



## 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: 2014.05.04 @ 00:00:00

End Date: 2014.05.04 @ 00:00:00

Job Ticket #: 19240                      DST #: 6

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

Printed: 2014.05.04 @ 08:04:27



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**Axman "A" Unit #2-24**

Job Ticket: 19240

**DST#: 6**

ATTN: Rene Husted

Test Start: 2014.05.04 @ 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 Byudig

Unit No: 3335

**Interval: 3474.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3485.00 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: 1073.10 psig @ 3482.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.04

End Date: 2014.05.04

Last Calib.: 2014.05.04

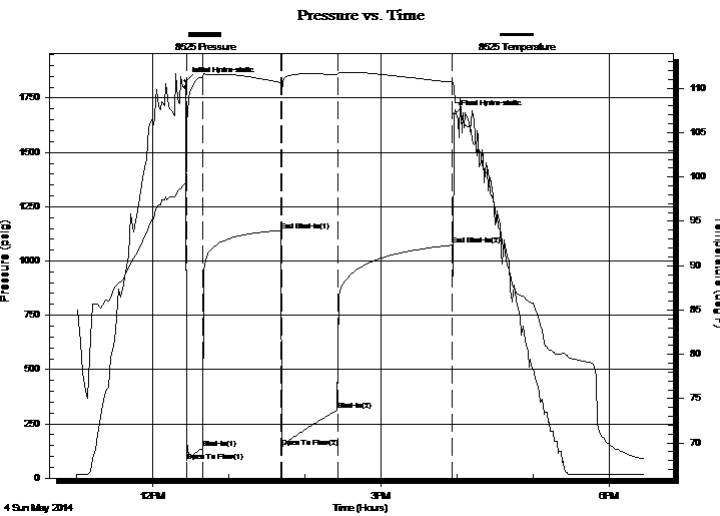
Start Time: 11:00:00

End Time: 18:28:00

Time On Btm: 2014.05.04 @ 12:26:00

Time Off Btm: 2014.05.04 @ 15:57:30

**TEST COMMENT:** 1st Opening 15 Minutes Fair b low built to the Bottom of a 5 gallon bucket in 9 minutes  
 1st Shut-In 60 Minutes-Weak surface blow back  
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucketg in 6 minutes  
 2nd Shut-In 90 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.53	99.24	Initial Hydro-static
1	79.81	106.06	Open To Flow (1)
14	138.12	111.34	Shut-In(1)
75	1140.44	110.66	End Shut-In(1)
76	140.66	109.53	Open To Flow (2)
120	312.89	111.55	Shut-In(2)
210	1073.10	110.70	End Shut-In(2)
212	1674.03	110.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling Mud	0.35
540.00	Water	7.57

## Gas Rates

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



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Job Ticket: 19240

**DST#: 6**

ATTN: Rene Husted

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## 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 Byudig

Unit No: 3335

**Interval: 3474.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3485.00 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: 1066.17 psig @ 3481.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.04

End Date: 2014.05.04

Last Calib.: 2014.05.04

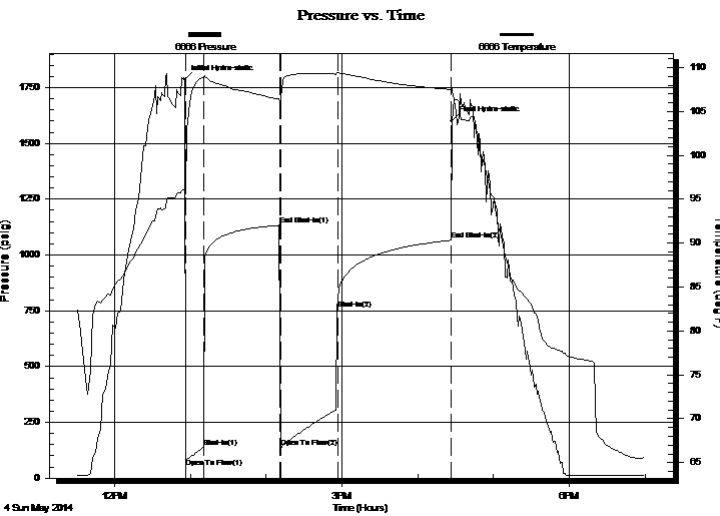
Start Time: 11:30:00

End Time: 18:59:30

Time On Btm: 2014.05.04 @ 12:55:30

Time Off Btm: 2014.05.04 @ 16:27:00

**TEST COMMENT:** 1st Opening 15 Minutes Fair b low built to the Bottom of a 5 gallon bucket in 9 minutes  
 1st Shut-In 60 Minutes-Weak surface blow back  
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucketg in 6 minutes  
 2nd Shut-In 90 Minutes-Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.94	96.06	Initial Hydro-static
1	50.44	95.59	Open To Flow (1)
15	137.26	108.87	Shut-In(1)
75	1133.03	106.41	End Shut-In(1)
77	136.66	106.61	Open To Flow (2)
122	757.62	109.45	Shut-In(2)
211	1066.17	107.50	End Shut-In(2)
212	1600.52	107.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling Mud	0.35
540.00	Water	7.57

