



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 E. Central STE. 100 Wichita Kansas  
67208-2563

ATTN: Frank Greenbaum

**Binford/Campbell #1**

**31/20s/15w/Barton**

Start Date: 2013.05.04 @ 17:10:00

End Date: 2013.05.04 @ 23:26:30

Job Ticket #: 17580                      DST #: 4

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

Printed: 2013.05.04 @ 23:45:23



# DRILL STEM TEST REPORT

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31/20s/15w/Barton

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ATTN: Frank Greenbaum

Job Ticket: 17580

**DST#: 4**

Test Start: 2013.05.04 @ 17:10:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:00

Time Test Ended: 23:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

**Interval: 3790.00 ft (KB) To 3805.00 ft (KB) (TVD)**

Reference Elevations: 2022.00 ft (KB)

Total Depth: 3805.00 ft (KB) (TVD)

2014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8405**

**Inside**

Press @ RunDepth: 1761.99 psia @ 3801.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.05.04

End Date: 2013.05.04

Last Calib.: 2013.05.04

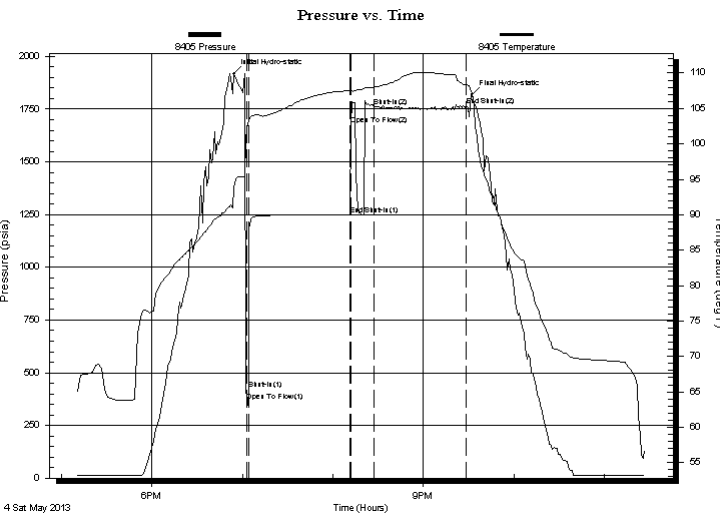
Start Time: 17:10:00

End Time: 23:26:30

Time On Btm: 2013.05.04 @ 18:54:30

Time Off Btm: 2013.05.04 @ 21:32:30

**TEST COMMENT:** 1st Open/ 2 minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds.  
 1st Shut In/ 60 Minutes. Blow back built to 2 inches in 5 gallon bucket.  
 2nd Open/ 15 minutes. No blow flushed tool and still no blow.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1918.05	93.92	Initial Hydro-static
9	367.08	102.05	Open To Flow (1)
10	421.83	103.13	Shut-In(1)
77	1247.60	107.55	End Shut-In(1)
78	1675.52	107.78	Open To Flow (2)
93	1761.99	108.01	Shut-In(2)
154	1767.22	108.31	End Shut-In(2)
158	1819.21	107.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
45.00	100% mud	0.63
372.00	100% water	5.22
0.00	chloride recov. 28000 ppm	0.00
0.00	resist recov .21 ohms @ 40 degrees.	0.00

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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Job Ticket: 17580

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Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

**Interval: 3790.00 ft (KB) To 3805.00 ft (KB) (TVD)**

Reference Elevations: 2022.00 ft (KB)

Total Depth: 3805.00 ft (KB) (TVD)

2014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8400 Outside**

Press @ RunDepth: 1759.65 psia @ 3802.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.05.04

End Date: 2013.05.04

Last Calib.: 2013.05.04

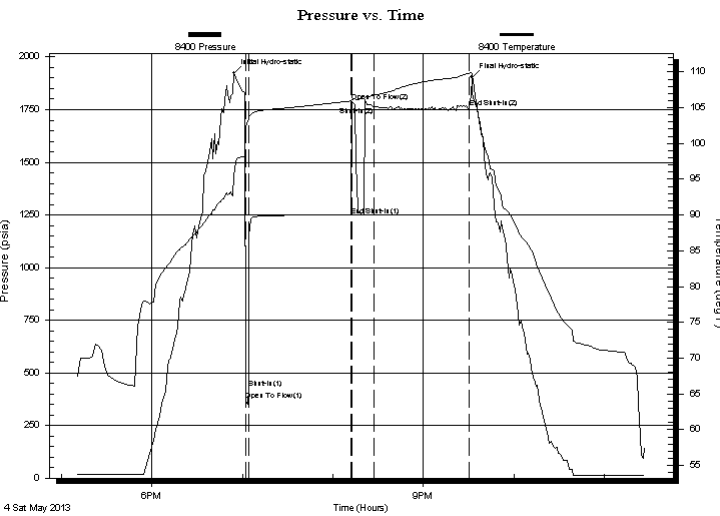
Start Time: 17:10:00

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Time On Btm: 2013.05.04 @ 18:54:30

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**TEST COMMENT:** 1st Open/ 2 minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds.  
 1st Shut In/ 60 Minutes. Blow back built to 2 inches in 5 gallon bucket.  
 2nd Open/ 15 minutes. No blow flushed tool and still no blow.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.17	95.50	Initial Hydro-static
8	370.36	102.36	Open To Flow (1)
10	427.00	103.33	Shut-In(1)
78	1248.31	105.95	End Shut-In(1)
78	1788.03	106.09	Open To Flow (2)
93	1764.79	106.70	Shut-In(2)
157	1759.65	109.80	End Shut-In(2)
158	1904.23	109.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
45.00	100% mud	0.63
372.00	100% water	5.22
0.00	chloride recov. 28000 ppm	0.00
0.00	resist recov .21 ohms @ 40 degrees.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**31/20s/15w/Barton**

9431 E. Central STE. 100 Wichita Kansas 67208-2563

**Binford/Campbell #1**

Job Ticket: 17580

**DST#: 4**

ATTN: Frank Greenbaum

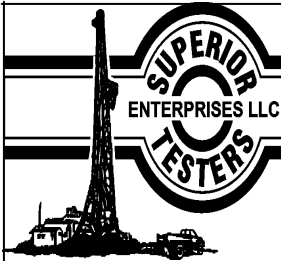
Test Start: 2013.05.04 @ 17:10:00

## Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 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: 52000.00 lb
			<u>Total Volume: 53.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3790.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3772.00	
Hydraulic Tool	5.00			3777.00	
Jars	6.00			3783.00	
Safety Joint	2.00			3785.00	
Packer	5.00			3790.00	23.00 Bottom Of Top Packer
Anchor	10.00			3800.00	
Recorder	1.00	8405	Inside	3801.00	
Recorder	1.00	8400	Outside	3802.00	
Bullnose	3.00			3805.00	15.00 Anchor Tool
<b>Total Tool Length:</b>	<b>38.00</b>				



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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: 50.00 sec/qt  
Water Loss: 8.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5800.00 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
0.00	No gas	0.000
45.00	100% mud	0.631
372.00	100% water	5.218
0.00	chloride recov. 28000 ppm	0.000
0.00	resist recov .21 ohms @ 40 degrees.	0.000

Total Length: 417.00 ft      Total Volume: 5.849 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Tool plugged off at 2nd open.

### Pressure vs. Time

