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6838

Inside

Press @ Run Depth: 1182.24 psia @ 3558.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.09

End Date:

2012.09.09

Last Calib.:

2012.09.09

Start Time:

12:15:00

End Time:

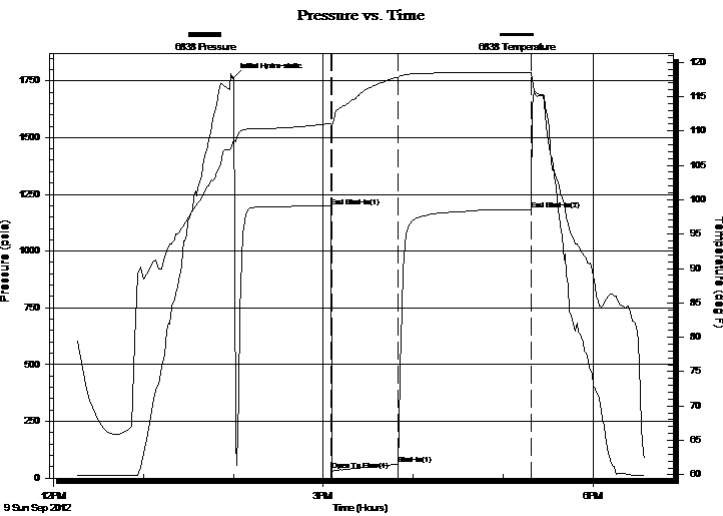
18:35:00

Time On Btm:

2012.09.09 @ 14:00:00

Time Off Btm:

TEST COMMENT: 1st Opening 2 Minutes-Strong Blow bottom of a 5 gallon bucket in 30 Seconds
1st Shut-In 60 Minutes No blow back
2nd Opening 45 Minutes-Strong blow gas to surface in 14 minutes see gass report
2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1762.86	108.63	Initial Hydro-static
65	1197.32	111.06	End Shut-In(1)
66	36.33	110.84	Open To Flow (1)
110	62.80	117.83	Shut-In(1)
199	1182.24	118.52	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
40.00	dRILLING MUD	5610.95
0.00	There was a slight show of oil between the tools	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	14.25	5.33
Last Gas Rate	0.13	20.00	7.49
Max. Gas Rate	0.13	20.00	7.49



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Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3551.00 ft (KB) To 3562.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3562.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ Run Depth: 1181.33 psia @ 3559.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.09

End Date: 2012.09.09

Last Calib.: 2012.09.09

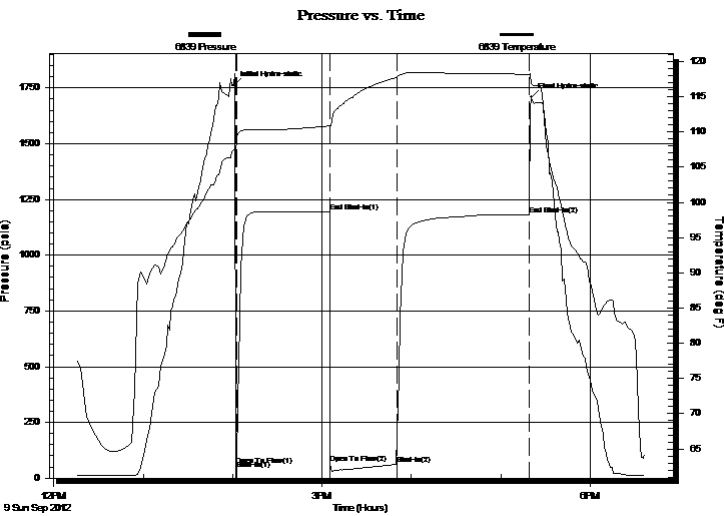
Start Time: 12:15:00

End Time: 18:36:30

Time On Btm: 2012.09.09 @ 14:01:00

Time Off Btm: 2012.09.09 @ 17:20:30

TEST COMMENT: 1st Opening 2 Minutes-Strong Blow bottom of a 5 gallon bucket in 30 Seconds
1st Shut-In 60 Minutes No blow back
2nd Opening 45 Minutes-Strong blow gas to surface in 14 minutes see gass report
2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1760.99	107.50	Initial Hydro-static
1	57.01	107.51	Open To Flow (1)
2	78.23	109.27	Shut-In(1)
64	1196.55	110.84	End Shut-In(1)
65	64.91	110.53	Open To Flow (2)
109	62.82	117.69	Shut-In(2)
198	1181.33	118.20	End Shut-In(2)
200	1708.34	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	dRILLING MUD	5610.95
0.00	There was a slight show of oil between	0.00
0.00	the tools	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	14.25	5.33
Last Gas Rate	0.13	20.00	7.49
Max. Gas Rate	0.13	20.00	7.49



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TOOL DIAGRAM

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

29-19s-15w Barton

9431 east Central Suite 100
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Job Ticket: 17798

