



## DRILL STEM TEST REPORT

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

9431 E Central Ste 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**Thompson # 2-30**

**30-30s-13w Barber**

Start Date: 2012.07.26 @ 20:59:00

End Date: 2012.07.27 @ 02:33:00

Job Ticket #: 17374                      DST #: 5

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

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**Thompson # 2-30**  
 Job Ticket: 17374 **DST#: 5**  
 Test Start: 2012.07.26 @ 20:59:00

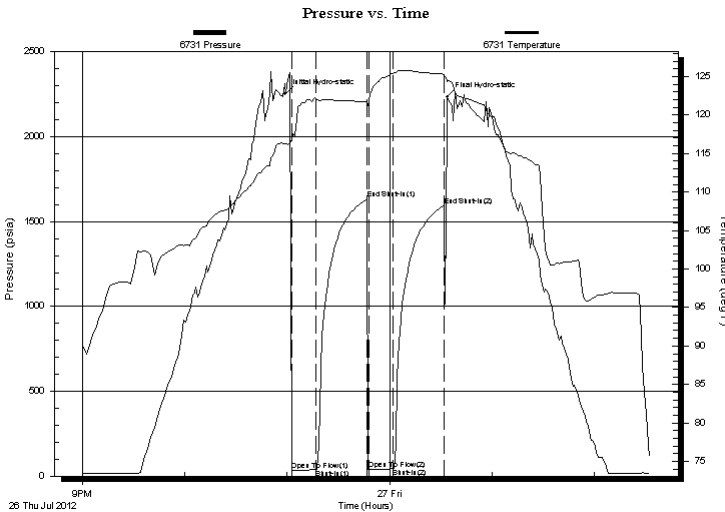
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:02:30  
 Time Test Ended: 02:33:00  
 Interval: **4692.00 ft (KB) To 4698.00 ft (KB) (TVD)**  
 Total Depth: 4695.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3320 Pratt/40  
 Reference Elevations: 1826.00 ft (KB)  
 1813.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 6731 Inside**  
 Press @ Run Depth: 42.87 psia @ 4694.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.26 End Date: 2012.07.27 Last Calib.: 2012.07.27  
 Start Time: 20:59:00 End Time: 02:33:00 Time On Btm: 2012.07.26 @ 22:59:00  
 Time Off Btm: 2012.07.27 @ 00:34:00

**TEST COMMENT:** 1ST Open 15 Minutes/Very weak surface blow/Blow died in 8 minutes  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Dead/No blow  
 2ND Shut In 30 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2252.02	116.27	Initial Hydro-static
4	34.24	116.89	Open To Flow (1)
18	39.29	122.15	Shut-In(1)
48	1631.99	121.80	End Shut-In(1)
49	39.87	121.92	Open To Flow (2)
63	42.87	125.46	Shut-In(2)
93	1594.71	125.31	End Shut-In(2)
95	2236.32	124.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

## Gas Rates

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



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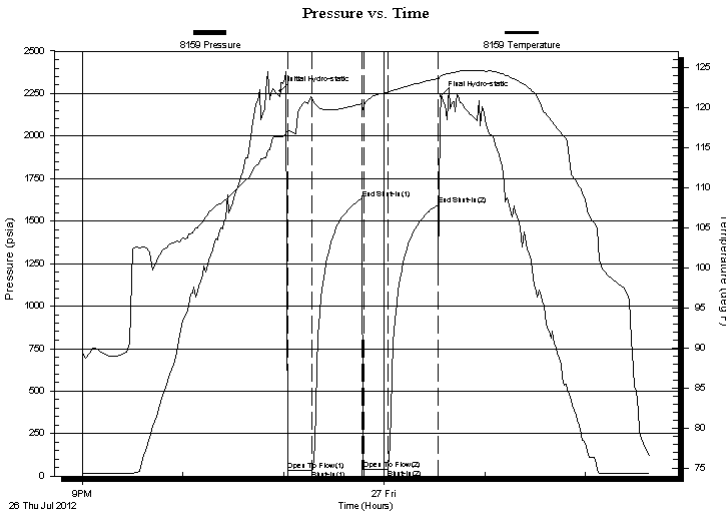
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:02:30  
 Time Test Ended: 02:33:00  
 Interval: **4692.00 ft (KB) To 4698.00 ft (KB) (TVD)**  
 Total Depth: 4695.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3320 Pratt/40  
 Reference Elevations: 1826.00 ft (KB)  
 1813.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8159 Outside**  
 Press @ RunDepth: 1595.68 psia @ 4695.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.26 End Date: 2012.07.27 Last Calib.: 2012.07.27  
 Start Time: 20:59:00 End Time: 02:39:00 Time On Btm: 2012.07.26 @ 22:58:00  
 Time Off Btm: 2012.07.27 @ 00:34:00

**TEST COMMENT:** 1ST Open 15 Minutes/Very weak surface blow/Blow died in 8 minutes  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Dead/No blow  
 2ND Shut In 30 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2264.26	116.41	Initial Hydro-static
5	32.02	117.14	Open To Flow (1)
19	36.40	121.23	Shut-In(1)
49	1632.87	120.53	End Shut-In(1)
50	37.49	120.20	Open To Flow (2)
64	42.23	121.98	Shut-In(2)
94	1595.68	123.67	End Shut-In(2)
96	2236.66	124.05	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G Holl Company  
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## Tool Information

Drill Pipe:	Length: 4492.00 ft	Diameter: 3.80 inches	Volume: 63.01 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 63.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4692.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4669.00	
Hydraulic Tool	5.00			4674.00	
Jars	6.00			4680.00	
Safety Joint	2.00			4682.00	
Packer	5.00			4687.00	28.00 Bottom Of Top Packer
Packer	5.00			4692.00	
Anchor	1.00			4693.00	
Recorder	1.00	6731	Inside	4694.00	
Recorder	1.00	8159	Outside	4695.00	
Bullnose	3.00			4698.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>34.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### 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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

