



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-11w Stafford

Kropp #1-10

Start Date: 2011.03.29 @ 11:45:00

End Date: 2011.03.29 @ 00:00:00

Job Ticket #: 16037 DST #: 2

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

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Kropp #1-10
10-22s-11w Stafford
 Job Ticket: 16037 **DST#: 2**
 Test Start: 2011.03.29 @ 11:45:00

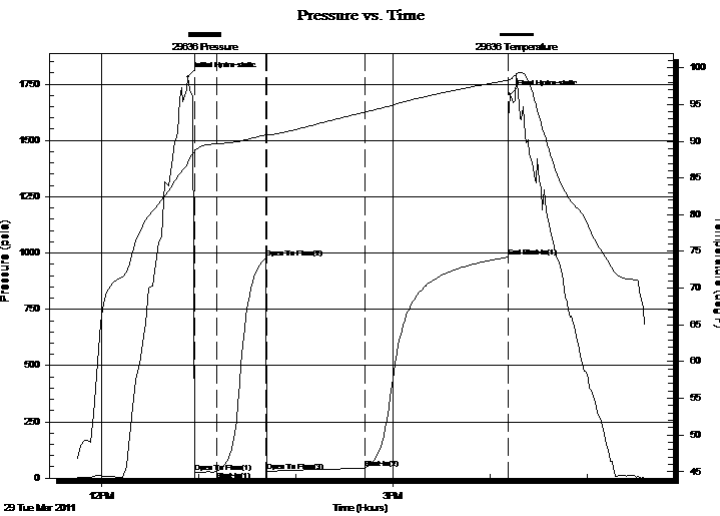
GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3503.00 ft (KB) To 3525.00 ft (KB) (TVD)**
 Total Depth: 3525.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ Run Depth: 981.34 psia @ 3522.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.29
 Start Time: 11:45:00 End Time: 17:36:00 Time On Btm: 2011.03.29 @ 12:53:30
 Time Off Btm: 2011.03.29 @ 16:12:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 60 Minutes-Weak building blow built to 7 1/2 inches into the water
 2nd Shut-In 90 Minutes -No blw back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1781.66 | 87.08 | Initial Hydro-static |
| 4 | 27.43 | 88.56 | Open To Flow (1) |
| 18 | 28.90 | 89.64 | Shut-In(1) |
| 49 | 977.98 | 90.85 | Open To Flow (2) |
| 49 | 29.65 | 90.88 | Open To Flow (3) |
| 109 | 43.81 | 93.94 | Shut-In(2) |
| 198 | 981.34 | 98.28 | End Shut-In(1) |
| 199 | 1705.09 | 98.41 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 120.00 | Gas in the pipe | 1.68 |
| 50.00 | Oil Cut Mud | 0.70 |
| 0.00 | 20% Oil 14% water 66% Mud | 0.00 |
| | | |
| | | |

Gas Rates

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



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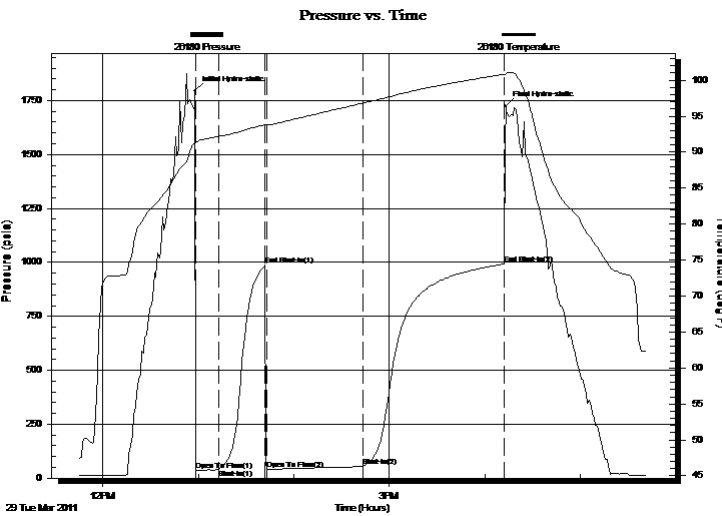
Kropp #1-10
10-22s-11w Stafford
 Job Ticket: 16037 **DST#: 2**
 Test Start: 2011.03.29 @ 11:45:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3503.00 ft (KB) To 3525.00 ft (KB) (TVD)**
 Total Depth: 3525.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 26180 Inside
 Press @ Run Depth: 992.40 psia @ 3521.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.29
 Start Time: 11:45:00 End Time: 17:41:30 Time On Btm: 2011.03.29 @ 12:58:00
 Time Off Btm: 2011.03.29 @ 16:13:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 60 Minutes-Weak building blow built to 7 1/2 inches into the water
 2nd Shut-In 90 Minutes -No blw back



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1794.39 | 91.32 | Initial Hydro-static |
| 1 | 34.97 | 91.38 | Open To Flow (1) |
| 15 | 40.34 | 92.16 | Shut-In(1) |
| 44 | 987.14 | 93.83 | End Shut-In(1) |
| 45 | 39.28 | 93.85 | Open To Flow (2) |
| 106 | 53.18 | 96.82 | Shut-In(2) |
| 194 | 992.40 | 100.83 | End Shut-In(2) |
| 195 | 1724.91 | 100.89 | Final Hydro-static |

| Recovery | | |
|-------------|---------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 120.00 | Gas in the pipe | 1.68 |
| 50.00 | Oil Cut Mud | 0.70 |
| 0.00 | 20% Oil 14% water 66% Mud | 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.

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

Job Ticket: 16037

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2011.03.29 @ 11:45:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3502.00 ft | Diameter: 3.80 inches | Volume: 49.12 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: 49.12 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 44000.00 lb |
| Depth to Top Packer: | 3503.00 ft | | | Final 44000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 22.00 ft | | | |
| Tool Length: | 51.00 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 | | | 3475.00 | |
| Shut-In Tool | 5.00 | | | 3480.00 | |
| Hydroic Tool | 5.00 | | | 3485.00 | |
| Jars | 6.00 | | | 3491.00 | |
| Safety Joint | 2.00 | | | 3493.00 | |
| Packer | 5.00 | | | 3498.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3503.00 | |
| Perforations | 17.00 | | | 3520.00 | |
| Recorder | 1.00 | 91716 | Inside | 3521.00 | |
| Recorder | 1.00 | 95172 | Outside | 3522.00 | |
| Bullnose | 3.00 | | | 3525.00 | 22.00 Bottom Packers & Anchor |

Total Tool Length: 51.00



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FLUID SUMMARY

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Test Start: 2011.03.29 @ 11:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5900.00 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 |
|--------------|---------------------------|---------------|
| 120.00 | Gas in the pipe | 1.683 |
| 50.00 | Oil Cut Mud | 0.701 |
| 0.00 | 20% Oil 14% water 66% Mud | 0.000 |

Total Length: 170.00 ft Total Volume: 2.384 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

