



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

Nicholson/Schmidt Un

28-20s-15w

Start Date: 2012.10.04 @ 00:00:00

End Date: 2012.10.04 @ 00:00:00

Job Ticket #: 17758 DST #: 1

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

Printed: 2012.10.04 @ 16:37:27



DRILL STEM TEST REPORT

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

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Job Ticket: 17758

DST#: 1

Test Start: 2012.10.04 @ 00:00:00

GENERAL INFORMATION:

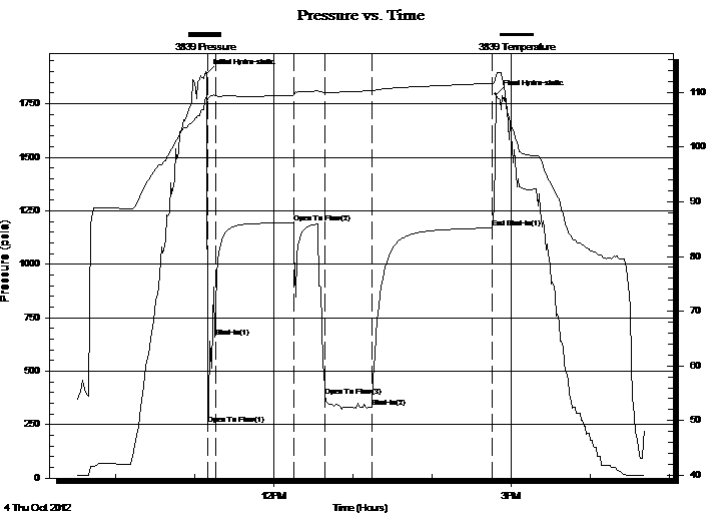
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3650.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 2032.00 ft (KB)
 2024.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 3839

Outside

Press @ Run Depth: 1169.53 psia @ 3694.66 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.04 End Date: 2012.10.04 Last Calib.: 2012.10.04
 Start Time: 09:30:00 End Time: 16:41:30 Time On Btm: 2012.10.04 @ 11:09:00
 Time Off Btm: 2012.10.04 @ 14:48:30

TEST COMMENT: 1st Opening 5 Minutes Fair blow built to the bottom of a 5 gallon bucket in 2 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes gas to surface see gas report
 2nd Shut-In 90 Minutes-fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1892.85	109.17	Initial Hydro-static
1	253.03	108.69	Open To Flow (1)
7	661.59	109.49	Shut-In(1)
66	1193.97	109.52	Open To Flow (2)
90	385.08	109.99	Open To Flow (3)
126	331.06	110.33	Shut-In(2)
217	1169.53	111.67	End Shut-In(1)
220	1793.98	113.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Drilling Mud-see gas report	5.61

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	16.00	459.98
Last Gas Rate	1.00	16.00	459.98
Max. Gas Rate	1.00	16.00	459.98



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Job Ticket: 17758

DST#: 1

Test Start: 2012.10.04 @ 00:00:00

GENERAL INFORMATION:

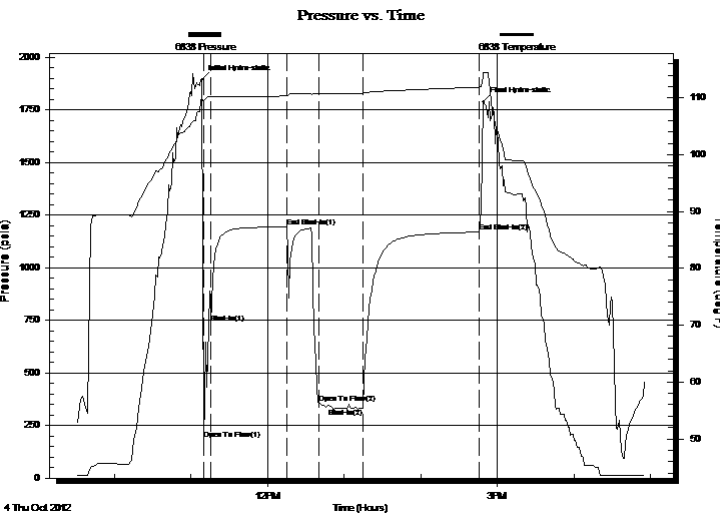
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3650.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 2032.00 ft (KB)
 2024.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6838

Inside

Press @ Run Depth: 1169.94 psia @ 3693.66 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.04 End Date: 2012.10.04 Last Calib.: 2012.10.04
 Start Time: 09:30:00 End Time: 16:55:30 Time On Btm: 2012.10.04 @ 11:08:30
 Time Off Btm: 2012.10.04 @ 14:49:00

TEST COMMENT: 1st Opening 5 Minutes Fair blow built to the bottom of a 5 gallon bucket in 2 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes gas to surface see gas report
 2nd Shut-In 90 Minutes-fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1893.40	109.88	Initial Hydro-static
1	186.59	109.38	Open To Flow (1)
7	739.10	110.19	Shut-In(1)
67	1194.77	110.35	End Shut-In(1)
92	354.12	110.69	Open To Flow (2)
126	331.80	110.85	Shut-In(2)
218	1169.94	111.90	End Shut-In(2)
221	1788.89	114.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Drilling Mud-see gas report	5.61

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	16.00	459.98
Last Gas Rate	1.00	16.00	459.98
Max. Gas Rate	1.00	16.00	459.98



