



DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.03 @ 00:00:00

End Date: 2014.05.03 @ 00:00:00

Job Ticket #: 19239 DST #: 5

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

Printed: 2014.05.03 @ 17:15:25



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Job Ticket: 19239

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Test Start: 2014.05.03 @ 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

Interval: 3429.00 ft (KB) To 3475.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 241.18 psig @ 3471.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03

End Date: 2014.05.03

Last Calib.: 2014.05.03

Start Time: 09:30:00

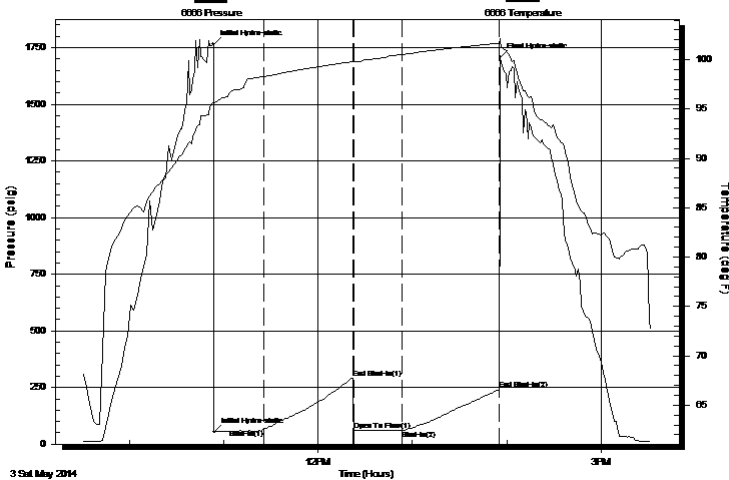
End Time: 15:32:00

Time On Btm: 2014.05.03 @ 10:53:30

Time Off Btm: 2014.05.03 @ 13:56:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow decreased to weak intermittent
1st Shut-In 60 Minutes-No blow back
2nd Opening 30 Minutes-Weak intermittent blow for 9 Minutes and died
2nd Shut-In 60 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.56	95.71	Initial Hydro-static
1	53.23	95.52	Initial Hydro-static
32	63.63	98.28	Shut-In(1)
89	289.14	99.81	End Shut-In(1)
90	59.46	99.75	Open To Flow (1)
120	61.34	100.50	Shut-In(2)
182	241.18	101.67	End Shut-In(2)
183	1708.13	101.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	DRILLING MUD	0.35

Gas Rates

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



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Reference Elevations: 1914.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 247.61 psig @ 3472.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03

End Date: 2014.05.03

Last Calib.: 2014.05.03

Start Time: 09:30:00

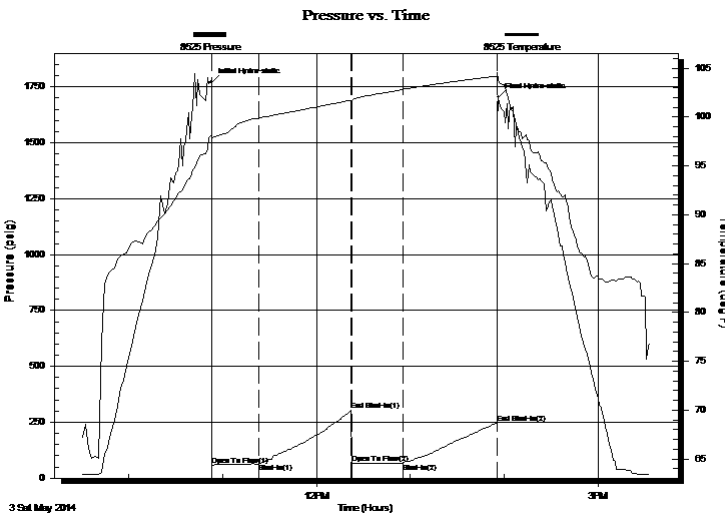
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PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.11	98.14	Initial Hydro-static
1	57.96	97.82	Open To Flow (1)
31	64.33	99.92	Shut-In(1)
89	302.54	101.72	End Shut-In(1)
90	64.81	101.73	Open To Flow (2)
123	65.89	102.83	Shut-In(2)
182	247.61	104.20	End Shut-In(2)
183	1703.93	103.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	DRILLING MUD	0.35

Gas Rates

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



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TOOL DIAGRAM

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

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DST#: 5

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Test Start: 2014.05.03 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3406.00 ft	Diameter: 3.80 inches	Volume: 47.78 bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 47.78 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3429.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	74.00 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			3406.00	
Hydraulic Tool	5.00			3411.00	
Jars	6.00			3417.00	
Safety Joint	2.00			3419.00	
Top Packer	5.00			3424.00	
Packer	5.00			3429.00	28.00 Bottom Of Top Packer
Anchor	41.00			3470.00	
Recorder	1.00	6666	Inside	3471.00	
Recorder	1.00	8525	Outside	3472.00	
Bull Plug	3.00			3475.00	46.00 Anchor Tool
Total Tool Length:	74.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 7300.00 ppm
Filter Cake: 0.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	DRILLING MUD	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

