



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: 2014.04.03 @ 07:56:00

End Date: 2014.04.03 @ 14:15:00

Job Ticket #: 18216 DST #: 1

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

Printed: 2014.04.03 @ 14:44:25



DRILL STEM TEST REPORT

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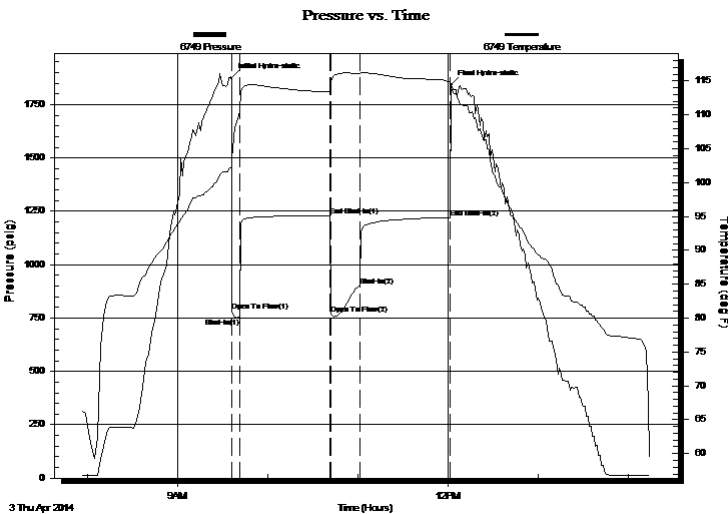
1/21S/16W/Pawnee
Foster Trust A #1-1
 Job Ticket: 18216 **DST#: 1**
 Test Start: 2014.04.03 @ 07:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:36:30 Tester: Ken Swinney
 Time Test Ended: 14:15:00 Unit No: 3325 Great Bend/32
 Interval: **3756.00 ft (KB) To 3767.00 ft (KB) (TVD)** Reference Elevations: 1981.00 ft (KB)
 Total Depth: 3767.00 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: 898.20 psig @ 3763.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.03 End Date: 2014.04.03 Last Calib.: 2014.04.03
 Start Time: 07:56:00 End Time: 14:15:00 Time On Btm: 2014.04.03 @ 09:36:00
 Time Off Btm: 2014.04.03 @ 12:02:30

TEST COMMENT: 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 15 seconds/Gas to surface in 2 minutes
 1ST Shut In 60 Minutes/No blow back
 2ND Open 20 Minutes/Strong blow/Blow at bottom of bucket at open
 2ND Shut In 60 Minutes/Strong blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.79	102.17	Initial Hydro-static
1	783.81	103.61	Open To Flow (1)
6	749.16	110.52	Shut-In(1)
66	1229.82	113.36	End Shut-In(1)
67	769.40	115.00	Open To Flow (2)
86	898.20	116.15	Shut-In(2)
146	1221.34	114.85	End Shut-In(2)
147	1843.28	113.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Gas cut Watery Oil	0.63
0.00	Gas 10%/Water 40%/Oil 50%	0.00
620.00	Oil cut Gassy Water	8.70
0.00	Oil 3% Gas 7% Water 90%	0.00
310.00	Slightly gas cut Water	4.35
0.00	Gas 5% Water 95%	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.67	577.08
Last Gas Rate	1.00	4.80	552.06
Max. Gas Rate	1.00	5.67	577.08



