

Griffith 1-3 (changed from Hampton)  
F.G. Hall Co

3-30s-14w (35s is wrong)  
15-007-22601

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-09-2004 Location 1650 FSL-2311 / FUL SE-NE-SW 5-30-14W 1959 KB Elevation 1950GL County Barber  
 Company F.G. Hall Company LLC Number of Copies 5  
 Charts Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-2543  
 Drilling Contractor Sterling Drilling Rig #4  
 Length Drill Pipe 1907 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X H  
 Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE  
 Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H  
 Top Packer Depth 2171 Bottom Packer Depth 2176 Number of Packers 2 Packer Size 6 3/4"  
 TESTED FROM 2176 TO 2250 ANCHOR LENGTH 74 TOTAL DEPTH 2250 Hole Size 2 7/8"  
 CASE & WELL NO. Hampton #13 FORMATION TESTED Hermitage K. DEE TEST NO. 1  
 Mud Weight 8.9 Viscosity 47 Water Loss 12.4 Chlorides - Pits 16000 D.S.T. \_\_\_\_\_  
 Maximum Temp. 80 °F Initial Hydrostatic Pressure (A) 1106 P.S.I. Final Hydrostatic Pressure (H) 1087 P.S.I.

Tool Open I.F.P. from 4:15 p.m. to 4:45 p.m. 30 min  
 Tool Closed I.C.I.P. from 4:45 p.m. to 5:45 p.m. 60 min  
 Tool Open F.F.P. from 5:45 p.m. to 6:15 p.m. 30 min  
 Tool Closed F.C.I.P. from 6:15 p.m. to 7:15 p.m. 60 min

|   |
|---|
| from [B] <u>96</u> P.S.I. to [C] <u>111</u> P.S.I.  |
| [D] <u>607</u> P.S.I.                               |
| from [E] <u>116</u> P.S.I. to [F] <u>122</u> P.S.I. |
| [G] <u>564</u> P.S.I.                               |

Initial Blow WEAK building blow built to 5 1/2 inches into the water  
 Final Blow WEAK blow built to 1 1/2 inches Decreased to a very weak surface blow  
 Total Feet Recovered 130 Gravity of Oil \_\_\_\_\_ Corrected

|  |       |       |       |         |
|--|-------|-------|-------|---------|
| <u>130</u> Feet of <u>Drilling Mud</u> | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |
| Feet of _____                          | % Gas | % Oil | % Mud | % Water |

Remarks \_\_\_\_\_

Extra Equipment - Jars 403 Safety Joint 105 Extra Packer none Straddle none Hook Wall none  
 Top Recorder No. 91716 Clock No. Electronic Depth 2243 Cir. Sub none Sampler none  
 Bottom Recorder No. 12208 Clock No. 47441 Depth 2247 Insurance none

Price of Job \_\_\_\_\_  
 Tool Operator Dave Sulig  
 Approved By \_\_\_\_\_

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

No 12468

**SUPERIOR TESTERS ENTERPRISES INC.**

**Great Bend, Kansas**

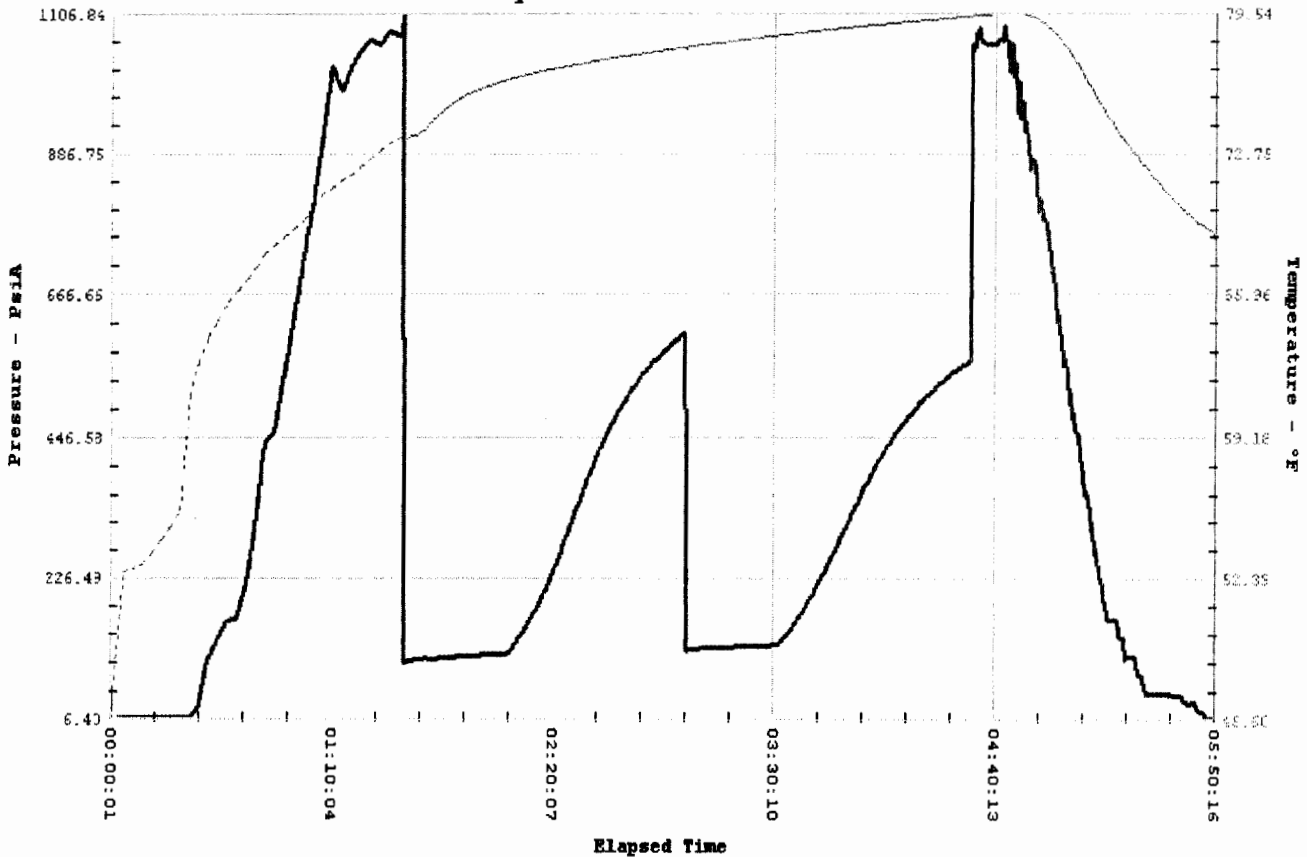
**CHART DATA**

**(316) 792-6902**

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 9, 2004  
 Sec Town Range ..... 3-30S-14W  
 Report Number ..... 12468

**Temperature / Pressure Data**



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 1106 |
| (2) | Initial Flow Pressure        | 96   |
| (3) | Final Initial Flow Pressure  | 111  |
| (4) | Initial Shut-In Pressure     | 607  |
| (5) | Initial Final Flow Pressure  | 116  |
| (6) | Final Flow Pressure          | 122  |
| (7) | Final Shut-In Pressure       | 564  |
| (8) | Final Hydrostatic Pressure   | 1087 |

**ELECTRONIC RECORDER DEPTH 2243 FT, RECORDER NUMBER 91716**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 1 Date: 02-09-2004 SEC. 3 TWP. 30S  
 RGE. 14W

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND, KANSAS 67530 (316)792-6902

**GENERAL INFORMATION**

|                              |                               |                                |                           |
|------------------------------|-------------------------------|--------------------------------|---------------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b>       |
| TEST DATE .....              | <b>2/9/2004</b>               | FORMATION TESTED .....         | <b>HERRINGTON -KRIDER</b> |
| SECTION-TOWN-RANGE .....     | <b>3-30S-14W</b>              | DRILL STEM TEST NUMBER .....   | <b>1</b>                  |
| STATE .....                  | <b>KANSAS</b>                 | REPORT NUMBER .....            | <b>12468</b>              |
| COUNTY .....                 | <b>BARBER</b>                 | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>               |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                   | TESTING ENGINEER .....         | <b>GENE BUDIG</b>         |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>               |                                |                           |

**TOOL SETTING INFORMATION**

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>2176</b> | TOP PACKER DEPTH .....    | <b>2171</b>  |
| TEST INTERVAL (to) .....   | <b>2250</b> | BOTTOM PACKER DEPTH ..... | <b>2176</b>  |
| ANCHOR LENGTH .....        | <b>74</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>2250</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) ..... **4:15**  
 TOOL OPEN (to) ..... **4:45**  
 DURATION (min.) ..... **30**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **4:45**  
 TOOL CLOSED (to) ..... **5:45**  
 DURATION (min.) ..... **60**

*FINAL OPEN*

TOOL OPEN (from) ..... **5:45**  
 TOOL OPEN (to) ..... **6:15**  
 DURATION (min.) ..... **30**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **6:15**  
 TOOL CLOSED (to) ..... **7:15**  
 DURATION (min.) ..... **60**

**PRESSURE READINGS**

INITIAL HYDROSTATIC ..... **1106**  
 INITIAL FLOW ..... **96**  
 FINAL INITIAL FLOW ..... **111**  
 INITIAL SHUT-IN ..... **607**  
 INITIAL FINAL FLOW ..... **116**  
 FINAL FLOW ..... **122**  
 FINAL SHUT-IN ..... **564**  
 FINAL HYDROSTATIC ..... **1087**

MAXIMUM TEMPERATURE ..... **80**

TOP RECORDER DEPTH ..... **2243**  
 RECORDER NUMBER ..... **91716**  
 BOTTOM RECORDER DEPTH ..... **2247**  
 RECORDER NUMBER ..... **13208**

**INITIAL BLOW**

**WEAK BUILDING BLOW BUILT TO 5 1/2 INCHES INTO THE WATER**

**FINAL BLOW**

**WEAK BLOW BUILT TO 1 1/2 INCHES INTO THE WATER AND DECREASED TO A VERY WEAK SURFACE BLOW**

**EXTRA EQUIPMENT**

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>YES</b> | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

**WELL INFORMATION**

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **1907**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL ..... **8.9**

VISCOSITY ..... **47**

WATER LOSS ..... **12**

CHLORIDES-PITS ..... **16000**

CHLORIDES-DST .....

| FEET OF RECOVERY | RECOVERY DESCRIPTION | % GAS | % OIL | % MUD | % WATER |
|------------------|----------------------|-------|-------|-------|---------|
| 1) <b>130</b>    | <b>DRILLING MUD</b>  |       |       |       |         |
| 2)               |                      |       |       |       |         |
| 3)               |                      |       |       |       |         |
| 4)               |                      |       |       |       |         |
| 5)               |                      |       |       |       |         |
| 6)               |                      |       |       |       |         |
| 7)               |                      |       |       |       |         |
| 8)               |                      |       |       |       |         |
| 9)               |                      |       |       |       |         |
| 10)              |                      |       |       |       |         |
| 11)              |                      |       |       |       |         |
| 12)              |                      |       |       |       |         |
| 13)              |                      |       |       |       |         |
| 14)              |                      |       |       |       |         |
| 15)              |                      |       |       |       |         |

TOTAL RECOVERY

**COMMENTS**

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-12-2004 Location SE-NE-SW 3-30-14<sup>W</sup> Elevation 1959 K.B. County BARBER

Company F.G. Hall Company, L.L.C. Number of Copies 5

Orders Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-2543

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 2746 I.D. Drill Pipe 4 1/2" X.H. Tool Joint Size 3.80

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3010 Bottom Packer Depth 3015 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3015 TO 3071 ANCHOR LENGTH 56 TOTAL DEPTH 3071 Hole Size 7 7/8"

EASE & WELL NO. Hampton #1-3 FORMATION TESTED LANSDOWN SAND TEST NO. 2

Mud Weight 8.8 Viscosity 45 Water Loss 9.4 Chlorides - Pits 5000 D.S.T. \_\_\_\_\_

Maximum Temp. 90 °F Initial Hydrostatic Pressure (A) 1492 P.S.I. Final Hydrostatic Pressure (H) 1432 P.S.I.

