



**DRILL STEM TEST REPORT**

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.02 @ 02:00:00

End Date: 2008.09.02 @ 08:30:00

Job Ticket #: 16706 DST #: 1

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

35-19s-14w

15-009-25254

IND

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16706

DST#: 1

ATTN: FRANK GREENBAUM

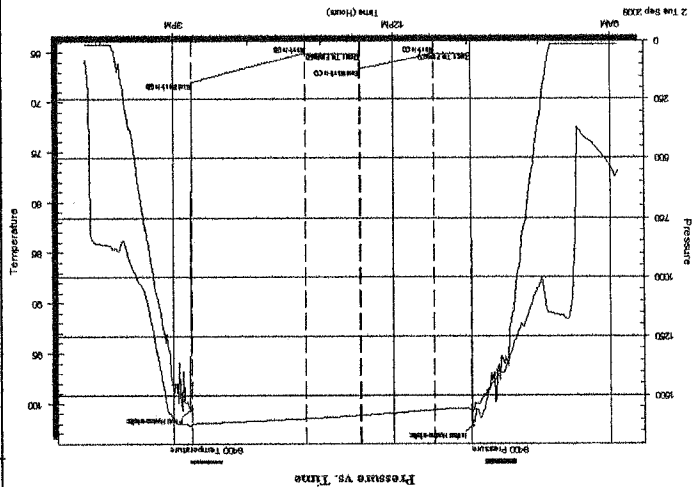
Test Start: 2008.09.02 @ 02:00:00

## GENERAL INFORMATION:

Formation: LANSING-A-B  
 Deviated: No  
 Whipstock: No  
 Interval: 3190.00 ft (KB) To 3240.00 ft (KB) (TVD)  
 Total Depth: 3240.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches-Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: RANDY WILLIAMS  
 Unit No: 3325/ 2 MILES FROM G  
 Reference Elevations: 1879.00 ft (KB)  
 1871.00 ft (CF)  
 8.00 ft  
 KB to GRCF:

Serial #: 8400  
 Press@RunDepth: 56.84 psia @  
 Start Date: 2008.09.02  
 End Date: 2008.09.02  
 Start Time: 08:54:01  
 End Time: 16:14:01  
 Capacity: 5000.00 psia  
 Last Calib.: 1899.12.30  
 Time On Blm: 2008.09.02 @ 10:55:31  
 Time Off Blm: 2008.09.02 @ 14:47:31

TEST COMMENT: 30-INITIAL FLOW-BUILDING BLOW BUILT TO 10 INCHS INTO BUCKET OF WATER  
 60-BLOW BACK: NO  
 45-FINAL FLOW-BUILDING BLOW BUILT TO 5 INCHS  
 90-BLOW BACK: NO



## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 20.00       | MUD 100%    | 0.28         |

## Gas Rates

| Choke (inches) | Pressure (psia) | Gas Rate (Mcfd) |
|----------------|-----------------|-----------------|
|----------------|-----------------|-----------------|

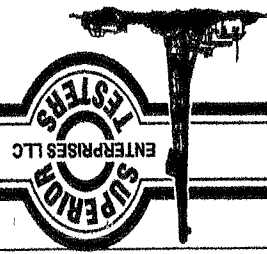
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1626.75         | 100.92       | Initial Hydro-static |
| 1           | 53.68           | 100.60       | Open To Flow (1)     |
| 31          | 56.77           | 100.62       | Shut-in(1)           |
| 92          | 118.92          | 101.18       | End Shut-in(1)       |
| 93          | 51.51           | 101.17       | Open To Flow (2)     |
| 137         | 56.84           | 101.48       | Shut-in(2)           |
| 230         | 177.45          | 101.98       | End Shut-in(2)       |
| 232         | 1561.07         | 102.15       | Final Hydro-static   |

## PRESSURE SUMMARY

**TOOL DIAGRAM**

**DRILL STEM TEST REPORT**

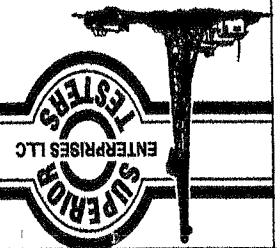
**HISS #1-35**  
**35-19S-14W BARTON**  
 Job Ticket: 16706  
 DST#: 1  
 Test Start: 2008.09.02 @ 02:00:00  
 F.G. HOLL COMPANY L.L.C.  
 9431 E CENTRAL STE 100  
 WICHITA KS 67206  
 ATTN: FRANK GREENBAUM



| Tool Information                   |                    |                         |                   |  |  |
|------------------------------------|--------------------|-------------------------|-------------------|--|--|
| Drill Pipe:                        | Length: 3191.00 ft | Diameter: 3.80 inches   | Volume: 44.76 bbl |  |  |
| Heavy Wt. Pipe:                    | Length: 0.00 ft    | Diameter: 0.00 inches   | Volume: 0.00 bbl  |  |  |
| Drill Collar:                      | Length: 0.00 ft    | Diameter: 2.25 inches   | Volume: 0.00 bbl  |  |  |
| Tool Chased                        |                    |                         |                   |  |  |
| Weight set on Packer: 20000.00 lb  |                    |                         |                   |  |  |
| Weight to Full Loose: 62000.00 lb  |                    |                         |                   |  |  |
| String Weight: Initial 45000.00 lb |                    |                         |                   |  |  |
| Final 46000.00 lb                  |                    |                         |                   |  |  |
| Drill Pipe Above KB:               | 23.00 ft           | Total Volume: 44.76 bbl |                   |  |  |
| Depth to Top Packer:               | 3190.00 ft         |                         |                   |  |  |
| Depth to Bottom Packer:            | ft                 |                         |                   |  |  |
| Interval between Packers:          | 49.62 ft           |                         |                   |  |  |
| Tool Length:                       | 71.62 ft           |                         |                   |  |  |
| Number of Packers:                 | 2                  | Diameter: 6.75 inches   |                   |  |  |
| Tool Comments:                     |                    |                         |                   |  |  |
| Tool Description                   |                    |                         |                   |  |  |
| Tool Description                   | Length (ft)        | Serial No.              | Position          |  |  |
| Accum. Lengths                     |                    |                         |                   |  |  |
| S.I. Tool                          | 5.00               | 3173.00                 |                   |  |  |
| Hydraulic Tool                     | 5.00               | 3178.00                 |                   |  |  |
| Safety Joint                       | 2.00               | 3180.00                 |                   |  |  |
| Packer                             | 5.00               | 3185.00                 |                   |  |  |
| Packer                             | 5.00               | 3190.00                 |                   |  |  |
| Perforations                       | 5.00               | 3195.00                 |                   |  |  |
| C.O. Sub                           | 0.75               | 3195.75                 |                   |  |  |
| Drill Pipe                         | 32.12              | 3227.87                 |                   |  |  |
| C.O. Sub                           | 0.75               | 3228.62                 |                   |  |  |
| Perforations                       | 6.00               | 3234.62                 |                   |  |  |
| Bullnose                           | 5.00               | 3239.62                 |                   |  |  |
| Total Tool Length: 71.62           |                    |                         |                   |  |  |
| Bottom Packers & Anchor            |                    |                         |                   |  |  |
| 49.62                              |                    |                         |                   |  |  |

# FLUID SUMMARY

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16706

DST#:1

Test Start: 2008.09.02 @ 02:00:00

ATTN: FRANK GREENBAUM

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 53.00 sec/qt  
 Water Loss: 8.38 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 4000.00 ppm  
 Filter Cake: inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type: psia  
 Gas Cushion Pressure: deg API  
 Water Salinity: ppm

### Recovery Information

#### Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 20.00        | MUD 100%    | 0.281         |

Total Length: 20.00 ft  
 Total Volume: 0.281 bbl

Num Fluid Samples: 1  
 Num Gas Bombs: 0  
 Laboratory Name:  
 Laboratory Location:  
 Serial #:

Recovery Comments:

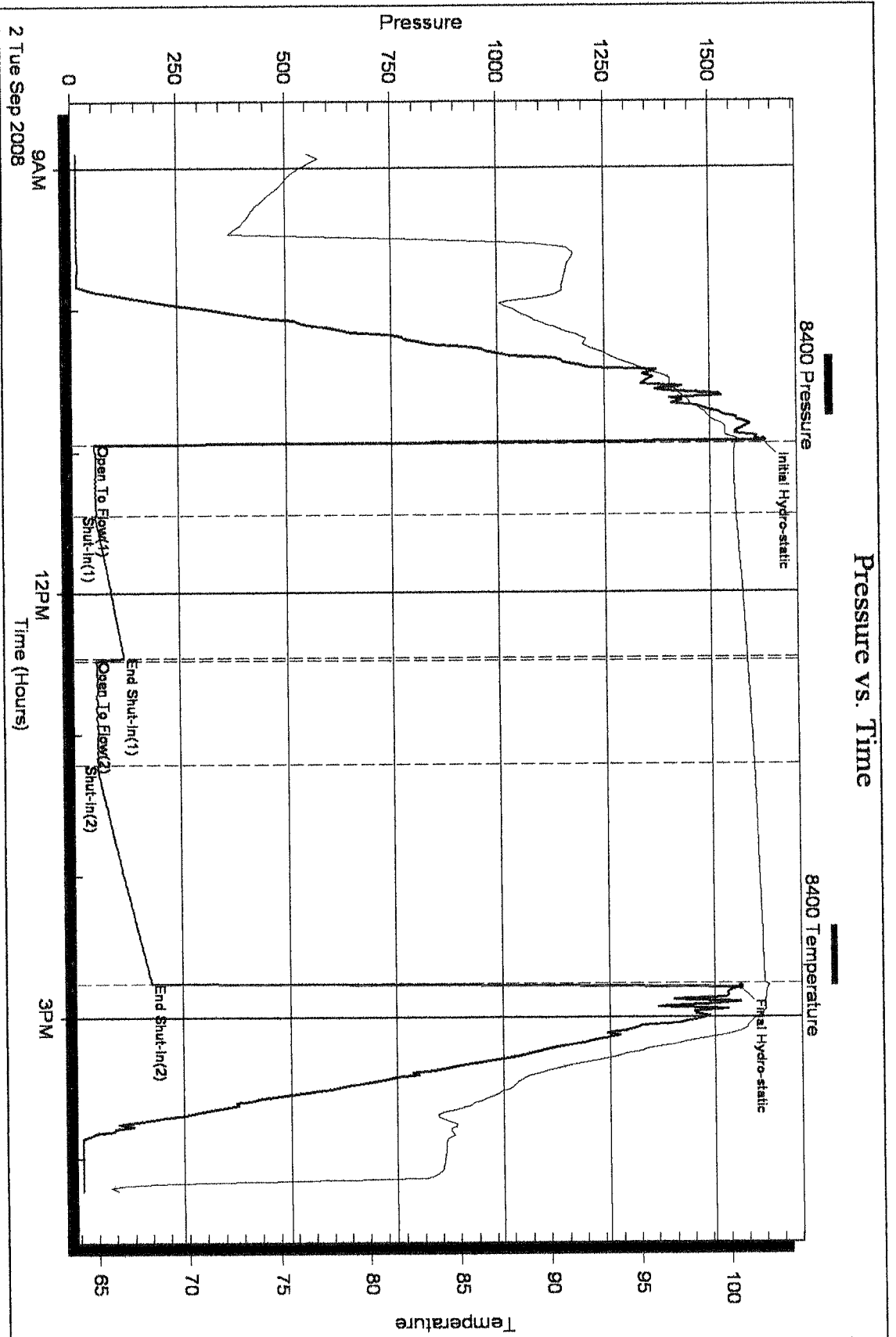
Serial #: 8400

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 1

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.02 @ 20:00:00

End Date: 2008.09.03 @ 12:20:00

Job Ticket #: 16707  
DST #: 2

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



# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16707

DST#:2

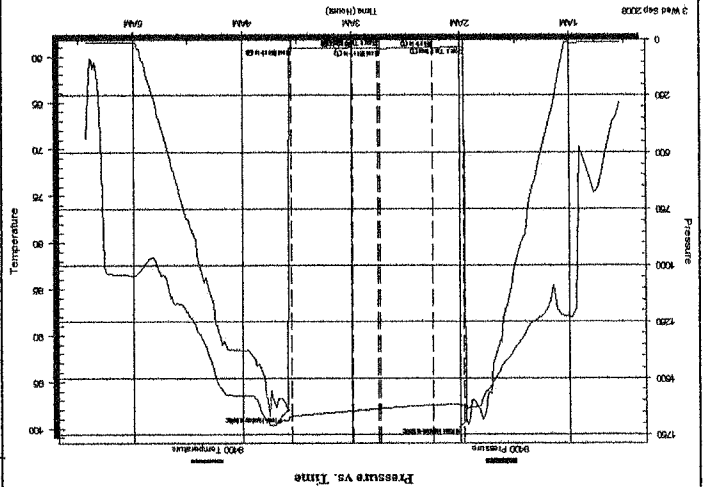
Test Start: 2008.09.02 @ 20:00:00

## GENERAL INFORMATION:

Formation: LANSING - H  
Deviated: No Whipstock:  
Time Tool Opened: 21:00:00  
Time Test Ended: 12:20:00  
Interval: 3320.00 ft (KB) To 3342.00 ft (KB) (TVD)  
Total Depth: 3342.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inchesHole Condition: Fair  
KB to GR/CF: 8.00 ft  
Reference Elevations: 1879.00 ft (KB)  
1871.00 ft (CF)  
Test Type: Conventional Bottom Hole  
Tester: RANDY WILLIAMS  
Unit No: 3325 / 2 MILES GB

