



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Renee Husted

### **Stoss # 1-35**

### **35/17S/15W/Barton**

Start Date: 2014.05.13 @ 01:02:00

End Date: 2014.05.13 @ 08:07:00

Job Ticket #: 18259                      DST #: 1

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

Printed: 2014.05.13 @ 08:19:35



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 ATTN: Renee Husted

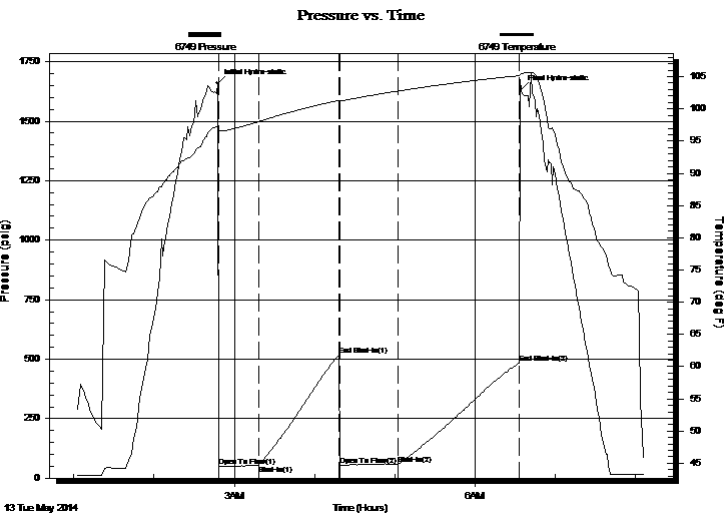
**35/17S/15W/Barton**  
**Stoss # 1-35**  
 Job Ticket: 18259      **DST#: 1**  
 Test Start: 2014.05.13 @ 01:02:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 02:48:30  
 Time Test Ended: 08:07:00  
 Interval: **3284.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: 3330.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/  
 Reference Elevations: 1999.00 ft (KB)  
 1991.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749      Inside**  
 Press@RunDepth: 58.78 psig @ 3326.00 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2014.05.13      End Date: 2014.05.13      Last Calib.: 2014.05.13  
 Start Time: 01:02:00      End Time: 08:07:00      Time On Btm: 2014.05.13 @ 02:47:30  
 Time Off Btm: 2014.05.13 @ 06:34:00

**TEST COMMENT:** 1ST Open      30 Minutes/Good blow /Blow built to bottom of bucket in 16 minutes 30 seconds  
 1ST Shut In      60 Minutes/No blow back  
 2ND Open      45 Minutes/Good blow /Blow built to bottom of bucket in 5 minutes 45 seconds  
 2ND Shut In      90 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.83	97.24	Initial Hydro-static
1	50.32	96.65	Open To Flow (1)
31	52.84	98.02	Shut-In(1)
91	517.28	101.31	End Shut-In(1)
91	53.84	101.21	Open To Flow (2)
135	58.78	102.77	Shut-In(2)
225	483.23	105.14	End Shut-In(2)
227	1633.31	105.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	403 feet of gas in pipe	0.00
30.00	Mud with show of oil/ Mud 100%	0.42

## Gas Rates

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



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**35/17S/15W/Barton**

**Stoss # 1-35**

Job Ticket: 18259

**DST#: 1**

Test Start: 2014.05.13 @ 01:02:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:48:30

Time Test Ended: 08:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/

**Interval: 3284.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Reference Elevations: 1999.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

1991.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8938 Outside**

Press@RunDepth: 482.61 psig @ 3327.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.13

End Date: 2014.05.13

Last Calib.: 2014.05.13

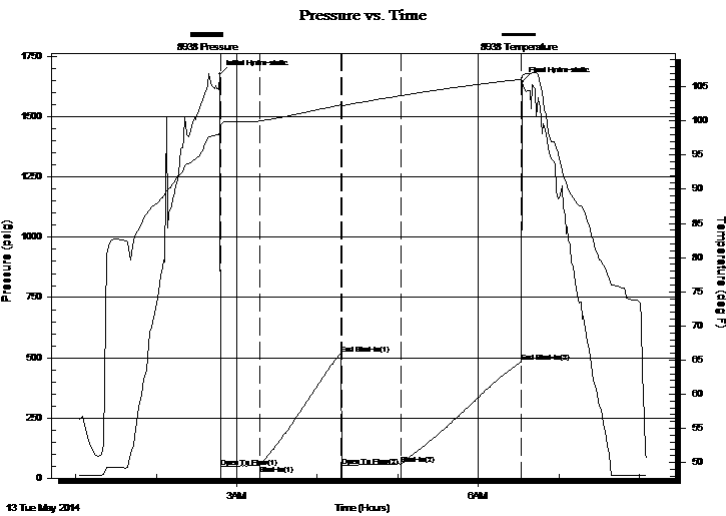
Start Time: 01:02:00

End Time: 08:06:00

Time On Btm: 2014.05.13 @ 02:47:30

Time Off Btm: 2014.05.13 @ 06:33:00

**TEST COMMENT:** 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 16 minutes 30 seconds  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 45 Minutes/Good blow /Blow built to bottom of bucket in 5 minutes 45 seconds  
 2ND Shut In 90 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.71	98.41	Initial Hydro-static
1	46.20	99.41	Open To Flow (1)
30	53.41	100.02	Shut-In(1)
90	515.59	102.34	End Shut-In(1)
91	50.49	102.26	Open To Flow (2)
136	58.01	103.71	Shut-In(2)
225	482.61	106.10	End Shut-In(2)
226	1646.78	106.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	403 feet of gas in pipe	0.00
30.00	Mud with show of oil/ Mud 100%	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

FG Holl Company LLC

35/17S/15W/Barton

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Renee Husted

Stoss # 1-35

Job Ticket: 18259

DST#: 1

Test Start: 2014.05.13 @ 01:02:00

## Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 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: 55000.00 lb
			<u>Total Volume: 46.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3284.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Replace damaged packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3262.00	
Hydraulic tool	5.00			3267.00	
Jars	5.00			3272.00	
Safety Joint	2.00			3274.00	
Top Packer	5.00			3279.00	
Packer	5.00			3284.00	27.00 Bottom Of Top Packer
Anchor	41.00			3325.00	
Recorder	1.00	6749	Inside	3326.00	
Recorder	1.00	8938	Outside	3327.00	
Bullnose	3.00			3330.00	46.00 Anchor Tool
<b>Total Tool Length:</b>	<b>73.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**Stoss # 1-35**

Job Ticket: 18259

**DST#: 1**

Test Start: 2014.05.13 @ 01:02:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 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	403 feet of gas in pipe	0.000
30.00	Mud with show of oil/ Mud 100%	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