Tool Open I.F.P. from 6:30 AM to 6:45 AM 15 min

Tool Closed I.C.I.P. from 6:45 AM to 7:15 AM 30 min

Tool Open F.F.P. from 7:15 AM to 7:30 AM 15 min

Tool Closed F.C.I.P. from 7:30 AM to 8:00 AM 30 min

Initial Blow VERY WEAK SURFACE BLOW FOR 9 MINUTES & DIED

Final Blow NO BLOW

Total Feet Recovered 10 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

10 Feet of DRILLING MUD % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. YES 91714 Clock No. ELECTRONIC Depth 3067 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3068 Insurance NONE

Price of Job \_\_\_\_\_

Tool Operator Shane Budig

Approved By \_\_\_\_\_

No 12469

|   |
|---|
| from [B] <u>53</u> P.S.I. to [C] <u>58</u> P.S.I. |
| [D] <u>945</u> P.S.I.                             |
| from [E] <u>61</u> P.S.I. to [F] <u>65</u> P.S.I. |
| [G] <u>750</u> P.S.I.                             |

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

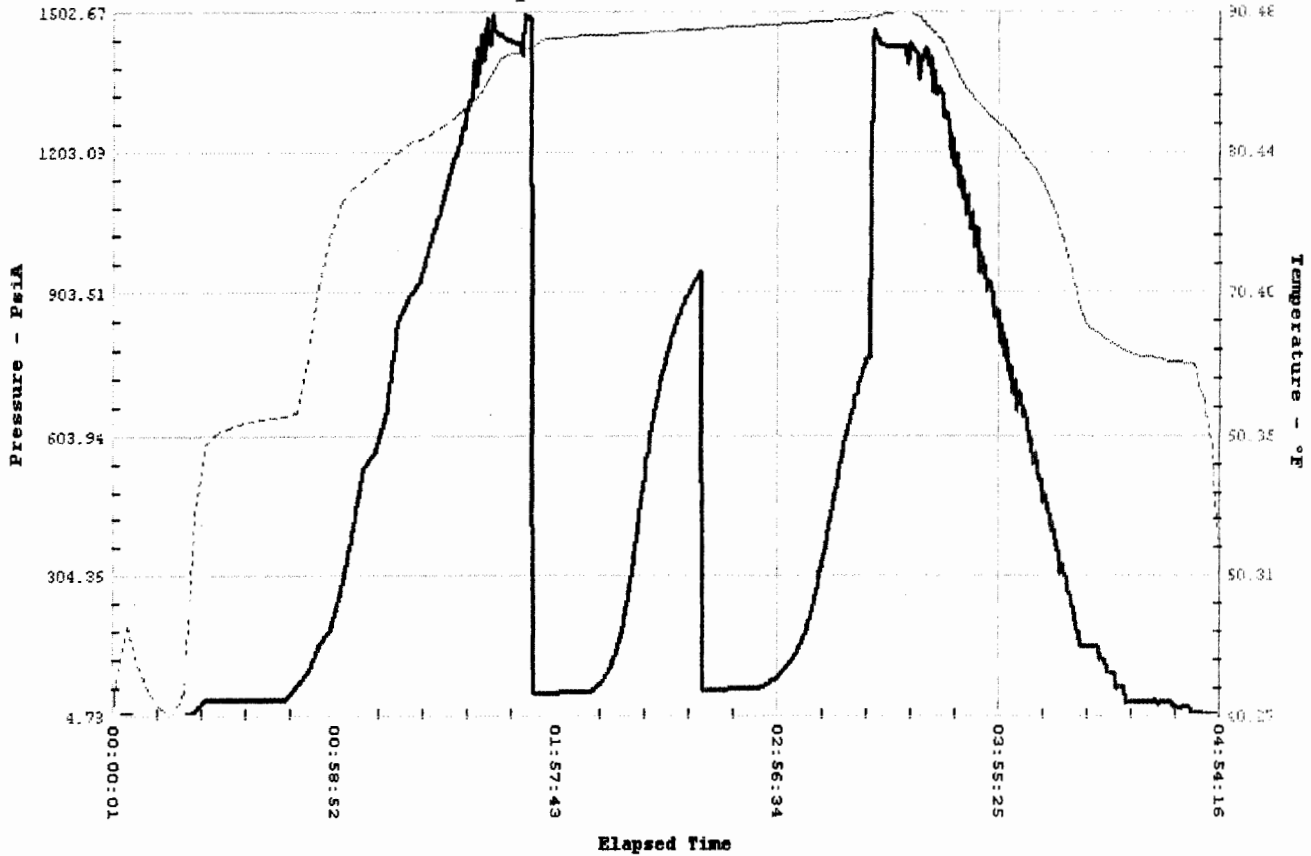
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 12, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12469

**Temperature / Pressure Data**



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 1492 |
| (2) | Initial Flow Pressure        | 53   |
| (3) | Final Initial Flow Pressure  | 58   |
| (4) | Initial Shut-In Pressure     | 945  |
| (5) | Initial Final Flow Pressure  | 61   |
| (6) | Final Flow Pressure          | 65   |
| (7) | Final Shut-In Pressure       | 750  |
| (8) | Final Hydrostatic Pressure   | 1432 |

**ELECTRONIC RECORDER DEPTH 3064 FT, RECORDER NUMBER 91716**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 2 Date: 02-12-2004 SEC. 3 TWP.  
 38S RGE. 14W 30S  
 Griffith

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|   |   |
|---|---|
| COMPANY NAME ..... <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER ..... <b>HAMPTON #1-3</b> |
| TEST DATE ..... <b>2/12/2004</b>                  | FORMATION TESTED ..... <b>LANGDON SAND</b>      |
| SECTION-TOWN-RANGE ..... <b>3-35S-14W</b>         | DRILL STEM TEST NUMBER ..... <b>2</b>           |
| STATE ..... <b>KANSAS</b>                         | REPORT NUMBER ..... <b>12469</b>                |
| COUNTY ..... <b>BARBER</b>                        | ELEVATION KELLY BUSHINGS ..... <b>1959</b>      |
| ELEVATION GROUND LEVEL ..... <b>1950</b>          | TESTING ENGINEER ..... <b>GENE BUDIG</b>        |
| COMPANY REPRESENTATIVE ..... <b>BILL REE</b>      |   |

### TOOL SETTING INFORMATION

|  |                                       |
|--|---------------------------------------|
| TEST INTERVAL (From) ..... <b>3015</b> | TOP PACKER DEPTH ..... <b>3010</b>    |
| TEST INTERVAL (to) ..... <b>3071</b>   | BOTTOM PACKER DEPTH ..... <b>3015</b> |
| ANCHOR LENGTH ..... <b>56</b>          | NUMBER OF PACKERS ..... <b>2</b>      |
| TOTAL DEPTH (ft) ..... <b>3071</b>     | PACKER SIZE ..... <b>6 3/4</b>        |
|  | HOLE SIZE ..... <b>7 7/8</b>          |

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... **6:30**  
 TOOL OPEN (to) ..... **6:45**  
 DURATION (min.) ..... **15**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **6:45**  
 TOOL CLOSED (to) ..... **7:15**  
 DURATION (min.) ..... **30**

*FINAL OPEN*

TOOL OPEN (from) ..... **7:15**  
 TOOL OPEN (to) ..... **7:30**  
 DURATION (min.) ..... **15**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **7:30**  
 TOOL CLOSED (to) ..... **8:00**  
 DURATION (min.) ..... **30**

### PRESSURE READINGS

INITIAL HYDROSTATIC ..... **1492**  
 INITIAL FLOW ..... **53**  
 FINAL INITIAL FLOW ..... **58**  
 INITIAL SHUT-IN ..... **945**  
 INITIAL FINAL FLOW ..... **61**  
 FINAL FLOW ..... **65**  
 FINAL SHUT-IN ..... **750**  
 FINAL HYDROSTATIC ..... **1432**

MAXIMUM TEMPERATURE ..... **90**

TOP RECORDER DEPTH ..... **3064**  
 RECORDER NUMBER ..... **91716**  
 BOTTOM RECORDER DEPTH ..... **3068**  
 RECORDER NUMBER ..... **13208**

INITIAL BLOW                    **VERY WEAK SURFACE BLOW FOR 9 MINUTES ANE DIED**

FINAL BLOW                    **NO BLOW**

### EXTRA EQUIPMENT

|                                      |                                    |
|--------------------------------------|------------------------------------|
| JARS ..... <b>YES</b>                | EXTRA PACKER (3RD) ..... <b>NO</b> |
| SAFETY JOINT ..... <b>YES</b>        | EXTRA PACKER (4TH) ..... <b>NO</b> |
| ELECTRONIC RECORDER ..... <b>YES</b> | STRADDLE ..... <b>NO</b>           |
| CIRCULATING SUB ..... <b>NO</b>      | HOOK WALL ..... <b>NO</b>          |
|                                      | SAMPLER ..... <b>NO</b>            |



# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-13-2004 Location SE-NE-SW 3-30<sup>S</sup>-14<sup>N</sup> Elevation 1959<sup>RH</sup> 66 County barber

Company F.G. Hall Company L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-2543

Drilling Contractor Steeling Drilling Rig #4

Length Drill Pipe 2965 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 11.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 11.

Top Packer Depth 3229 Bottom Packer Depth 3234 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3234 TO 3294 ANCHOR LENGTH 60 TOTAL DEPTH 3284 Hole Size 7 7/8"

LEASE & WELL NO. Hampton #1-3 FORMATION TESTED TARKIO TEST NO. 3

Mud Weight 9.0 Viscosity 41 Water Loss 12.8% Chlorides - Pits 12000 D.S.T.

Maximum Temp. 94 °F Initial Hydrostatic Pressure (A) 1638 P.S.I. Final Hydrostatic Pressure (H) 1556 P.S.I.

Tool Open I.F.P. from 6:15 am to 6:45 am 30 min

Tool Closed I.C.I.P. from 6:45 am to 7:45 am 60 min

Tool Open F.F.P. from 7:45 am to 8:15 am 30 min

Tool Closed F.C.I.P. from 8:15 am to 9:15 am 60 min

Initial Blow WEAK blow built to 5 1/2 inches & DECREASED to a WEAK intermittent blow

Final Blow WEAK blow for 7 minute DECREASED to a intermittent blow

Total Feet Recovered 130 Gravity of Oil \_\_\_\_\_ Corrected

130 Feet of MUD with a SLIGHT SHOW of oil % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 91716 Clock No. 220206 Depth 3290 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 42441 Depth 3291 Insurance NONE

Price of Job \_\_\_\_\_

Tool Operator Gene Busby

Approved By \_\_\_\_\_

No 12470

|   |
|---|
| from [B] <u>69</u> P.S.I. to [C] <u>103</u> P.S.I.  |
| [D] <u>205</u> P.S.I.                               |
| from [E] <u>127</u> P.S.I. to [F] <u>135</u> P.S.I. |
| [G] <u>185</u> P.S.I.                               |

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

**CHART DATA**

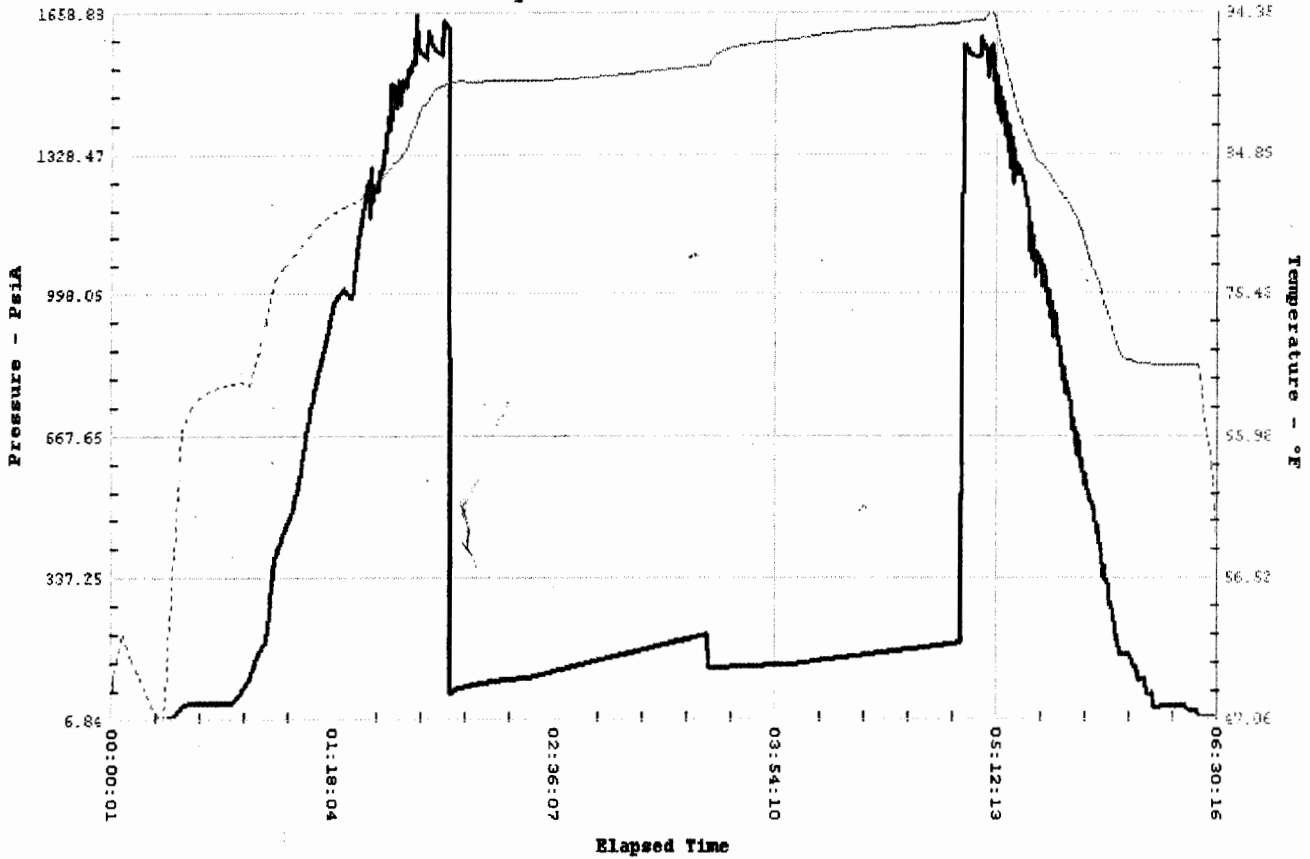
(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 13, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12470