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

28-20s-15w

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Nicholson/Schmidt Un

Job Ticket: 17758

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.10.04 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3632.00 ft	Diameter: 3.80 inches	Volume: 50.95 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: 89000.00 lb
			<u>Total Volume: 50.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3650.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.66 ft			
Tool Length:	78.66 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3622.00	
Shut-In Tool	5.00			3627.00	
Hydroic Tool	5.00			3632.00	
Jars	6.00			3638.00	
Safety Joint	2.00			3640.00	
Packer	5.00			3645.00	29.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Perforations	2.00			3652.00	
Change Over Sub	0.75			3652.75	
Drill Pipe	30.16			3682.91	
Change Over Sub	0.75			3683.66	
Perforations	9.00			3692.66	
Recorder	1.00	6838	Inside	3693.66	
Recorder	1.00	3839	Outside	3694.66	
Bullnose	5.00			3699.66	49.66 Bottom Packers & Anchor

Total Tool Length: 78.66



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FLUID SUMMARY

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Job Ticket: 17758

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.10.04 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 11.20 in³
Resistivity: ohm.m
Salinity: 5900.00 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
400.00	Drilling Mud-see gas report	5.611

Total Length: 400.00 ft Total Volume: 5.611 bbl

Num Fluid Samples: 0

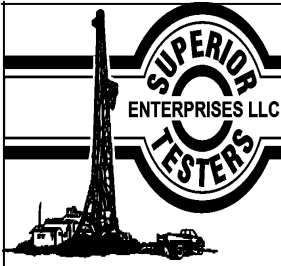
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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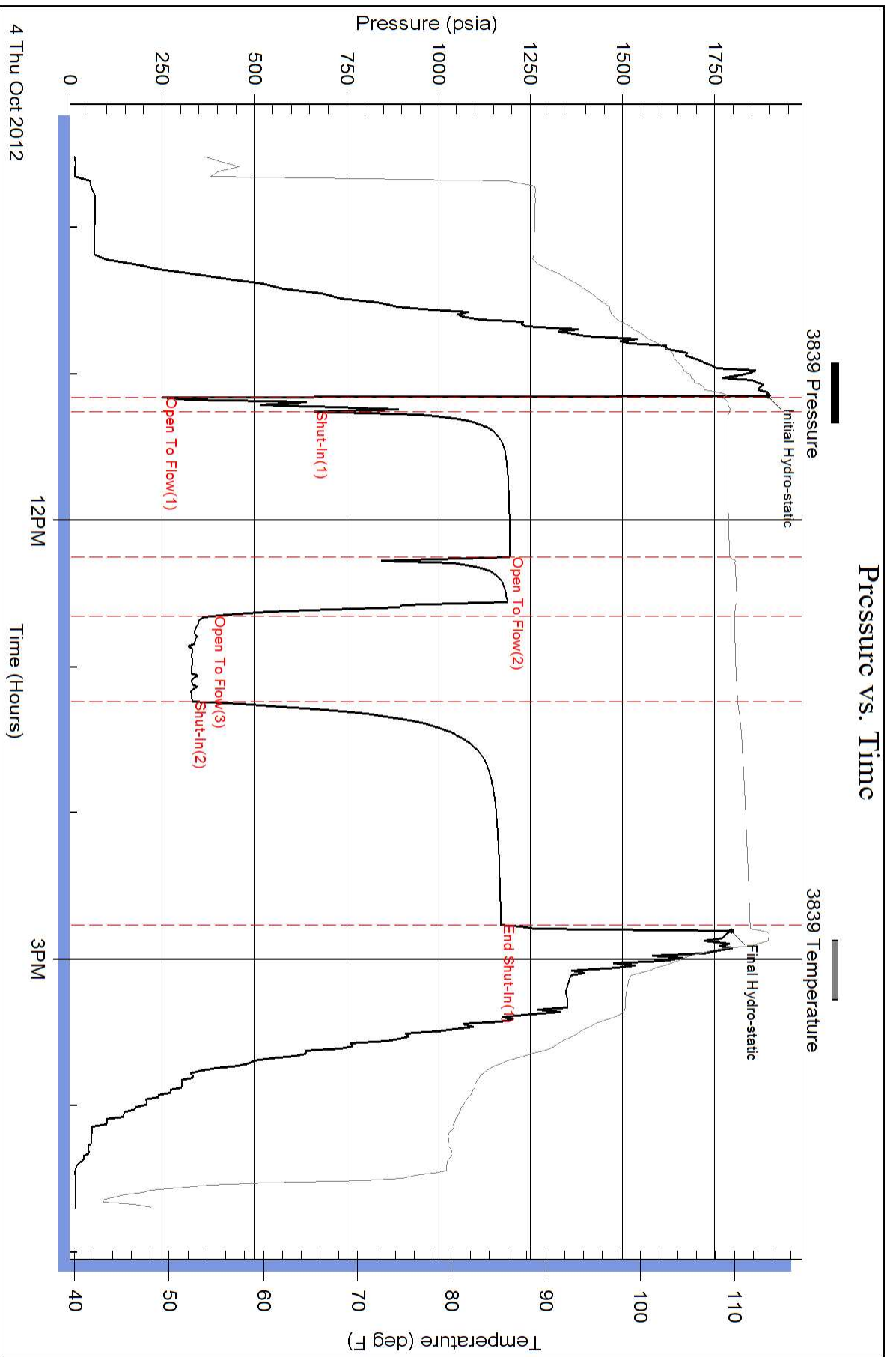
Gas Rates Information

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	30	1.00	16.00	459.98
40	40	1.00	16.00	459.98
50	50	1.00	16.00	459.98
60	50	1.00	16.00	459.98

Pressure vs. Time



Pressure vs. Time

