



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

Krupp 3-10

10/22S/14W/Stafford

Start Date: 2013.10.13 @ 15:37:00

End Date: 2013.10.13 @ 19:37:00

Job Ticket #: 18170 DST #: 9

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

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Job Ticket: 18170

DST#: 9

Test Start: 2013.10.13 @ 15:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 19:37:00

Interval: 3813.00 ft (KB) To 3819.00 ft (KB) (TVD)

Total Depth: 3819.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition:

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

Reference Elevations: 1946.00 ft (KB)

1938.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6749 Inside

Press @ RunDepth: psia @ 3815.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.13

End Date: 2013.10.13

Last Calib.: 2013.10.13

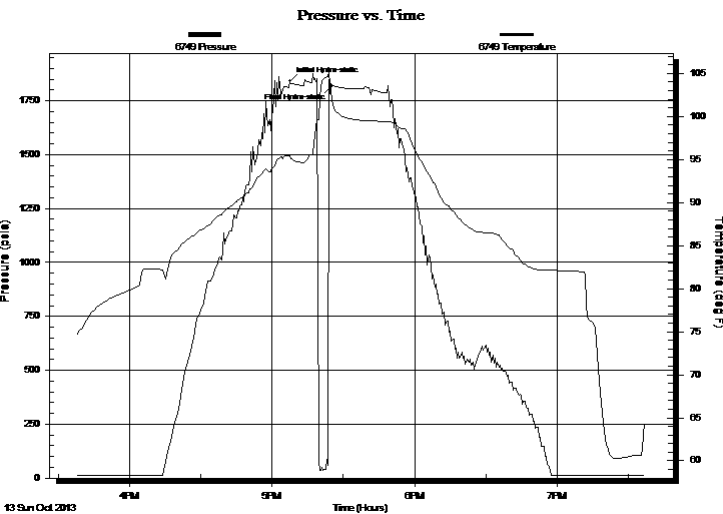
Start Time: 15:37:00

End Time: 19:37:00

Time On Btm: 2013.10.13 @ 17:07:30

Time Off Btm: 2013.10.13 @ 17:25:00

TEST COMMENT: Tool taking w eight 12 foot high, slide 7 foot surging blow with slide no build after, Pulled up and reset tool no help, pull test



PRESSURE SUMMARY

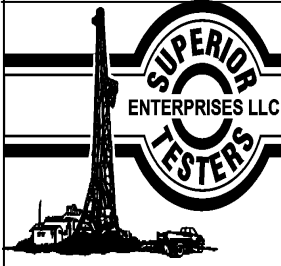
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.92	95.50	Initial Hydro-static
18	1822.46	102.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

Gas Rates

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



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Krupp 3-10

Job Ticket: 18170 **DST#: 9**
Test Start: 2013.10.13 @ 15:37:00

GENERAL INFORMATION:

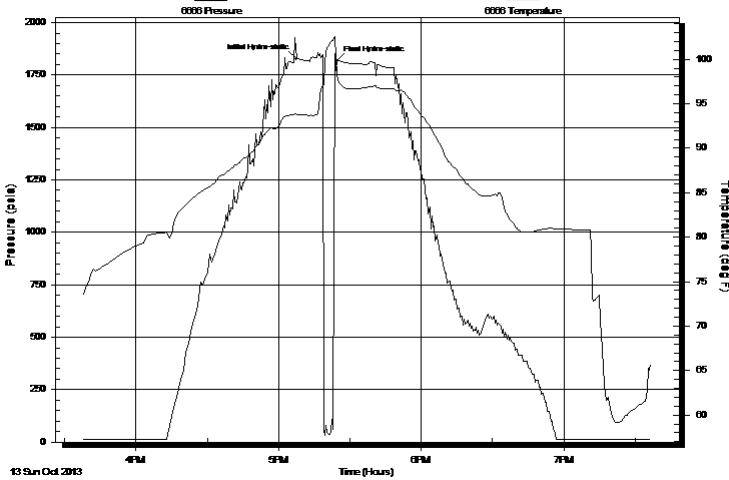
Formation:	Arbuckle		Test Type:	Conventional Bottom Hole (Initial)	
Deviated:	No	Whipstock:	ft (KB)	Tester:	Ken Swinney
Time Tool Opened:				Unit No:	3325 Great Bend/36
Time Test Ended:	19:37:00			Reference Elevations:	1946.00 ft (KB)
Interval:	3813.00 ft (KB) To 3819.00 ft (KB) (TVD)				1938.00 ft (CF)
Total Depth:	3819.00 ft (KB) (TVD)			KB to GR/CF:	8.00 ft
Hole Diameter:	7.80 inches		Hole Condition:		

Serial #: 6666 **Outside**

Press @ RunDepth:	psia	@	3816.00 ft (KB)	Capacity:	psia
Start Date:	2013.10.13	End Date:	2013.10.13	Last Calib.:	1899.12.30
Start Time:	15:37:00	End Time:	19:36:30	Time On Btm:	2013.10.13 @ 17:07:30
				Time Off Btm:	2013.10.13 @ 17:24:30

TEST COMMENT: Tool taking w eight 12 foot high, slide 7 foot surging blow with slide no build after, Pulled up and reset tool no help, pull test

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1828.15	93.78	Initial Hydro-static
17	1820.09	98.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

10/22S/14W/Stafford

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Suite 100
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Krupp 3-10

Job Ticket: 18170

DST#: 9

Test Start: 2013.10.13 @ 15:37:00

Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 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: 60000.00 lb
			<u>Total Volume: 53.15 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3813.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3791.00	
Hydraulic Tool	5.00			3796.00	
Jars	5.00			3801.00	
Safety Joint	2.00			3803.00	
Packer	5.00			3808.00	27.00 Bottom Of Top Packer
Packer	5.00			3813.00	
Anchor	1.00			3814.00	
Recorder	1.00	6749	Inside	3815.00	
Recorder	1.00	6666	Outside	3816.00	
Bullnose	3.00			3819.00	6.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



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FLUID SUMMARY

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Job Ticket: 18170

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Test Start: 2013.10.13 @ 15:37:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 6000.00 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
5.00	Mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