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 3 Date: 02-13-2004 SEC. 2 TWP.  
 365 RGE. 14W 305  
 Griffith

**Temperature / Pressure Data**



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 1638 |
| (2) | Initial Flow Pressure        | 69   |
| (3) | Final Initial Flow Pressure  | 105  |
| (4) | Initial Shut-In Pressure     | 205  |
| (5) | Initial Final Flow Pressure  | 127  |
| (6) | Final Flow Pressure          | 135  |
| (7) | Final Shut-In Pressure       | 185  |
| (8) | Final Hydrostatic Pressure   | 1556 |

**ELECTRONIC RECORDER DEPTH 3287 FT, RECORDER NUMBER 91716**

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|   |   |
|---|---|
| COMPANY NAME ..... <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER ..... <b>HAMPTON #1-3</b> |
| TEST DATE ..... <b>2/13/2004</b>                  | FORMATION TESTED ..... <b>TARKIO</b>            |
| SECTION-TOWN-RANGE ..... <b>3-35S-14W</b>         | DRILL STEM TEST NUMBER ..... <b>3</b>           |
| STATE ..... <b>KANSAS</b>                         | REPORT NUMBER ..... <b>12470</b>                |
| COUNTY ..... <b>BARBER</b>                        | ELEVATION KELLY BUSHINGS ..... <b>1959</b>      |
| ELEVATION GROUND LEVEL ..... <b>1950</b>          | TESTING ENGINEER ..... <b>GENE BUDIG</b>        |
| COMPANY REPRESENTATIVE ..... <b>BILL REE</b>      |   |

### TOOL SETTING INFORMATION

|  |                                       |
|--|---------------------------------------|
| TEST INTERVAL (From) ..... <b>3234</b> | TOP PACKER DEPTH ..... <b>3229</b>    |
| TEST INTERVAL (to) ..... <b>3294</b>   | BOTTOM PACKER DEPTH ..... <b>3234</b> |
| ANCHOR LENGTH ..... <b>60</b>          | NUMBER OF PACKERS ..... <b>2</b>      |
| TOTAL DEPTH (ft) ..... <b>3294</b>     | PACKER SIZE ..... <b>6 3/4</b>        |
|  | HOLE SIZE ..... <b>7 7/8</b>          |

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... **6:15**  
 TOOL OPEN (to) ..... **6:45**  
 DURATION (min.) ..... **30**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **6:45**  
 TOOL CLOSED (to) ..... **7:45**  
 DURATION (min.) ..... **60**

*FINAL OPEN*

TOOL OPEN (from) ..... **7:45**  
 TOOL OPEN (to) ..... **8:15**  
 DURATION (min.) ..... **30**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **8:15**  
 TOOL CLOSED (to) ..... **9:15**  
 DURATION (min.) ..... **60**

### PRESSURE READINGS

INITIAL HYDROSTATIC ..... **1638**  
 INITIAL FLOW ..... **69**  
 FINAL INITIAL FLOW ..... **105**  
 INITIAL SHUT-IN ..... **205**  
 INITIAL FINAL FLOW ..... **127**  
 FINAL FLOW ..... **135**  
 FINAL SHUT-IN ..... **185**  
 FINAL HYDROSTATIC ..... **1556**

MAXIMUM TEMPERATURE ..... **94**

TOP RECORDER DEPTH ..... **3287**  
 RECORDER NUMBER ..... **91716**  
 BOTTOM RECORDER DEPTH ..... **3291**  
 RECORDER NUMBER ..... **13208**

### INITIAL BLOW

**WEAK BLOW BUILT TO 5 1/2 INCHES INTO THE WATER AND DECREASED TO A VERY WEAK INTERMITTANT BLOW**

### FINAL BLOW

**WEAK BLOW FOR 7 MINUTES AND DECREASED TO A VERY WEAK INTERMITTANT BLOW**

### EXTRA EQUIPMENT

|                                      |                                    |
|--------------------------------------|------------------------------------|
| JARS ..... <b>YES</b>                | EXTRA PACKER (3RD) ..... <b>NO</b> |
| SAFETY JOINT ..... <b>YES</b>        | EXTRA PACKER (4TH) ..... <b>NO</b> |
| ELECTRONIC RECORDER ..... <b>YES</b> | STRADDLE ..... <b>NO</b>           |
| CIRCULATING SUB ..... <b>NO</b>      | HOOK WALL ..... <b>NO</b>          |
|                                      | SAMPLER ..... <b>NO</b>            |



# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530  
(316) 792-6902

Date 02-15-2004 Location SE-NE-SW 3-38<sup>S</sup>-14<sup>W</sup> Elevation 1959<sup>KB</sup> 19.506L County Barber  
 Company F.G. Hall Company L.L.C. Number of Copies 5  
 Charts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543  
 Drilling Contractor Steeline Drilling Rig #4  
 Length Drill Pipe 3538 I.D. Drill Pipe 5.80 Tool Joint Size 4 1/2" X H  
 Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE  
 Length Drill Collars 242 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H  
 Top Packer Depth 3803 Bottom Packer Depth 3808 Number of Packers 12 Packer Size 6 3/4"  
 TESTED FROM 3808 TO 3836 ANCHOR LENGTH 28 TOTAL DEPTH 3836 Hole Size 2 7/8"  
 LEASE & WELL NO. Hampton #1-2 FORMATION TESTED Topeka TEST NO. 4  
 Mud Weight 9.3 Viscosity 63 Water Loss 10.7 Chlorides - Pits 5500 D.S.T. \_\_\_\_\_  
 Maximum Temp. 99 °F Initial Hydrostatic Pressure (A) 1867<sup>99</sup> P.S.I. Final Hydrostatic Pressure (H) 1867 P.S.I.

Tool Open I.F.P. from 12:30 pm to 12:45 pm 15 min  
 Tool Closed I.C.I.P. from 12:45 pm to 1:15 pm 30 min  
 Tool Open F.F.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min  
 Tool Closed F.C.I.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min

|   |
|---|
| from [B] <u>37</u> P.S.I. to [C] <u>31</u> P.S.I. |
| [D] _____ <u>102</u> P.S.I.                       |
| from [E] _____ P.S.I. to [F] _____ P.S.I.         |
| [G] _____ P.S.I.                                  |

Initial Blow Very weak blow died in 8 minutes  
 Final Blow NO blow

|                                       |   |
|---------------------------------------|---|
| Total Feet Recovered <u>10</u>        | Gravity of Oil _____ Corrected                    |
| <u>10</u> Feet of <u>Drilling Mud</u> | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____                   | % Gas _____ % Oil _____ % Mud _____ % Water _____ |

Remarks \_\_\_\_\_

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE  
 Top Recorder No. 91716 Clock No. Electronic Depth 3831 Cir. Sub NONE Sampler NONE  
 Bottom Recorder No. 4221 13208 Clock No. 42442 Depth 3832 Insurance NONE

Price of Job \_\_\_\_\_  
 Tool Operator Jane Studij  
 Approved By \_\_\_\_\_

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**NO 12471**

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

**CHART DATA**

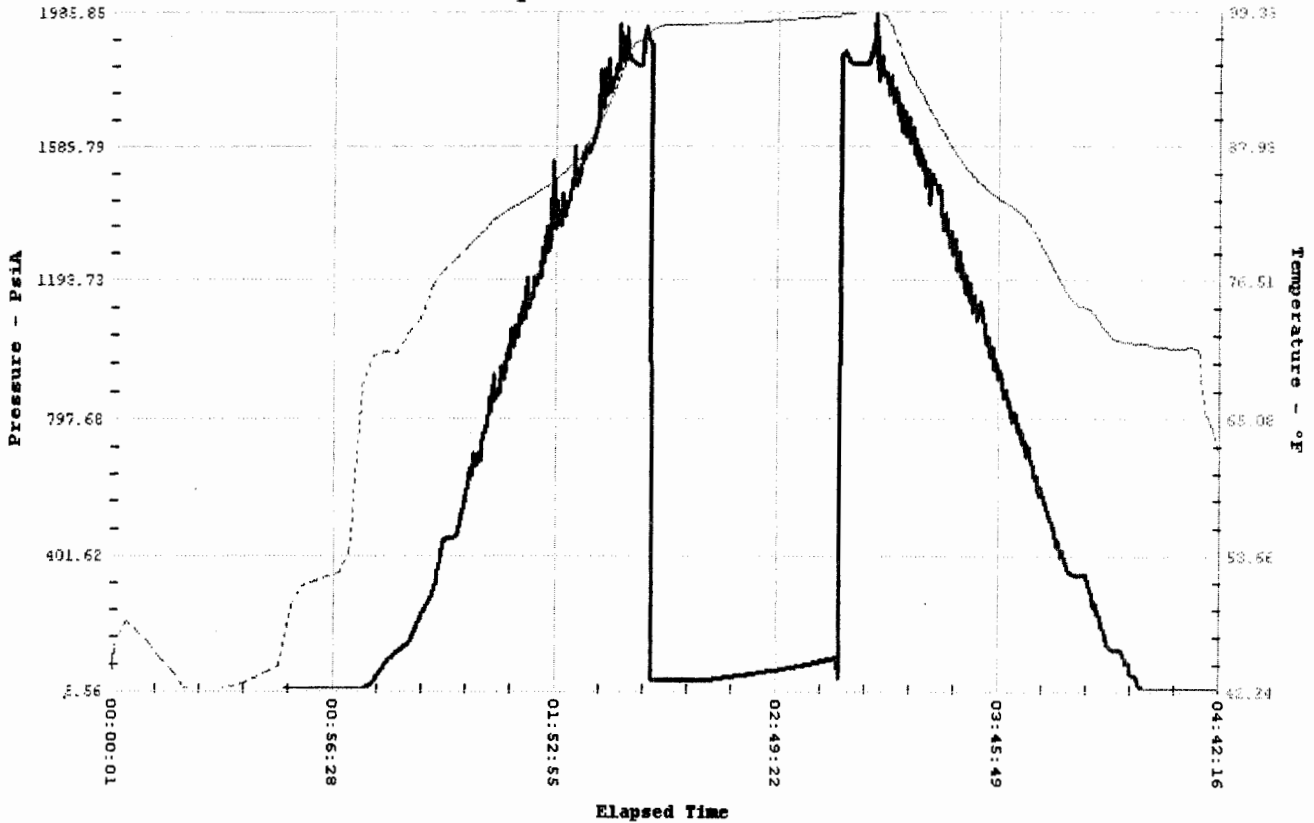
(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 15, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12471

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 4 Date: 01-15-2004 SEC. 3  
 TWP. 35S RGE. 14W 30 s. Griffitts

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 1899 |
| (2) | Initial Flow Pressure        | 37   |
| (3) | Final Initial Flow Pressure  | 39   |
| (4) | Initial Shut-In Pressure     | 102  |
| (5) | Initial Final Flow Pressure  |      |
| (6) | Final Flow Pressure          |      |
| (7) | Final Shut-In Pressure       |      |
| (8) | Final Hydrostatic Pressure   | 1867 |

**ELECTRONIC RECORDER DEPTH 3829 FT, RECORDER NUMBER 91716**

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND, KANSAS 67530 (316)792-6902

**GENERAL INFORMATION**

|                              |                                |                                |                   |
|------------------------------|--------------------------------|--------------------------------|-------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>TORONTO</b>    |
| TEST DATE .....              | <b>2/15/2004</b>               | FORMATION TESTED .....         | <b>TORONTO</b>    |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>               | DRILL STEM TEST NUMBER .....   | <b>4</b>          |
| STATE .....                  | <b>KANSAS</b>                  | REPORT NUMBER .....            | <b>12471</b>      |
| COUNTY .....                 | <b>BARBER</b>                  | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>       |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                    | TESTING ENGINEER .....         | <b>GENE BUDIG</b> |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>                |                                |                   |

**TOOL SETTING INFORMATION**

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>3808</b> | TOP PACKER DEPTH .....    | <b>3803</b>  |
| TEST INTERVAL (to) .....   | <b>3836</b> | BOTTOM PACKER DEPTH ..... | <b>3808</b>  |
| ANCHOR LENGTH .....        | <b>28</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>3836</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) ..... **12:30**  
 TOOL OPEN (to) ..... **12:45**  
 DURATION (min.) ..... **15**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **12:45**  
 TOOL CLOSED (to) ..... **1:15**  
 DURATION (min.) ..... **30**

*FINAL OPEN*

TOOL OPEN (from) ..... **1:15**  
 TOOL OPEN (to) .....  
 DURATION (min.) .....  
*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **0:00**  
 TOOL CLOSED (to) .....  
 DURATION (min.) .....

