



DRILL STEM TEST REPORT

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

9431E Central ste 100 Wichita KS
67206+2563

ATTN: Rene Husted

Axman 'A' Unit #1-23

23-17-15 Barton

Start Date: 2012.10.16 @ 00:00:00

End Date: 2012.10.16 @ 00:00:00

Job Ticket #: 16882 DST #: 6

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

Printed: 2012.10.16 @ 05:14:34



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23-17-15 Barton

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ATTN: Rene Husted

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DST#: 6

Test Start: 2012.10.16 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerate\Arbuckl**

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: 3320

Interval: 3470.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1966.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8159 Outside

Press @ RunDepth: 77.38 psia @ 3517.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.16 End Date: 2012.10.16

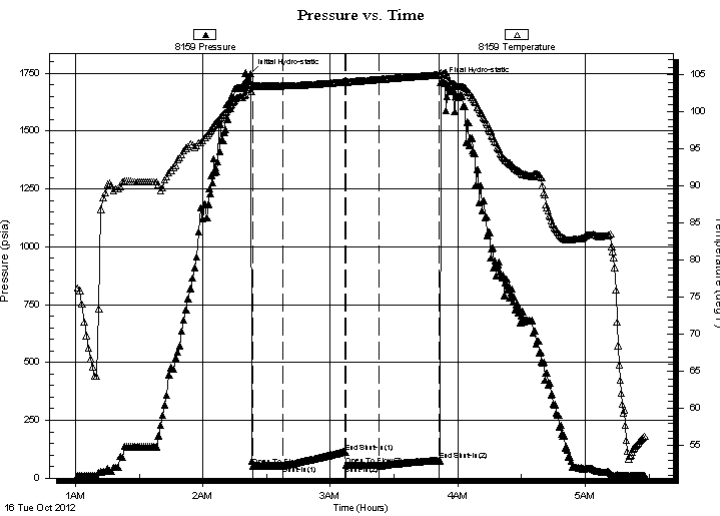
Last Calib.: 2012.10.16

Start Time: 01:00:00 End Time: 05:28:00

Time On Btm: 2012.10.16 @ 02:22:30

Time Off Btm: 2012.10.16 @ 03:52:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 7 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1748.00	103.51	Initial Hydro-static
1	52.29	103.44	Open To Flow (1)
15	53.90	103.48	Shut-In(1)
45	111.65	104.02	End Shut-In(1)
45	54.42	104.01	Open To Flow (2)
61	54.38	104.36	Shut-In(2)
89	77.38	104.97	End Shut-In(2)
90	1713.91	105.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



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Reference Elevations: 1966.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6731 Inside

Press @RunDepth: 78.77 psia @ 3516.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.16 End Date: 2012.10.16

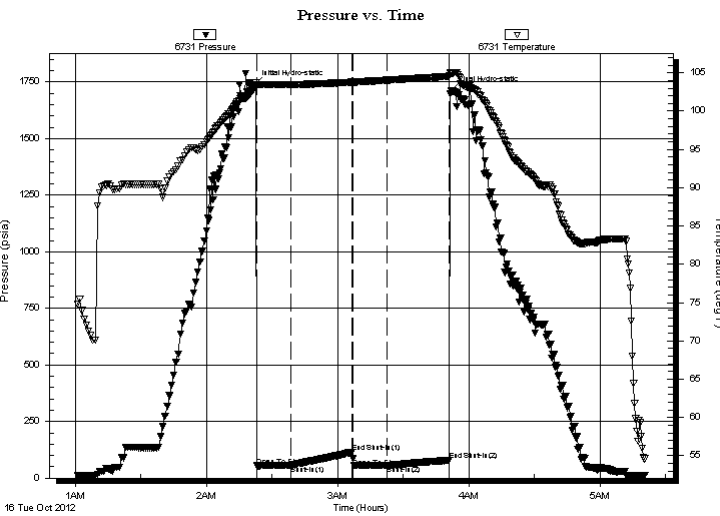
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TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 7 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1737.37	103.26	Initial Hydro-static
1	54.58	103.40	Open To Flow (1)
17	56.96	103.46	Shut-In(1)
45	115.48	103.79	End Shut-In(1)
45	85.78	103.79	Open To Flow (2)
61	55.95	104.04	Shut-In(2)
89	78.77	104.55	End Shut-In(2)
90	1713.60	104.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company L.L.C

