



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Renee Husted

Anshutz "B"

10/21S/14W/Stafford

Start Date: 2013.09.18 @ 20:27:00

End Date: 2013.09.19 @ 03:30:00

Job Ticket #: 18152 DST #: 2

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

Printed: 2013.09.19 @ 03:49:49

FG Holl Company LLC
10/21S/14W/Stafford
Anshutz "B"
DST # 2
Lansing/Kansas City
2013.09.18



DRILL STEM TEST REPORT

FG Holl Company LLC
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 Suite 100
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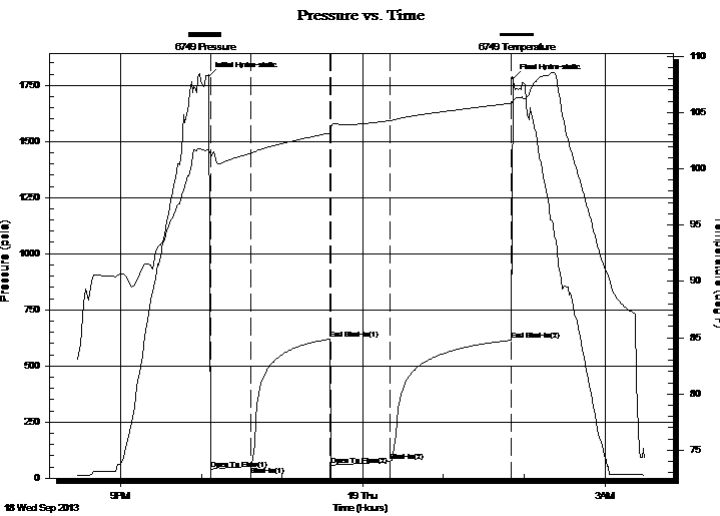
10/21S/14W/Stafford
Anshutz "B"
 Job Ticket: 18152 **DST#: 2**
 Test Start: 2013.09.18 @ 20:27:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:06:30
 Time Test Ended: 03:30:00
 Interval: **3504.00 ft (KB) To 3521.00 ft (KB) (TVD)**
 Total Depth: 3521.00 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/30
 Reference Elevations: 1938.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6749 Inside
 Press @ RunDepth: 73.43 psia @ 3517.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.18 End Date: 2013.09.19 Last Calib.: 2013.09.19
 Start Time: 20:27:00 End Time: 03:30:00 Time On Btm: 2013.09.18 @ 22:05:30
 Time Off Btm: 2013.09.19 @ 01:51:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 3 1/4 inches
 1ST Shut In 60 Minutes/No blow back
 2ND Open 45 Minutes/Weak blow/Blow built to 2 inches
 2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.12	101.69	Initial Hydro-static
1	38.38	101.27	Open To Flow (1)
32	52.80	101.39	Shut-In(1)
90	619.89	103.18	End Shut-In(1)
91	58.92	103.66	Open To Flow (2)
136	73.43	104.30	Shut-In(2)
225	614.32	105.82	End Shut-In(2)
226	1781.03	106.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Muddy Water	0.98
0.00	Mud 25% Water 75%	0.00
0.00	Recov. Chlorides 62,000 ppm	0.00
0.00	Recov. Resist. .28 ohms @ 78 deg	0.00

Gas Rates

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



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Anshutz "B"
 Job Ticket: 18152 **DST#: 2**
 Test Start: 2013.09.18 @ 20:27:00

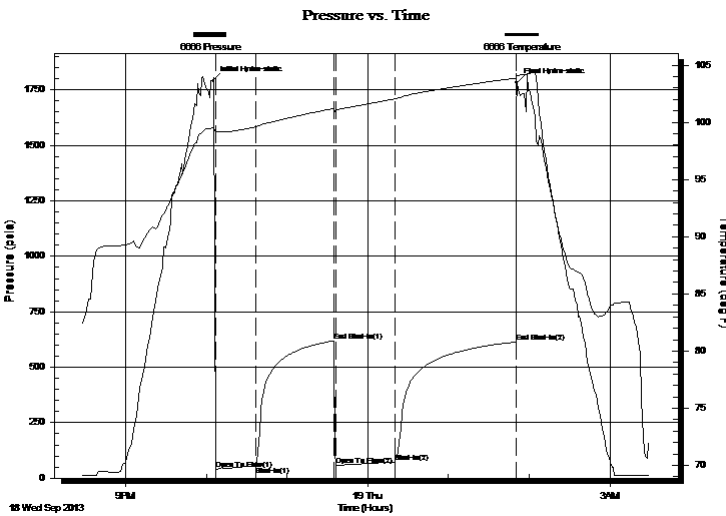
GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:06:30
 Time Test Ended: 03:30:00
 Interval: **3504.00 ft (KB) To 3521.00 ft (KB) (TVD)**
 Total Depth: 3521.00 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/30
 Reference Elevations: 1938.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6666 Outside
 Press @ RunDepth: 613.28 psia @ 3518.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.18 End Date: 2013.09.19 Last Calib.: 2013.09.19
 Start Time: 20:27:00 End Time: 03:29:30 Time On Btm: 2013.09.18 @ 22:05:00
 Time Off Btm: 2013.09.19 @ 01:51:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 3 1/4 inches
 1ST Shut In 60 Minutes/No blow back
 2ND Open 45 Minutes/Weak blow/Blow built to 2 inches
 2ND Shut In 90 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1790.13	99.51	Initial Hydro-static
2	38.33	99.22	Open To Flow (1)
32	54.51	99.59	Shut-In(1)
90	618.68	101.23	End Shut-In(1)
92	56.99	101.12	Open To Flow (2)
136	73.42	102.06	Shut-In(2)
225	613.28	103.86	End Shut-In(2)
226	1782.78	104.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Muddy Water	0.98
0.00	Mud 25% Water 75%	0.00
0.00	Recov. Chlorides 62,000 ppm	0.00
0.00	Recov. Resist. .28 ohms @ 78 deg	0.00

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

10/21S/14W/Stafford

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Wichita, Kansas 67206+2563
ATTN: Renee Hustead

Anshutz "B"

Job Ticket: 18152

DST#: 2

Test Start: 2013.09.18 @ 20:27:00

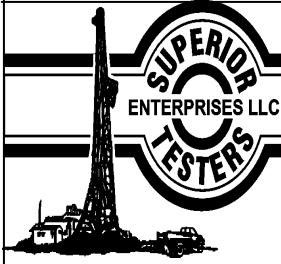
Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 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: 56000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3504.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 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			3482.00	
Hydraulic Tool	5.00			3487.00	
Jars	5.00			3492.00	
Safety Joint	2.00			3494.00	
Packer	5.00			3499.00	27.00 Bottom Of Top Packer
Packer	5.00			3504.00	
Anchor	12.00			3516.00	
Recorder	1.00	6749	Inside	3517.00	
Recorder	1.00	6666	Outside	3518.00	
Bullnose	3.00			3521.00	17.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



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FLUID SUMMARY

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Anshutz "B"

Job Ticket: 18152

DST#: 2

Test Start: 2013.09.18 @ 20:27:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 6300.00 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
70.00	Muddy Water	0.982
0.00	Mud 25% Water 75%	0.000
0.00	Recov. Chlorides 62,000 ppm	0.000
0.00	Recov. Resist. .28 ohms @ 78 deg	0.000

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