**PRESSURE READINGS**

INITIAL HYDROSTATIC ..... **1899**  
 INITIAL FLOW ..... **37**  
 FINAL INITIAL FLOW ..... **39**  
 INITIAL SHUT-IN ..... **102**  
 INITIAL FINAL FLOW .....  
 FINAL FLOW .....  
 FINAL SHUT-IN .....  
 FINAL HYDROSTATIC ..... **1867**

MAXIMUM TEMPERATURE ..... **99**

TOP RECORDER DEPTH ..... **3829**  
 RECORDER NUMBER ..... **91716**  
 BOTTOM RECORDER DEPTH ..... **3833**  
 RECORDER NUMBER ..... **13208**

INITIAL BLOW                      **VERY WEAK BLOW DIED IN 8 MINUTES**

FINAL BLOW                        **NO BLOW**

**EXTRA EQUIPMENT**

|                           |           |                          |           |
|---------------------------|-----------|--------------------------|-----------|
| JARS .....                | <b>NO</b> | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>NO</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>NO</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b> | HOOK WALL .....          | <b>NO</b> |
|                           |           | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

**WELL INFORMATION**

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **3538**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL ..... **9.3**

VISCOSITY ..... **63**

WATER LOSS ..... **10.4**

CHLORIDES-PITS ..... **5500**

CHLORIDES-DST .....

|     | FEET OF RECOVERY | RECOVERY DECIPTION  | % GAS | % OIL | % MUD | % WATER |
|-----|------------------|---------------------|-------|-------|-------|---------|
| 1)  | <b>10</b>        | <b>DRILLING MUD</b> |       |       |       |         |
| 2)  |                  |                     |       |       |       |         |
| 3)  |                  |                     |       |       |       |         |
| 4)  |                  |                     |       |       |       |         |
| 5)  |                  |                     |       |       |       |         |
| 6)  |                  |                     |       |       |       |         |
| 7)  |                  |                     |       |       |       |         |
| 8)  |                  |                     |       |       |       |         |
| 9)  |                  |                     |       |       |       |         |
| 10) |                  |                     |       |       |       |         |
| 11) |                  |                     |       |       |       |         |
| 12) |                  |                     |       |       |       |         |
| 13) |                  |                     |       |       |       |         |
| 14) |                  |                     |       |       |       |         |
| 15) |                  |                     |       |       |       |         |

TOTAL RECOVERY

**COMMENTS**

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

2-16-2004 Location SE-NE-SW 3-35-14<sup>W</sup> Elevation 1959 KB 195066 County Labee

F.G. Hall Company LLC Number of Copies 5

Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543

Contractor Sterling Drilling Rig #4

Drill Pipe 3565 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Core Depth 3829 Bottom Packer Depth 3834 Number of Packers 2 Packer Size 6 3/4"

FROM 3834 TO 3875 ANCHOR LENGTH 41 TOTAL DEPTH 3875 Hole Size 2 1/8"

Well No. Hampton # 1-3 FORMATION TESTED Douglas TEST NO. 5

Weight 9.9 Viscosity 45 Water Loss 10.4 Chlorides - Pits 7000 D.S.T. \_\_\_\_\_

Temp. 99 °F Initial Hydrostatic Pressure (A) 1889 P.S.I. Final Hydrostatic Pressure (H) 1888 P.S.I.

Open I.F.P. from 5:15 a.m. to 5:30 a.m. 15 min

Sealed I.C.I.P. from 5:30 a.m. to 6:00 a.m. 30 min

Open F.F.P. from 6:00 a.m. to 6:15 a.m. 15 min

Sealed F.C.I.P. from 6:15 a.m. to 6:45 a.m. 30 min

|   |
|---|
| from [B] <u>75</u> P.S.I. to [C] <u>80</u> P.S.I. |
| [D] <u>1199</u> P.S.I.                            |
| from [E] <u>76</u> P.S.I. to [F] <u>90</u> P.S.I. |
| [G] <u>1180</u> P.S.I.                            |

Flow WEAK blow for 8 minutes DECREASED to a intermittent blow

Flow NO blow

Material Recovered 70 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

|                             |             |             |             |               |
|-----------------------------|-------------|-------------|-------------|---------------|
| Feet of <u>Drilling Mud</u> | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| Feet of _____               | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |

Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Order No. 91716 Clock No. ELECTRONIC Depth 3871 Cir. Sub NONE Sampler NONE

Recorder No. 17208 Clock No. \_\_\_\_\_ Depth 3872 Insurance NONE

Job \_\_\_\_\_  
 Operator Gene Budwig  
 By \_\_\_\_\_

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

12472

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

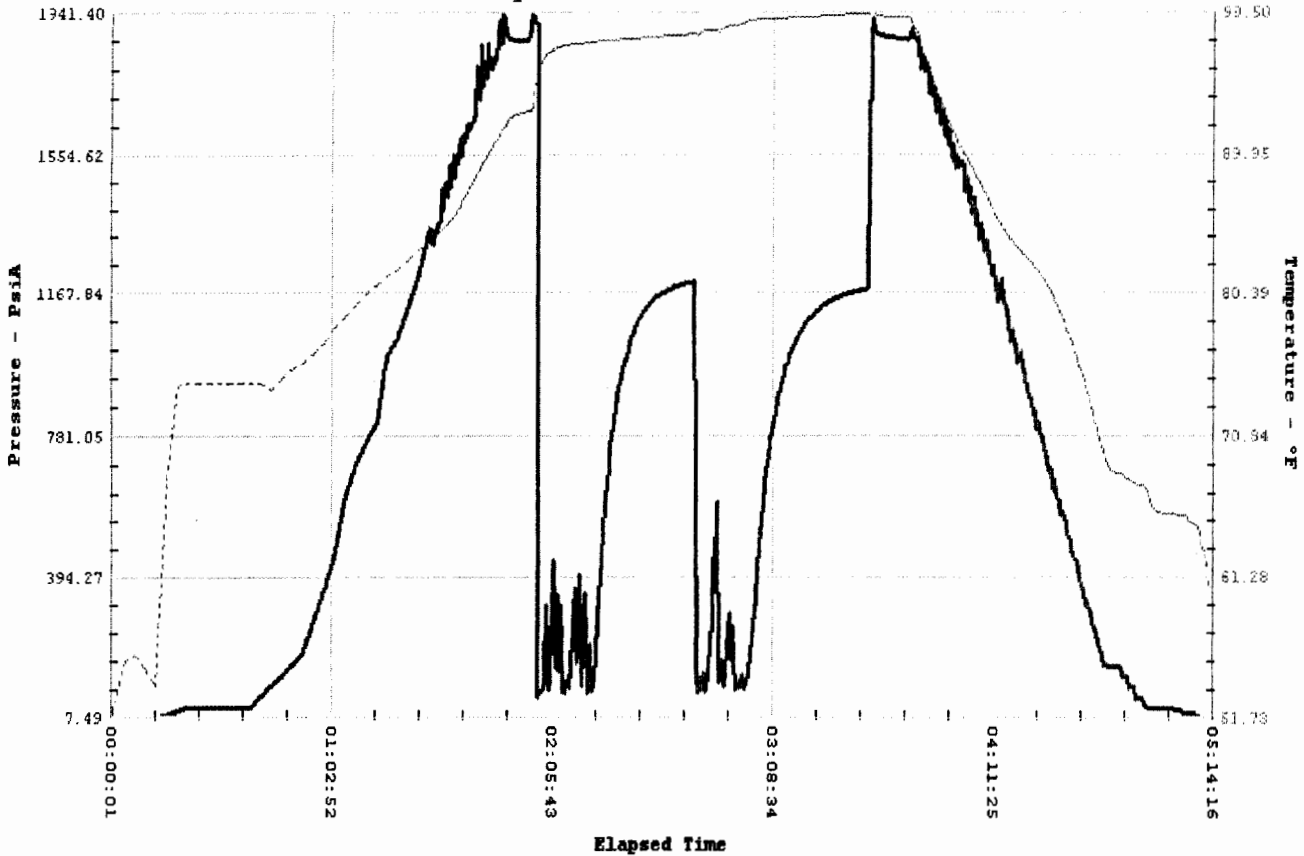
CHART DATA

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 16, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12472

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 1908 |
| (2) | Initial Flow Pressure        | 75   |
| (3) | Final Initial Flow Pressure  | 80   |
| (4) | Initial Shut-In Pressure     | 1199 |
| (5) | Initial Final Flow Pressure  | 76   |
| (6) | Final Flow Pressure          | 90   |
| (7) | Final Shut-In Pressure       | 1180 |
| (8) | Final Hydrostatic Pressure   | 1888 |

**ELECTRONIC RECORDER DEPTH 3868 FT, RECORDER NUMBER 80507**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 5 Date: 02-16-2004 SEC. 3 TWP.  
 35S RGE. 14W 30S. Griffith

# SUPERIOR TESTERS ENTERPRISES INC. DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

## GENERAL INFORMATION

|                              |                                |                                |                     |
|------------------------------|--------------------------------|--------------------------------|---------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b> |
| TEST DATE .....              | <b>2/16/2004</b>               | FORMATION TESTED .....         | <b>DOUGLAS</b>      |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>               | DRILL STEM TEST NUMBER .....   | <b>5</b>            |
| STATE .....                  | <b>KANSAS</b>                  | REPORT NUMBER .....            | <b>12472</b>        |
| COUNTY .....                 | <b>BARBER</b>                  | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>         |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                    | TESTING ENGINEER .....         | <b>GENE BUDIG</b>   |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>                |                                |                     |

## TOOL SETTING INFORMATION

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>3834</b> | TOP PACKER DEPTH .....    | <b>3829</b>  |
| TEST INTERVAL (to) .....   | <b>3875</b> | BOTTOM PACKER DEPTH ..... | <b>3834</b>  |
| ANCHOR LENGTH .....        | <b>41</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>3875</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

## FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... **5:15**  
 TOOL OPEN (to) ..... **5:30**  
 DURATION (min.) ..... **15**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **5:30**  
 TOOL CLOSED (to) ..... **6:00**  
 DURATION (min.) ..... **30**

*FINAL OPEN*

TOOL OPEN (from) ..... **6:00**  
 TOOL OPEN (to) ..... **6:15**  
 DURATION (min.) ..... **15**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **6:15**  
 TOOL CLOSED (to) ..... **6:45**  
 DURATION (min.) ..... **30**

## PRESSURE READINGS

INITIAL HYDROSTATIC ..... **1908**  
 INITIAL FLOW ..... **75**  
 FINAL INITIAL FLOW ..... **80**  
 INITIAL SHUT-IN ..... **1199**  
 INITIAL FINAL FLOW ..... **76**  
 FINAL FLOW ..... **90**  
 FINAL SHUT-IN ..... **1180**  
 FINAL HYDROSTATIC ..... **1888**