Serial #: 8400  
Press@RunDepth: 35.11 psia @  
ft (KB)  
Start Date: 2008.09.03  
End Date: 2008.09.03  
Start Time: 00:32:34  
End Time: 05:26:34  
Capacity: 5000.00 psia  
Last Calib.: 1899.12.30  
Time On Blm: 2008.09.03 @ 01:57:04  
Time Off Blm: 2008.09.03 @ 03:35:04

TEST COMMENT: 15-INITAL FLOW-WEAK BLOW DIED IN 12 MINS INTO WATER  
30-BLOW BACK-NO  
15-FINAL FLOW-NO BLOW INTO WATER  
30-BLOW BACK-NO



| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1686.08         | 97.86        | Initial Hydro-static |
| 2           | 34.19           | 97.52        | Open To Flow (1)     |
| 18          | 34.92           | 97.48        | Shut-in(1)           |
| 47          | 39.79           | 97.85        | End Shut-in(1)       |
| 48          | 34.52           | 97.86        | Open To Flow (2)     |
| 62          | 35.11           | 98.09        | Shut-in(2)           |
| 96          | 38.20           | 98.65        | End Shut-in(2)       |
| 98          | 1639.18         | 99.15        | Final Hydro-static   |

## PRESSURE SUMMARY

## Recovery

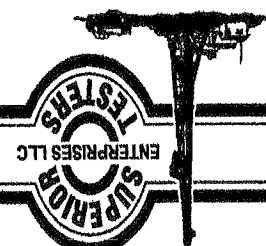
| Length (ft) | Description | Volume (bb) |
|-------------|-------------|-------------|
| 2.00        | MUD         | 100%        |
| 0.03        |             |             |

## Gas Rates

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

# FLUID SUMMARY

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16707

DST#: 2

ATTN: FRANK GREENBAUM

Test Start: 2008.09.02 @ 20:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4500.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length:  
Cushion Volume:  
Gas Cushion Type:  
Gas Cushion Pressure:

psia

Oil API:  
Water Salinity:

bbl

deg API  
ppm

### Recovery Information

#### Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 2.00         | MUD         | 100%          |
| 0.028        |             |               |

Total Length: 2.00 ft  
Total Volume: 0.028 bbl

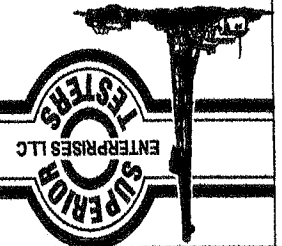
Num Fluid Samples: 1  
Num Gas Bombs: 0  
Serial #:

Laboratory Name:  
Laboratory Location:

Recovery Comments:

**TOOL DIAGRAM**

**DRILL STEM TEST REPORT**



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16707

DST#: 2

ATTN: FRANK GREENBAUM

Test Start: 2008.09.02 @ 20:00:00

**Tool Information**

|                 |                    |                       |                   |                                   |
|-----------------|--------------------|-----------------------|-------------------|-----------------------------------|
| Drill Pipe:     | Length: 3315.00 ft | Diameter: 3.80 inches | Volume: 46.50 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: 2.25 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 45000.00 lb |

|                      |          |                         |             |         |
|----------------------|----------|-------------------------|-------------|---------|
| Drill Pipe Above KB: | 17.00 ft | Total Volume: 46.50 bbl | Tool Chased | 0.00 ft |
|----------------------|----------|-------------------------|-------------|---------|

|                      |            |                                    |                   |
|----------------------|------------|------------------------------------|-------------------|
| Depth to Top Packer: | 3320.00 ft | String Weight: Initial 40000.00 lb | Final 40000.00 lb |
|----------------------|------------|------------------------------------|-------------------|

|                         |    |  |
|-------------------------|----|--|
| Depth to Bottom Packer: | ft |  |
|-------------------------|----|--|

|                           |          |  |
|---------------------------|----------|--|
| Interval between Packers: | 22.00 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**

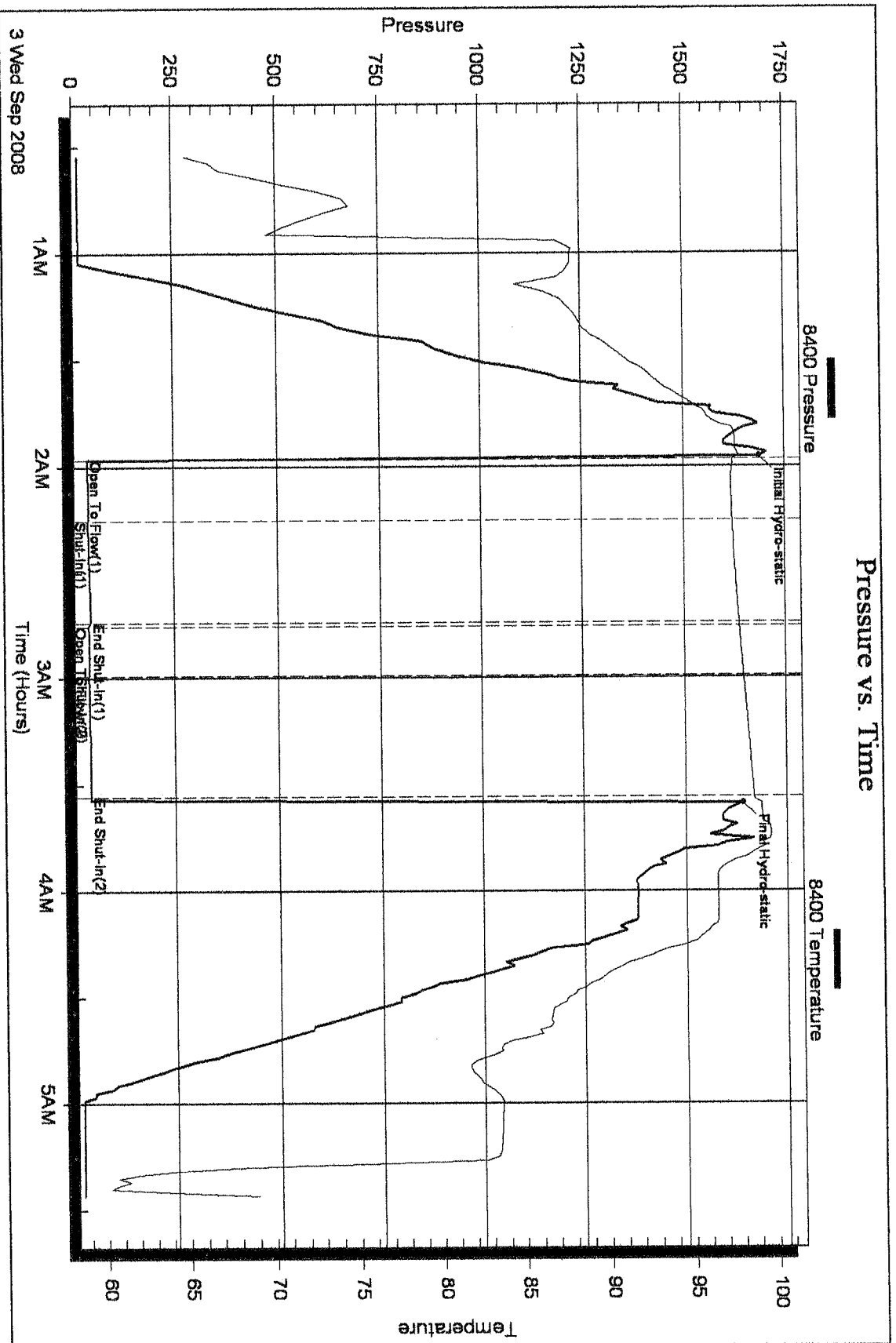
|                           |              |         |  |  |
|---------------------------|--------------|---------|--|--|
| S.L. Tool                 | 5.00         | 3303.00 |  |  |
| Hydraulic Tool            | 5.00         | 3308.00 |  |  |
| Safety Joint              | 2.00         | 3310.00 |  |  |
| Packer                    | 5.00         | 3315.00 |  |  |
| Bottom Of Top Packer      | 22.00        |         |  |  |
| Packer                    | 5.00         | 3320.00 |  |  |
| Handling Subb             | 5.00         | 3325.00 |  |  |
| Perforations              | 12.00        | 3337.00 |  |  |
| Bullnose                  | 5.00         | 3342.00 |  |  |
| Bottom Packers & Anchor   | 22.00        |         |  |  |
| <b>Total Tool Length:</b> | <b>44.00</b> |         |  |  |

Serial #: 8400

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 2





**DRILL STEM TEST REPORT**

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.03 @ 08:00:00

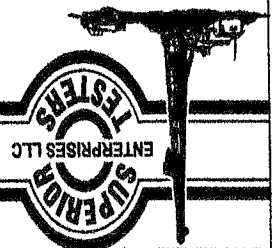
End Date: 2008.09.03 @ 13:20:00

Job Ticket #: 16708 DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530

1-800-792-6902

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Test Start: 2008.09.03 @ 08:00:00

Job Ticket: 16708

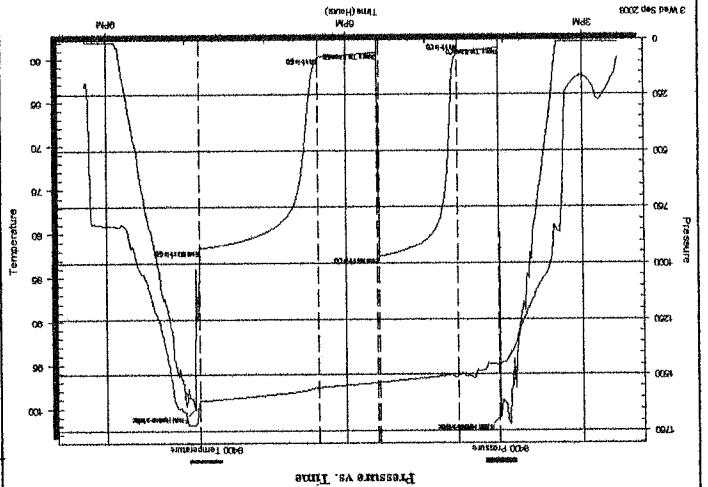
DST#: 3

## GENERAL INFORMATION:

Formation: LANSING - I  
 Deviated: No Whipstock  
 Time Tool Opened: 09:15:00  
 Time Test Ended: 13:20:00  
 Interval: 3343.00 ft (KB) To 3363.00 ft (KB) (TVD)  
 Total Depth: 3363.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inchesHole Condition: Fair  
 KB to GRCP: 8.00 ft  
 Reference Elevations: 1879.00 ft (KB)  
 1871.00 ft (CF)  
 Test Type: Conventional Bottom Hole  
 Tester: RANDY WILLIAMS  
 Unit No: 3325 / 2 MILES GB