23-17-15 Barton

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Axman 'A' Unit #1-23

Job Ticket: 16882

DST#: 6

ATTN: Rene Husted

Test Start: 2012.10.16 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3471.00 ft	Diameter: 3.80 inches	Volume: 48.69 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: 48.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3470.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 ft				
Number of Packers:	2	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			3447.00	
Hydraulic Tool	5.00			3452.00	
Jars	6.00			3458.00	
Safety Joint	2.00			3460.00	
Packer	5.00			3465.00	28.00 Bottom Of Top Packer
Packer	5.00			3470.00	
Perforations	45.00			3515.00	
Recorder	1.00	6731	Inside	3516.00	
Recorder	1.00	8159	Outside	3517.00	
Bullnose	3.00			3520.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



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FLUID SUMMARY

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Test Start: 2012.10.16 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 62000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

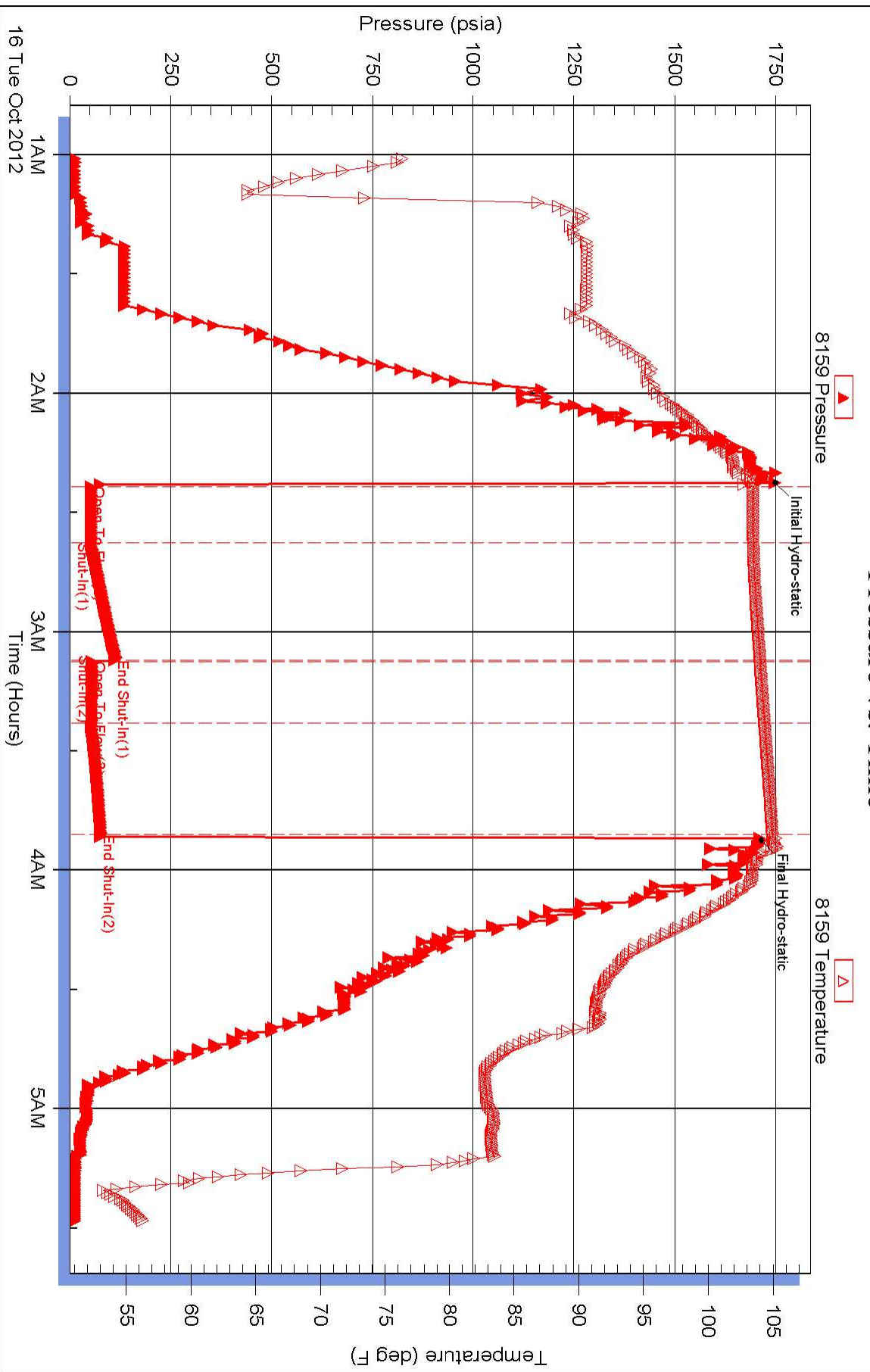
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