MAXIMUM TEMPERATURE ..... **99**

TOP RECORDER DEPTH ..... **3868**  
 RECORDER NUMBER ..... **80507**  
 BOTTOM RECORDER DEPTH ..... **3872**  
 RECORDER NUMBER ..... **13208**

## INITIAL BLOW

**WEAK BLOW FOR 8 MINUTES DECREASED TO A VERY WEAK INTERMITTANT BLOW**

## FINAL BLOW

**NO BLOW**

## EXTRA EQUIPMENT

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>YES</b> | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **3565**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #GAL ..... **9**

VISCOSITY ..... **45**

WATER LOSS ..... **10.4**

CHLORIDES-PITS ..... **7000**

CHLORIDES-DST .....

|     | FEET OF RECOVERY | RECOVERY DESCRIPTION | % GAS | % OIL | % MUD | % WATER |
|-----|------------------|----------------------|-------|-------|-------|---------|
| 1)  | <b>70</b>        | <b>DRILLING MUD</b>  |       |       |       |         |
| 2)  |                  |                      |       |       |       |         |
| 3)  |                  |                      |       |       |       |         |
| 4)  |                  |                      |       |       |       |         |
| 5)  |                  |                      |       |       |       |         |
| 6)  |                  |                      |       |       |       |         |
| 7)  |                  |                      |       |       |       |         |
| 8)  |                  |                      |       |       |       |         |
| 9)  |                  |                      |       |       |       |         |
| 10) |                  |                      |       |       |       |         |
| 11) |                  |                      |       |       |       |         |
| 12) |                  |                      |       |       |       |         |
| 13) |                  |                      |       |       |       |         |
| 14) |                  |                      |       |       |       |         |
| 15) |                  |                      |       |       |       |         |

**TOTAL RECOVERY**

### COMMENTS

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-18-2004 Location SE-NE-SW 3-35-14<sup>N</sup> Elevation 1959<sup>KB</sup> 61 County Barber

Company F.G. Hall Company L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543

Drilling Contractor Steelink Drilling Rig #4

Length Drill Pipe 3901 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" x 6

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" x 4

Top Packer Depth 4165 Bottom Packer Depth 4170 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4170 TO 4190 ANCHOR LENGTH 20 TOTAL DEPTH 4190 Hole Size 2 7/8"

EASE & WELL NO. HAMPTON #1-3 FORMATION TESTED Kansas City "H" TEST NO. 6

Mud Weight 9.1 Viscosity 49 Water Loss 9.4 Chlorides - Pits 10000 D.S.T. \_\_\_\_\_

Maximum Temp. 104 °F Initial Hydrostatic Pressure (A) 2065 P.S.I. Final Hydrostatic Pressure (H) 2040 P.S.I.

Tool Open I.F.P. from 5:30 A.m to 6:00 A.m 30 min

from [B] 52 P.S.I. to [C] 59 P.S.I.

Tool Closed I.C.I.P. from 6:00 A.m to 7:00 A.m 60 min

[D] 1473 P.S.I.

Tool Open F.F.P. from 7:00 A.m to 7:45 A.m 45 min

from [E] 42 P.S.I. to [F] 46 P.S.I.

Tool Closed F.C.I.P. from 7:45 m to 9:15 m 90 min

[G] 1379 P.S.I.

Initial Blow Strong blow with Gas to Surface in 12 minutes

Final Blow Strong blow - SEE Gas flow Report

Total Feet Recovered 60 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

|                   |  |       |       |       |         |
|-------------------|--|-------|-------|-------|---------|
| <u>60</u> Feet of | <u>Gassy mud with a slight show of oil</u> | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     | <u>Between the tools</u>                   | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |
| _____ Feet of     |  | % Gas | % Oil | % Mud | % Water |

Remarks \_\_\_\_\_

Extra Equipment - Jars NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 91716 Clock No. Electronic Depth 4186 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 4187 Insurance NONE

Price of Job \_\_\_\_\_

Tool Operator Gene Ludwig

Approved By \_\_\_\_\_

No. 12473

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

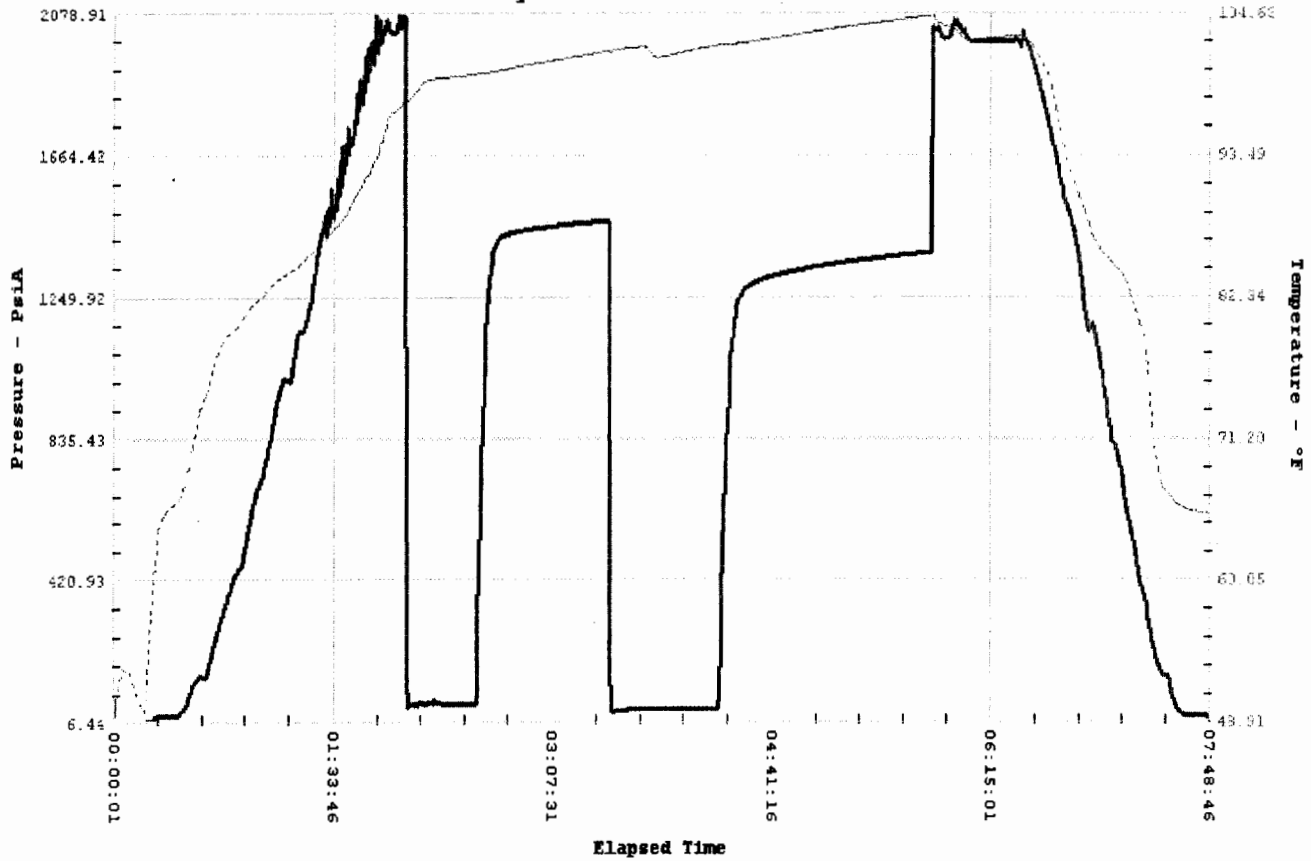
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
County ..... BARBER  
Field .....

Test Date ..... February 18, 2004  
Sec Town Range ..... 3-35S-14W  
Report Number ..... 12473

**Temperature / Pressure Data**



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2065 |
| (2) | Initial Flow Pressure        | 52   |
| (3) | Final Initial Flow Pressure  | 55   |
| (4) | Initial Shut-In Pressure     | 1473 |
| (5) | Initial Final Flow Pressure  | 42   |
| (6) | Final Flow Pressure          | 46   |
| (7) | Final Shut-In Pressure       | 1379 |
| (8) | Final Hydrostatic Pressure   | 2040 |

**ELECTRONIC RECORDER DEPTH 4183 FT, RECORDER NUMBER 91716**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 6 Date: 02-18-2004 SEC. 3 TWP.  
3XS RGE. 14W 30S  
Griffith

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND ,KANSAS 67530 (316)792-6902

**GENERAL INFORMATION**

|                              |                               |                                |                        |
|------------------------------|-------------------------------|--------------------------------|------------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b>    |
| TEST DATE .....              | <b>2/18/2004</b>              | FORMATION TESTED .....         | <b>KANSAS CITY "H"</b> |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>              | DRILL STEM TEST NUMBER .....   | <b>6</b>               |
| STATE .....                  | <b>KANSAS</b>                 | REPORT NUMBER .....            | <b>12473</b>           |
| COUNTY .....                 | <b>BARBER</b>                 | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>            |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                   | TESTING ENGINEER .....         | <b>GENE BUDIG</b>      |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>               |                                |                        |

**TOOL SETTING INFORMATION**

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>4170</b> | TOP PACKER DEPTH .....    | <b>4165</b>  |
| TEST INTERVAL (to) .....   | <b>4190</b> | BOTTOM PACKER DEPTH ..... | <b>4170</b>  |
| ANCHOR LENGTH .....        | <b>20</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>4190</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

*FINAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*FINAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

**PRESSURE READINGS**

INITIAL HYDROSTATIC .....

INITIAL FLOW .....

FINAL INITIAL FLOW .....

INITIAL SHUT-IN .....

INITIAL FINAL FLOW .....

FINAL FLOW .....

FINAL SHUT-IN .....

FINAL HYDROSTATIC .....

MAXIMUM TEMPERATURE .....

TOP RECORDER DEPTH .....

RECORDER NUMBER .....

BOTTOM RECORDER DEPTH .....

RECORDER NUMBER .....

**INITIAL BLOW                      STRONG BLOW WITH GAS TO SURFACE IN 12 MINUTES**

**FINAL BLOW                      STRONG BLOW-SEE GAS FLOW REPORT**

**EXTRA EQUIPMENT**

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>NO</b>  | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **3901**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #GAL ..... **9.1**

VISCOSITY ..... **49**

WATER LOSS ..... **9.6**

CHLORIDES-PITS ..... **10000**

CHLORIDES-DST .....

| FEET OF RECOVERY |           | RECOVERY DESCRIPTION   | % GAS | % OIL | % MUD | % WATER |
|------------------|-----------|--|-------|-------|-------|---------|
| 1)               | <b>60</b> | <b>GASSY MUD WITH A SLIGHT SHOW OF OIL BETWEEN THE TOOLS</b> |       |       |       |         |
| 2)               |           |  |       |       |       |         |
| 3)               |           |  |       |       |       |         |
| 4)               |           |  |       |       |       |         |
| 5)               |           |  |       |       |       |         |
| 6)               |           |  |       |       |       |         |
| 7)               |           |  |       |       |       |         |
| 8)               |           |  |       |       |       |         |
| 9)               |           |  |       |       |       |         |
| 10)              |           |  |       |       |       |         |
| 11)              |           |  |       |       |       |         |
| 12)              |           |  |       |       |       |         |
| 13)              |           |  |       |       |       |         |
| 14)              |           |  |       |       |       |         |
| 15)              |           |  |       |       |       |         |

TOTAL RECOVERY

### COMMENTS

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

|             |        |                      |           |
|-------------|--------|----------------------|-----------|
| STATE.....  | KANSAS | Test Date .....      | #####     |
| COUNTY..... | BARBER | Sec Town Range ..... | 3-35S-14W |
| FIELD.....  |        | Report Number .....  | 12473     |

## Initial Flow

| Comments                            | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Office Tester | PSI on<br>Office Tester | PSI on<br>Pitot Tube | Choke<br>Size (In) | Gas Rate<br>(MCF/Day) |
|-------------------------------------|--------------------|--------------------|-----------------------------|-------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED                         | 5:45               | 15                 | 16                          |                         |                      | 3/4                | 58.800                |
| AT 5:30 WITH                        | 5:50               | 20                 | 16                          |                         |                      | 3/4                | 58.800                |
| GAS TO                              | 6:00               | 30                 | 16                          |                         |                      | 3/4                | 58.800                |
| SURFACE IN<br>12 MINUTES AT<br>5:42 |                    |                    |                             |                         |                      |                    |                       |

## Final Flow

| Comments       | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Office Tester | PSI on<br>Office Tester | PSI on<br>Pitot Tube | Choke<br>Size (In) | Gas Rate<br>(MCF/Day) |
|----------------|--------------------|--------------------|-----------------------------|-------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED AT | 7:10               | 10                 | 16                          |                         |                      | 3/4                | 58.800                |
| 7:00           | 7:20               | 20                 | 16                          |                         |                      | 3/4                | 58.800                |
|                | 7:30               | 30                 | 16                          |                         |                      | 3/4                | 58.800                |
|                | 7:40               | 40                 | 16                          |                         |                      | 3/4                | 58.800                |
|                | 7:45               | 45                 | 16                          |                         |                      | 3/4                | 58.800                |

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530  
(316) 792-6902

Date 02-19-2004 Location SE-NW-SW 3-35-14<sup>N</sup> Elevation 1959KB. 1950GL County BARBER  
 Company F.G. Hall Company LLC Number of Copies 5  
 Parts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543  
 Drilling Contractor Sterling Drilling Rig #4  
 Length Drill Pipe 4073 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.  
 Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE  
 Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.  
 Top Packer Depth 4337 Bottom Packer Depth 4342 Number of Packers 2 Packer Size 6 3/4"  
 TESTED FROM 4342 TO 4368 ANCHOR LENGTH 4826 TOTAL DEPTH 4368 Hole Size 7 7/8"  
 CASE & WELL NO. Hampton #1-3 FORMATION TESTED KANSAS CITY 47M TEST NO. 7  
 Mud Weight 9.4 Viscosity 43 Water Loss 0.8 Chlorides - Pits 5500 D.S.T. 36000  
 Maximum Temp. 109 °F Initial Hydrostatic Pressure (A) 2089 P.S.I. Final Hydrostatic Pressure (H) 2073 P.S.I.

