



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: 2012.09.06 @ 00:00:00

End Date: 2012.09.06 @ 00:00:00

Job Ticket #: 17795 DST #: 6

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

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29-19s-15w Barton

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Button "A" Unit #1-24

Job Ticket: 17795

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ATTN: Rene Husted

Test Start: 2012.09.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "I & J"**

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: 3395.00 ft (KB) To 3431.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3431.00 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: 1071.76 psia @ 3428.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.06

End Date: 2012.09.06

Last Calib.: 2012.09.06

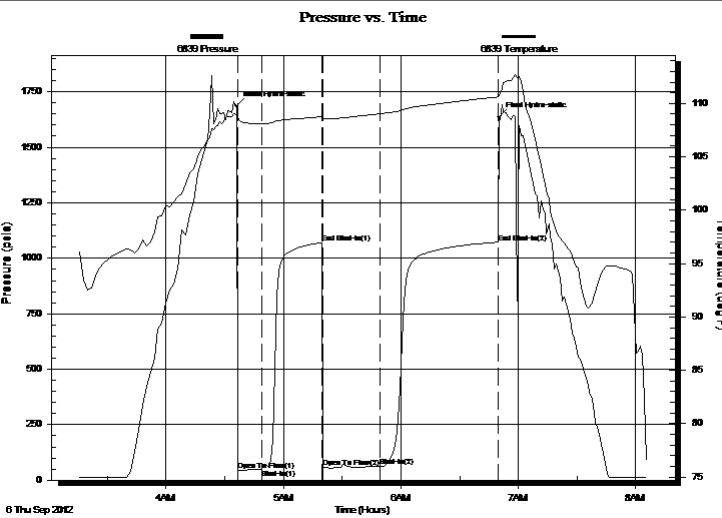
Start Time: 03:15:00

End Time: 08:06:00

Time On Btm: 2012.09.06 @ 04:36:00

Time Off Btm: 2012.09.06 @ 06:50:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow for 4 minutes than weak surface blow through out
2nd Shut-In 60 Minutes-No blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1686.15	109.01	Initial Hydro-static
1	42.52	108.72	Open To Flow (1)
13	50.62	108.13	Shut-In(1)
44	1070.20	108.76	End Shut-In(1)
44	58.16	108.54	Open To Flow (2)
74	62.34	109.04	Shut-In(2)
134	1071.76	110.62	End Shut-In(2)
134	1637.09	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Very thick heavy mud	0.70

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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DST#: 6

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Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3395.00 ft (KB) To 3431.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3431.00 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: 1070.90 psia @ 3427.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.06

End Date:

2012.09.06

Last Calib.:

2012.09.06

Start Time: 03:30:00

End Time:

08:26:00

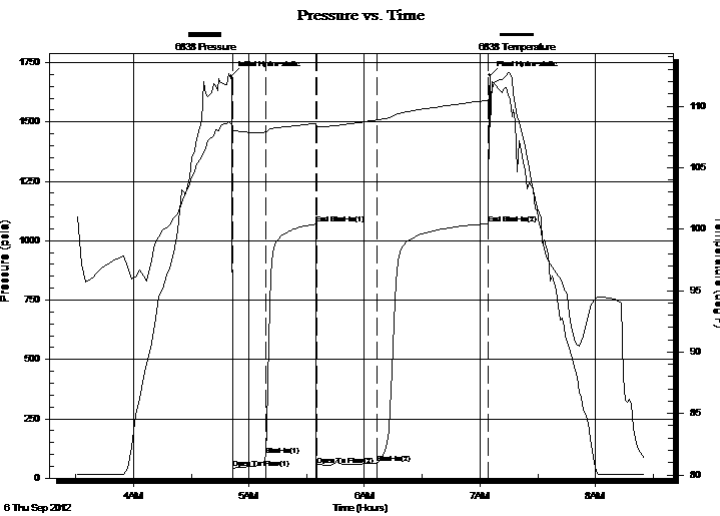
Time On Btm:

2012.09.06 @ 04:51:00

Time Off Btm:

2012.09.06 @ 07:05:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow for 4 minutes than weak surface blow through out
2nd Shut-In 60 Minutes-No blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1693.58	108.50	Initial Hydro-static
1	42.85	108.04	Open To Flow (1)
18	97.74	107.90	Shut-In(1)
44	1069.77	108.59	End Shut-In(1)
44	55.79	108.33	Open To Flow (2)
76	62.65	108.88	Shut-In(2)
133	1070.90	110.48	End Shut-In(2)
134	1696.47	110.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Very thick heavy mud	0.70

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

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

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9431 east Central Suite 100
Wichita, Kansas 67206