Serial #: 8400  
 Press@RunDepth: 78.90 psia @  
 Start Date: 2008.09.03  
 End Date: 2008.09.03  
 Start Time: 14:33:43  
 End Time: 21:16:13  
 Capacity: 5000.00 psia  
 Last Calib.: 1899.12.30  
 Time On Btm: 2008.09.03 @ 16:03:13  
 Time Off Btm: 2008.09.03 @ 19:53:13

TEST COMMENT: 30-INITIAL FLOW-WEAK BUILDING BLOW BUILT TO 4 INCHS  
 60-INITIAL SHUT IN-NO BLOW BACK  
 45-FINAL FLOW-WEAK BUILDING BLOW BUILT TO 4 INCHS  
 90-FINAL SHUT IN-NO BLOW BACK



| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1684.62         | 95.09        | Initial Hydro-static |
| 2           | 36.46           | 95.04        | Open To Flow (1)     |
| 33          | 53.67           | 96.38        | Shut-in (1)          |
| 93          | 968.22          | 97.04        | End Shut-in (1)      |
| 93          | 57.67           | 96.96        | Open To Flow (2)     |
| 138         | 78.90           | 97.63        | Shut-in (2)          |
| 227         | 934.38          | 99.11        | End Shut-in (2)      |
| 231         | 1647.70         | 101.92       | Final Hydro-static   |

## PRESSURE SUMMARY

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 63.00       | MUD 100%    | 0.88         |
| 42.00       | WATER 100%  | 0.59         |

## Gas Rates

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

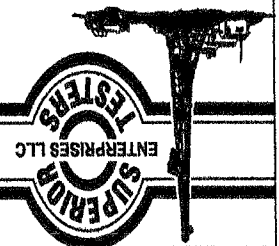
Superior Testers Enterprises LLC

Ref. No: 16708

Printed: 2008.09.05 @ 10:39:14 Page 2

# TOOL DIAGRAM

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16708

DST#:3

ATTN: FRANK GREENBAUM

Test Start: 2008.09.03 @ 08:00:00

### Tool Information

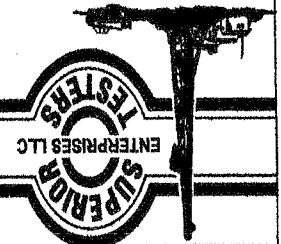
|                           |         |            |           |               |             |           |                        |             |
|---------------------------|---------|------------|-----------|---------------|-------------|-----------|------------------------|-------------|
| Drill Pipe:               | Length: | 3344.00 ft | Diameter: | 3.80 inches   | Volume:     | 46.91 bbl | Tool Weight:           | 2000.00 lb  |
| Heavy Mt. 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: | 2.25 inches   | Volume:     | 0.00 bbl  | Weight to Pull Loose:  | 60000.00 lb |
|                           |         |            |           | Total Volume: |             | 46.91 bbl | Tool Chased            | 0.00 ft     |
|                           |         |            |           |               |             |           | String Weight: Initial | 45000.00 lb |
|                           |         |            |           |               |             |           | Final                  | 45000.00 lb |
| Drill Pipe Above KB:      | Length: | 23.00 ft   |           |               |             |           |                        |             |
| Depth to Top Packer:      | Length: | 3343.00 ft |           |               |             |           |                        |             |
| Depth to Bottom Packer:   | Length: | ft         |           |               |             |           |                        |             |
| Interval between Packers: | Length: | 20.00 ft   |           |               |             |           |                        |             |
| Tool Length:              | Length: | 42.00 ft   |           |               |             |           |                        |             |
| Number of Packers:        | 2       |            |           | Diameter:     | 6.75 inches |           |                        |             |
| Tool Comments:            |         |            |           |               |             |           |                        |             |

### Tool Description

| Total Tool Length: |       | 42.00   |                         |
|--------------------|-------|---------|-------------------------|
| S.I. Tool          | 5.00  | 3326.00 | Bottom Of Top Packer    |
| Hydrolic Tool      | 5.00  | 3331.00 |                         |
| Safety Joint       | 2.00  | 3333.00 |                         |
| Packer             | 5.00  | 3338.00 |                         |
| Packer             | 5.00  | 3343.00 | Bottom Packers & Anchor |
| Handling Subb      | 5.00  | 3348.00 |                         |
| Perforations       | 10.00 | 3358.00 |                         |
| Bullnose           | 5.00  | 3363.00 |                         |
|                    |       | 20.00   |                         |

# FLUID SUMMARY

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16708

DST#: 3

ATTN: FRANK GREENBAUM

Test Start: 2008.09.03 @ 08:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 61.00 sec/qt  
 Water Loss: 7.98 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 4400.00 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: 4400 ppm

### Recovery Information

| Length<br>ft            | Description | Volume<br>bbl |
|-------------------------|-------------|---------------|
| 63.00                   | MUD 100%    | 0.884         |
| 42.00                   | WATER 100%  | 0.589         |
| Total Length: 105.00 ft |             |               |
| Total Volume: 1.473 bbl |             |               |
| Num Fluid Samples: 2    |             |               |
| Num Gas Bombs: 0        |             |               |
| Laboratory Name:        |             |               |
| Laboratory Location:    |             |               |
| Recovery Comments:      |             |               |
| Serial #:               |             |               |

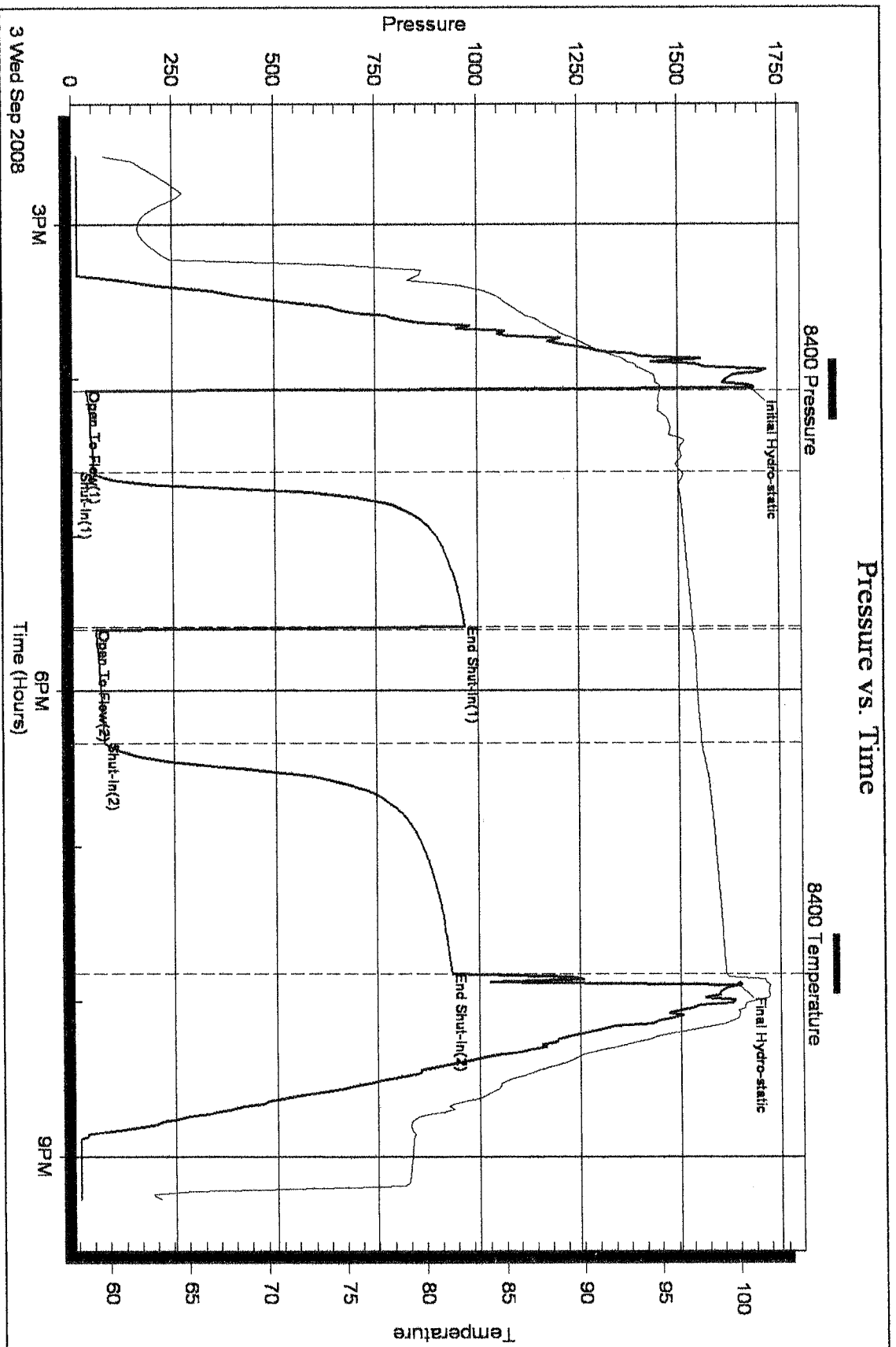
### Recovery Table

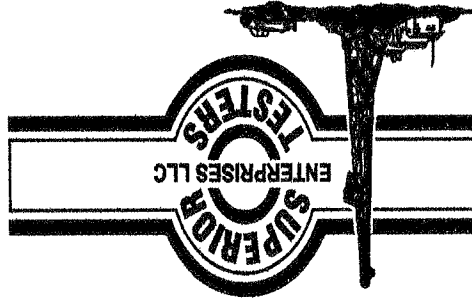
Serial #: 8400

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.04 @ 05:38:03

End Date: 2008.09.04 @ 08:39:03

Job Ticket #: 16709  
DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530

1-800-792-6902

# DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C.

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

35-19S-14W BARTON

HISS #1-35

Job Ticket: 16709

DST#: 4

Test Start: 2008.09.04 @ 05:38:03



## GENERAL INFORMATION:

Formation: J

Deviated: No Whipstock:

Time Tool Opened: 23:45:00

Time Test Ended: 08:39:03

Interval: 3360.00 ft (KB) To 3388.00 ft (KB) (TVD)

Total Depth: 3380.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: RANDY WILLIAMS

Unit No: 3325 / 2 MILLS GB

Reference Elevations: 1879.00 ft (KB)

1871.00 ft (CF)

KB to GRCF: 8.00 ft

Serial #: 2348

Press@RunDepth: psia @

ft (KB)

End Date: 2008.09.05

End Time: 10:41:55

Last Calib.: 2008.09.05

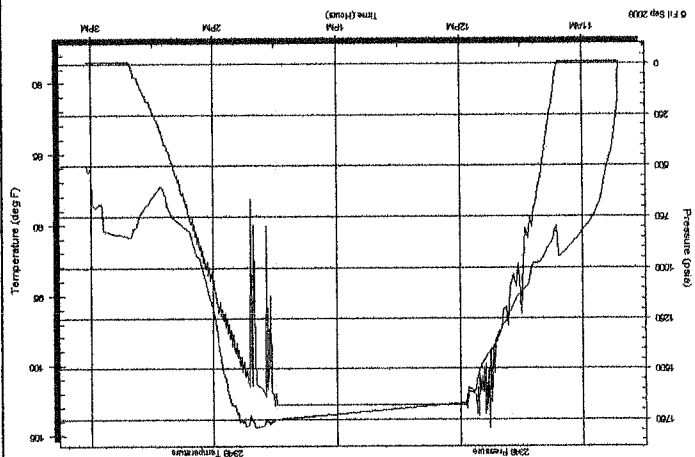
Time On Btm: 15:02:11

1899.12.30

psia

TEST COMMENT: PACKER FAILER AT 3360-3388 28 FOOT ANCHOR RESET PACKERS TO 3354-3388 SEE DST #5

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)

