



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 @ 06:47:00

End Date: 2014.04.06 @ 12:30:00

Job Ticket #: 18221 DST #: 6

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

Printed: 2014.04.06 @ 12:53:50



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Test Start: 2014.04.06 @ 06:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:30

Time Test Ended: 12:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/32

Interval: **3810.00 ft (KB) To 3820.00 ft (KB) (TVD)**

Reference Elevations: 1981.00 ft (KB)

Total Depth: 3820.00 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: 1257.37 psig @ 3817.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.06

End Date: 2014.04.06

Last Calib.: 2014.04.06

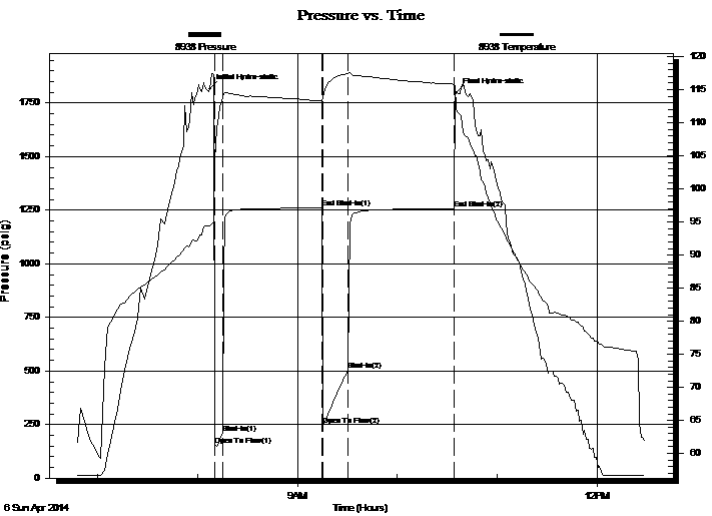
Start Time: 06:47:00

End Time: 12:29:00

Time On Btm: 2014.04.06 @ 08:07:30

Time Off Btm: 2014.04.06 @ 10:35:30

TEST COMMENT: 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 25 seconds
 1ST Shut In 60 Minutes/Blow back built to bottom of bucket in 15 minutes
 2ND Open 15 Minutes/Strong blow/Blow built to bottom of bucket in 1 minute 15 seconds
 2ND Shut In 60 Minutes/Blow back built to bottom of bucket in 9 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1815.03	94.45	Initial Hydro-static
3	151.43	104.20	Open To Flow (1)
8	208.14	113.75	Shut-In(1)
67	1259.45	113.28	End Shut-In(1)
68	244.63	113.80	Open To Flow (2)
83	505.93	117.44	Shut-In(2)
147	1257.37	115.85	End Shut-In(2)
148	1797.74	112.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1116 feet of gas in pipe	0.00
186.00	Gas and Oil cut Muddy Water	2.61
0.00	Gas 15%/Oil 15%/Mud 30%/Water 40%	0.00
372.00	Gas cut Oily Water	5.22
0.00	Gas 5%/Oil 5%/Water 90%	0.00
434.00	Slightly gassy Water	6.09

Gas Rates

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



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TOOL DIAGRAM

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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:	74000.00 lb
			<u>Total Volume: 53.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3810.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	1	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			3792.00	
Hydraulic tool	5.00			3797.00	
Jars	6.00			3803.00	
Safety Joint	2.00			3805.00	
Packer	5.00			3810.00	23.00 Bottom Of Top Packer
Anchor	5.00			3815.00	
Recorder	1.00	6749	Inside	3816.00	
Recorder	1.00	8938	Outside	3817.00	
Bullnose	3.00			3820.00	10.00 Anchor Tool
Total Tool Length:	33.00				



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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 in³
Resistivity: ohm.m
Salinity: 11900.00 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
0.00	1116 feet of gas in pipe	0.000
186.00	Gas and Oil cut Muddy Water	2.609
0.00	Gas 15%/Oil 15%/Mud 30%/Water 40%	0.000
372.00	Gas cut Oily Water	5.218
0.00	Gas 5%/Oil 5%/Water 90%	0.000
434.00	Slightly gassy Water	6.088
0.00	Gas 2% Water 98%	0.000
0.00	Recov. Chlorides 32000 ppm	0.000

Total Length: 992.00 ft Total Volume: 13.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

