



## DRILL STEM TEST REPORT

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

9431 east Central Suite 100  
Wichita, Kansas 67206

ATTN: Rene Husted

### **Button "A" Unit #1-24**

#### **29-19s-15w Barton**

Start Date: 2012.09.07 @ 00:00:00

End Date: 2012.09.07 @ 00:00:00

Job Ticket #: 17796                      DST #: 7

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

Printed: 2012.09.07 @ 16:47:00



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Job Ticket: 17796

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Test Start: 2012.09.07 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Real-Time)

Tester: Gene Budig

Unit No: 3335

**Interval: 3446.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6839 Outside**

Press @ RunDepth: 835.87 psia @ 3487.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.07

End Date: 2012.09.07

Last Calib.: 2012.09.07

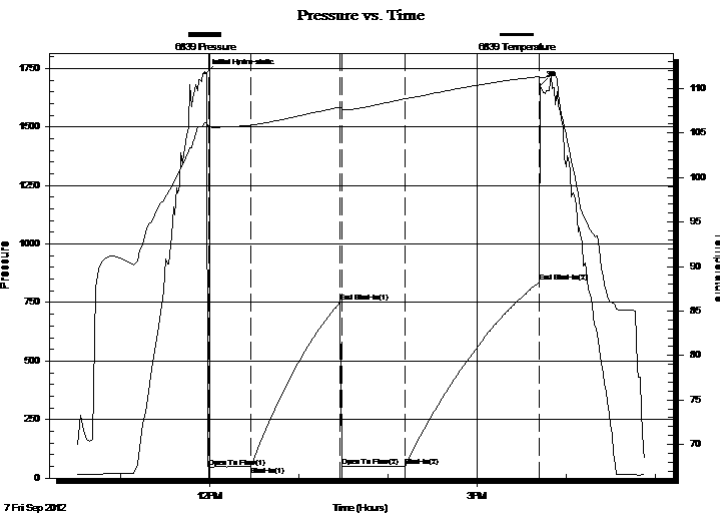
Start Time: 10:30:00

End Time: 16:52:30

Time On Btm: 2012.09.07 @ 11:57:00

Time Off Btm:

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 22 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Openin 45 Minutes-Strong blow bottom of the bucket immediatly and decreased  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1728.43         | 106.20       | Initial Hydro-static |
| 2           | 46.20           | 105.71       | Open To Flow (1)     |
| 31          | 48.52           | 105.91       | Shut-In(1)           |
| 91          | 750.92          | 107.91       | End Shut-In(1)       |
| 92          | 48.60           | 107.78       | Open To Flow (2)     |
| 135         | 50.96           | 108.85       | Shut-In(2)           |
| 225         | 835.87          | 111.36       | End Shut-In(2)       |
| 226         | 1677.01         | 111.19       | 30                   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 30.00       | Drilling mud | 0.42         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

## Gas Rates

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



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Time Test Ended: 00:00:00

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Tester: Gene Budig

Unit No: 3335

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Reference Elevations: 1915.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6838 Inside**

Press @ RunDepth: 835.03 psia @ 3486.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.07 End Date: 2012.09.07

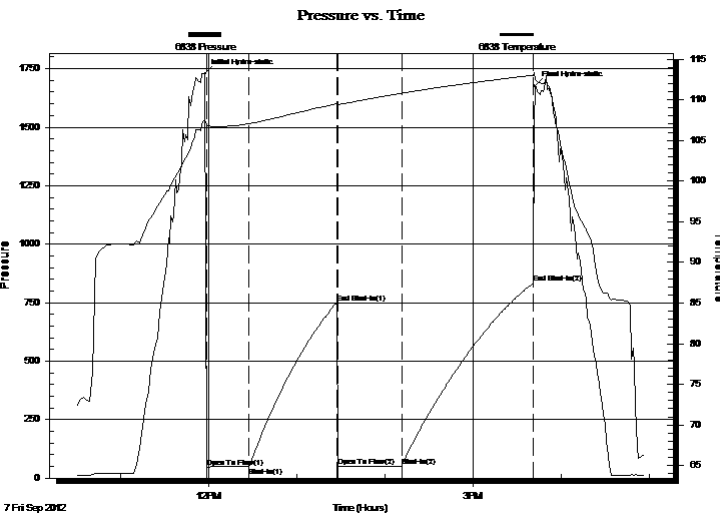
Last Calib.: 2012.09.07

Start Time: 10:30:00 End Time: 16:57:00

Time On Btm: 2012.09.07 @ 11:57:30

Time Off Btm: 2012.09.07 @ 15:42:00

**TEST COMMENT:** 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 22 minutes  
1st Shut-In 60 Minutes-No blow back  
2nd Openin 45 Minutes-Strong blow bottom of the bucket immediatly and decreased  
2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1728.83         | 107.55       | Initial Hydro-static |
| 2           | 46.80           | 106.84       | Open To Flow (1)     |
| 30          | 48.45           | 107.06       | Shut-In(1)           |
| 90          | 750.70          | 109.54       | End Shut-In(1)       |
| 91          | 48.92           | 109.43       | Open To Flow (2)     |
| 134         | 51.27           | 110.81       | Shut-In(2)           |
| 224         | 835.03          | 113.03       | End Shut-In(2)       |
| 225         | 1677.08         | 112.47       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 30.00       | Drilling mud | 0.42         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