Pressure (psia)

Temp (deg F)

Annotation

## Gas Rates

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 630.00      | MUD 100%    | 8.84         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

Superior Testers Enterprises LLC

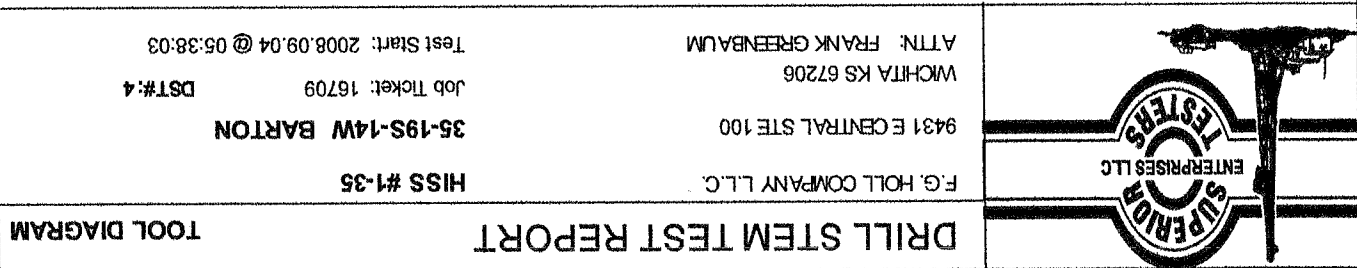
Ref. No: 16709

Printed: 2008.09.05 @ 10:44:03 Page 2

# TOOL DIAGRAM

## DRILL STEM TEST REPORT

**FISS #1-35**  
**35-19S-14W BARTON**  
 Job Ticket: 16709  
 DST#: 4  
 Test Start: 2008.09.04 @ 05:38:03  
 F.G. HOLL COMPANY L.L.C.  
 9431 E CENTRAL STE 100  
 WICHITA KS 67206  
 ATTN: FRANK GREENBAUM



### Tool Information

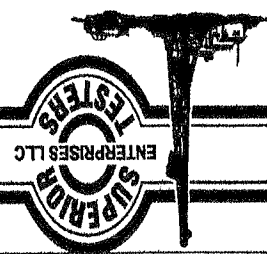
|                           |                    |                           |                   |                                   |
|---------------------------|--------------------|---------------------------|-------------------|-----------------------------------|
| Drill Pipe:               | Length: 3341.00 ft | Diameter: 3.80 inches     | Volume: 46.87 bbl | Tool Weight: 2000.00 lb           |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 ft         | 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: lb          |
| Total Volume: 46.87 bbl   |                    |                           |                   |                                   |
| Drill Pipe Above KB:      | 3.00 ft            | Tool Chased 0.00 ft       |                   |                                   |
| Depth to Top Packer:      | 3360.00 ft         | String Weight: Initial lb |                   |                                   |
| Depth to Bottom Packer:   | ft                 | Final lb                  |                   |                                   |
| Interval between Packers: | 28.00 ft           |                           |                   |                                   |
| Tool Length:              | 50.00 ft           |                           |                   |                                   |
| Number of Packers:        | 2                  | Diameter:                 | 6.75 inches       |                                   |
| Tool Comments:            |                    |                           |                   |                                   |

### Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

|                    |       |         |       |                         |
|--------------------|-------|---------|-------|-------------------------|
| S.I. Tool          | 5.00  | 3343.00 |       |                         |
| Hydrolic Tool      | 5.00  | 3348.00 |       |                         |
| Safety Joint       | 2.00  | 3350.00 |       |                         |
| Packer             | 5.00  | 3355.00 | 22.00 | Bottom Of Top Packer    |
| Packer             | 5.00  | 3360.00 |       |                         |
| Handling Subb      | 5.00  | 3365.00 |       |                         |
| Perforations       | 18.00 | 3383.00 |       |                         |
| Bullnose           | 5.00  | 3388.00 | 28.00 | Bottom Packers & Anchor |
| Total Tool Length: |       | 50.00   |       |                         |

# FLUID SUMMARY

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HSS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16709

DST#: 4

Test Start: 2008.09.04 @ 05:38:03

ATTN: FRANK GREENBAUM

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 61.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API:  
deg API  
ppm  
Water Salinity:

### Recovery Information

#### Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 630.00       | MUD 100%    | 8.837         |

Total Length: 630.00 ft  
Total Volume: 8.837 bbl

Num Fluid Samples: 2  
Num Gas Bombs: 0  
Serial #:

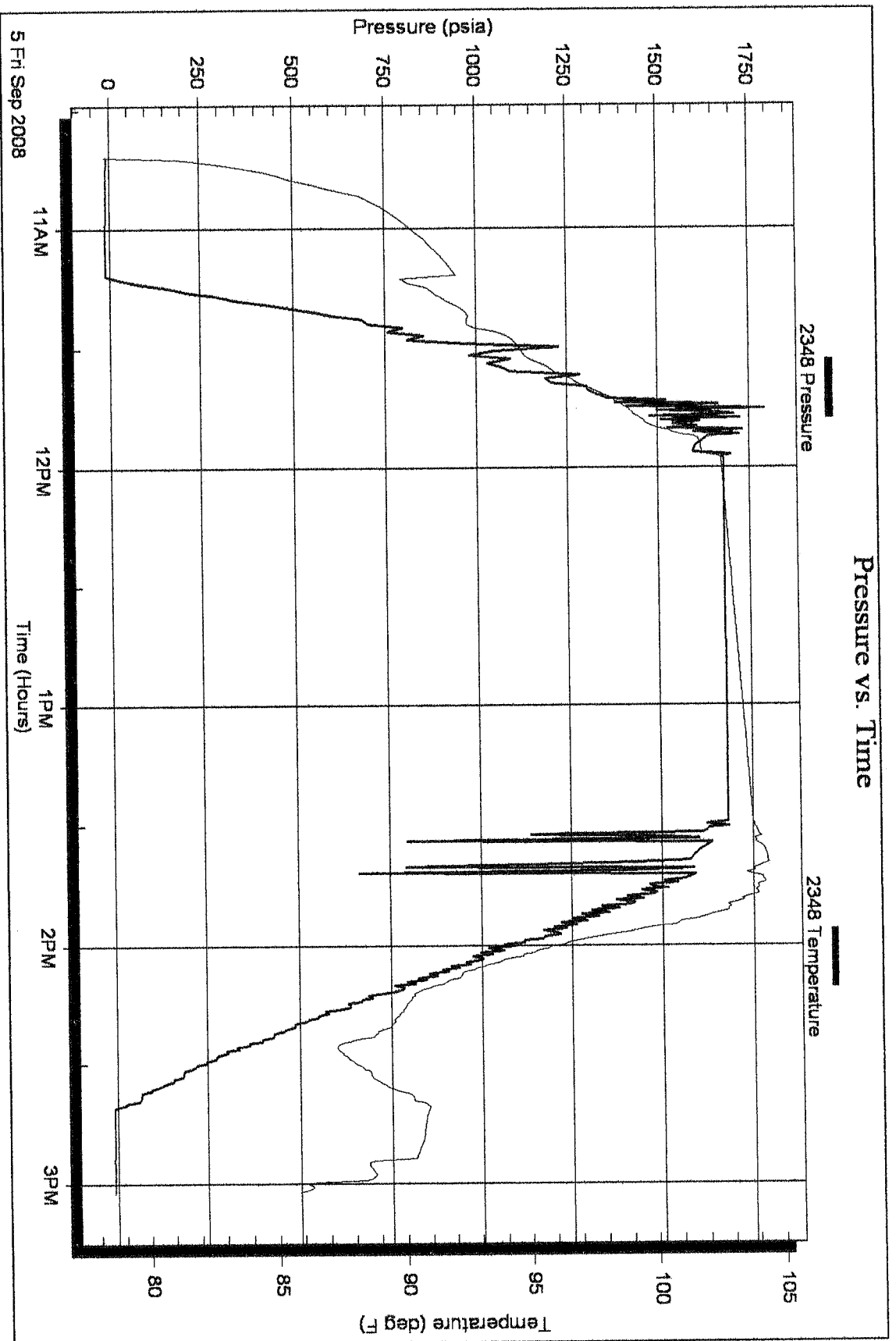
Laboratory Name:  
Laboratory Location:  
Recovery Comments: PACKER FAILURE AT 3360-3388 28 FOOT ANCHOR

Serial #: 2348

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 4





**DRILL STEM TEST REPORT**

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.04 @ 02:15:00

End Date: 2008.09.04 @ 07:25:00

Job Ticket #: 16710 DST #: 5

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

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.  
9431 E CENTRAL STE 100  
WICHITA KS 67206  
ATTN: FRANK GREENBAUM

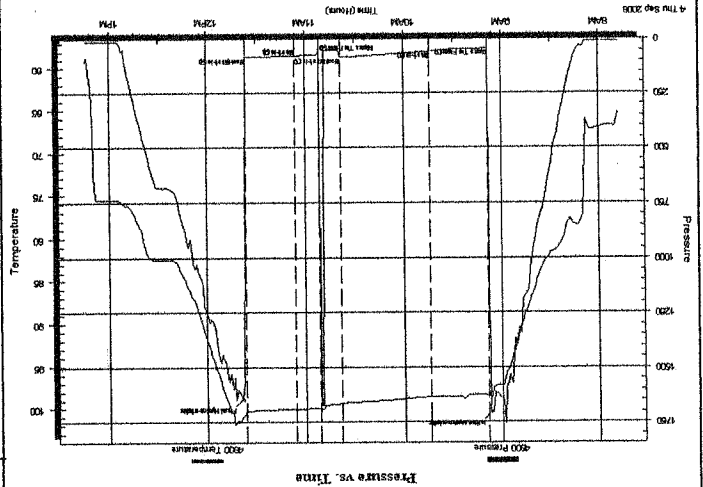
HISS #1-35  
35-19S-14W BARTON  
DST#: 5  
Job Ticket: 16710  
Test Start: 2008.09.04 @ 02:15:00

## GENERAL INFORMATION:

Formation: LANSING - J  
Deviated: No  
Whipstock: No  
Time Tool Opened: 03:35:00  
Time Test Ended: 07:25:00  
Interval: 3354.00 ft (KB) To 3388.00 ft (KB) (TVD)  
Total Depth: 3388.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inchesHole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: RANDY WILLIAMS  
Unit No: 3325 / 2 MILLS GB  
Reference Elevations: 1879.00 ft (KB)  
1871.00 ft (CF)  
8.00 ft  
KB to GRFCF:

Serial #: 4800  
Press@RunDepth: 76.08 psia @  
End Date: 2008.09.04  
End Time: 07:48:00  
Start Date: 2008.09.04  
Start Time: 09:07:30  
Last Calib.: 1899.12.30  
Capacity: 5000.00 psia  
Time On Blm: 2008.09.04 @ 09:07:30  
Time Off Blm: 2008.09.04 @ 11:38:30

TEST COMMENT: 30-INITIAL FLOW- WEAK BUILDING BLOW BUILT TO 2 INCHS  
60-INITIAL SHUT-IN-NO BLOW BACK  
15-FINAL FLOW-NO BLOW FLUSHED TOOL WEAK SURFACE BLOW  
30-FINAL SHUT-IN-NO BLOW BACK



## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 35.00       | MUD 100%    | 0.49         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1704.57         | 98.71        | Initial Hydro-static |
| 1           | 42.19           | 98.32        | Open To Flow (1)     |
| 37          | 57.35           | 98.63        | Shut-in (1)          |
| 91          | 83.37           | 99.38        | End Shut-in (1)      |
| 104         | 58.70           | 99.82        | Open To Flow (2)     |
| 119         | 76.08           | 100.04       | Shut-in (2)          |
| 149         | 83.44           | 100.27       | End Shut-in (2)      |
| 151         | 1645.72         | 101.00       | Final Hydro-static   |

