



## DRILL STEM TEST REPORT

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

9431 East Central Suite #100  
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

### **Thompson #1-30**

#### **30/30S/13W Barber Co.**

Start Date: 2012.01.19 @ 08:58:00

End Date: 2012.01.19 @ 00:00:00

Job Ticket #: 18870                      DST #: 3

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

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ATTN: Frank Greenbaum

Test Start: 2012.01.19 @ 08:58:00

## GENERAL INFORMATION:

Formation: **Bermister**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

**Interval: 3228.00 ft (KB) To 3257.00 ft (KB) (TVD)**

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3257.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 6666 Outside**

Press @ RunDepth: 1219.79 psia @ 3254.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.19

End Date: 2012.01.19

Last Calib.: 2012.01.19

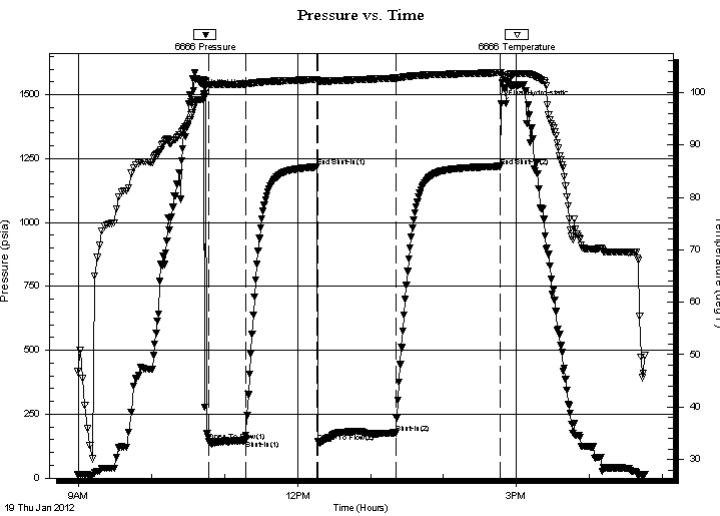
Start Time: 08:58:00

End Time: 16:45:30

Time On Btm: 2012.01.19 @ 10:43:00

Time Off Btm: 2012.01.19 @ 14:47:30

**TEST COMMENT:** 1ST Opening 30 Minutes steady bow/blow blew to bottom of bucket in 5 minues  
 1ST Shut-In 60 Minutes yes blow back/3 inches  
 2ND Opening 60 Minutes very strong blow/blow blew to bottom of bucket instantly  
 2ND Shut-In 90 Minutes yes blow back/look at gas chart



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1502.89	99.14	Initial Hydro-static
4	143.92	101.44	Open To Flow (1)
34	149.77	101.59	Shut-In(1)
93	1217.78	102.45	End Shut-In(1)
94	141.90	102.17	Open To Flow (2)
158	176.68	102.74	Shut-In(2)
244	1219.79	103.77	End Shut-In(2)
245	1462.87	103.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Drilling Mud 100%	2.40

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.20	2.69
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.13	14.00	5.24



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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

**Interval: 3228.00 ft (KB) To 3257.00 ft (KB) (TVD)**

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3257.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 6731 Inside**

Press @ RunDepth: 1218.69 psia @ 3253.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.19

End Date: 2012.01.19

Last Calib.: 2012.01.19

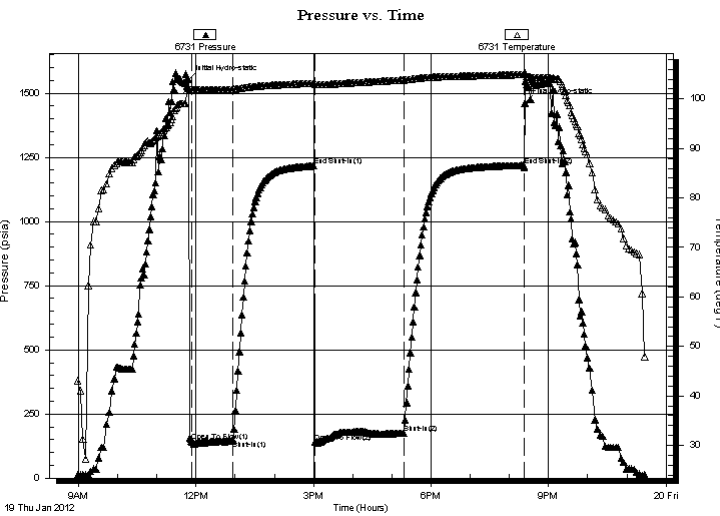
Start Time: 08:58:00

End Time: 16:45:00

Time On Btm: 2012.01.19 @ 11:48:30

Time Off Btm: 2012.01.19 @ 20:23:30

**TEST COMMENT:** 1ST Opening 30 Minutes steady bow/blow blew to bottom of bucket in 5 minues  
 1ST Shut-In 60 Minutes yes blow back/3 inches  
 2ND Opening 60 Minutes very strong blow/blow blew to bottom of bucket instantly  
 2ND Shut-In 90 Minutes yes blow back/look at gas chart



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1553.88	102.09	Initial Hydro-static
5	144.94	101.90	Open To Flow (1)
69	147.76	101.95	Shut-In(1)
192	1216.95	103.19	End Shut-In(1)
194	138.84	102.92	Open To Flow (2)
331	175.78	103.83	Shut-In(2)
514	1218.69	104.91	End Shut-In(2)
515	1462.12	105.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Drilling Mud 100%	2.40

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.20	2.69
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.13	14.00	5.24



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

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Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2012.01.19 @ 08:58:00

## Tool Information

Drill Pipe:	Length: 2987.00 ft	Diameter: 3.80 inches	Volume: 41.90 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: 221.18 ft	Diameter: 2.25 inches	Volume: 1.09 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 42.99 bbl</u>	Tool Chased 25.00 ft
Drill Pipe Above KB:	9.18 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3228.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: We slide the tool 25' to bottom when we opened the tool/pulled up and hung for a minute and bleed off hose and reset the tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3204.00	
Hydraulic Tool	5.00			3209.00	
Jars	6.00			3215.00	
Safety Joint	3.00			3218.00	
Top Packer	5.00			3223.00	
Packer	5.00			3228.00	29.00 Bottom Of Top Packer
Perforations	24.00			3252.00	
Recorder	1.00	6731	Inside	3253.00	
Recorder	1.00	6666	Outside	3254.00	
Bull Plug	3.00			3257.00	29.00 Anchor Tool
<b>Total Tool Length:</b>	<b>58.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 8.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Drilling Mud 100%	2.404

Total Length: 315.00 ft      Total Volume: 2.404 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company LLC

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## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.13	7.20	2.69
2	20	0.13	9.90	3.71
2	30	0.13	12.80	4.79
2	40	0.13	14.00	5.24
2	50	0.25	7.00	11.11
2	60	0.25	6.70	10.63

