



## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**10-22s-14w Stafford**

**Kropp #1-10**

Start Date: 2011.03.30 @ 05:10:00

End Date: 2011.03.30 @ 00:00:00

Job Ticket #: 16038                      DST #: 3

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

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F.G.Holl Company L.L.C.      Kropp #1-1-10      10-22s-14w Stafford      DST # 3      Kansas City "I"      2011.03.30



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**10-22s-14w Stafford**  
 Job Ticket: 16038 **DST#: 3**  
 Test Start: 2011.03.30 @ 05:10:00

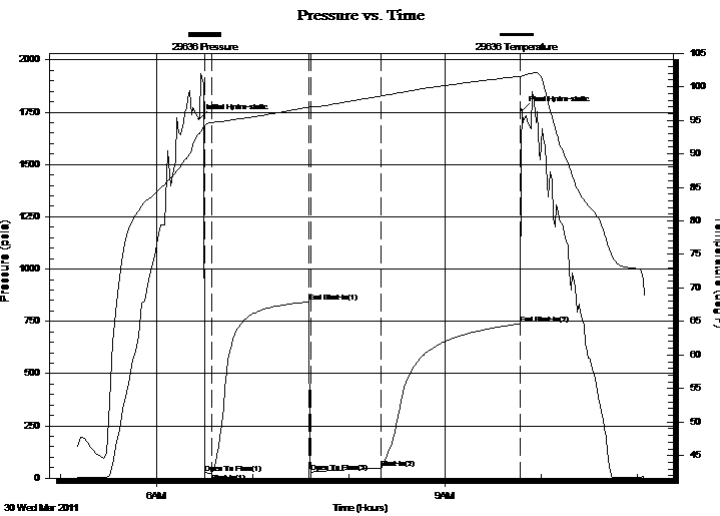
## GENERAL INFORMATION:

Formation: **Kanas City "I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**  
 Total Depth: 3600.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 423335-  
 Reference Elevations: 1943.00 ft (KB)  
 1935.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 29636 Outside

Press @ Run Depth: 738.18 psia @ 3597.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.03.30 End Date: 2011.03.30 Last Calib.: 2011.03.30  
 Start Time: 05:10:00 End Time: 11:05:00 Time On Btm: 2011.03.30 @ 06:26:30  
 Time Off Btm: 2011.03.30 @ 09:48:00

TEST COMMENT: 1st Opening 5 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 1/2 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Shut-In 45 nMinutes-Good blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.22	93.05	Initial Hydro-static
4	25.30	94.21	Open To Flow (1)
8	23.52	94.68	Shut-In(1)
69	842.76	96.96	End Shut-In(1)
70	27.43	96.99	Open To Flow (2)
114	48.66	98.61	Shut-In(2)
201	738.18	101.57	End Shut-In(2)
202	1758.78	101.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Gas in the pipe	16.83
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.63
20.00	Oil cut mud	0.28
0.00	50%MJud 40%Oil 10%Gas	0.00

## Gas Rates

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



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**10-22s-14w Stafford**

Job Ticket: 16038

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 05:10:00

## GENERAL INFORMATION:

Formation: **Kanas City "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: 423335-

**Interval: 3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 26180 Inside**

Press @ Run Depth: 749.04 psia @ 3596.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.30

End Date: 2011.03.30

Last Calib.: 2011.03.30

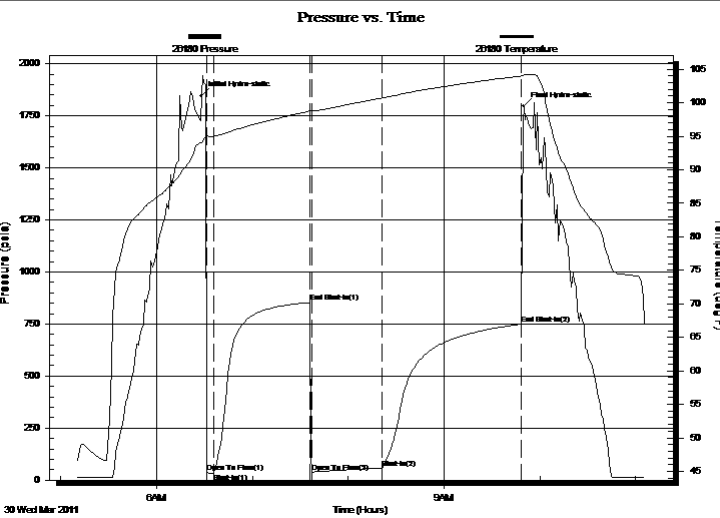
Start Time: 05:10:00

End Time: 11:06:30

Time On Btm: 2011.03.30 @ 06:28:00

Time Off Btm: 2011.03.30 @ 09:50:00

**TEST COMMENT:** 1st Opening 5 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 1/2 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Shut-In 45 nMinutes-Good blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1845.43	94.09	Initial Hydro-static
3	35.44	95.06	Open To Flow (1)
8	34.01	95.02	Shut-In(1)
68	853.48	98.78	End Shut-In(1)
69	37.27	98.79	Open To Flow (2)
113	58.37	100.71	Shut-In(2)
201	749.04	104.01	End Shut-In(2)
202	1796.84	104.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Gas in the pipe	16.83
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.63
20.00	Oil cut mud	0.28
0.00	50%MJud 40%Oil 10%Gas	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

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**10-22s-14w Stafford**

ATTN: Ryan Greenbaum

Job Ticket: 16038

**DST#: 3**

Test Start: 2011.03.30 @ 05:10:00

## Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 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: 52000.00 lb
			<u>Total Volume: 50.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3585.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3557.00	
Shut-In Tool	5.00			3562.00	
Hydroic Tool	5.00			3567.00	
Jars	6.00			3573.00	
Safety Joint	2.00			3575.00	
Packer	5.00			3580.00	29.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Perforations	10.00			3595.00	
Recorder	1.00	91716	Inside	3596.00	
Recorder	1.00	95172	Outside	3597.00	
Bullnose	3.00			3600.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 69.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5700.00 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
1200.00	Gas in the pipe	16.833
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.631
20.00	Oil cut mud	0.281
0.00	50%MJud 40%Oil 10%Gas	0.000

Total Length: 1265.00 ft      Total Volume: 17.745 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

