



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: 2013.10.11 @ 23:38:00

End Date: 2013.10.12 @ 08:07:30

Job Ticket #: 18177 DST #: 6

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

Printed: 2013.10.12 @ 06:37:20



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 Test Start: 2013.10.11 @ 23:38:00

GENERAL INFORMATION:

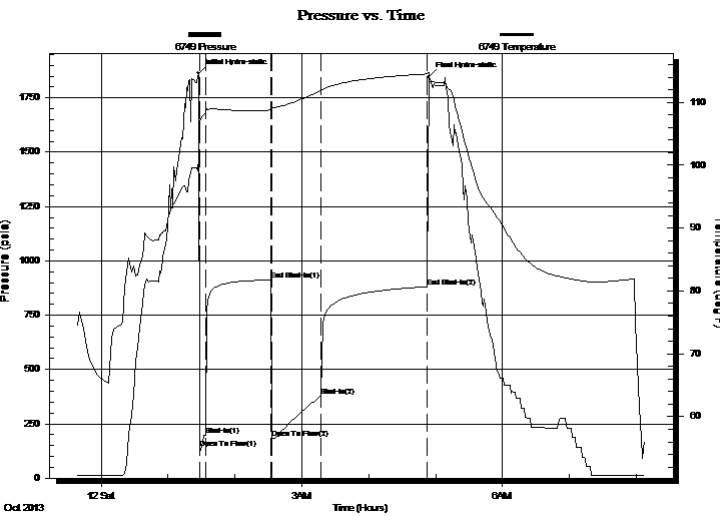
Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:28:30
 Time Test Ended: 08:07:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/36
 Interval: **3762.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Reference Elevations: 1946.00 ft (KB)
 Total Depth: 3790.00 ft (KB) (TVD) 1938.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 6749

Inside

Press @ RunDepth: 378.97 psia @ 3786.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.11 End Date: 2013.10.12 Last Calib.: 2013.10.12
 Start Time: 23:38:00 End Time: 08:07:30 Time On Btm: 2013.10.12 @ 01:27:30
 Time Off Btm: 2013.10.12 @ 04:54:00

TEST COMMENT: 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 3 minutes 15 seconds
 1ST Shut In 60 Minutes/Blow back built to 7 inches
 2ND Open 45 Minutes/Stong blow /Blow built to bottom of bucket in 3 minutes 30 seconds
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 40 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1863.37	101.00	Initial Hydro-static
1	138.65	106.89	Open To Flow (1)
6	195.84	108.44	Shut-In(1)
65	912.68	108.80	End Shut-In(1)
66	182.83	109.05	Open To Flow (2)
111	378.97	111.88	Shut-In(2)
205	880.86	114.54	End Shut-In(2)
207	1846.25	114.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	511 feet of gas in pipe	0.00
667.00	Clean Gassy Oil	9.36
0.00	Gas 20% Oil 80%	0.00
186.00	Muddy Oil	2.61
0.00	Mud 25% Oil 75%	0.00
0.00	Corrected Gravity Oil 32	0.00

Gas Rates

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



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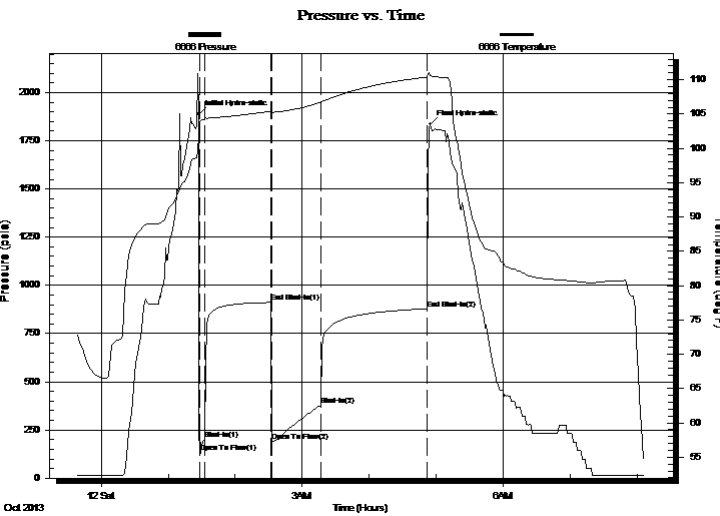
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:28:30 Tester: Ken Swinney
 Time Test Ended: 08:07:30 Unit No: 3325 Great Bend/36
Interval: 3762.00 ft (KB) To 3790.00 ft (KB) (TVD) Reference Elevations: 1946.00 ft (KB)
 Total Depth: 3790.00 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: 879.23 psia @ 3787.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.11 End Date: 2013.10.12 Last Calib.: 2013.10.12
 Start Time: 23:38:00 End Time: 08:07:00 Time On Btm: 2013.10.12 @ 01:27:00
 Time Off Btm: 2013.10.12 @ 04:54:30

TEST COMMENT: 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 3 minutes 15 seconds
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 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 40 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1887.24	101.64	Initial Hydro-static
1	132.29	103.51	Open To Flow (1)
6	200.31	104.21	Shut-In(1)
65	911.41	105.40	End Shut-In(1)
66	190.08	105.22	Open To Flow (2)
110	380.30	106.74	Shut-In(2)
205	879.23	110.39	End Shut-In(2)
208	1835.63	110.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	511 feet of gas in pipe	0.00
667.00	Clean Gassy Oil	9.36
0.00	Gas 20% Oil 80%	0.00
186.00	Muddy Oil	2.61
0.00	Mud 25% Oil 75%	0.00
0.00	Corrected Gravity Oil 32	0.00

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

10/22S/14W/Stafford

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Job Ticket: 18177

DST#: 6

Test Start: 2013.10.11 @ 23:38:00

Tool Information

Drill Pipe:	Length: 3755.00 ft	Diameter: 3.80 inches	Volume: 52.67 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: 70000.00 lb
			<u>Total Volume: 52.67 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3762.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			3740.00	
Hydraulic Tool	5.00			3745.00	
Jars	5.00			3750.00	
Safety Joint	2.00			3752.00	
Packer	5.00			3757.00	27.00 Bottom Of Top Packer
Packer	5.00			3762.00	
Anchor	23.00			3785.00	
Recorder	1.00	6749	Inside	3786.00	
Recorder	1.00	6666	Outside	3787.00	
Bullnose	3.00			3790.00	28.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



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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: 48.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 4700.00 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
0.00	511 feet of gas in pipe	0.000
667.00	Clean Gassy Oil	9.356
0.00	Gas 20% Oil 80%	0.000
186.00	Muddy Oil	2.609
0.00	Mud 25% Oil 75%	0.000
0.00	Corrected Gravity Oil 32	0.000

Total Length: 853.00 ft Total Volume: 11.965 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