Button "A" Unit #1-24

Job Ticket: 17795

DST#: 6

ATTN: Rene Husted

Test Start: 2012.09.06 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 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: 90000.00 lb
			<u>Total Volume: 47.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3395.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3372.00	
Hydraulic Tool	5.00			3377.00	
Jars	6.00			3383.00	
Safety Joint	2.00			3385.00	
Packer	5.00			3390.00	28.00 Bottom Of Top Packer
Packer	5.00			3395.00	
Perforations	31.00			3426.00	
Recorder	1.00	6838	Inside	3427.00	
Recorder	1.00	6839	Outside	3428.00	
Bull Plug	3.00			3431.00	36.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



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FLUID SUMMARY

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Test Start: 2012.09.06 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: in³
Resistivity: ohm.m
Salinity: 5600.00 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	Very thick heavy mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

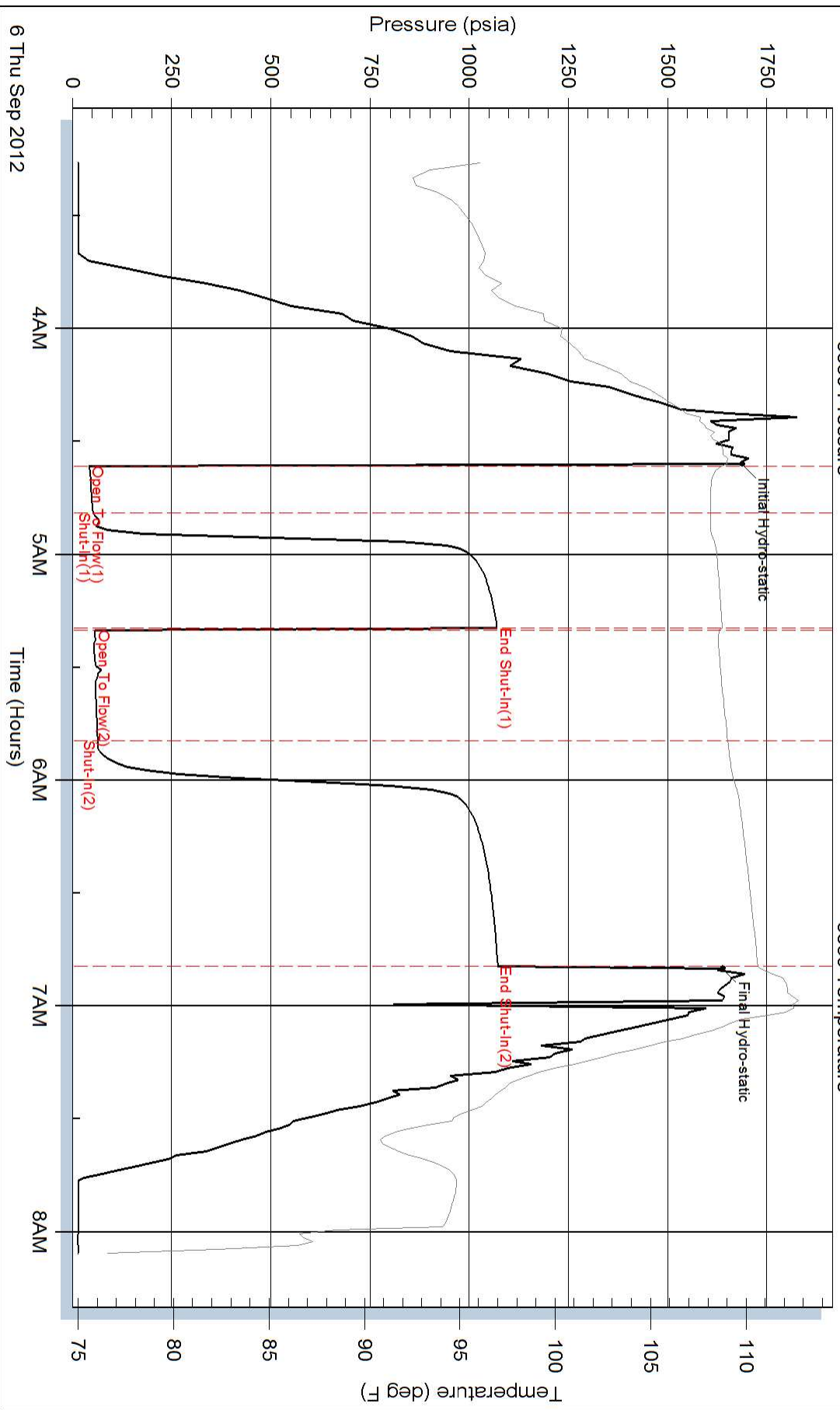
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

