



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

Nicholson/Schmidt Un

28-20s-15w

Start Date: 2012.10.06 @ 00:00:00

End Date: 2012.10.06 @ 00:00:00

Job Ticket #: 17760 DST #: 3

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

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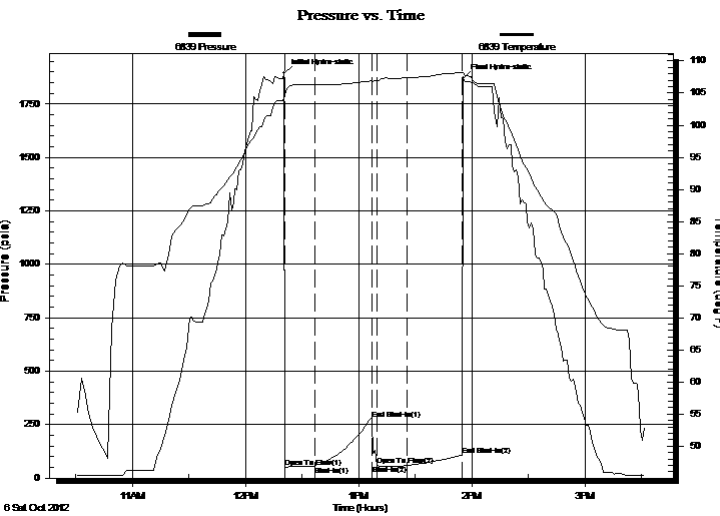
Test Start: 2012.10.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerater**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3817.00 ft (KB) To 3860.00 ft (KB) (TVD)**
 Total Depth: 3860.00 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: 2032.00 ft (KB)
 2024.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839 Outside
 Press @ RunDepth: 106.66 psia @ 3857.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.06 End Date: 2012.10.06 Last Calib.: 2012.10.06
 Start Time: 10:30:00 End Time: 15:31:30 Time On Btm: 2012.10.06 @ 12:20:30
 Time Off Btm: 2012.10.06 @ 13:55:30

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow for 12 minutes
 1sckt Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes- No blow b



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1894.56 | 104.15 | Initial Hydro-static |
| 1 | 51.66 | 104.47 | Open To Flow (1) |
| 17 | 57.34 | 106.25 | Shut-In(1) |
| 47 | 277.17 | 106.88 | End Shut-In(1) |
| 49 | 58.84 | 106.94 | Open To Flow (2) |
| 65 | 58.93 | 107.36 | Shut-In(2) |
| 94 | 106.66 | 108.22 | End Shut-In(2) |
| 95 | 1870.02 | 108.14 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 40.00 | Drilling Mud | 0.56 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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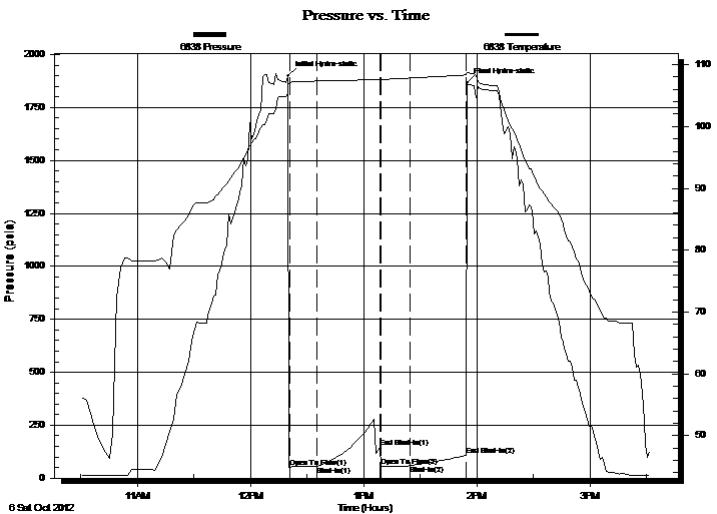
Serial #: 6838

Inside

Press @ Run Depth: 107.84 psia @ 3856.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.06 End Date: 2012.10.06 Last Calib.: 2012.10.06
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PRESSURE SUMMARY



| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1898.32 | 106.86 | Initial Hydro-static |
| 1 | 51.76 | 106.96 | Open To Flow (1) |
| 15 | 54.57 | 107.35 | Shut-In(1) |
| 49 | 143.36 | 107.64 | End Shut-In(1) |
| 49 | 55.83 | 107.63 | Open To Flow (2) |
| 65 | 58.85 | 107.83 | Shut-In(2) |
| 94 | 107.84 | 108.35 | End Shut-In(2) |
| 95 | 1865.88 | 108.69 | Final Hydro-static |

Recovery

Gas Rates

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 40.00 | Drilling Mud | 0.56 |
| | | |
| | | |
| | | |

| | 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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Nicholson/Schmidt Un

Job Ticket: 17760

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.10.06 @ 00:00:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3816.00 ft | Diameter: 3.80 inches | Volume: 53.53 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: 55000.00 lb |
| | | | <u>Total Volume: 53.53 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 44000.00 lb |
| Depth to Top Packer: | 3817.00 ft | | | Final 44000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 43.00 ft | | | |
| Tool Length: | 72.00 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 | | | 3789.00 | |
| Shut-In Tool | 5.00 | | | 3794.00 | |
| Hydroic Tool | 5.00 | | | 3799.00 | |
| Jars | 6.00 | | | 3805.00 | |
| Safety Joint | 2.00 | | | 3807.00 | |
| Packer | 5.00 | | | 3812.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3817.00 | |
| Perforations | 38.00 | | | 3855.00 | |
| Recorder | 1.00 | 6838 | Inside | 3856.00 | |
| Recorder | 1.00 | 6839 | Outside | 3857.00 | |
| Bullnose | 3.00 | | | 3860.00 | 43.00 Bottom Packers & Anchor |

Total Tool Length: 72.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 40.00 | Drilling Mud | 0.561 |

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