Tool Open I.F.P. from 11:45 A.M. to 11:45 A.M. 30 min  
 Tool Closed I.C.I.P. from 12:45 P.M. to 12:45 P.M. 60 min  
 Tool Open F.F.P. from 1:45 P.M. to 2:45 P.M. 60 min  
 Tool Closed F.C.I.P. from 2:45 P.M. to 3:15 P.M. 90 min

|   |
|---|
| from [B] <u>58</u> P.S.I. to [C] <u>68</u> P.S.I. |
| [D] <u>1501</u> P.S.I.                            |
| from [E] <u>51</u> P.S.I. to [F] <u>85</u> P.S.I. |
| [G] <u>1477</u> P.S.I.                            |

Initial Blow Strong blow - Gas to Surface in 23 minutes  
 Final Blow Strong blow - See Gas Flow Report

|  |                      |                                       |
|--|----------------------|---------------------------------------|
| Initial Feet Recovered _____                               | Gravity of Oil _____ | Corrected _____                       |
| <u>20</u> Feet of <u>Gassy mud</u>                         | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| <u>60</u> Feet of <u>Gassy muddy water chlorides 36000</u> | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |
| _____ Feet of _____  | % Gas _____          | % Oil _____ % Mud _____ % Water _____ |

Remarks \_\_\_\_\_

Extra Equipment - Jars NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE  
 Top Recorder No. 91716 Clock No. Electronics Depth 4364 Cir. Sub NONE Sampler NONE  
 Bottom Recorder No. 13204 Clock No. 41441 Depth 4365 Insurance NONE

Price of Job \_\_\_\_\_  
 Tool Operator \_\_\_\_\_  
 Approved By \_\_\_\_\_

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No 12474

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

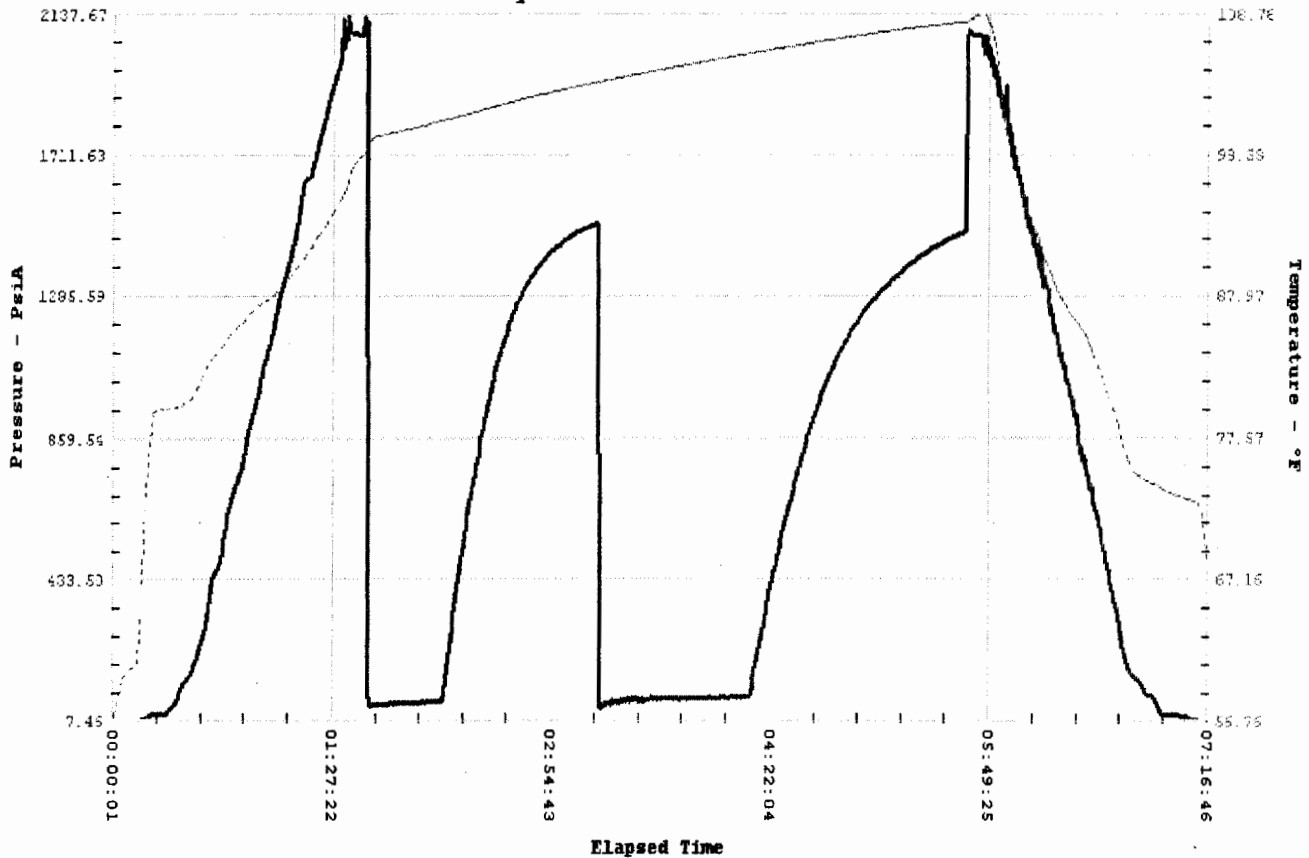
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 19, 2004  
 Sec Town Range ..... 03-35S-14W  
 Report Number ..... 12474

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2089 |
| (2) | Initial Flow Pressure        | 58   |
| (3) | Final Initial Flow Pressure  | 68   |
| (4) | Initial Shut-In Pressure     | 1501 |
| (5) | Initial Final Flow Pressure  | 51   |
| (6) | Final Flow Pressure          | 85   |
| (7) | Final Shut-In Pressure       | 1477 |
| (8) | Final Hydrostatic Pressure   | 2073 |

**ELECTRONIC RECORDER DEPTH 4361 FT, RECORDER NUMBER 91716**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3  
 35S RGE. 14W 30s. GRIFFIN  
 Test #: 7 Date: 02-19-2004 SEC. 3 TWP.

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|                              |                                |                                |                        |
|------------------------------|--------------------------------|--------------------------------|------------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b>    |
| TEST DATE .....              | <b>2/19/2004</b>               | FORMATION TESTED .....         | <b>KANSAS CITY "M"</b> |
| SECTION-TOWN-RANGE .....     | <b>03-35S-14W</b>              | DRILL STEM TEST NUMBER .....   | <b>7</b>               |
| STATE .....                  | <b>KANSAS</b>                  | REPORT NUMBER .....            | <b>12474</b>           |
| COUNTY .....                 | <b>BARBER</b>                  | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>            |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                    | TESTING ENGINEER .....         | <b>GENE BUDIG</b>      |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>                |                                |                        |

### TOOL SETTING INFORMATION

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>4342</b> | TOP PACKER DEPTH .....    | <b>4337</b>  |
| TEST INTERVAL (to) .....   | <b>4368</b> | BOTTOM PACKER DEPTH ..... | <b>4342</b>  |
| ANCHOR LENGTH .....        | <b>26</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>4368</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

### FLOW TIMES

*INITIAL OPEN*

|                        |              |
|------------------------|--------------|
| TOOL OPEN (from) ..... | <b>11:45</b> |
| TOOL OPEN (to) .....   | <b>12:15</b> |
| DURATION (min.) .....  | <b>30</b>    |

*INITIAL SHUT-IN*

|                          |              |
|--------------------------|--------------|
| TOOL CLOSED (from) ..... | <b>12:15</b> |
| TOOL CLOSED (to) .....   | <b>1:15</b>  |
| DURATION (min.) .....    | <b>60</b>    |

*FINAL OPEN*

|                        |             |
|------------------------|-------------|
| TOOL OPEN (from) ..... | <b>1:15</b> |
| TOOL OPEN (to) .....   | <b>2:15</b> |
| DURATION (min.) .....  | <b>60</b>   |

*FINAL SHUT-IN*

|                          |             |
|--------------------------|-------------|
| TOOL CLOSED (from) ..... | <b>2:15</b> |
| TOOL CLOSED (to) .....   | <b>3:45</b> |
| DURATION (min.) .....    | <b>90</b>   |

### PRESSURE READINGS

|                             |              |
|-----------------------------|--------------|
| INITIAL HYDROSTATIC .....   | <b>2089</b>  |
| INITIAL FLOW .....          | <b>58</b>    |
| FINAL INITIAL FLOW .....    | <b>68</b>    |
| INITIAL SHUT-IN .....       | <b>1501</b>  |
| INITIAL FINAL FLOW .....    | <b>51</b>    |
| FINAL FLOW .....            | <b>85</b>    |
| FINAL SHUT-IN .....         | <b>1477</b>  |
| FINAL HYDROSTATIC .....     | <b>2073</b>  |
| MAXIMUM TEMPERATURE .....   | <b>109</b>   |
| TOP RECORDER DEPTH .....    | <b>4361</b>  |
| RECORDER NUMBER .....       | <b>91716</b> |
| BOTTOM RECORDER DEPTH ..... | <b>4365</b>  |
| RECORDER NUMBER .....       | <b>13208</b> |

### INITIAL BLOW

**STRONG BLOW WITH GAS TO SURFACE IN 23 MINUTES**

### FINAL BLOW

**STRONG BLOW- SEE GAS FLOW REPORT**

### EXTRA EQUIPMENT

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>NO</b>  | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **4073**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL ..... **9.1**

VISCOSITY ..... **43**

WATER LOSS ..... **8.8**

CHLORIDES-PITS ..... **5500**

CHLORIDES-DST .....

| FEET OF RECOVERY |     | RECOVERY DECIPTION                | % GAS | % OIL | % MUD | % WATER |
|------------------|-----|-----------------------------------|-------|-------|-------|---------|
| 1)               | 120 | GASSY MUD                         |       |       |       |         |
| 2)               | 60  | MUDDY GASSY WATER CHLORIDES 36000 |       |       |       |         |
| 3)               |     |                                   |       |       |       |         |
| 4)               |     |                                   |       |       |       |         |
| 5)               |     |                                   |       |       |       |         |
| 6)               |     |                                   |       |       |       |         |
| 7)               |     |                                   |       |       |       |         |
| 8)               |     |                                   |       |       |       |         |
| 9)               |     |                                   |       |       |       |         |
| 10)              |     |                                   |       |       |       |         |
| 11)              |     |                                   |       |       |       |         |
| 12)              |     |                                   |       |       |       |         |
| 13)              |     |                                   |       |       |       |         |
| 14)              |     |                                   |       |       |       |         |
| 15)              |     |                                   |       |       |       |         |