## PRESSURE SUMMARY

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**  
 F.G. HOLL COMPANY L.L.C.  
 9431 E CENTRAL STE 100  
 WICHITA KS 67206  
 ATTN: FRANK GREENBAUM  
 HISS #1-35  
 35-19S-14W BARTON  
 Job Ticket: 16710  
 DST#: 5  
 Test Start: 2008.09.04 @ 02:15:00

| Tool Information          |         |            |           |             |               |           |                       |             |  |
|---------------------------|---------|------------|-----------|-------------|---------------|-----------|-----------------------|-------------|--|
| Drill Pipe:               | Length: | 3348.00 ft | Diameter: | 3.80 inches | Volume:       | 46.96 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: | 2.25 inches | Volume:       | 0.00 bbl  | Weight to Pull Loose: | 52000.00 lb |  |
|                           |         |            |           |             | Total Volume: | 46.96 bbl | Tool Chased           | 0.00 ft     |  |
|                           |         |            |           |             |               |           |                       |             |  |
| Drill Pipe Above KB:      | Length: | 16.00 ft   |           |             |               |           |                       |             |  |
| Depth to Top Packer:      | Length: | 3354.00 ft |           |             |               |           |                       |             |  |
| Depth to Bottom Packer:   | Length: | ft         |           |             |               |           |                       |             |  |
| Interval between Packers: | Length: | 34.00 ft   |           |             |               |           |                       |             |  |
| Tool Length:              | Length: | 56.00 ft   | 2         | Diameter:   | 6.75 inches   |           |                       |             |  |
| Number of Packers:        |         |            |           |             |               |           |                       |             |  |
| Tool Comments:            |         |            |           |             |               |           |                       |             |  |

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths          |
|--------------------|-------------|------------|----------|------------|-------------------------|
| S.L. Tool          | 5.00        | 3337.00    |          |            |                         |
| Hydraulic Tool     | 5.00        | 3342.00    |          |            |                         |
| Safety Joint       | 2.00        | 3344.00    |          |            |                         |
| Packer             | 5.00        | 3349.00    |          | 22.00      | Bottom Of Top Packer    |
| Packer             | 5.00        | 3354.00    |          |            |                         |
| Handling Subb      | 5.00        | 3359.00    |          |            |                         |
| Perforations       | 24.00       | 3383.00    |          |            |                         |
| Bullnose           | 5.00        | 3388.00    |          | 34.00      | Bottom Packers & Anchor |
| Total Tool Length: |             |            |          |            | 56.00                   |

FLUID SUMMARY

DRILL STEM TEST REPORT

F.G. HOLL COMPANY L.L.C.  
9431 E CENTRAL STE 100  
WICHITA KS 67206  
ATTN: FRANK GREENBAUM  
HISS #1-35  
35-19S-14W BARTON  
Job Ticket: 16710  
DST#: 5  
Test Start: 2008.09.04 @ 02:15:00



Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 61.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: inches  
Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type: psia  
Gas Cushion Pressure: deg API  
Water Salinity: ppm

Recovery Information

| Recovery Table          |               |
|-------------------------|---------------|
| Length<br>ft            | Description   |
| 35.00                   | MUD 100%      |
| 0.491                   | Volume<br>bbl |
| Total Length: 35.00 ft  |               |
| Total Volume: 0.491 bbl |               |
| Num Fluid Samples: 1    |               |
| Laboratory Name:        |               |
| Recovery Comments:      |               |
| Serial #:               |               |
| Num Gas Bombs: 0        |               |
| Laboratory Location:    |               |

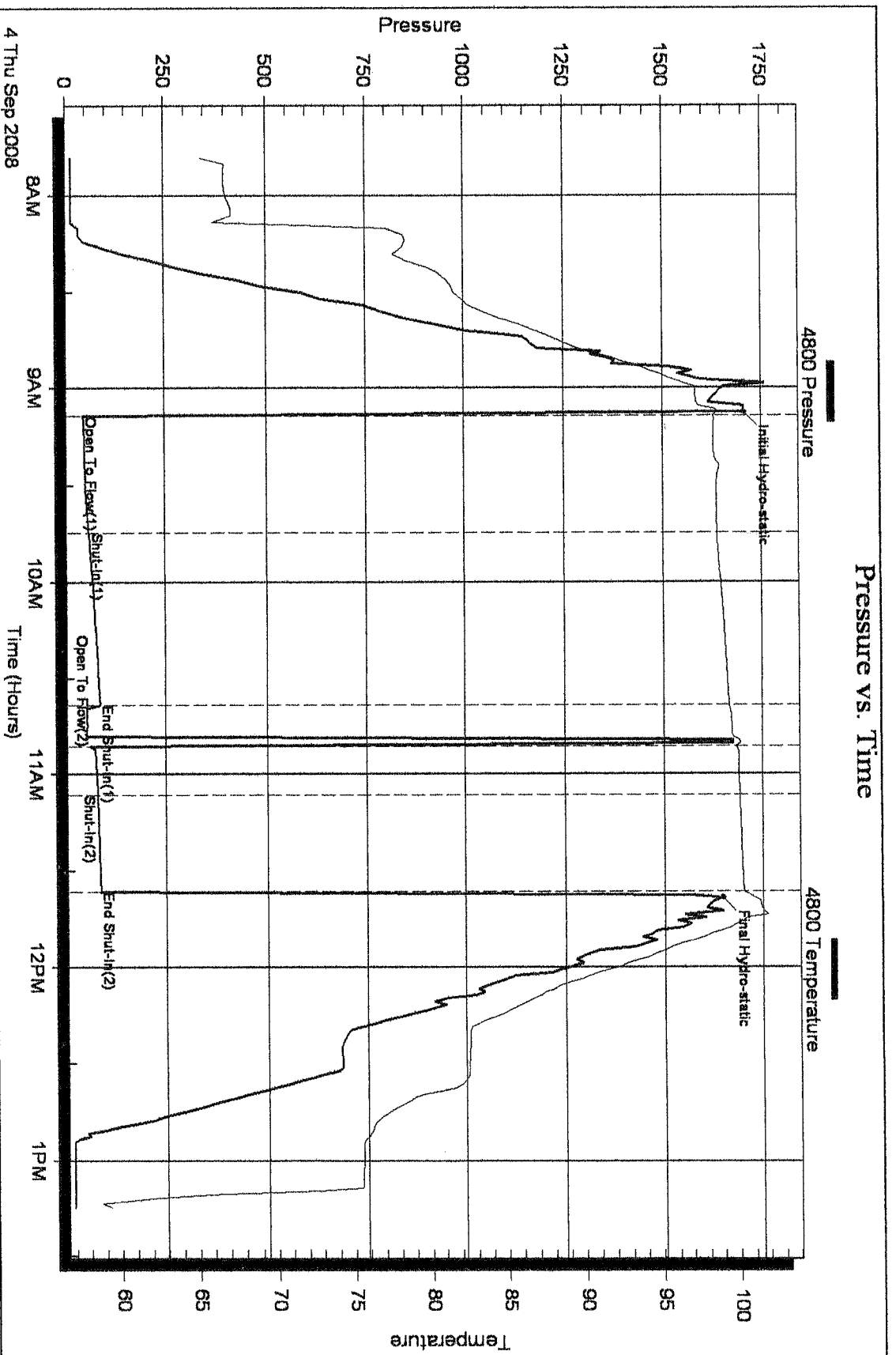
Serial #: 4800

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 5

# Pressure vs. Time





# DRILL STEM TEST REPORT

Prepared For: F.G. HOLL COMPANY L.L.C.

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

35-19S-14W BARTON

HISS #1-35

Start Date: 2008.09.04 @ 14:45:00

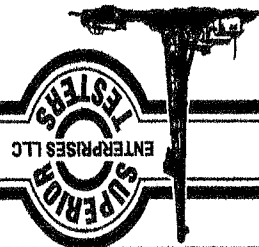
End Date: 2008.09.05 @ 19:30:00

Job Ticket #: 16711 DST #: 6

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530

1-800-792-6902

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.  
9431 E CENTRAL STE 100  
WICHITA KS 67206  
ATTN: FRANK GREENBAUM

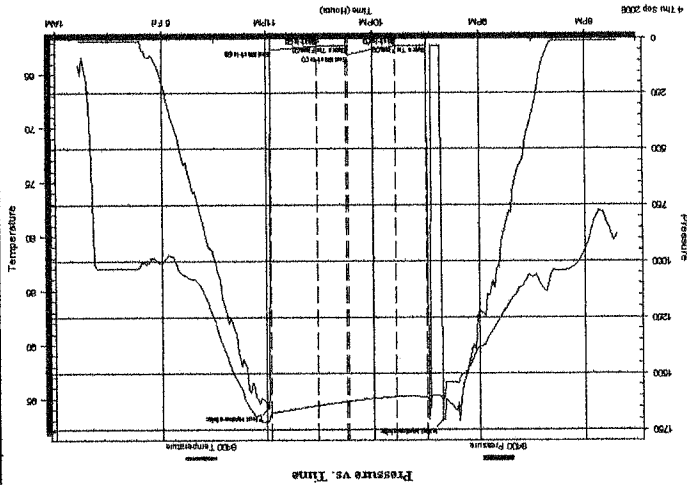
HISS #1-35  
35-19S-14W BARTON  
DST#:6  
Job Ticket: 16711  
Test Start: 2008.09.04 @ 14:45:00

## GENERAL INFORMATION:

Formation: LANSING - K  
Deviated: No Whipstock  
Time Tool Opened: 16:15:00  
Time Test Ended: 19:30:00  
Interval: 3389.00 ft (KB) To 3406.00 ft (KB) (TVD)  
Total Depth: 3406.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inchesHole Condition: Fair  
KB to GRCP: 8.00 ft  
Reference Elevations: 1879.00 ft (KB)  
1871.00 ft (CF)  
8.00 ft

Serial #: 8400  
Press@RunDepth: 34.53 psia @  
ft (KB)  
Start Date: 2008.09.04  
End Date: 2008.09.04  
Start Time: 19:41:44  
End Time: 00:47:44  
Capacity: 5000.00 psia  
Last Calib.: 1899.12.30  
Time On Btm: 2008.09.04 @ 21:21:14  
Time Off Btm: 2008.09.04 @ 22:59:14

TEST COMMENT: 15 - INITIAL FLOW-WEAK SURFACE BLOW DIED IN 1 MIN FLUSHED TOOL WEAK SURFACE BLOW DIED IN 3 MINS  
30 - INITIAL SHUT-IN-NO BLOW BACK  
15 - FINAL FLOW-NO BLOW  
30 - FINAL SHUT-IN-NO BLOW BACK



| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1709.37         | 95.20        | Initial Hydro-static |
| 9           | 33.06           | 94.80        | Open To Flow (1)     |
| 26          | 33.44           | 94.79        | Shut-in (1)          |
| 53          | 74.62           | 95.23        | End Shut-in (1)      |
| 54          | 33.46           | 95.25        | Open To Flow (2)     |
| 71          | 34.53           | 95.61        | Shut-in (2)          |
| 96          | 51.66           | 96.26        | End Shut-in (2)      |
| 98          | 1653.51         | 97.12        | Final Hydro-static   |

## PRESSURE SUMMARY

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00        | MUD 100%    | 0.04         |

## Gas Rates

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

**TOOL DIAGRAM**

**DRILL STEM TEST REPORT**



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16711

DST#:6

ATTN: FRANK GREENBAUM

Test Start: 2008.09.04 @ 14:45:00

**Tool Information**

|                 |         |            |           |             |         |           |                       |             |
|-----------------|---------|------------|-----------|-------------|---------|-----------|-----------------------|-------------|
| Drill Pipe:     | Length: | 3378.00 ft | Diameter: | 3.80 inches | Volume: | 47.38 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: | 2.25 inches | Volume: | 0.00 bbl  | Weight to Pull Loose: | 56000.00 lb |

|                      |            |                |         |             |
|----------------------|------------|----------------|---------|-------------|
| Drill Pipe Above KB: | 11.00 ft   | String Weight: | Initial | 42000.00 lb |
| Depth to Top Packer: | 3389.00 ft | Tool Chased    |         | 0.00 ft     |

|                         |    |       |             |
|-------------------------|----|-------|-------------|
| Depth to Bottom Packer: | ft | Final | 42000.00 lb |
|-------------------------|----|-------|-------------|

|                           |          |           |             |
|---------------------------|----------|-----------|-------------|
| Interval between Packers: | 17.00 ft |           |             |
| Tool Length:              | 39.00 ft |           |             |
| Number of Packers:        | 2        | Diameter: | 6.75 inches |
| Tool Comments:            |          |           |             |

**Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

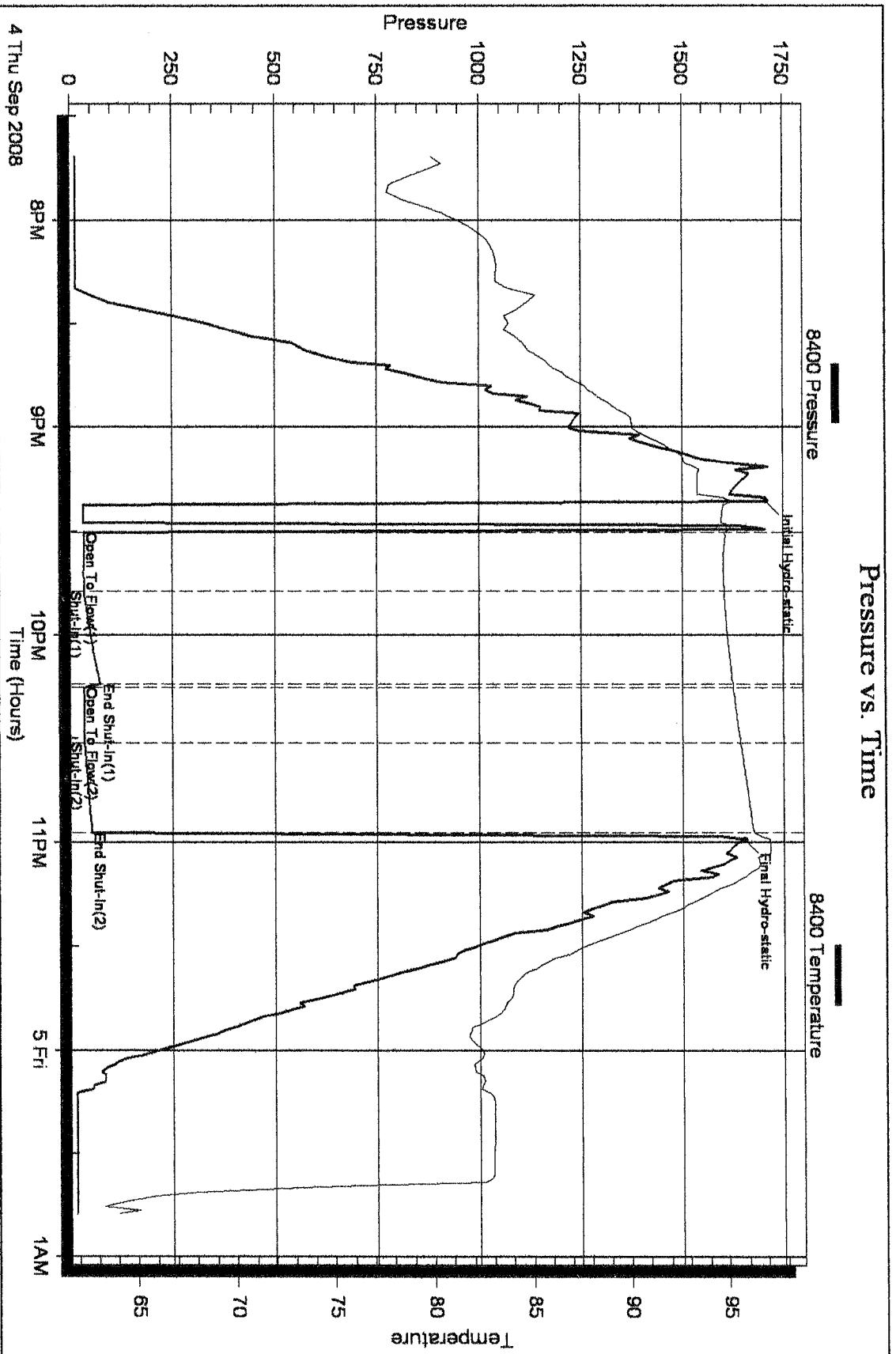
|                           |       |              |                         |       |
|---------------------------|-------|--------------|-------------------------|-------|
| S.I. Tool                 | 5.00  | 3372.00      |                         |       |
| Hydraulic Tool            | 5.00  | 3377.00      |                         |       |
| Safety Joint              | 2.00  | 3379.00      |                         |       |
| Packer                    | 5.00  | 3384.00      | Bottom Of Top Packer    | 22.00 |
| Packer                    | 5.00  | 3389.00      |                         |       |
| Handling Subb             | 0.00  | 3389.00      |                         |       |
| Perforations              | 12.00 | 3401.00      |                         |       |
| Bullnose                  | 5.00  | 3406.00      | Bottom Packers & Anchor | 17.00 |
| <b>Total Tool Length:</b> |       | <b>39.00</b> |                         |       |

Serial #: 8400

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 6





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

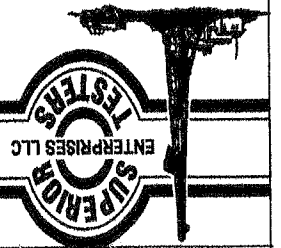
Start Date: 2008.09.05 @ 07:10:00

End Date: 2008.09.05 @ 13:30:00

Job Ticket #: 16712 DST #: 7

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

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16712

DST#: 7

ATTN: FRANK GREENBAUM

Test Start: 2008.09.05 @ 07:10:00

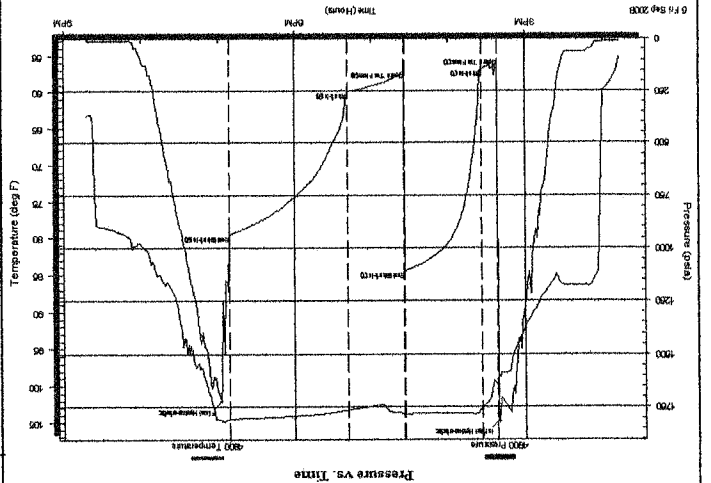
## GENERAL INFORMATION:

Formation: ARBUCKLE  
 Deviated: No Whipstock:  
 Time Tool Opened: 08:15:00  
 Time Test Ended: 13:30:00  
 Interval: 3410.00 ft (KB) To 3505.00 ft (KB) (TVD)  
 Total Depth: 3505.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches-Hole Condition: Fair  
 Reference Elevations: 1879.00 ft (KB)  
 1871.00 ft (CF)  
 8.00 ft  
 KB to GR/CF:  
 Test Type: Conventional Bottom Hole  
 Tester: RANDY WILLIAMS  
 Unit No: 3325 / 2 MILES GB

Serial #: 4800

Press@Run/Depth: 255.11 psia @  
 End Date: 2008.09.05  
 End Time: 13:47:29  
 2008.09.05  
 Last Callb.: 1899.12.30  
 Capacity: 5000.00 psia  
 Time On Btm: 2008.09.05 @ 15:20:59  
 Time Off Btm: 2008.09.05 @ 18:57:59

TEST COMMENT: 10-INITIAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 4 MINS  
 60-INITIAL SHUT-IN-YES BLOW BACK  
 45-FINAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 3 MINS  
 90-FINAL SHUT-IN-YES BLOW BACK



## Recovery

| Length (ft) | Description                        | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 90.00       | MUD 100%                           | 1.26         |
| 180.00      | SGCM 5% GAS 95% MUD                | 2.52         |
| 60.00       | SGVM 5% GAS 20% MUD 75% WATER 0.84 |              |
| 60.00       | SGMW 5% GAS 45% MUD 50% WATER 0.84 |              |

## Gas Rates

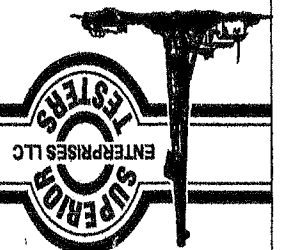
| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|----------------|-----------------|------------------|

## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1817.28         | 98.73        | Initial Hydro-static |
| 2           | 95.59           | 99.39        | Open To Flow (1)     |
| 14          | 146.02          | 103.03       | Shut-in (1)          |
| 74          | 1109.88         | 103.86       | End Shut-in (1)      |
| 74          | 158.14          | 103.69       | Open To Flow (2)     |
| 119         | 255.11          | 103.24       | Shut-in (2)          |
| 210         | 938.73          | 104.48       | End Shut-in (2)      |
| 218         | 1719.44         | 104.63       | Final Hydro-static   |

TOOL DIAGRAM

DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WCHITA KS 67206

Job Ticket: 16712

DST#: 7

ATTN: FRANK GREENBAUM

Test Start: 2008.09.05 @ 07:10:00

Tool Information

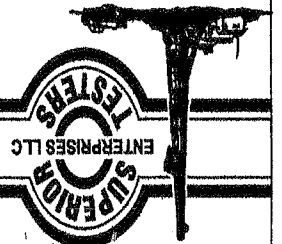
|                           |         |            |               |             |                |                                                         |                       |             |
|---------------------------|---------|------------|---------------|-------------|----------------|---------------------------------------------------------|-----------------------|-------------|
| Drill Pipe:               | Length: | 3410.00 ft | Diameter:     | 3.80 inches | Volume:        | 47.83 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:     | 2.25 inches | Volume:        | 0.00 bbl                                                | Weight to Pull Loose: | 80000.00 lb |
| Tool Chased               |         |            |               |             |                |                                                         |                       |             |
| Drill Pipe Above KB:      | Length: | 22.00 ft   | Total Volume: |             | 47.83 bbl      | String Weight: Initial 45000.00 lb<br>Final 48000.00 lb |                       |             |
| Depth to Top Packer:      | Length: | 3410.00 ft |               |             |                |                                                         |                       |             |
| Depth to Bottom Packer:   | Length: | ft         |               |             |                |                                                         |                       |             |
| Interval between Packers: | Length: | 95.00 ft   |               |             |                |                                                         |                       |             |
| Tool Length:              | Length: | 117.00 ft  | Diameter:     | 6.75 inches | Tool Comments: |                                                         |                       |             |
| Number of Packers:        | Length: | 2          |               |             |                |                                                         |                       |             |

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

|                         |       |         |        |  |
|-------------------------|-------|---------|--------|--|
| S.I. Tool               | 5.00  | 3393.00 |        |  |
| Hydraulic Tool          | 5.00  | 3398.00 |        |  |
| Safety Joint            | 2.00  | 3400.00 |        |  |
| Packer                  | 5.00  | 3405.00 |        |  |
| Packer                  | 5.00  | 3410.00 |        |  |
| Perforations            | 6.00  | 3416.00 |        |  |
| C.O. Sub                | 0.75  | 3416.75 |        |  |
| Drill Pipe              | 62.50 | 3479.25 |        |  |
| C.O. Sub                | 0.75  | 3480.00 |        |  |
| Handling Sub            | 5.00  | 3485.00 |        |  |
| Perforations            | 15.00 | 3500.00 |        |  |
| Bullnose                | 5.00  | 3505.00 |        |  |
| Bottom Packers & Anchor |       |         | 95.00  |  |
| Total Tool Length:      |       |         | 117.00 |  |