## Gas Rates

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



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**TOOL DIAGRAM**

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

**29-19s-15w Barton**

9431 east Central Suite 100  
Wichita, Kansas 67206

**Button "A" Unit #1-24**

Job Ticket: 17796

**DST#: 7**

ATTN: Rene Husted

Test Start: 2012.09.07 @ 00:00:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3440.00 ft | Diameter: 3.80 inches | Volume: 48.25 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: 62000.00 lb  |
|                           |                    |                       | <u>Total Volume: 48.25 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 38000.00 lb |
| Depth to Top Packer:      | 3446.00 ft         |                       |                                | Final 42000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 44.00 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                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut-In Tool              | 5.00         |            |          | 3423.00    |                               |
| Hydraulic Tool            | 5.00         |            |          | 3428.00    |                               |
| Jars                      | 6.00         |            |          | 3434.00    |                               |
| Safety Joint              | 2.00         |            |          | 3436.00    |                               |
| Packer                    | 5.00         |            |          | 3441.00    | 28.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3446.00    |                               |
| Perforations              | 39.00        |            |          | 3485.00    |                               |
| Recorder                  | 1.00         | 6838       | Inside   | 3486.00    |                               |
| Recorder                  | 1.00         | 6839       | Outside  | 3487.00    |                               |
| Bull Plug                 | 3.00         |            |          | 3490.00    | 44.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>72.00</b> |            |          |            |                               |



# 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: 46.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5600.00 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<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 30.00        | Drilling mud | 0.421         |

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

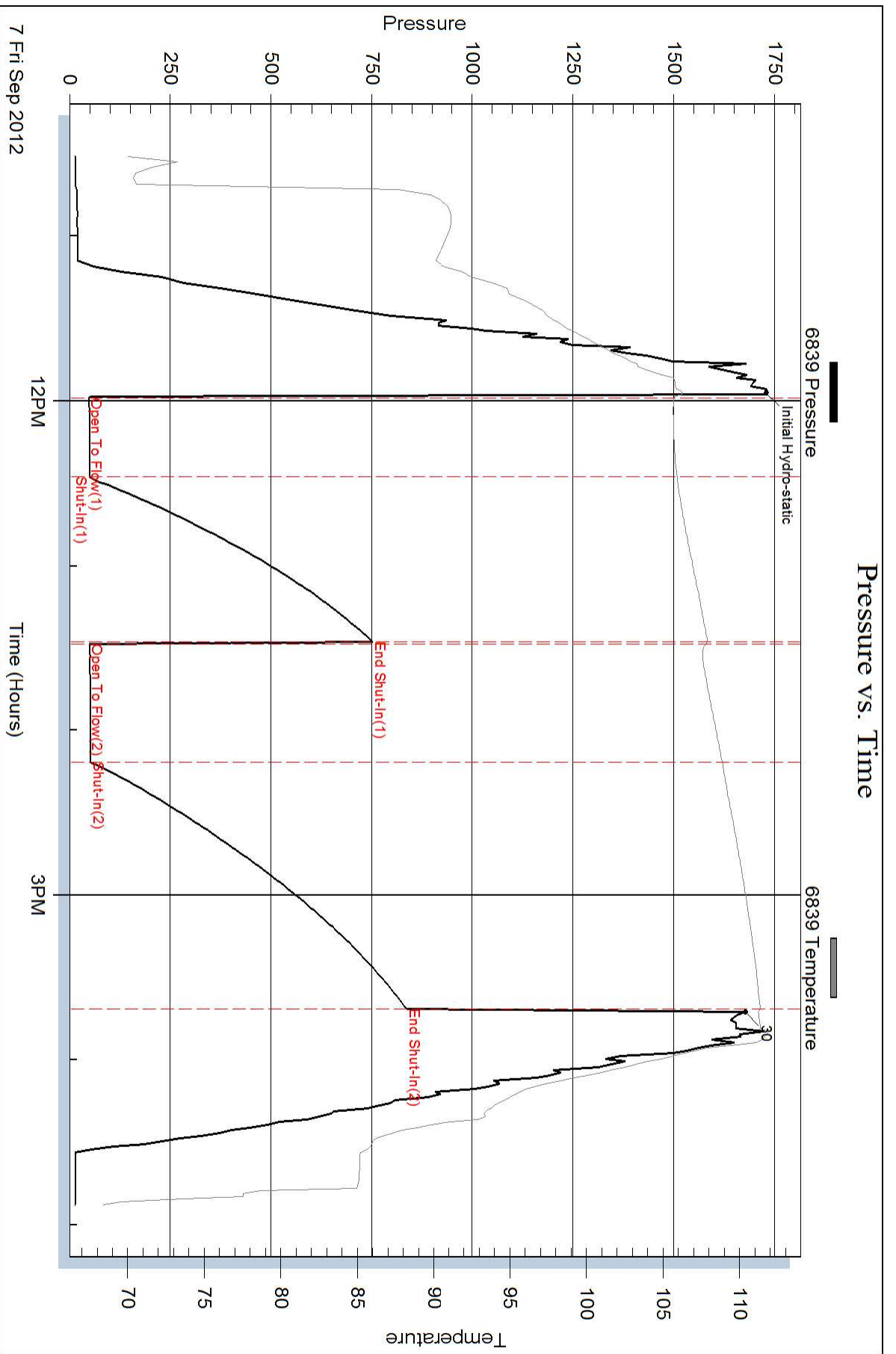
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

