



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: 2013.09.20 @ 00:00:00

End Date:

Job Ticket #: 18155

DST #: 5

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

Printed: 2013.09.20 @ 19:11:49



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10/21S/14W/Stafford
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 Job Ticket: 18155 **DST#: 5**
 Test Start: 2013.09.20 @ 00:00:00

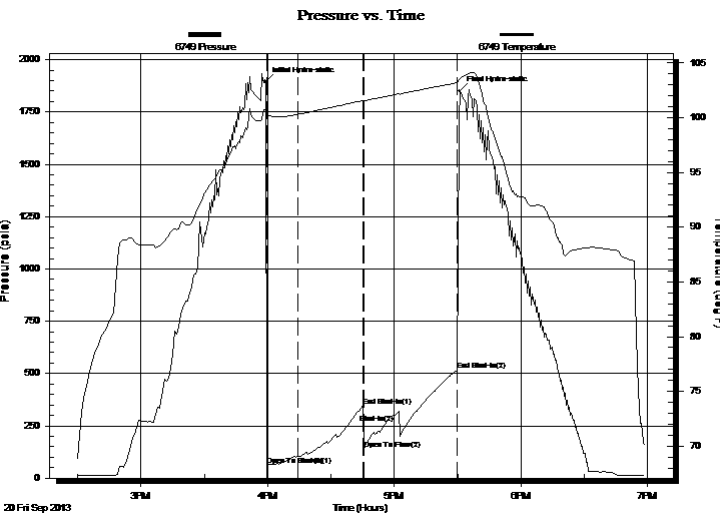
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
Interval: 3616.00 ft (KB) To 3684.00 ft (KB) (TVD)
 Total Depth: 3684.00 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: 515.25 psia @ 3680.42 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.20 End Date: 2013.09.20 Last Calib.: 2013.09.20
 Start Time: 14:29:00 End Time: 18:58:30 Time On Btm: 2013.09.20 @ 15:59:00
 Time Off Btm: 2013.09.20 @ 17:31:00

TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 1/8 inch
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Dead no blow
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1895.96	100.75	Initial Hydro-static
1	63.19	100.00	Open To Flow (1)
16	105.63	100.32	Shut-In(1)
47	346.02	101.57	End Shut-In(1)
47	139.25	101.53	Open To Flow (2)
61	305.91	102.11	Shut-In(2)
91	515.25	103.18	End Shut-In(2)
92	1851.23	103.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



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Job Ticket: 18155

DST#: 5

Test Start: 2013.09.20 @ 00:00:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Interval: **3616.00 ft (KB) To 3684.00 ft (KB) (TVD)**

Total Depth: 3684.00 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: 513.92 psia @ 3681.42 ft (KB)

Start Date: 2013.09.20

End Date: 2013.09.20

Start Time: 14:29:00

End Time: 18:58:00

Capacity: 5000.00 psia

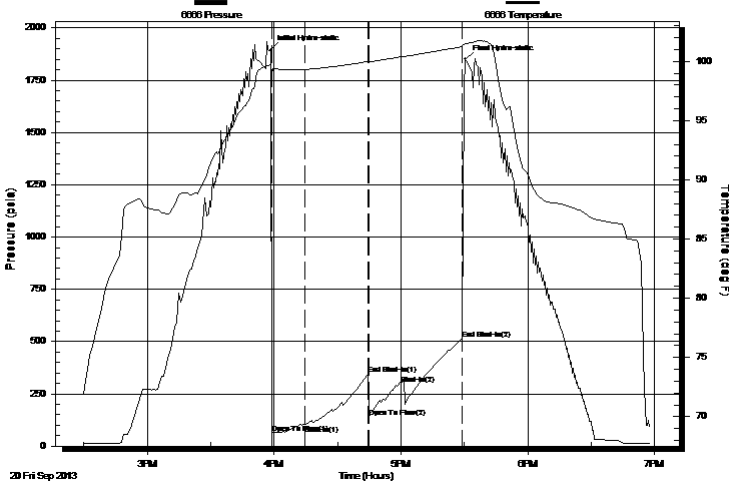
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TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 1/8 inch
1ST Shut In 30 Minutes/No blow back
2ND Open 15 Minutes/Dead no blow
2ND Shut In 30 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1895.57	99.71	Initial Hydro-static
1	62.81	98.94	Open To Flow (1)
16	101.92	99.32	Shut-In(1)
46	344.64	100.00	End Shut-In(1)
47	139.13	99.92	Open To Flow (2)
62	298.66	100.38	Shut-In(2)
91	513.92	101.23	End Shut-In(2)
92	1849.79	101.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



DRILL STEM TEST REPORT

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: 18155

DST#: 5

Test Start: 2013.09.20 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 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: 50.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3616.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.42 ft			
Tool Length:	95.42 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			3594.00	
Hydraulic Tool	5.00			3599.00	
Jars	5.00			3604.00	
Safety Joint	2.00			3606.00	
Packer	5.00			3611.00	27.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Perforations	5.00			3621.00	
Change Over Sub	0.75			3621.75	
Drill Pipe	31.92			3653.67	
Change Over Sub	0.75			3654.42	
Anchor	25.00			3679.42	
Recorder	1.00	6749	Inside	3680.42	
Recorder	1.00	6666	Outside	3681.42	
Bullnose	3.00			3684.42	68.42 Bottom Packers & Anchor

Total Tool Length: 95.42



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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: 68.00 sec/qt
Water Loss: 7.99 in³
Resistivity: ohm.m
Salinity: 6800.00 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
2.00	Mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