TOTAL RECOVERY

### COMMENTS

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

|             |        |                      |            |
|-------------|--------|----------------------|------------|
| STATE.....  | KANSAS | Test Date .....      | #####      |
| COUNTY..... | BARBER | Sec Town Range ..... | 03-35S-14W |
| FIELD.....  |        | Report Number .....  | 12474      |

## Initial Flow

| Comments  | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Orifice Tester | PSI on<br>Orifice Tester | PSI on<br>Pitot Tube | Choke<br>Size (In) | Gas Rate<br>(MCF/Day) |
|---|--------------------|--------------------|------------------------------|--------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED AT                                      | 11:40              | 25                 | 9                            |                          |                      | 1/4                | 5.050                 |
| 11:45   | 11:45              | 30                 | 28                           |                          |                      | 1/4                | 8.890                 |
| WITH GAS TO<br>SURFACE IN<br>23 MINUTES<br>AT 11:38 |                    |                    |                              |                          |                      |                    |                       |

## Final Flow

| Comments    | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Orifice Tester | PSI on<br>Orifice Tester | PSI on<br>Pitot Tube | Choke<br>Size (In) | Gas Rate<br>(MCF/Day) |
|-------------|--------------------|--------------------|------------------------------|--------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED | 12:50              | 5                  | 30                           |                          |                      | 3/4                | 55.200                |
| AT 12:45    | 12:55              | 10                 | 15                           |                          |                      | 1/4                | 9.200                 |
|             | 1:05               | 20                 | 26                           |                          |                      | 1/4                | 8.560                 |
|             | 1:15               | 30                 | 22                           |                          |                      | 1/4                | 7.880                 |
|             | 1:25               | 40                 | 20                           |                          |                      | 1/4                | 7.510                 |
|             | 1:35               | 50                 | 19                           |                          |                      | 1/4                | 7.320                 |
|             | 1:45               | 60                 | 18                           |                          |                      | 1/4                | 7.120                 |

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-20-2002 Location SE-NE-SW 3-35-14W Elevation 1959 ft County Barber

Company F.G. Hall Company L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543

Drilling Contractor Sterling Drilling #4

Length Drill Pipe 4183 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/2"

Length Weight Pipe None I.D. Weight Pipe None Tool Joint Size None

Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 4447 Bottom Packer Depth 4452 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4452 TO 4522 ANCHOR LENGTH 70 TOTAL DEPTH 4522 Hole Size 7 7/8"

EASE & WELL NO. Hampton #1-3 FORMATION TESTED Conglomerate - Viola TEST NO. 8

Mud Weight 9.1 Viscosity 60 Water Loss 10.4 Chlorides - Pits 19000 D.S.T.

Maximum Temp. 109 °F Initial Hydrostatic Pressure (A) 2194 P.S.I. Final Hydrostatic Pressure (H) 2137 P.S.I.

Tool Open I.F.P. from 2:30 pm to 3:00 pm 30 min

from [B] 97 P.S.I. to [C] 147 P.S.I.

Tool Closed I.C.I.P. from 3:00 pm to 4:00 pm 60 min

[D] 288 P.S.I.

Tool Open F.F.P. from 4:00 pm to 4:30 pm 30 min

from [E] 190 P.S.I. to [F] 236 P.S.I.

Tool Closed F.C.I.P. from 4:30 pm to 5:30 pm 60 min

[G] 316 P.S.I.

Initial Blow Fair blow built to 6 inches DECREASED to a 1 inch blow

Final Blow Weak blow built to 2 inch DECREASED & DIED in 10 minutes

Total Feet Recovered 200 Gravity of Oil \_\_\_\_\_ Corrected

100 Feet of Drilling mud % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

100 Feet of Sassy mud % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None

Top Recorder No. 91716 Clock No. Electronic Depth 4518 Cir. Sub None Sampler None

Bottom Recorder No. 13008 Clock No. 47441 Depth 4519 Insurance None

Price of Job \_\_\_\_\_

Tool Operator Jane Budig

Approved By \_\_\_\_\_

NO 12475

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

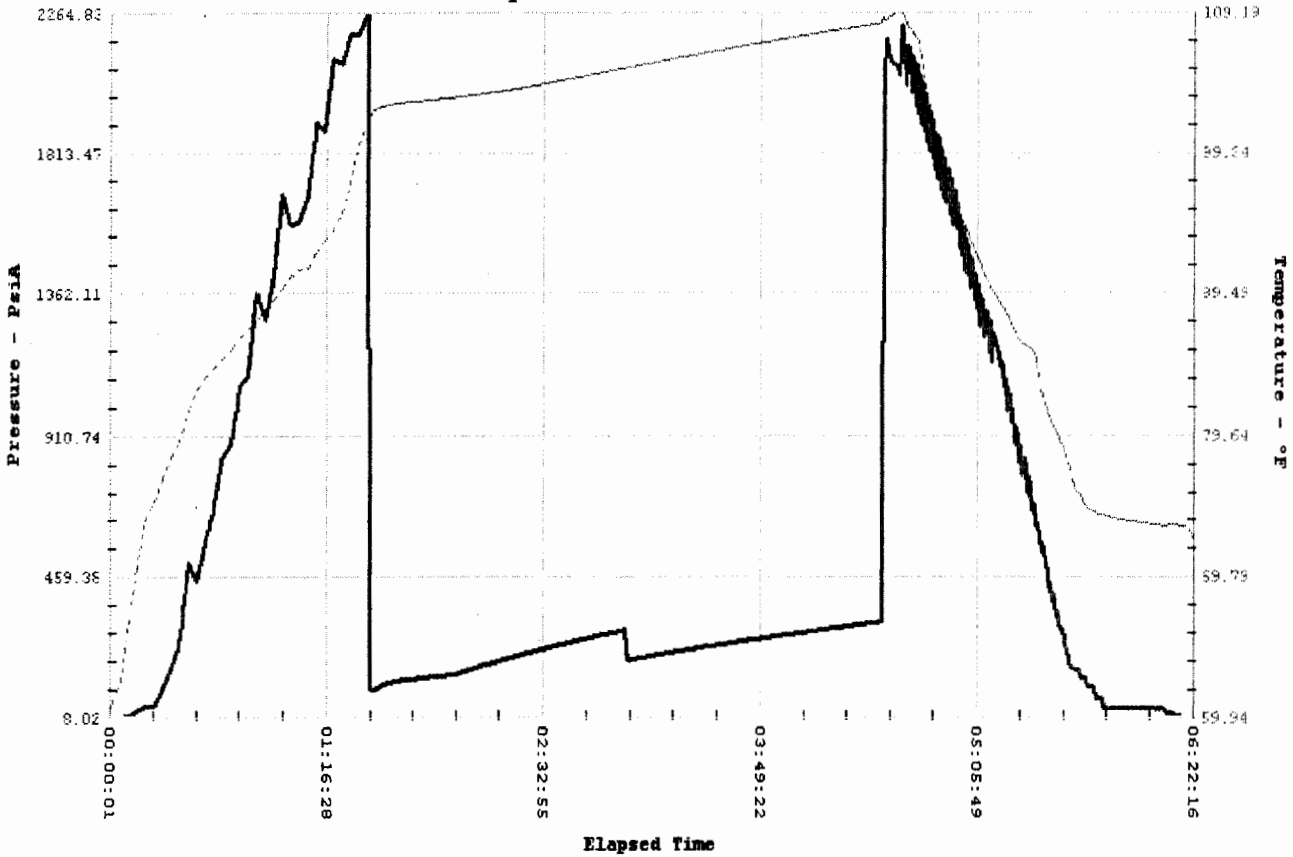
CHART DATA

(316) 792-6902

State ..... KANSAS  
County ..... BARBER  
Field .....

Test Date ..... February 20, 2004  
Sec Town Range ..... 3-35S-14W  
Report Number ..... 12475

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2194 |
| (2) | Initial Flow Pressure        | 97   |
| (3) | Final Initial Flow Pressure  | 147  |
| (4) | Initial Shut-In Pressure     | 288  |
| (5) | Initial Final Flow Pressure  | 190  |
| (6) | Final Flow Pressure          | 236  |
| (7) | Final Shut-In Pressure       | 316  |
| (8) | Final Hydrostatic Pressure   | 2137 |

ELECTRONIC RECORDER DEPTH 4515 FT, RECORDER NUMBER 80507

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. **HAMPTON #1-3** Test #: 8 Date: 02-20-2004 SEC. 3 TWP.  
35S RGE. 14W 30S. *Gaffith*

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|                              |                               |                                |                           |
|------------------------------|-------------------------------|--------------------------------|---------------------------|
| COMPANY NAME .....           | <b>F.G.HOLLCOMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b>       |
| TEST DATE .....              | <b>2/20/2004</b>              | FORMATION TESTED .....         | <b>CONGLOMERATE-VIOLA</b> |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>              | DRILL STEM TEST NUMBER .....   | <b>8</b>                  |
| STATE .....                  | <b>KANSAS</b>                 | REPORT NUMBER .....            | <b>12475</b>              |
| COUNTY .....                 | <b>BARBER</b>                 | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>               |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                   | TESTING ENGINEER .....         | <b>GENE BUDIG</b>         |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>               |                                |                           |

### TOOL SETTING INFORMATION

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>4452</b> | TOP PACKER DEPTH .....    | <b>4447</b>  |
| TEST INTERVAL (to) .....   | <b>4522</b> | BOTTOM PACKER DEPTH ..... | <b>4452</b>  |
| ANCHOR LENGTH .....        | <b>70</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>4522</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

*FINAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*FINAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

### PRESSURE READINGS

INITIAL HYDROSTATIC .....

INITIAL FLOW .....

FINAL INITIAL FLOW .....

INITIAL SHUT-IN .....

INITIAL FINAL FLOW .....

FINAL FLOW .....

FINAL SHUT-IN .....

FINAL HYDROSTATIC .....

MAXIMUM TEMPERATURE .....

TOP RECORDER DEPTH .....

RECORDER NUMBER .....

BOTTOM RECORDER DEPTH .....

RECORDER NUMBER .....

### INITIAL BLOW

**FAIR BLOW BUILT TO 6 INCHES INTO THE WATER AND DECREASED TO A 1 INCH BLOW**

### FINAL BLOW

**WEAK BLOW BUILT TO 2 INCHES INTO THE WATER AND DECREASED AND DIED IN 10 MINUTES**

### EXTRA EQUIPMENT

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>NO</b>  | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **4183**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #GAL ..... **9.1**

VISCOSITY ..... **60**

WATER LOSS ..... **10.4**

CHLORIDES-PITS ..... **9000**

CHLORIDES-DST .....

|     | FEET OF RECOVERY | RECOVERY DESCRIPTION | % GAS | % OIL | % MUD | % WATER |
|-----|------------------|----------------------|-------|-------|-------|---------|
| 1)  | 100              | DRILLING MUD         |       |       |       |         |
| 2)  | 100              | GASSY MUD            |       |       |       |         |
| 3)  |                  |                      |       |       |       |         |
| 4)  |                  |                      |       |       |       |         |
| 5)  |                  |                      |       |       |       |         |
| 6)  |                  |                      |       |       |       |         |
| 7)  |                  |                      |       |       |       |         |
| 8)  |                  |                      |       |       |       |         |
| 9)  |                  |                      |       |       |       |         |
| 10) |                  |                      |       |       |       |         |
| 11) |                  |                      |       |       |       |         |
| 12) |                  |                      |       |       |       |         |
| 13) |                  |                      |       |       |       |         |
| 14) |                  |                      |       |       |       |         |
| 15) |                  |                      |       |       |       |         |

TOTAL RECOVERY

### COMMENTS

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-21-2004 Location SE-NE-54 3-35-14W Elevation 1959K6 County Barber  
 Company F.C. Hall Company L.L.C. Number of Copies 5  
 Parts Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-2543  
 Drilling Contractor Steering Drilling Rig #4  
 Length Drill Pipe 4254 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1  
 Length Weight Pipe None I.D. Weight Pipe None Tool Joint Size None  
 Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1  
 Top Packer Depth 4514 Bottom Packer Depth 4523 Number of Packers 2 Packer Size \_\_\_\_\_  
 TESTED FROM 4523 TO 4536 ANCHOR LENGTH 13 TOTAL DEPTH 4536 Hole Size 7 7/8  
 CASE & WELL NO. Hampton #1-3 FORMATION TESTED Simple Sand TEST NO. 9  
 Mud Weight 9.1 Viscosity 60 Water Loss 104 Chlorides - Pits 9000 D.S.T. \_\_\_\_\_  
 Maximum Temp. \_\_\_\_\_ °F Initial Hydrostatic Pressure (A) 2338 P.S.I. Final Hydrostatic Pressure (H) 2191 P.S.I.