FLUID SUMMARY

DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

ATTN: FRANK GREENBAUM

Test Start: 2008.09.05 @ 07:10:00

Job Ticket: 16712

DST#: 7

Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 58.00 sec/qt  
 Water Loss: 8.79 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 6000.00 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: 23000 ppm

Recovery Information

Recovery Table

| Length<br>ft | Description                   | Volume<br>bbl |
|--------------|-------------------------------|---------------|
| 90.00        | MUD 100%                      | 1.262         |
| 180.00       | SGCM 5% GAS 95% MUD           | 2.525         |
| 60.00        | SGVM 5% GAS 20% MUD 75% WATER | 0.842         |
| 60.00        | SGMV 5% GAS 45% MUD 50% WATER | 0.842         |

Total Length: 390.00 ft Total Volume: 5.471 bbl

Num Fluid Samples: 7 Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

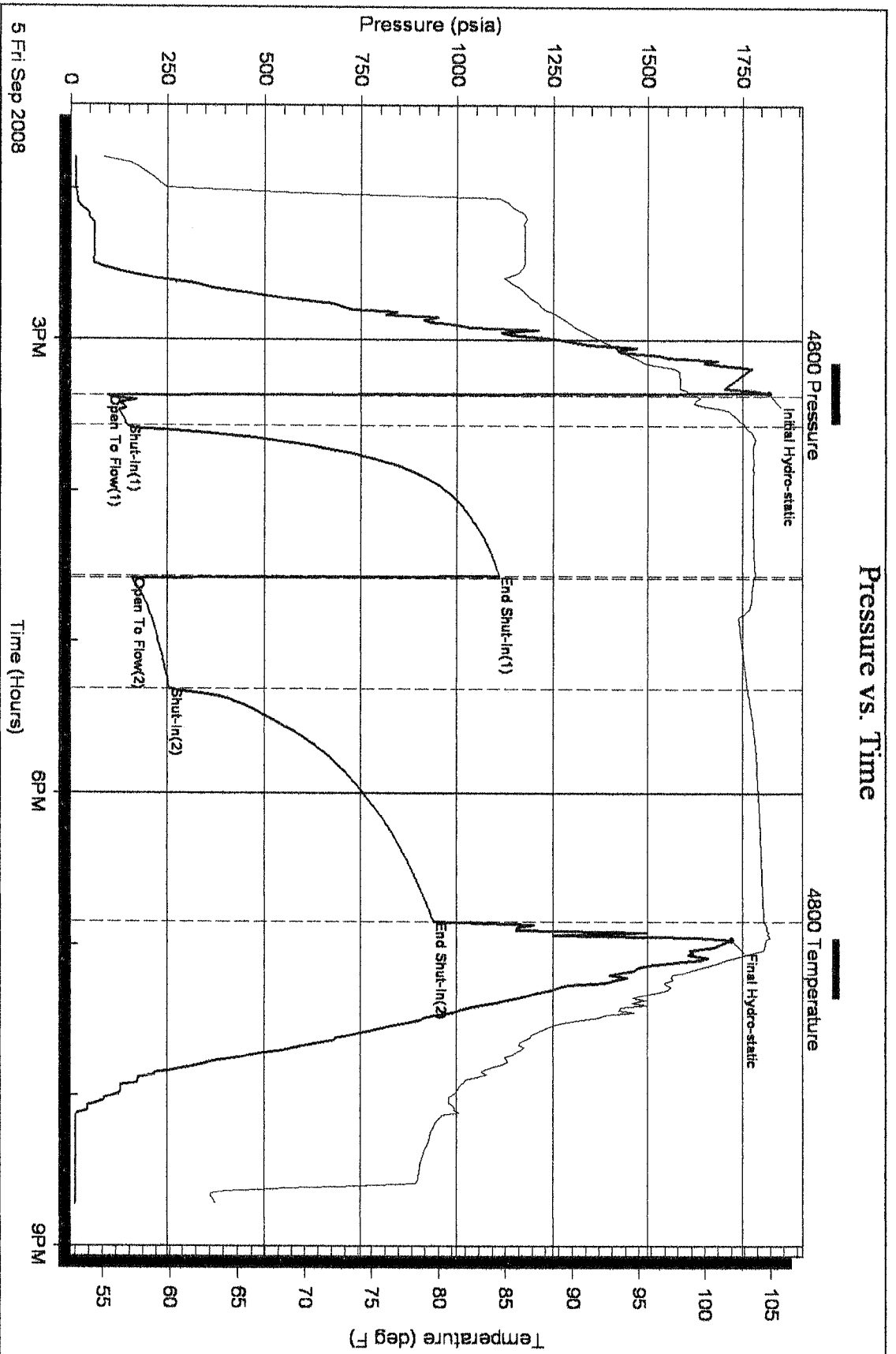
Serial #: 4800

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 7

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.05 @ 19:30:00

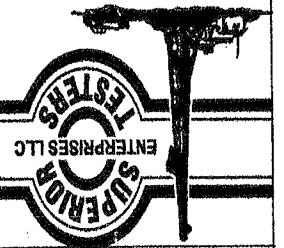
End Date: 2008.09.06 @ 01:30:00

Job Ticket #: 16713 DST #: 8

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530

1-800-792-6902

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16713

DST#: 8

ATTN: FRANK GREENBAUM

Test Start: 2008.09.05 @ 19:30:00

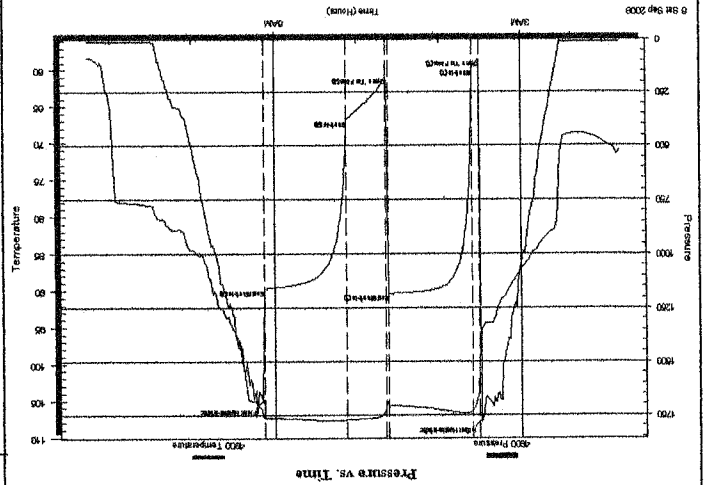
## GENERAL INFORMATION:

Formation: ARBUCKLE  
 Deviated: No Whipstock:  
 Time Tool Opened: 20:55:00  
 Time Test Ended: 01:30:00  
 Interval: 3505.00 ft (KB) To 3515.00 ft (KB) (TVD)  
 Total Depth: 3515.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inchesHole Condition: Fair  
 KB to GRCP: 8.00 ft  
 Reference Elevations: 1879.00 ft (KB)  
 1871.00 ft (CF)  
 Unit No: 3325 / 2 MILES GB  
 Tester: RANDY WILLIAMS  
 Test Type: Conventional Bottom Hole

Serial #: 4800

Press@RunDepth: 379.57 psia @  
 End Date: 2008.09.06  
 End Time: 01:48:00  
 Capacity: 5000.00 psia  
 Last Calib.: 1899.12.30  
 Time On Btm: 2008.09.06 @ 03:29:30  
 Time Off Btm: 2008.09.06 @ 06:08:30

TEST COMMENT: 5-INITIAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 90 SECONDS  
 60-INITIAL SHUT IN-YES BLOW BACK  
 30-FINAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 3 MINS  
 60-FINAL SHUT IN-YES



## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 402.00      | SGW 5%GAS 95% WATER          | 5.64         |
| 278.00      | SGMW 5% GAS 5% MUD 90% WATER | 0.42         |
| 30.00       | SGWM 5%GAS 45%WATER 50%MUD   | 0.28         |
| 20.00       | SGM 5%GAS 95%MUD             |              |

## Gas Rates

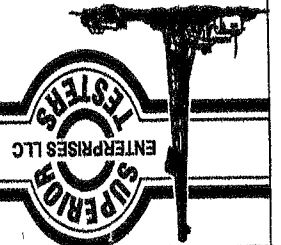
| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|----------------|-----------------|------------------|

## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1774.58         | 95.46        | Initial Hydro-static |
| 2           | 94.72           | 100.18       | Open To Flow (1)     |
| 8           | 140.67          | 106.33       | Shut-in(1)           |
| 69          | 1183.53         | 105.64       | End Shut-in(1)       |
| 71          | 178.99          | 106.08       | Open To Flow (2)     |
| 99          | 379.57          | 107.61       | Shut-in(2)           |
| 159         | 1161.09         | 107.34       | End Shut-in(2)       |
| 159         | 1685.44         | 107.16       | Final Hydro-static   |

# TOOL DIAGRAM

## DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16713

Test Start: 2008.09.05 @ 19:30:00

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 3496.00 ft | Diameter: 3.80 inches | Volume: 49.04 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: 2.25 inches | Volume: 0.00 bbl        | Weight to Pull Loose: 0.00 ft      |
| Drill Pipe Above KB:      | Length: 13.00 ft   |                       | Total Volume: 49.04 bbl | Tool Chased                        |
| Depth to Top Packer:      | 3505.00 ft         |                       |                         | String Weight: Initial 46000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                         | Final 0.00 lb                      |
| Interval between Packers: | 10.00 ft           |                       |                         |                                    |
| Tool Length:              | 32.00 ft           |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |
| Tool Comments:            |                    |                       |                         |                                    |

### Tool Description

|                      |       |         |  |  |
|----------------------|-------|---------|--|--|
| S.I. Tool            | 5.00  | 3488.00 |  |  |
| Hydraulic Tool       | 5.00  | 3493.00 |  |  |
| Safety Joint         | 2.00  | 3495.00 |  |  |
| Packer               | 5.00  | 3500.00 |  |  |
| Bottom Of Top Packer | 22.00 |         |  |  |
| Packer               | 5.00  | 3505.00 |  |  |
| Packer               | 5.00  | 3510.00 |  |  |
| Perforations         | 5.00  | 3515.00 |  |  |
| Bullnose             | 5.00  |         |  |  |
| Total Tool Length:   | 32.00 |         |  |  |

F.G. HOLL COMPANY L.L.C.

