



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Cantrell Unit #1-26

26/17S/15W/Barton

Start Date: 2012.09.21 @ 22:15:00

End Date: 2012.09.22 @ 05:53:00

Job Ticket #: 17836 DST #: 4

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

Printed: 2012.09.22 @ 06:07:18

FG Holl Company LLC

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DST # 4

Lansing/Kansas City

2012.09.21



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GENERAL INFORMATION:

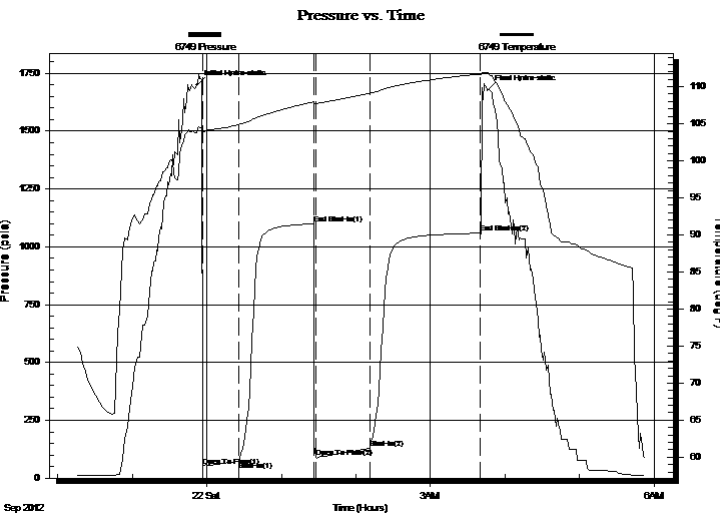
Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:56:30
 Time Test Ended: 05:53:00
 Interval: **3457.00 ft (KB) To 3478.00 ft (KB) (TVD)**
 Total Depth: 3478.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/40
 Reference Elevations: 2023.00 ft (KB)
 2012.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749

Inside

Press @ Run Depth: 128.36 psia @ 3474.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.21 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 22:15:00 End Time: 05:53:00 Time On Btm: 2012.09.21 @ 23:52:30
 Time Off Btm: 2012.09.22 @ 03:46:30

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 1/4 minutes
 1ST Shut In 60 Minutes/Blow back built to 7 inches
 2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 40 seconds
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 15 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1700.52	104.51	Initial Hydro-static
4	52.53	104.02	Open To Flow (1)
34	74.71	104.90	Shut-In(1)
94	1099.15	107.95	End Shut-In(1)
95	88.87	107.74	Open To Flow (2)
139	128.36	109.10	Shut-In(2)
228	1059.41	111.71	End Shut-In(2)
234	1677.89	111.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	Clean gassy oil	2.45
0.00	Gas 40% Oil 60%	0.00
90.00	Oil cut Muddy Gas	1.26
0.00	Oil 20% Mud 30% Gas 50%	0.00
0.00	Corrected Specific Grav. Oil 38	0.00

Gas Rates

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



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TOOL DIAGRAM

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DST#: 4

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Tool Information

Drill Pipe:	Length: 3435.00 ft	Diameter: 3.80 inches	Volume: 48.18 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: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3457.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 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			3435.00	
Hydraulic Tool	5.00			3440.00	
Jars	5.00			3445.00	
Safety Joint	2.00			3447.00	
Packer	5.00			3452.00	27.00 Bottom Of Top Packer
Packer	5.00			3457.00	
Anchor	16.00			3473.00	
Recorder	1.00	6749	Inside	3474.00	
Recorder	1.00	6999	Outside	3475.00	
Bullnose	3.00			3478.00	21.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



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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: 53.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 4900.00 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
175.00	Clean gassy oil	2.455
0.00	Gas 40% Oil 60%	0.000
90.00	Oil cut Muddy Gas	1.262
0.00	Oil 20% Mud 30% Gas 50%	0.000
0.00	Corrected Specific Grav. Oil 38	0.000

Total Length: 265.00 ft Total Volume: 3.717 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

