



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

### **Foster Trust A #1-1**

### **1/21S/16W/Pawnee**

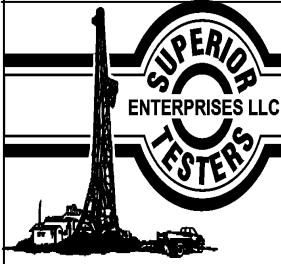
Start Date: 2014.04.06 @ 20:02:00

End Date: 2014.04.07 @ 02:51:00

Job Ticket #: 18222                      DST #: 7

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

Printed: 2014.04.07 @ 03:02:26



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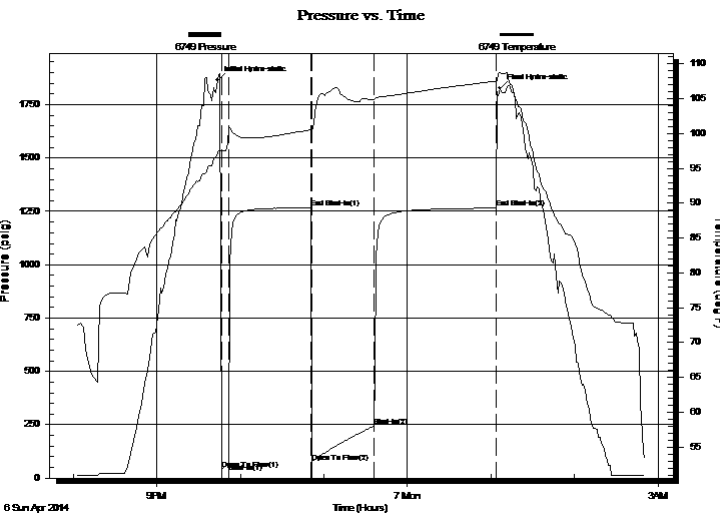
**1/21S/16W/Pawnee**  
**Foster Trust A #1-1**  
 Job Ticket: 18222 **DST#: 7**  
 Test Start: 2014.04.06 @ 20:02:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:46:30  
 Time Test Ended: 02:51:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/32  
 Interval: **3820.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
 Reference Elevations: 1981.00 ft (KB)  
 Total Depth: 3830.00 ft (KB) (TVD) 1973.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press@RunDepth: 244.31 psig @ 3826.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.04.06 End Date: 2014.04.07 Last Calib.: 2014.04.07  
 Start Time: 20:02:00 End Time: 02:51:00 Time On Btm: 2014.04.06 @ 21:43:30  
 Time Off Btm: 2014.04.07 @ 01:06:30

**TEST COMMENT:** 1ST Open 5 Minutes/Fair blow/Blow built to 9 inches in bucket of water  
 1ST Shut In 60 Minutes/Slight surface blow back  
 2ND Open 45 Minutes/Good blow/Blow built to bottom of bucket in 9 minutes  
 2ND Shut In 90 Minutes/Blow back built to 1/2 inch



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.08	97.25	Initial Hydro-static
3	43.45	97.41	Open To Flow (1)
8	68.33	101.05	Shut-In(1)
67	1266.21	100.55	End Shut-In(1)
68	76.57	100.41	Open To Flow (2)
113	244.31	104.92	Shut-In(2)
201	1265.05	107.51	End Shut-In(2)
203	1826.29	108.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
542.00	Slightly gassy Muddy Water	7.60
0.00	Mud 10% Water 90%	0.00
0.00	Recov. Chlorides 31000 ppm	0.00

## Gas Rates

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



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**1/21S/16W/Pawnee**  
**Foster Trust A #1-1**  
Job Ticket: 18222 **DST#: 7**  
Test Start: 2014.04.06 @ 20:02:00

