



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 #: 15875 DST #: 3

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

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ATTN: Rene Husted

Test Start: 2012.06.17 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

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

Unit No: 3335

Interval: 3366.00 ft (KB) To 3392.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3392.00 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 @ RunDepth: 40.90 psia @ 3388.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.18 End Date: 2012.06.18

Last Calib.: 2012.06.18

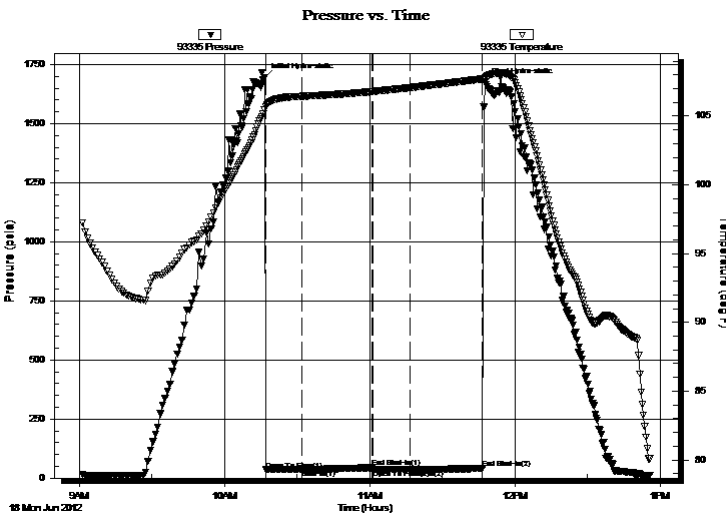
Start Time: 09:00:00 End Time: 12:55:30

Time On Btm: 2012.06.18 @ 10:16:30

Time Off Btm: 2012.06.18 @ 11:47:30

TEST COMMENT: 1st Opening 15 minutes weak blow for 3 minutes and died
1st Shut-In 30 Minutes- No blow back
2nd Opening 15 Minutes- No blow
2nd Shut-In 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1693.46	105.47	Initial Hydro-static
1	35.38	105.67	Open To Flow (1)
16	36.83	106.44	Shut-In(1)
45	43.93	106.79	End Shut-In(1)
45	36.79	106.80	Open To Flow (2)
60	36.87	107.07	Shut-In(2)
90	40.90	107.71	End Shut-In(2)
91	1672.63	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.03

Gas Rates

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



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DST#: 3

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Test Start: 2012.06.17 @ 00:00:00

GENERAL INFORMATION:

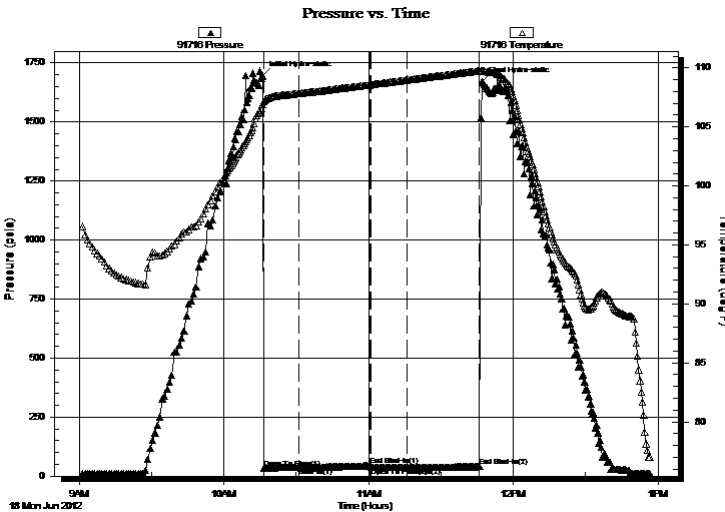
Formation: **Kansas City "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3366.00 ft (KB) To 3392.00 ft (KB) (TVD)**
 Total Depth: 3392.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 1895.00 ft (KB)
 1887.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press @ Run Depth: 40.38 psia @ 3389.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.06.18 End Date: 2012.06.18 Last Calib.: 2012.06.18
 Start Time: 09:00:00 End Time: 12:56:30 Time On Btm: 2012.06.18 @ 10:16:00
 Time Off Btm: 2012.06.18 @ 11:47:00

TEST COMMENT: 1st Opening 15 minutes weak blow for 3 minutes and died
 1st Shut-In 30 Minutes- No blow back
 2nd Opening 15 Minutes- No blow
 2nd Shut-In 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1694.80	106.91	Initial Hydro-static
1	35.39	107.14	Open To Flow (1)
15	36.48	107.83	Shut-In(1)
45	43.75	108.56	End Shut-In(1)
45	36.31	108.58	Open To Flow (2)
60	36.04	108.98	Shut-In(2)
90	40.38	109.76	End Shut-In(2)
91	1670.72	109.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.03

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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Test Start: 2012.06.17 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3352.00 ft	Diameter: 3.80 inches	Volume: 47.02 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 47.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3366.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 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			3343.00	
Hydraulic Tool	5.00			3348.00	
Jars	6.00			3354.00	
Safety Joint	2.00			3356.00	
Packer	5.00			3361.00	28.00 Bottom Of Top Packer
Packer	5.00			3366.00	
Perforations	21.00			3387.00	
Recorder	1.00	93335	Inside	3388.00	
Recorder	1.00	91716	Outside	3389.00	
Bull Plug	3.00			3392.00	26.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



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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: 47.00 sec/qt
Water Loss: 11.20 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
2.00	Drilling Mud	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

