



DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.22 @ 00:00:00

End Date: 2013.07.22 @ 00:00:00

Job Ticket #: 17749 DST #: 3

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

Printed: 2013.07.22 @ 19:34:08

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

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DST # 3

Kansas City "H & I"

2013.07.22



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Test Start: 2013.07.22 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H & I"**

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: 3365.00 ft (KB) To 3405.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663 Inside

Press@RunDepth: 833.06 psia @ 3401.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.22

End Date:

2013.07.22

Last Calib.:

2013.07.22

Start Time: 12:15:00

End Time:

19:18:00

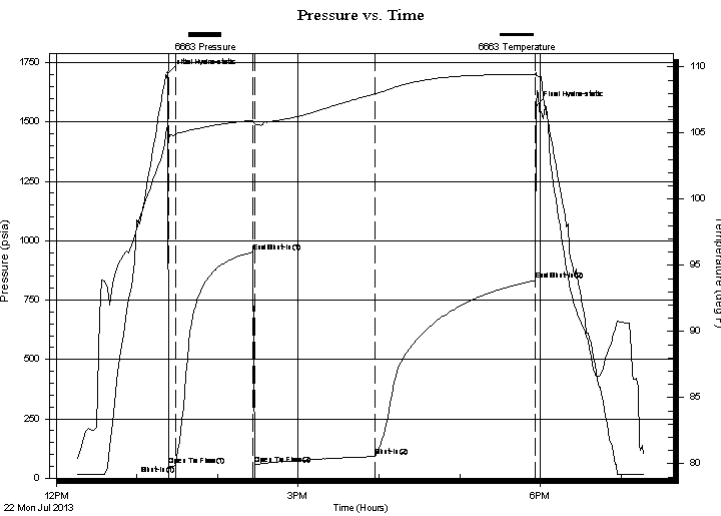
Time On Btm:

2013.07.22 @ 13:23:00

Time Off Btm:

2013.07.22 @ 17:57:00

TEST COMMENT: 1st Opening 5 Minutes Buit to the bottom of a 5 gallon bucket in 3 minutes
1st shut-In 60 Minutes-No blow back
2nd Opening 90 Minutes-Good blow built to the bottom of a 5 gallon bucket in 30 Seconds
2nd Shut-In 120 Minutes -Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1705.91	105.52	Initial Hydro-static
1	54.51	105.15	Open To Flow (1)
6	52.18	104.94	Shut-In(1)
64	952.36	105.98	End Shut-In(1)
65	59.61	105.73	Open To Flow (2)
154	91.00	107.96	Shut-In(2)
273	833.06	109.44	End Shut-In(2)
274	1568.50	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1250 Feet of Gas the pipe	0.00
100.00	Heavy oi and gas cut mud	1.40
0.00	25%Gas 45% Oil 30%Mud	0.00

Gas Rates

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



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TOOL DIAGRAM

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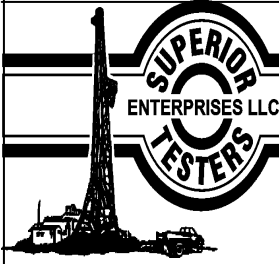
Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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:	58000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3365.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 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			3350.00	
Hydraulic Tool	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Anchor	35.00			3400.00	
Recorder	1.00	6663	Inside	3401.00	
Recorder	1.00	6748	Outside	3402.00	
Bullnose	3.00			3405.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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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: 55.00 sec/qt

Water Loss: 9.20 in³

Resistivity: ohm.m

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1250 Feet of Gas the pipe	0.000
100.00	Heavy oi and gas cut mud	1.403
0.00	25%Gas 45% Oil 30%Mud	0.000

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