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

HISS #1-35

35-19S-14W BARTON

Job Ticket: 16713

DST#:8

Test Start: 2008.09.05 @ 19:30:00

9.00 lb/gal

Mud Weight:

58.00 sec/qt

Viscosity:

8.79 in<sup>3</sup>

Water Loss:

ohm.m

Resistivity:

6000.00 ppm

Salinity:

inches

Filter Cake:

Cushion Type:

Gel Chem

Cushion Length:

ft

Cushion Volume:

bbl

Gas Cushion Type:

psia

Gas Cushion Pressure:

deg API

Water Salinity:

25000 ppm

Recovery Information

| Length<br>ft | Description                  | Volume<br>bbl |
|--------------|------------------------------|---------------|
| 402.00       | SGW 5%GAS 95% WATER          | 5.639         |
| 278.00       | SGMW 5% GAS 5% MUD 90% WATER | 3.900         |
| 30.00        | SGWM 5%GAS 45%WATER 50%MUD   | 0.421         |
| 20.00        | SGM 5%GAS 95%MUD             | 0.281         |

Total Length: 730.00 ft

Total Volume: 10.241 bbl

Num Fluid Samples: 11

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Superior Testers Enterprises LLC

Ref. No: 16713

Printed: 2008.09.07 @ 20:09:38

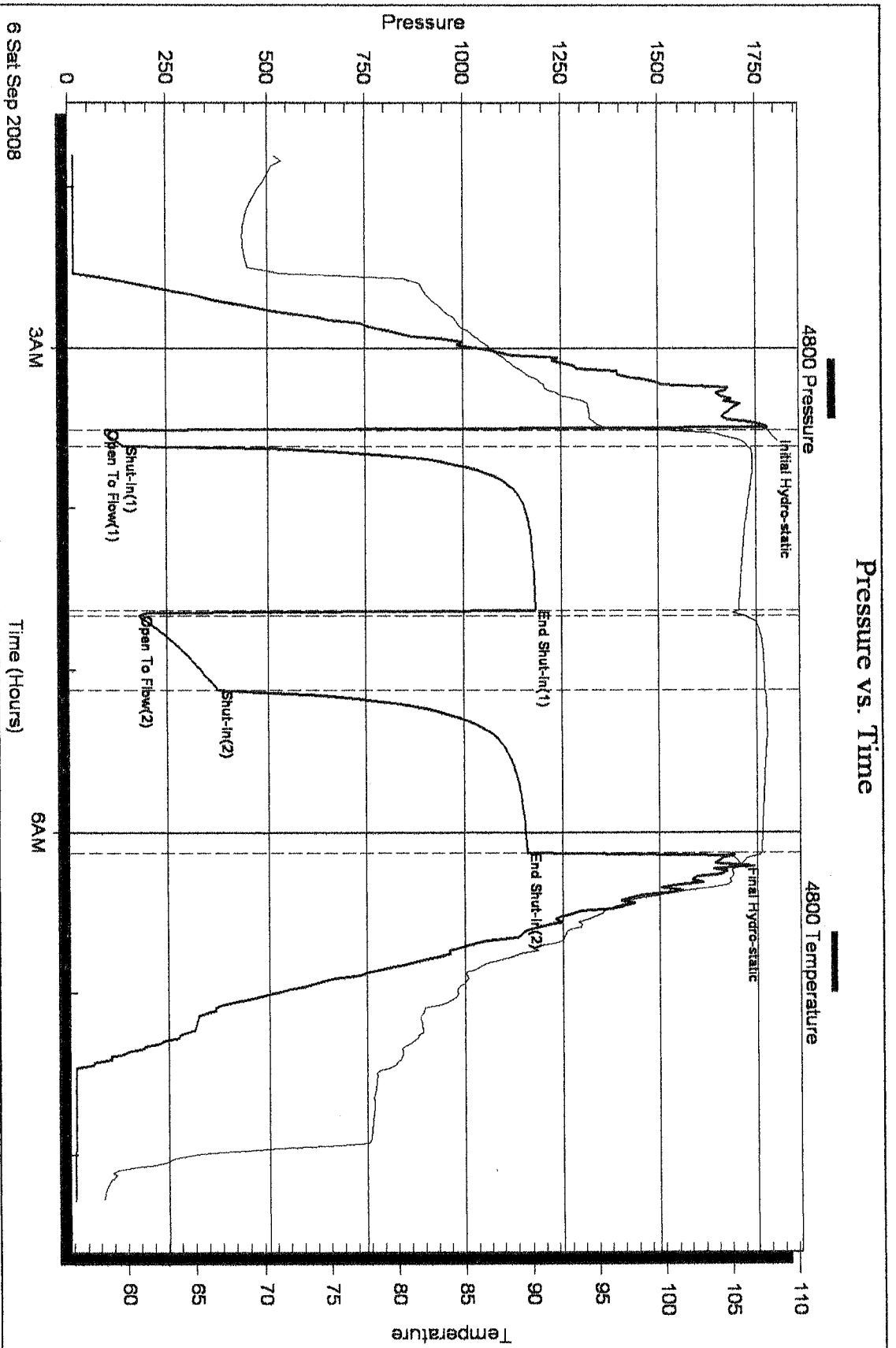
Page 4

Serial #: 4800

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 8





**DRILL STEM TEST REPORT**

Prepared For: **F.G. HOLL COMPANY L.L.C.**

9431 E CENTRAL STE 100

WICHITA KS 67206

ATTN: FRANK GREENBAUM

**35-19S-14W BARTON**

**HISS #1-35**

Start Date: 2008.09.07 @ 21:45:00

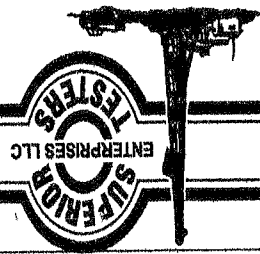
End Date: 2008.09.07 @ 04:20:00

Job Ticket #: 16714 DST #: 9

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530

1-800-792-6902

# DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.  
9431 E CENTRAL STE 100  
WICHITA KS 67206  
ATTN: FRANK GREENBAUM

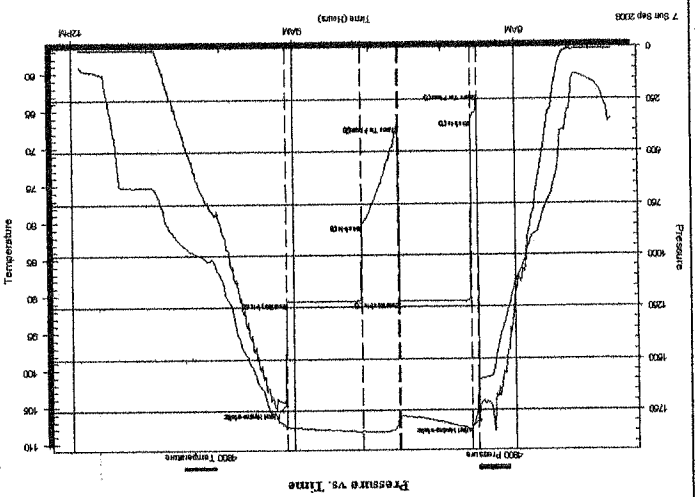
HISS #1-35  
35-19S-14W BARTON  
Job Ticket: 16714  
DST#: 9  
Test Start: 2008.09.07 @ 21:45:00

## GENERAL INFORMATION:

Formation: ARBUCKLE  
Deviated: No  
Whipstock: ft (KB)  
Time Tool Opened: 23:00:00  
Time Test Ended: 04:20:00  
Interval: 3560.00 ft (KB) To 3570.00 ft (KB) (TVD)  
Total Depth: 3700.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
KB to GR/CF: 8.00 ft  
Reference Elevations: 1879.00 ft (KB)  
1871.00 ft (CF)  
8.00 ft

Serial #: 4800  
Press@RunDepth: 847.64 psia @  
ft (KB)  
End Date: 2008.09.07  
End Time: 04:41:33  
Start Date: 2008.09.07 @ 06:30:03  
Time On Btm: 2008.09.07 @ 09:07:03  
Capacity: 5000.00 psia  
Last Calib: 1899.12.30  
Time Off Btm: 2008.09.07 @ 09:07:03

TEST COMMENT: 5-INITIAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 2.5 MINS  
60-INITIAL SHUT IN-YES BLOW BACK  
30-FINAL FLOW-BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 2 MINS  
60-FINAL SHUT IN-YES BLOW BACK



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1795.55         | 101.36       | Initial Hydro-static |
| 2           | 223.53          | 101.39       | Open To Flow (1)     |
| 6           | 347.23          | 107.70       | Shut-in (1)          |
| 65          | 1222.34         | 106.28       | End Shut-in (1)      |
| 66          | 373.06          | 106.21       | Open To Flow (2)     |
| 96          | 847.64          | 108.35       | Shut-in (2)          |
| 156         | 1222.12         | 107.73       | End Shut-in (2)      |
| 158         | 1723.08         | 107.92       | Final Hydro-static   |

## Gas Rates

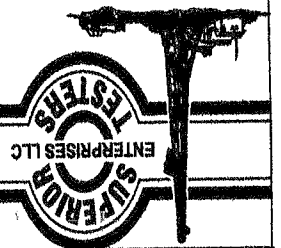
| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|----------------|-----------------|------------------|

## Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 1502.00     | SGW 5% GAS 95% WATER          | 21.07        |
| 60.00       | SGMW 5% GAS 10% MUD 85% WATER | 0.84         |
| 50.00       | SGM 5% GAS 95% MUD            | 0.70         |

TOOL DIAGRAM

DRILL STEM TEST REPORT



F.G. HOLL COMPANY L.L.C.

HISS #1-35

9431 E CENTRAL STE 100

35-19S-14W BARTON

WICHITA KS 67206

Job Ticket: 16714

DST#:9

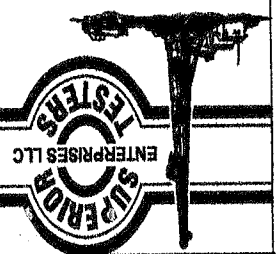
Test Start: 2008.09.07 @ 21:45:00

Tool Information

|                           |            |                        |               |             |         |           |                       |             |             |
|---------------------------|------------|------------------------|---------------|-------------|---------|-----------|-----------------------|-------------|-------------|
| Drill Pipe:               | Length:    | 3565.00 ft             | Diameter:     | 3.80 inches | Volume: | 50.01 bbl | Tool Weight:          | 2100.00 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:     | 2.25 inches | Volume: | 0.00 bbl  | Weight to Pull Loose: | 60000.00 lb |             |
| Tool Chased               |            |                        |               |             |         |           |                       |             |             |
| Drill Pipe Above KB:      | Length:    | 28.00 ft               | Total Volume: |             |         |           |                       |             | 50.01 bbl   |
| Depth to Top Packer:      | 3560.00 ft | String Weight: Initial |               |             |         |           |                       |             | 48000.00 lb |
| Depth to Bottom Packer:   | 3570.00 ft | Final                  |               |             |         |           |                       |             | 54000.00 lb |
| Interval between Packers: | 10.00 ft   |                        |               |             |         |           |                       |             |             |
| Tool Length:              | 168.00 ft  |                        |               |             |         |           |                       |             |             |
| Number of Packers:        | 2          | Diameter:              | 6.75 inches   |             |         |           |                       |             |             |
| Tool Comments:            |            |                        |               |             |         |           |                       |             |             |

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

|                    |       |         |        |                         |
|--------------------|-------|---------|--------|-------------------------|
| S.L. Tool          | 5.00  | 3542.00 |        |                         |
| Hydraulic Tool     | 5.00  | 3547.00 |        |                         |
| Jars               | 6.00  | 3553.00 |        |                         |
| Safety Joint       | 2.00  | 3555.00 |        |                         |
| Packer             | 5.00  | 3560.00 | 23.00  | Bottom Of Top Packer    |
| Perforations       | 9.00  | 3569.00 |        |                         |
| Blank Off Sub      | 1.00  | 3570.00 | 10.00  | Tool Interval           |
| Packer             | 5.00  | 3575.00 |        |                         |
| C.O. Sub           | 0.75  | 3575.75 |        |                         |
| Drill Pipe         | 94.50 | 3670.25 |        |                         |
| C.O. Sub           | 0.75  | 3671.00 |        |                         |
| Perforations       | 29.00 | 3700.00 |        |                         |
| Bullnose           | 5.00  | 3705.00 | 135.00 | Bottom Packers & Anchor |
| Total Tool Length: |       | 168.00  |        |                         |



# DRILL STEM TEST REPORT

FLUID SUMMARY

FISS #1-35  
35-19S-14W BARTON  
Job Ticket: 16714  
DST#: 9  
Test Start: 2008.09.07 @ 21:45:00  
WICHITA KS 67206  
ATTN: FRANK GREENBAUM  
9431 E CENTRAL STE 100  
F.G. HOLL COMPANY L.L.C.

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5500.00 ppm  
Filter Cake: inches  
Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia  
Oil API:  
Water Salinity: 25000 ppm  
deg API

## Recovery Information

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 1502.00      | SGW 5%GAS 95%WATER         | 21.069        |
| 60.00        | SGMW 5%GAS 10%MUD 85%WATER | 0.842         |
| 50.00        | SGM 5%GAS 95%MUD           | 0.701         |

Total Length: 1612.00 ft  
Total Volume: 22.612 bbl  
Num Fluid Samples: 10  
Laboratory Name:  
Laboratory Location:  
Num Gas Bombs: 0  
Serial #:  
Recovery Comments:

Serial #: 4800

F.G. HOLL COMPANY L.L.C.

35-19S-14W BARTON

DST Test Number: 9

# Pressure vs. Time