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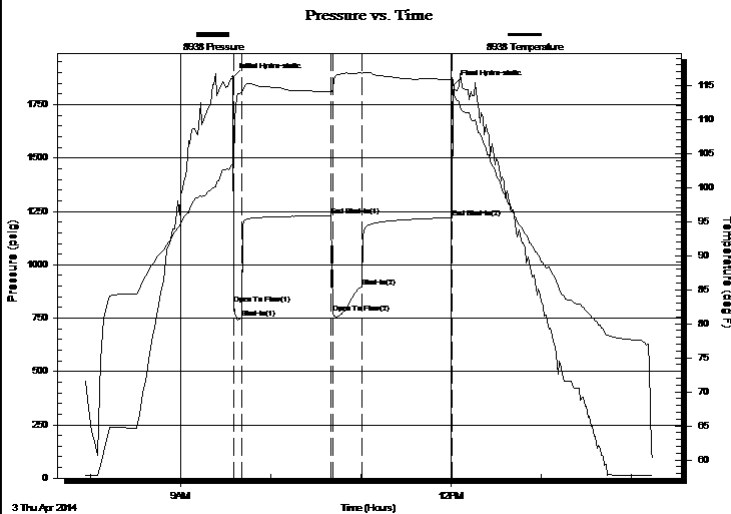
1/21S/16W/Pawnee
Foster Trust A #1-1
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 Total Depth: 3767.00 ft (KB) (TVD) 1973.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8938 Outside
 Press@RunDepth: 1220.14 psig @ 3764.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.03 End Date: 2014.04.03 Last Calib.: 2014.04.03
 Start Time: 07:56:00 End Time: 14:14:30 Time On Btm: 2014.04.03 @ 09:35:00
 Time Off Btm: 2014.04.03 @ 12:02:00

TEST COMMENT: 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 15 seconds/Gas to surface in 2 minutes
 1ST Shut In 60 Minutes/No blow back
 2ND Open 20 Minutes/Strong blow/Blow at bottom of bucket at open
 2ND Shut In 60 Minutes/Strong blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.85	103.46	Initial Hydro-static
1	817.18	102.90	Open To Flow (1)
6	749.09	113.95	Shut-In(1)
66	1228.69	114.00	End Shut-In(1)
67	775.63	114.40	Open To Flow (2)
86	896.68	116.80	Shut-In(2)
146	1220.14	115.81	End Shut-In(2)
147	1842.47	114.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Gas cut Watery Oil	0.63
0.00	Gas 10%/Water 40%/Oil 50%	0.00
620.00	Oil cut Gassy Water	8.70
0.00	Oil 3% Gas 7% Water 90%	0.00
310.00	Slightly gas cut Water	4.35
0.00	Gas 5% Water 95%	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.67	577.08
Last Gas Rate	1.00	4.80	552.06
Max. Gas Rate	1.00	5.67	577.08



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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: 18216

DST#: 1

Test Start: 2014.04.03 @ 07:56:00

Tool Information

Drill Pipe:	Length: 3747.00 ft	Diameter: 3.80 inches	Volume: 52.56 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:	70000.00 lb
			<u>Total Volume: 52.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3756.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	39.00 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			3733.00	
Hydraulic tool	5.00			3738.00	
Jars	6.00			3744.00	
Safety Joint	2.00			3746.00	
Top Packer	5.00			3751.00	
Packer	5.00			3756.00	28.00 Bottom Of Top Packer
Anchor	6.00			3762.00	
Recorder	1.00	6749	Inside	3763.00	
Recorder	1.00	8938	Outside	3764.00	
Bullnose	3.00			3767.00	11.00 Anchor Tool
Total Tool Length:	39.00				



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FLUID SUMMARY

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Test Start: 2014.04.03 @ 07:56:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

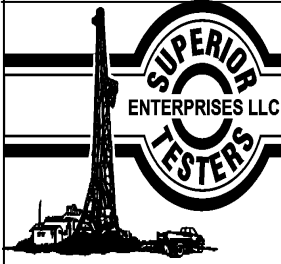
Length ft	Description	Volume bbl
45.00	Gas cut Watery Oil	0.631
0.00	Gas 10%/Water 40%/Oil 50%	0.000
620.00	Oil cut Gassy Water	8.697
0.00	Oil 3% Gas 7% Water 90%	0.000
310.00	Slightly gas cut Water	4.348
0.00	Gas 5% Water 95%	0.000
0.00	Recov. Chlorides 39.000 ppm	0.000
0.00	Recov. Resist. .23 ohms @58 deg	0.000

Total Length: 975.00 ft Total Volume: 13.676 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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GAS RATES