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

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

**23-17s-15w Barton**

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**Axman "A" Unit #2-24**

Job Ticket: 19240

**DST#: 6**

ATTN: Rene Husted

Test Start: 2014.05.04 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 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: 69000.00 lb
			<u>Total Volume: 48.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3474.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			3451.00	
Hydraulic Tool	5.00			3456.00	
Jars	6.00			3462.00	
Safety Joint	2.00			3464.00	
Top Packer	5.00			3469.00	
Packer	5.00			3474.00	28.00 Bottom Of Top Packer
Anchor	6.00			3480.00	
Recorder	1.00	6666	Inside	3481.00	
Recorder	1.00	8525	Outside	3482.00	
Bull Plug	3.00			3485.00	11.00 Anchor Tool
<b>Total Tool Length:</b>	<b>39.00</b>				



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## FLUID SUMMARY

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Test Start: 2014.05.04 @ 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 7300.00 ohm.m

Gas Cushion Pressure: psig

Salinity: ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling Mud	0.351
540.00	Water	7.575

Total Length: 565.00 ft      Total Volume: bbl

Num Fluid Samples: 0

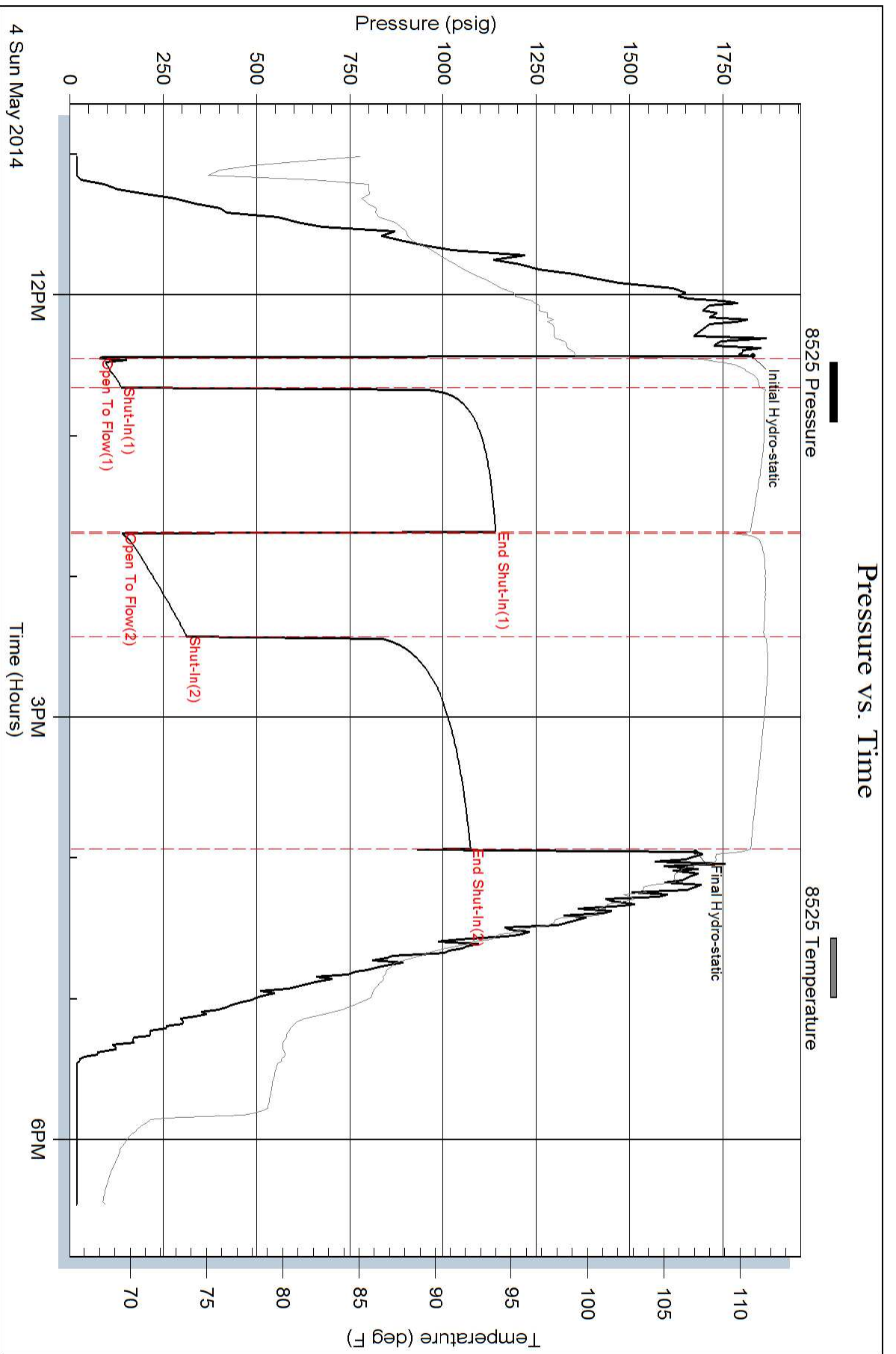
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

