



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

Krupp #1-10

Start Date: 2011.04.02 @ 10:25:00

End Date: 2011.04.02 @ 00:00:00

Job Ticket #: 16043 DST #: 8

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

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Krupp #1-10

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Test Start: 2011.04.02 @ 10:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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: 3335-42

Interval: 3796.00 ft (KB) To 3803.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3803.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ RunDepth: 1268.78 psia @ 3800.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.02

End Date: 2011.04.02

Last Calib.: 2011.04.02

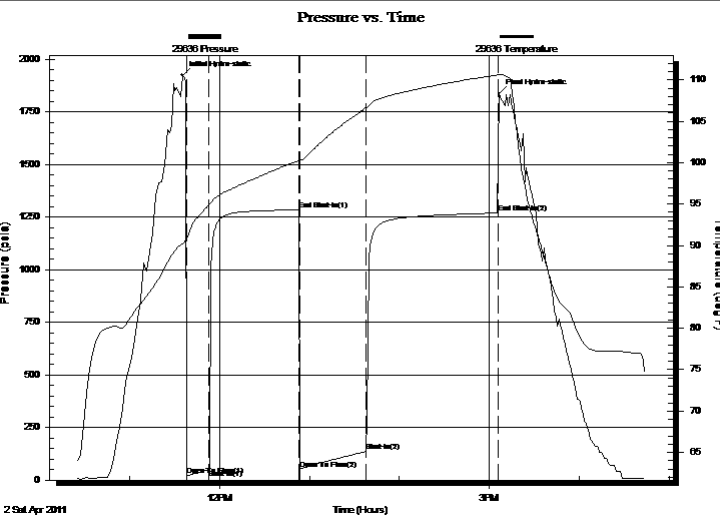
Start Time: 10:25:00

End Time: 16:44:00

Time On Btm: 2011.04.02 @ 11:35:30

Time Off Btm: 2011.04.02 @ 15:06:30

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to 11 1/2 inch into the water
1st Shut-In 60 Minutes-Weak steady blow back
2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 18 minutes
2nd Shut-In 90 Minutes-Weak steady blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1923.16 | 90.23 | Initial Hydro-static |
| 3 | 20.47 | 90.82 | Open To Flow (1) |
| 18 | 49.65 | 94.92 | Shut-In(1) |
| 78 | 1284.07 | 100.27 | End Shut-In(1) |
| 78 | 53.86 | 100.30 | Open To Flow (2) |
| 123 | 135.63 | 106.65 | Shut-In(2) |
| 210 | 1268.78 | 110.59 | End Shut-In(2) |
| 211 | 1836.26 | 110.63 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 120.00 | Gas in the pipe | 1.68 |
| 375.00 | Clean gassy oil 40%Gas 60%Oil | 5.26 |
| 0.00 | Gravity 31 Corrected | 0.00 |
| | | |
| | | |

Gas Rates

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



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TOOL DIAGRAM

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Job Ticket: 16043

DST#: 8

Test Start: 2011.04.02 @ 10:25:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3787.00 ft | Diameter: 3.80 inches | Volume: 53.12 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.76 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: | 60000.00 lb |
| | | | <u>Total Volume: 53.12 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial | 50000.00 lb |
| Depth to Top Packer: | 3796.00 ft | | | Final | 52000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 7.00 ft | | | | |
| Tool Length: | 36.00 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 | | | 3768.00 | |
| Shut-In Tool | 5.00 | | | 3773.00 | |
| Hydroic Tool | 5.00 | | | 3778.00 | |
| Jars | 6.00 | | | 3784.00 | |
| Safety Joint | 2.00 | | | 3786.00 | |
| Packer | 5.00 | | | 3791.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3796.00 | |
| Perforations | 2.00 | | | 3798.00 | |
| Recorder | 1.00 | 91716 | Inside | 3799.00 | |
| Recorder | 1.00 | 95172 | Outside | 3800.00 | |
| Bullnose | 3.00 | | | 3803.00 | 7.00 Bottom Packers & Anchor |

Total Tool Length: 36.00



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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: 50.00 sec/qt
Water Loss: 10.20 in³
Resistivity: ohm.m
Salinity: 4300.00 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 |
| 375.00 | Clean gassy oil 40%Gas 60%Oil | 5.260 |
| 0.00 | Gravity 31 Corrected | 0.000 |

Total Length: 495.00 ft Total Volume: 6.943 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