DST#: 9

ATTN: Rene Husted

Test Start: 2012.09.09 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 380.00 inches	Volume: 495867.5 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:	48000.00 lb
			Total Volume: 495867.5 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3551.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	39.00 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			3528.00	
Hydraulic Tool	5.00			3533.00	
Jars	6.00			3539.00	
Safety Joint	2.00			3541.00	
Packer	5.00			3546.00	28.00 Bottom Of Top Packer
Packer	5.00			3551.00	
Perforations	6.00			3557.00	
Recorder	1.00	6838	Inside	3558.00	
Recorder	1.00	6839	Outside	3559.00	
Bull Plug	3.00			3562.00	11.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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FLUID SUMMARY

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Job Ticket: 17798

DST#: 9

ATTN: Rene Husted

Test Start: 2012.09.09 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5800.00 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
40.00	dRILLING MUD	5610.949
0.00	There w as a slight show of oil betw een	0.000
0.00	the tools	0.000

Total Length: 40.00 ft Total Volume: 5610.949 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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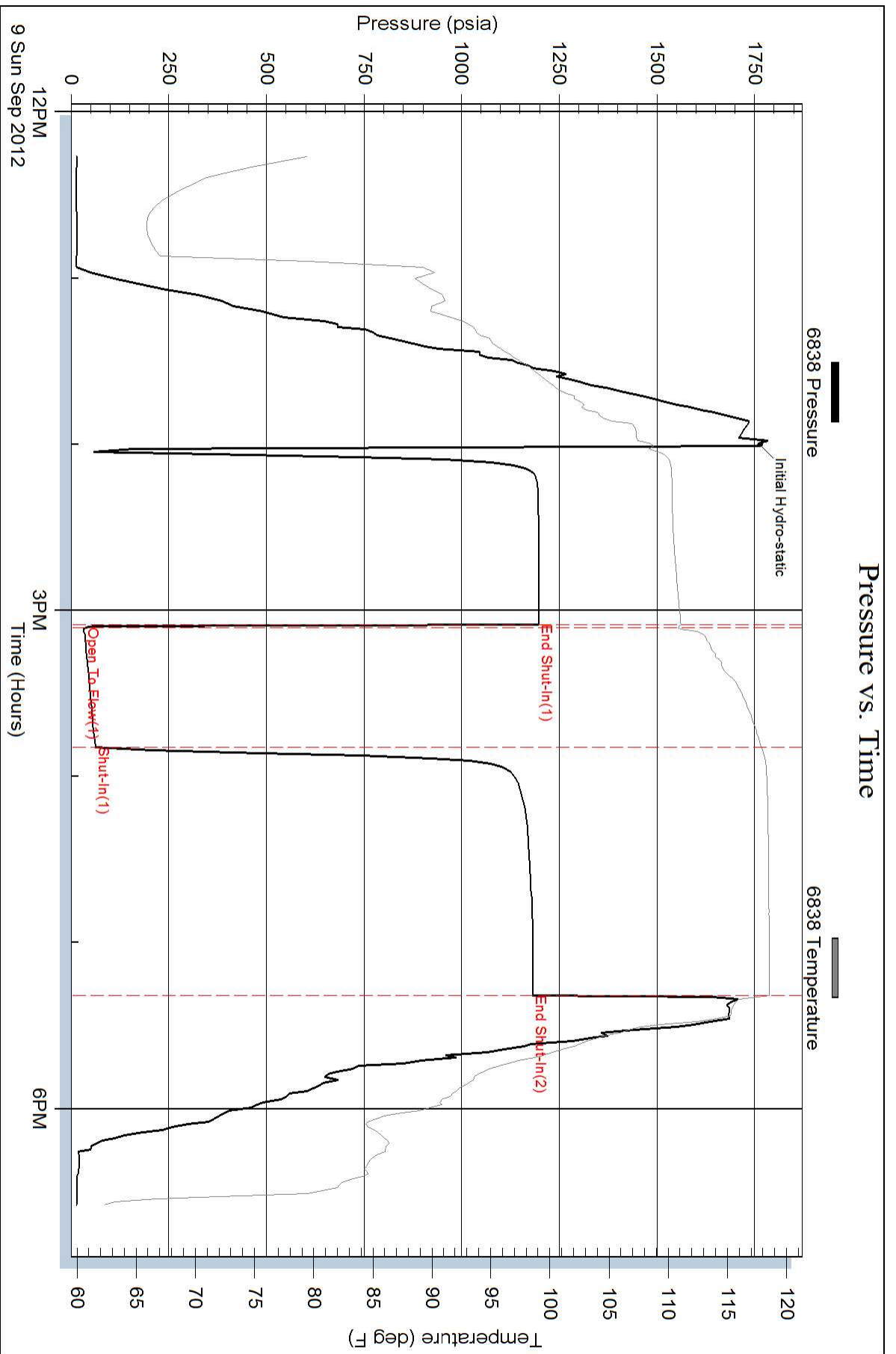
Gas Rates Information

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	15	0.13	14.25	5.33
2	20	0.13	18.00	6.74
2	30	0.13	19.00	7.11
2	40	0.13	20.00	7.49

Pressure vs. Time



Pressure vs. Time

