



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Renee Husted

**Anshutz "B"**

**10/21S/14W/Stafford**

Start Date: 2013.09.21 @ 05:33:00

End Date: 2013.09.21 @ 12:36:00

Job Ticket #: 18156                      DST #: 6

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

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DST#: 6

Test Start: 2013.09.21 @ 05:33:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:21:30

Time Test Ended: 12:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/30

Interval: **3640.00 ft (KB) To 3702.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3702.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6749**

**Inside**

Press @ Run Depth: 91.19 psia @ 3698.42 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.21

End Date: 2013.09.21

Last Calib.: 2013.09.21

Start Time: 05:33:00

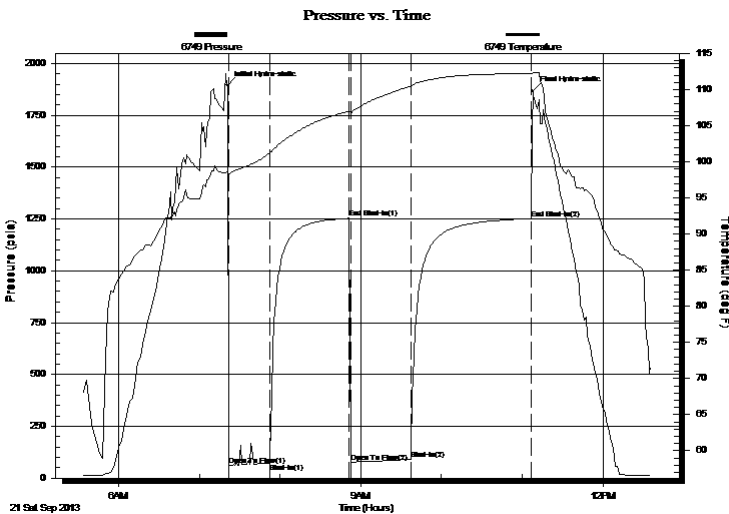
End Time: 12:36:00

Time On Btm: 2013.09.21 @ 07:21:00

Time Off Btm: 2013.09.21 @ 11:08:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 4 inches  
1ST Shut In 60 Minutes/No blow back  
2ND Open 45 Minutes/Weak blow/Blow built to 3 inches  
2ND Shut In 90 Minutes/No blow back

## PRESSURE SUMMARY



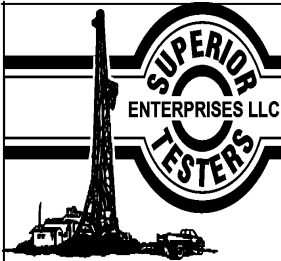
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1895.17	98.69	Initial Hydro-static
1	60.40	98.02	Open To Flow (1)
31	71.55	101.16	Shut-In(1)
91	1253.11	106.98	End Shut-In(1)
92	75.41	106.75	Open To Flow (2)
136	91.19	110.45	Shut-In(2)
226	1250.90	112.18	End Shut-In(2)
227	1867.06	112.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Water cut Mud	1.05
0.00	Water 10% Mud 90%	0.00
0.00	Recov. Chlorides 12,000 ppm	0.00
0.00		0.00

## Gas Rates

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



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Time Tool Opened: 07:21:30

Time Test Ended: 12:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/30

Interval: **3640.00 ft (KB) To 3702.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3702.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: **6666** Outside

Press @ RunDepth: 1249.77 psia @ 3699.42 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.21

End Date: 2013.09.21

Last Calib.: 2013.09.21

Start Time: 05:33:00

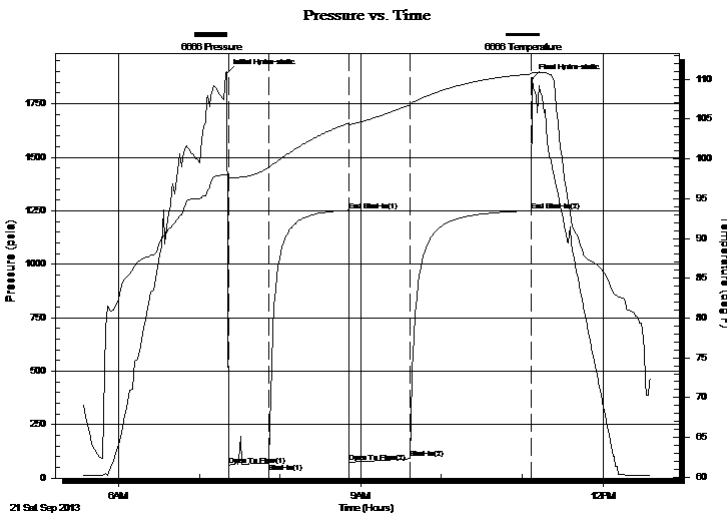
End Time: 12:35:30

Time On Btm: 2013.09.21 @ 07:20:30

Time Off Btm: 2013.09.21 @ 11:07:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 4 inches  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 45 Minutes/Weak blow/Blow built to 3 inches  
 2ND Shut In 90 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1893.09	98.00	Initial Hydro-static
1	61.09	97.69	Open To Flow (1)
31	71.23	98.86	Shut-In(1)
91	1251.93	104.49	End Shut-In(1)
91	74.98	104.22	Open To Flow (2)
136	90.67	106.78	Shut-In(2)
226	1249.77	110.66	End Shut-In(2)
227	1865.89	110.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Water cut Mud	1.05
0.00	Water 10% Mud 90%	0.00
0.00	Recov. Chlorides 12,000 ppm	0.00
0.00		0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/21S/14W/Stafford**

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Job Ticket: 18156

**DST#: 6**

Test Start: 2013.09.21 @ 05:33:00

## Tool Information

Drill Pipe:	Length: 3628.00 ft	Diameter: 3.80 inches	Volume: 50.89 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: 58000.00 lb
			<u>Total Volume: 50.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3640.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.42 ft			
Tool Length:	89.42 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			3618.00	
Hydraulic Tool	5.00			3623.00	
Jars	5.00			3628.00	
Safety Joint	2.00			3630.00	
Packer	5.00			3635.00	27.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Perforations	5.00			3645.00	
Change Over Sub	0.75			3645.75	
Drill Pipe	31.92			3677.67	
Change Over Sub	0.75			3678.42	
Anchor	19.00			3697.42	
Recorder	1.00	6749	Inside	3698.42	
Recorder	1.00	6666	Outside	3699.42	
Bullnose	3.00			3702.42	62.42 Bottom Packers & Anchor

**Total Tool Length: 89.42**



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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: 61.00 sec/qt  
Water Loss: 9.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7200.00 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
75.00	Water cut Mud	1.052
0.00	Water 10% Mud 90%	0.000
0.00	Recov. Chlorides 12,000 ppm	0.000
0.00		0.000

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:

