



## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC.**

9431 East Central Suite 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

### **Webster # 1-36**

### **36-22s-22w-Hodgeman**

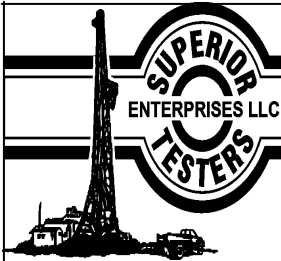
Start Date: 2012.03.01 @ 10:05:00

End Date: 2012.03.02 @ 04:37:32

Job Ticket #: 17191                      DST #: 2

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

Printed: 2012.03.02 @ 07:11:25



# DRILL STEM TEST REPORT

F.G. Holl Company LLC.

**36-22s-22w-Hodgeman**

9431 East Central Suite 100  
Wichita Kansas 67206

**Webster # 1-36**

Job Ticket: 17191

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2012.03.01 @ 10:05:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:02

Time Test Ended: 04:37:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-GB-140

**Interval: 4545.00 ft (KB) To 4580.00 ft (KB) (TVD)**

Reference Elevations: 2309.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

2301.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6806**

**Inside**

Press @ Run Depth: 235.76 psia @ 4576.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.03.01

End Date:

2012.03.02

Last Calib.:

2012.03.02

Start Time: 10:05:00

End Time:

04:37:32

Time On Btm:

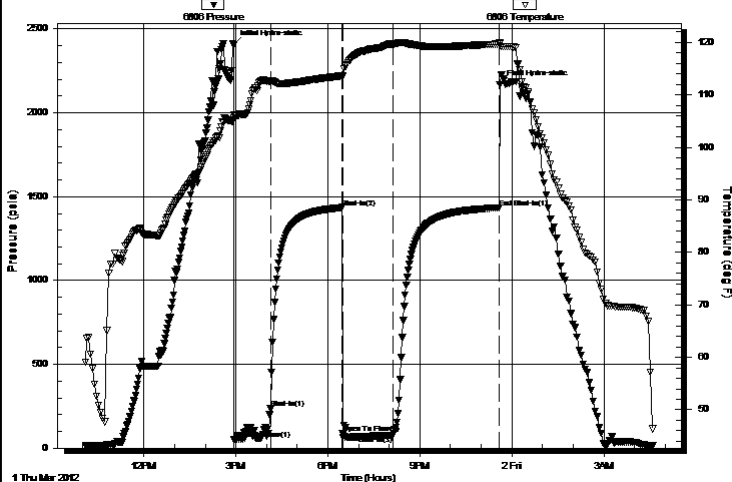
2012.03.01 @ 14:55:32

Time Off Btm:

2012.03.01 @ 23:36:32

**TEST COMMENT:** 1st Open 30 minutes Fair building blow reached 3 inches into bucket  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Fair building blow blew 3 inches into the bucket  
2nd Shut in 90 minutes Yes blow back

Pressure vs. Time



## PRESSURE SUMMARY

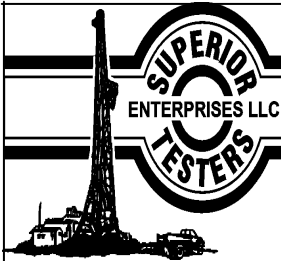
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2404.09	106.18	Initial Hydro-static
1	52.89	105.62	Open To Flow (1)
72	235.76	112.63	Shut-In(1)
212	1434.96	113.66	Shut-In(2)
213	86.92	113.45	Open To Flow (2)
313	77.91	119.67	Shut-In(3)
520	1434.03	119.73	End Shut-In(1)
521	2166.39	119.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
74.00	Oil spotted mud Oil 1% Mud 99%	1.04
1.00	Clean oil 100%	0.01

## Gas Rates

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



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**36-22s-22w-Hodgeman**

9431 East Central Suite 100  
Wichita Kansas 67206

**Webster # 1-36**

Job Ticket: 17191

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2012.03.01 @ 10:05:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:02

Time Test Ended: 04:37:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-GB-140

**Interval: 4545.00 ft (KB) To 4580.00 ft (KB) (TVD)**

Reference Elevations: 2309.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

2301.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**

Press @ RunDepth: 1435.59 psia @ 4577.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.03.01

End Date:

2012.03.01

Last Calib.:

2012.03.02

Start Time: 10:05:00

End Time:

18:18:00

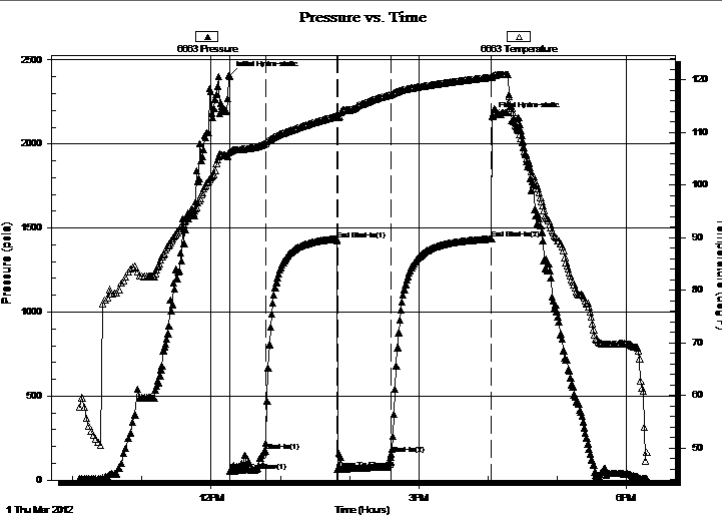
Time On Btm:

2012.03.01 @ 12:16:00

Time Off Btm:

2012.03.01 @ 16:03:30

**TEST COMMENT:** 1st Open 30 minutes Fair building blow reached 3 inches into bucket  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Fair building blow blew 3 inches into the bucket  
2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2405.03	106.33	Initial Hydro-static
1	52.40	106.33	Open To Flow (1)
31	173.24	107.96	Shut-In(1)
93	1426.90	113.11	End Shut-In(1)
94	67.19	112.78	Open To Flow (2)
140	156.64	117.20	Shut-In(2)
227	1435.59	120.51	End Shut-In(2)
228	2163.61	120.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
74.00	Oil spotted mud Oil 1% Mud 99%	1.04
1.00	Clean oil 100%	0.01

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G. Holl Company LLC.

**36-22s-22w-Hodgeman**

9431 East Central Suite 100  
Wichita Kansas 67206

**Webster # 1-36**

Job Ticket: 17191

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2012.03.01 @ 10:05:00

## Tool Information

Drill Pipe:	Length: 4528.00 ft	Diameter: 3.80 inches	Volume: 63.52 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 63.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4545.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4522.00	
Hydraulic Tool	5.00			4527.00	
Jars	6.00			4533.00	
Safety Joint	2.00			4535.00	
Packer	5.00			4540.00	28.00 Bottom Of Top Packer
Packer	5.00			4545.00	
Perforations	30.00			4575.00	
Recorder	1.00	6806	Inside	4576.00	
Recorder	1.00	6663	Outside	4577.00	
Bull Plug	3.00			4580.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>63.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G. Holl Company LLC.

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Wichita Kansas 67206

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Job Ticket: 17191

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2012.03.01 @ 10:05:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 16.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8800.00 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
74.00	Oil spotted mud Oil 1%Mud 99%	1.038
1.00	Clean oil 100%	0.014

Total Length: 75.00 ft      Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

