



DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Panning #2-13

13-20s-14w Barton

Start Date: 2012.06.17 @ 00:00:00

End Date: 2012.06.17 @ 00:00:00

Job Ticket #: 15874 DST #: 2

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

Printed: 2012.06.17 @ 14:02:40



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13-20s-14w Barton

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Panning #2-13

Job Ticket: 15874

DST#: 2

ATTN: Rene Husted

Test Start: 2012.06.17 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "E-F & G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig F & G"

Unit No: 3335

Interval: 3306.00 ft (KB) To 3348.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3348.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press @ Run Depth: 1135.28 psia @ 3345.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.17

End Date: 2012.06.17

Last Calib.: 2012.06.17

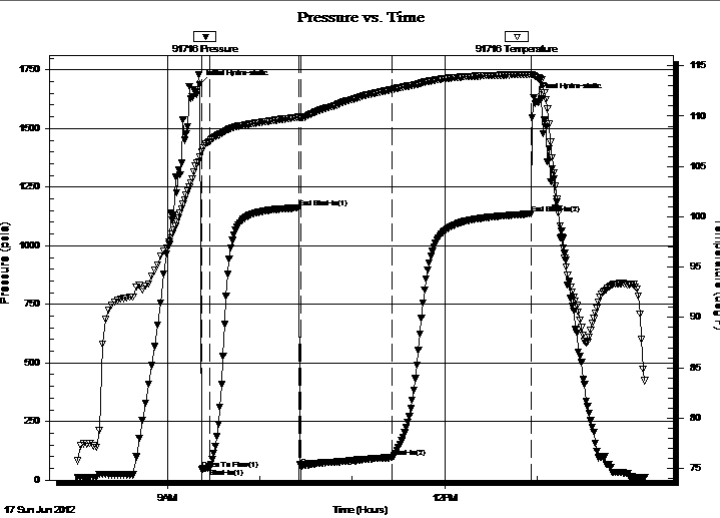
Start Time: 08:00:00

End Time: 14:10:00

Time On Btm: 2012.06.17 @ 09:21:00

Time Off Btm: 2012.06.17 @ 12:58:00

TEST COMMENT: 1st Opening 5 Minutes Fair blow built to 5 inches into the water
1st Shut-In 60 Minutes-No blow back
2nd Opening 60 Minutes Good blow built to the bottom of a 5 gallon bucket in 2 minutes
2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1687.51	105.93	Initial Hydro-static
1	47.07	106.48	Open To Flow (1)
6	51.98	107.48	Shut-In(1)
64	1161.53	109.91	End Shut-In(1)
66	60.02	109.88	Open To Flow (2)
125	96.71	112.66	Shut-In(2)
215	1135.28	114.14	End Shut-In(2)
217	1632.06	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	750 feet of gas in the pipe	0.00
130.00	oil and gas cut mud 20 oil %Gas 75%Mud	1.82
0.00	Poor grind out oil w as very low gravity	0.00

Gas Rates

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



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DST#: 2

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Test Start: 2012.06.17 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "E-F & G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig F & G"

Unit No: 3335

Interval: 3306.00 ft (KB) To 3348.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3348.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 93335 Inside

Press @ Run Depth: 1134.89 psia @ 3344.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.17

End Date: 2012.06.17

Last Calib.: 2012.06.17

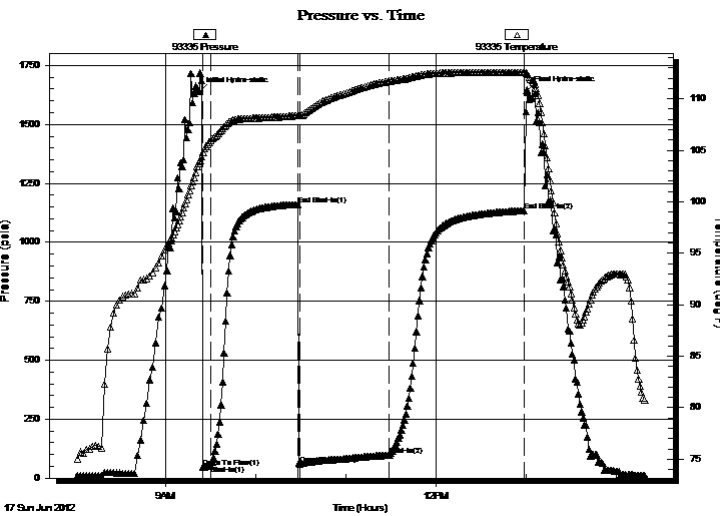
Start Time: 08:00:00

End Time: 14:19:00

Time On Btm: 2012.06.17 @ 09:22:30

Time Off Btm: 2012.06.17 @ 13:00:30

TEST COMMENT: 1st Opening 5 Minutes Fair blow built to 5 inches into the water
1st Shut-In 60 Minutes-No blow back
2nd Opening 60 Minutes Good blow built to the bottom of a 5 gallon bucket in 2 minutes
2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1638.76	103.87	Initial Hydro-static
3	46.94	104.82	Open To Flow (1)
8	53.25	105.98	Shut-In(1)
66	1161.05	108.38	End Shut-In(1)
67	60.04	108.34	Open To Flow (2)
127	97.87	111.70	Shut-In(2)
217	1134.89	112.56	End Shut-In(2)
218	1645.24	112.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	750 feet of gas in the pipe	0.00
130.00	oil and gas cut mud 20 oil %Gas 75%Mud	1.82
0.00	Poor grind out oil w as very low gravity	0.00

Gas Rates

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



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TOOL DIAGRAM

F.G.Holl Company L.L.C.

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Wichita, Kansas 67206-2563

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Test Start: 2012.06.17 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3289.00 ft	Diameter: 3.80 inches	Volume: 46.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 46.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3306.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			3283.00	
Hydraulic Tool	5.00			3288.00	
Jars	6.00			3294.00	
Safety Joint	2.00			3296.00	
Packer	5.00			3301.00	28.00 Bottom Of Top Packer
Packer	5.00			3306.00	
Perforations	37.00			3343.00	
Recorder	1.00	93335	Inside	3344.00	
Recorder	1.00	91716	Outside	3345.00	
Bull Plug	3.00			3348.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



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FLUID SUMMARY

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Test Start: 2012.06.17 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 22.19 in³
Resistivity: ohm.m
Salinity: 7300.00 ppm
Filter Cake: 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	750 feet of gas in the pipe	0.000
130.00	oil and gas cut mud 20 oil %Gas 75%Mud	1.824
0.00	Poor grind out oil w as very low gravity	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