## GENERAL INFORMATION:

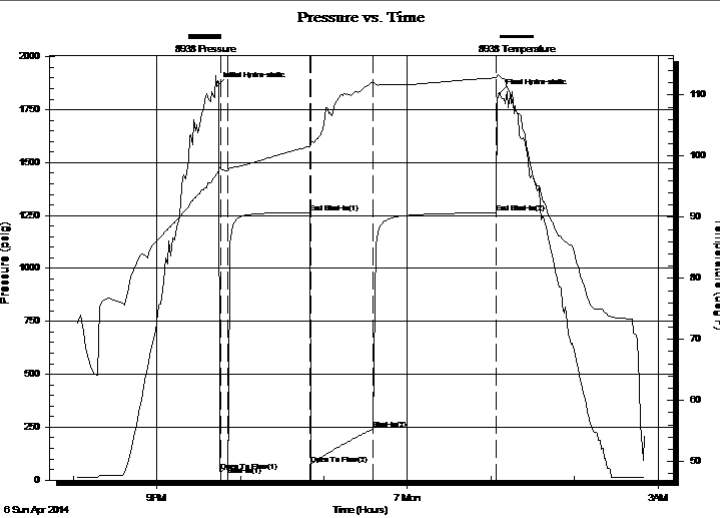
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:46:30  
Time Test Ended: 02:51:00  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: 3325 Great Bend/32  
Interval: **3820.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
Reference Elevations: 1981.00 ft (KB)  
Total Depth: 3830.00 ft (KB) (TVD) 1973.00 ft (CF)  
Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8938

**Outside**

Press@RunDepth: 1262.67 psig @ 3827.00 ft (KB) Capacity: 5000.00 psig  
Start Date: 2014.04.06 End Date: 2014.04.07 Last Calib.: 2014.04.07  
Start Time: 20:02:00 End Time: 02:51:00 Time On Btm: 2014.04.06 @ 21:43:00  
Time Off Btm: 2014.04.07 @ 01:06:00

**TEST COMMENT:** 1ST Open 5 Minutes/Fair blow /Blow built to 9 inches in bucket of water  
1ST Shut In 60 Minutes/Slight surface blow back  
2ND Open 45 Minutes/Good blow /Blow built to bottom of bucket in 9 minutes  
2ND Shut In 90 Minutes/Blow back built to 1/2 inch



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.28	97.10	Initial Hydro-static
3	40.84	98.07	Open To Flow (1)
8	65.47	97.67	Shut-In(1)
67	1263.85	101.62	End Shut-In(1)
68	73.11	102.25	Open To Flow (2)
113	242.06	112.24	Shut-In(2)
201	1262.67	112.83	End Shut-In(2)
203	1824.14	113.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
542.00	Slightly gassy Muddy Water	7.60
0.00	Mud 10% Water 90%	0.00
0.00	Recov. Chlorides 31000 ppm	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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# DRILL STEM TEST REPORT

TOOL DIAGRAM

FG Holl Company LLC

1/21S/16W/Pawnee

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Ryan Greenbaum

Foster Trust A #1-1

Job Ticket: 18222

DST#: 7

Test Start: 2014.04.06 @ 20:02:00

## Tool Information

Drill Pipe:	Length: 3808.00 ft	Diameter: 3.80 inches	Volume: 53.42 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: 90000.00 lb
			<u>Total Volume: 53.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3820.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	1	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3802.00	
Hydraulic tool	5.00			3807.00	
Jars	6.00			3813.00	
Safety Joint	2.00			3815.00	
Packer	5.00			3820.00	23.00 Bottom Of Top Packer
Anchor	5.00			3825.00	
Recorder	1.00	6749	Inside	3826.00	
Recorder	1.00	8938	Outside	3827.00	
Bullnose	3.00			3830.00	10.00 Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</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: 62.00 sec/qt  
Water Loss: 12.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 119000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
542.00	Slightly gassy Muddy Water	7.603
0.00	Mud 10% Water 90%	0.000
0.00	Recov. Chlorides 31000 ppm	0.000

Total Length: 542.00 ft      Total Volume: 7.603 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

