



## 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: 2013.10.09 @ 01:11:00

End Date: 2013.10.09 @ 07:12:00

Job Ticket #: 18163                      DST #: 2

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

Printed: 2013.10.09 @ 07:21:36

FG Holl Company LLC

10/22S/14W/Stafford

Krupp 3-10

DST # 2

Lansing/Kansas City

2013.10.09



# DRILL STEM TEST REPORT

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 ATTN: Ryan Greenbaum

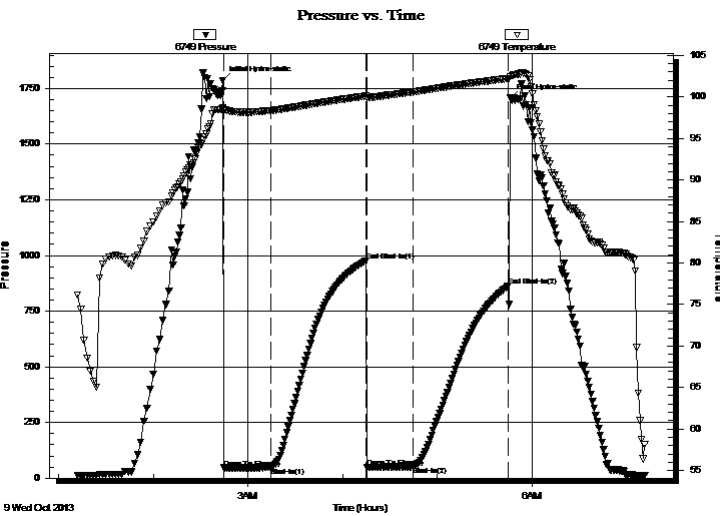
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18163      **DST#: 2**  
 Test Start: 2013.10.09 @ 01:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:44:30  
 Time Test Ended: 07:12:00  
 Interval: **3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**  
 Total Depth: 3533.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 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: 51.43 psia @ 3529.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.09      End Date: 2013.10.09      Last Calib.: 2013.10.09  
 Start Time: 01:11:00      End Time: 07:12:00      Time On Btm: 2013.10.09 @ 02:44:00  
 Time Off Btm: 2013.10.09 @ 05:46:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/blow built to 1 1/2 inch  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Dead no blow /Flush tool/Weak blow that died in 8 minutes  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1785.28	98.67	Initial Hydro-static
1	45.58	98.42	Open To Flow (1)
31	47.28	98.36	Shut-In(1)
91	975.17	100.09	End Shut-In(1)
92	49.21	99.93	Open To Flow (2)
121	51.43	100.60	Shut-In(2)
181	862.83	102.21	End Shut-In(2)
183	1706.41	102.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% w ith oil spots in tool	0.21

## Gas Rates

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



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**Krupp 3-10**

Job Ticket: 18163

**DST#: 2**

Test Start: 2013.10.09 @ 01:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:30

Time Test Ended: 07:12:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3533.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Outside**

Press @ RunDepth: 860.98 psia @ 3530.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.09

End Date: 2013.10.09

Last Calib.: 2013.10.09

Start Time: 01:11:00

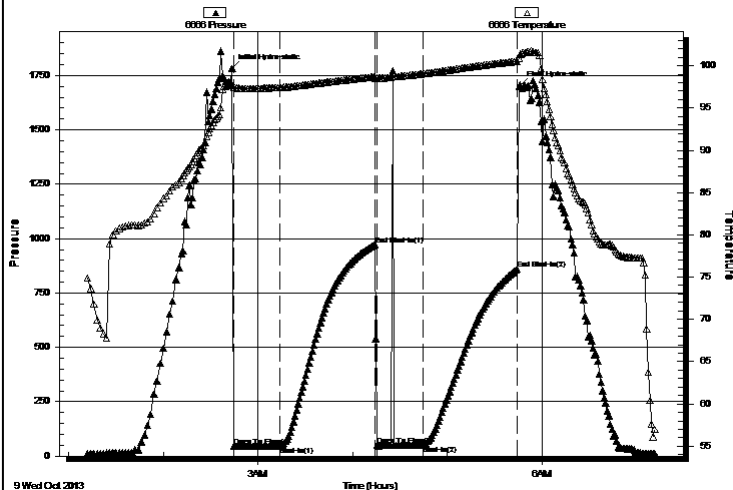
End Time: 07:11:30

Time On Btm: 2013.10.09 @ 02:43:30

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**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/blow built to 1 1/2 inch  
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2ND Shut In 60 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1781.59	97.76	Initial Hydro-static
1	45.92	97.42	Open To Flow (1)
31	46.81	97.42	Shut-In(1)
91	973.51	98.69	End Shut-In(1)
92	47.93	98.52	Open To Flow (2)
121	50.23	99.04	Shut-In(2)
181	860.98	100.52	End Shut-In(2)
183	1705.49	101.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% w ith oil spots in tool	0.21

Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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**Krupp 3-10**

Job Ticket: 18163

**DST#: 2**

Test Start: 2013.10.09 @ 01:11:00

## Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 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: 49.12 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3500.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			3478.00	
Hydraulic Tool	5.00			3483.00	
Jars	5.00			3488.00	
Safety Joint	2.00			3490.00	
Packer	5.00			3495.00	27.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Anchor	28.00			3528.00	
Recorder	1.00	6749	Inside	3529.00	
Recorder	1.00	6666	Outside	3530.00	
Bullnose	3.00			3533.00	33.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

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ATTN: Ryan Greenbaum

**Krupp 3-10**

Job Ticket: 18163

**DST#: 2**

Test Start: 2013.10.09 @ 01:11:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 8.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5300.00 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
15.00	Mud 100% w ith oil spots in tool	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