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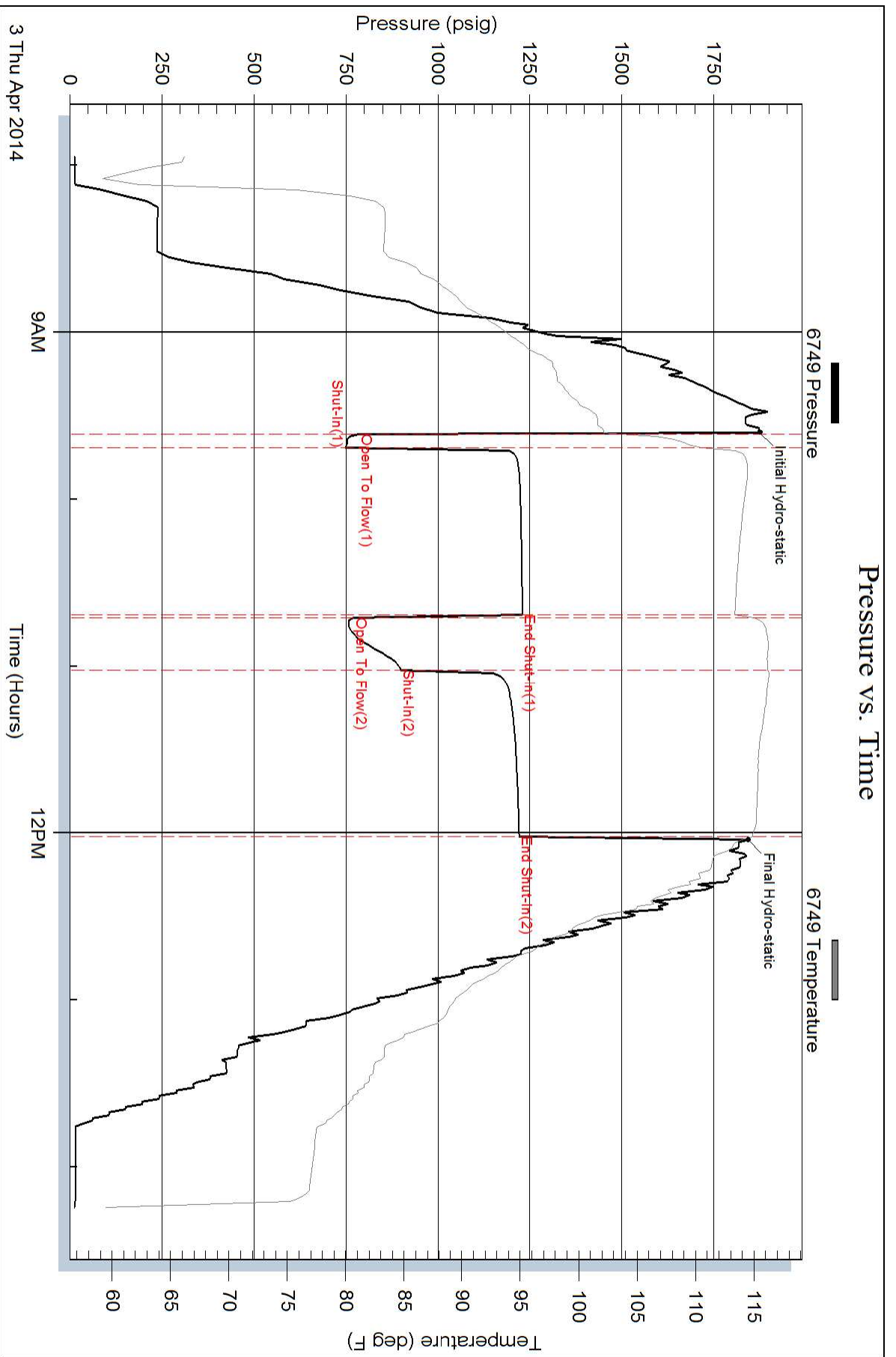
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	5	1.00	5.67	577.08
2	5	1.00	2.02	472.06
2	8	1.00	4.80	552.06

Pressure vs. Time



Pressure vs. Time