Tool Open I.F.P. from 7:30 A.M. to 8:00 A.M. 30 min  
 Tool Closed I.C.I.P. from 8:00 A.M. to 9:00 A.M. 60 min  
 Tool Open F.F.P. from 9:00 A.M. to 10:00 A.M. 60 min  
 Tool Closed F.C.I.P. from 10:00 A.M. to 11:30 A.M. 90 min

|   |
|---|
| from [B] <u>75</u> P.S.I. to [C] <u>84</u> P.S.I. |
| [D] <u>1326</u> P.S.I.                            |
| from [E] <u>96</u> P.S.I. to [F] <u>96</u> P.S.I. |
| [G] <u>1321</u> P.S.I.                            |

Initial Blow Strong blow - Gas to surface  
 Final Blow Strong blow - See Gas flow Report.  
 Total Feet Recovered \_\_\_\_\_ Gravity of Oil \_\_\_\_\_ Corrected

|                    |  |                |                |                 |                  |
|--------------------|--|----------------|----------------|-----------------|------------------|
| <u>140</u> Feet of | <u>Gassy Mud with a slight show of oil</u> | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | <u>4</u> % Gas | <u>2</u> % Oil | <u>94</u> % Mud | <u>0</u> % Water |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |
| Feet of            |  | % Gas          | % Oil          | % Mud           | % Water          |

Remarks \_\_\_\_\_

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None  
 Top Recorder No. 91716 Clock No. Electronic Depth \_\_\_\_\_ Cir. Sub None Sampler None  
 Bottom Recorder No. 11098 Clock No. 87441 Depth \_\_\_\_\_ Insurance None

Title of Job \_\_\_\_\_  
 Tool Operator Steve Budig  
 Approved By \_\_\_\_\_  
 No. 12501

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

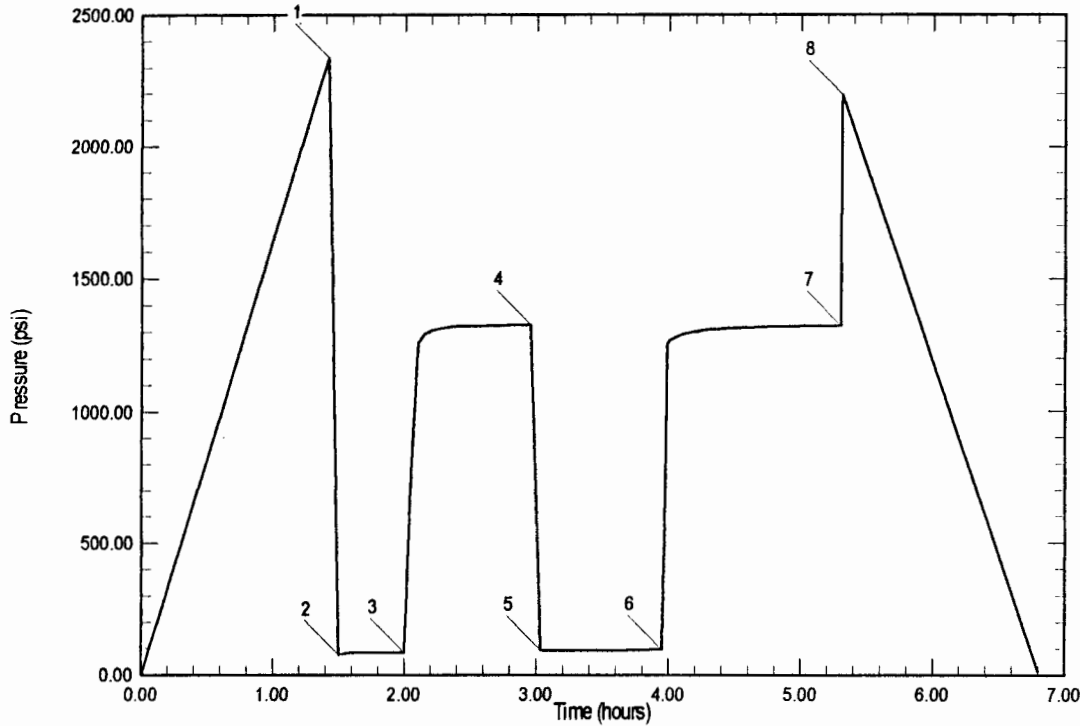
Great Bend, Kansas

**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 21, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12501



- 1) 01-1ST Hydrostatic Pressure
- 2) 02-Start 1ST Flow
- 3) 03-End 1ST Flow
- 4) 05-End 1ST SHUT-IN Shut-in
- 5) 02-Start 2ND Flow
- 6) 03-End 2ND Flow
- 7) 05-End 2ND Shut-in
- 8) 01-2ND Hydrostatic Pressure

**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2338 |
| (2) | Initial Flow Pressure        | 75   |
| (3) | Final Initial Flow Pressure  | 84   |
| (4) | Initial Shut-In Pressure     | 1326 |
| (5) | Initial Final Flow Pressure  | 96   |
| (6) | Final Flow Pressure          | 96   |
| (7) | Final Shut-In Pressure       | 1321 |
| (8) | Final Hydrostatic Pressure   | 2197 |

**ELECTRONIC RECORDER DEPTH 4535 FT, RECORDER NUMBER 80507**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 9 Date: 02-21-2004 SEC. 3 TWP.  
 35S RGE. 14W  
 305.  
 Griffith

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|  |   |
|--|---|
| COMPANY NAME ..... <b>F.G.HOLLCOMPANY L.L.C.</b> | LEASE AND WELL NUMBER ..... <b>HAMPTON #1-3</b> |
| TEST DATE ..... <b>2/21/2004</b>                 | FORMATION TESTED ..... <b>SIMPSON SAND</b>      |
| SECTION-TOWN-RANGE ..... <b>3-35S-14W</b>        | DRILL STEM TEST NUMBER ..... <b>9</b>           |
| STATE ..... <b>KANSAS</b>                        | REPORT NUMBER ..... <b>12501</b>                |
| COUNTY ..... <b>BARBER</b>                       | ELEVATION KELLY BUSHINGS ..... <b>1959</b>      |
| ELEVATION GROUND LEVEL ..... <b>1950</b>         | TESTING ENGINEER ..... <b>GENE BUDIG</b>        |
| COMPANY REPRESENTATIVE ..... <b>BILL REE</b>     |   |

### TOOL SETTING INFORMATION

|  |                                       |
|--|---------------------------------------|
| TEST INTERVAL (From) ..... <b>4523</b> | TOP PACKER DEPTH ..... <b>4518</b>    |
| TEST INTERVAL (to) ..... <b>4536</b>   | BOTTOM PACKER DEPTH ..... <b>4523</b> |
| ANCHOR LENGTH ..... <b>13</b>          | NUMBER OF PACKERS ..... <b>2</b>      |
| TOTAL DEPTH (ft) ..... <b>4536</b>     | PACKER SIZE ..... <b>6 3/4</b>        |
|  | HOLE SIZE ..... <b>7 7/8</b>          |

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... **7:30**

TOOL OPEN (to) ..... **8:00**

DURATION (min.) ..... **30**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **8:00**

TOOL CLOSED (to) ..... **9:00**

DURATION (min.) ..... **60**

*FINAL OPEN*

TOOL OPEN (from) ..... **9:00**

TOOL OPEN (to) ..... **10:00**

DURATION (min.) ..... **60**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **10:00**

TOOL CLOSED (to) ..... **11:30**

DURATION (min.) ..... **90**

### PRESSURE READINGS

INITIAL HYDROSTATIC ..... **2338**

INITIAL FLOW ..... **75**

FINAL INITIAL FLOW ..... **84**

INITIAL SHUT-IN ..... **1326**

INITIAL FINAL FLOW ..... **96**

FINAL FLOW ..... **96**

FINAL SHUT-IN ..... **1321**

FINAL HYDROSTATIC ..... **2197**

MAXIMUM TEMPERATURE .....

TOP RECORDER DEPTH ..... **4535**

RECORDER NUMBER ..... **80507**

BOTTOM RECORDER DEPTH ..... **4536**

RECORDER NUMBER ..... **13208**

INITIAL BLOW

**STRONG BLOW WITH GAS TO SURFACE**

FINAL BLOW

**STRONG BLOW -SEE GAS FLOW REPORT**

### EXTRA EQUIPMENT

|                                      |                                    |
|--------------------------------------|------------------------------------|
| JARS ..... <b>NO</b>                 | EXTRA PACKER (3RD) ..... <b>NO</b> |
| SAFETY JOINT ..... <b>YES</b>        | EXTRA PACKER (4TH) ..... <b>NO</b> |
| ELECTRONIC RECORDER ..... <b>YES</b> | STRADDLE ..... <b>NO</b>           |
| CIRCULATING SUB ..... <b>NO</b>      | HOOK WALL ..... <b>NO</b>          |
|                                      | SAMPLER ..... <b>NO</b>            |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

**WELL INFORMATION**

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH .....

DRILL COLLAR LENGTH ..... **243**

DRILL PIPE I.D. .... **3.8**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

MUD WEIGHT #/GAL ..... **9.1**

WEIGHT PIPE I.D. .... **2.25**

VISCOSITY ..... **60**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WATER LOSS ..... **10.4**

CHLORIDES-PITS ..... **9000**

CHLORIDES-DST .....

| FEET OF RECOVERY | RECOVERY DESCRIPTION                  | % GAS | % OIL | % MUD | % WATER |
|------------------|---------------------------------------|-------|-------|-------|---------|
| 1) 140           | GAS CUT MUD WITH A SLIGHT SHOW OF OIL |       |       |       |         |
| 2)               |                                       |       |       |       |         |
| 3)               |                                       |       |       |       |         |
| 4)               |                                       |       |       |       |         |
| 5)               |                                       |       |       |       |         |
| 6)               |                                       |       |       |       |         |
| 7)               |                                       |       |       |       |         |
| 8)               |                                       |       |       |       |         |
| 9)               |                                       |       |       |       |         |
| 10)              |                                       |       |       |       |         |
| 11)              |                                       |       |       |       |         |
| 12)              |                                       |       |       |       |         |
| 13)              |                                       |       |       |       |         |
| 14)              |                                       |       |       |       |         |
| 15)              |                                       |       |       |       |         |

TOTAL RECOVERY

**COMMENTS**

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

|             |        |                      |           |
|-------------|--------|----------------------|-----------|
| STATE.....  | KANSAS | Test Date .....      | #####     |
| COUNTY..... | BARBER | Sec Town Range ..... | 3-35S-14W |
| FIELD.....  |        | Report Number .....  | 12501     |

## Initial Flow

| Comments   | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Orifice Tester | PSI on<br>Orifice Tester | PSI on<br>Pitot Tube | Choke<br>Size (in) | Gas Rate<br>(MCF/Day) |
|--|--------------------|--------------------|------------------------------|--------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED AT   | 7:50               | 20                 | 10                           |                          |                      | 1 1/2              | 220.000               |
| 7:30 WITH GAS<br>TO SURFACE IN<br>8 MINUTES<br>AT 7:38 | 8:00               | 30                 | 9                            |                          |                      | 1 1/2              | 209.000               |

## Final Flow

| Comments               | Time<br>(hh:mm:ss) | Period<br>dt (min) | Inches H2O<br>Orifice Tester | PSI on<br>Orifice Tester | PSI on<br>Pitot Tube | Choke<br>Size (in) | Gas Rate<br>(MCF/Day) |
|------------------------|--------------------|--------------------|------------------------------|--------------------------|----------------------|--------------------|-----------------------|
| TOOL OPENED AT<br>9:00 | 9:10               | 10                 | 14                           |                          |                      | 1 1/2              | 251.000               |
|                        | 9:20               | 20                 | 11                           |                          |                      | 1 1/2              | 231.000               |
|                        | 9:30               | 30                 | 10                           |                          |                      | 1 1/2              | 220.000               |
|                        | 9:40               | 40                 | 10                           |                          |                      | 1 1/2              | 220.000               |
|                        | 9:50               | 50                 | 10                           |                          |                      | 1 1/2              | 220.000               |
|                        | 10:00              | 60                 | 10                           |                          |                      | 1 1/2              | 220.000               |

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

## SUPERPOSITION ANALYSIS

(316) 792-6902

### 1ST SHUT-IN

State ..... KANSAS

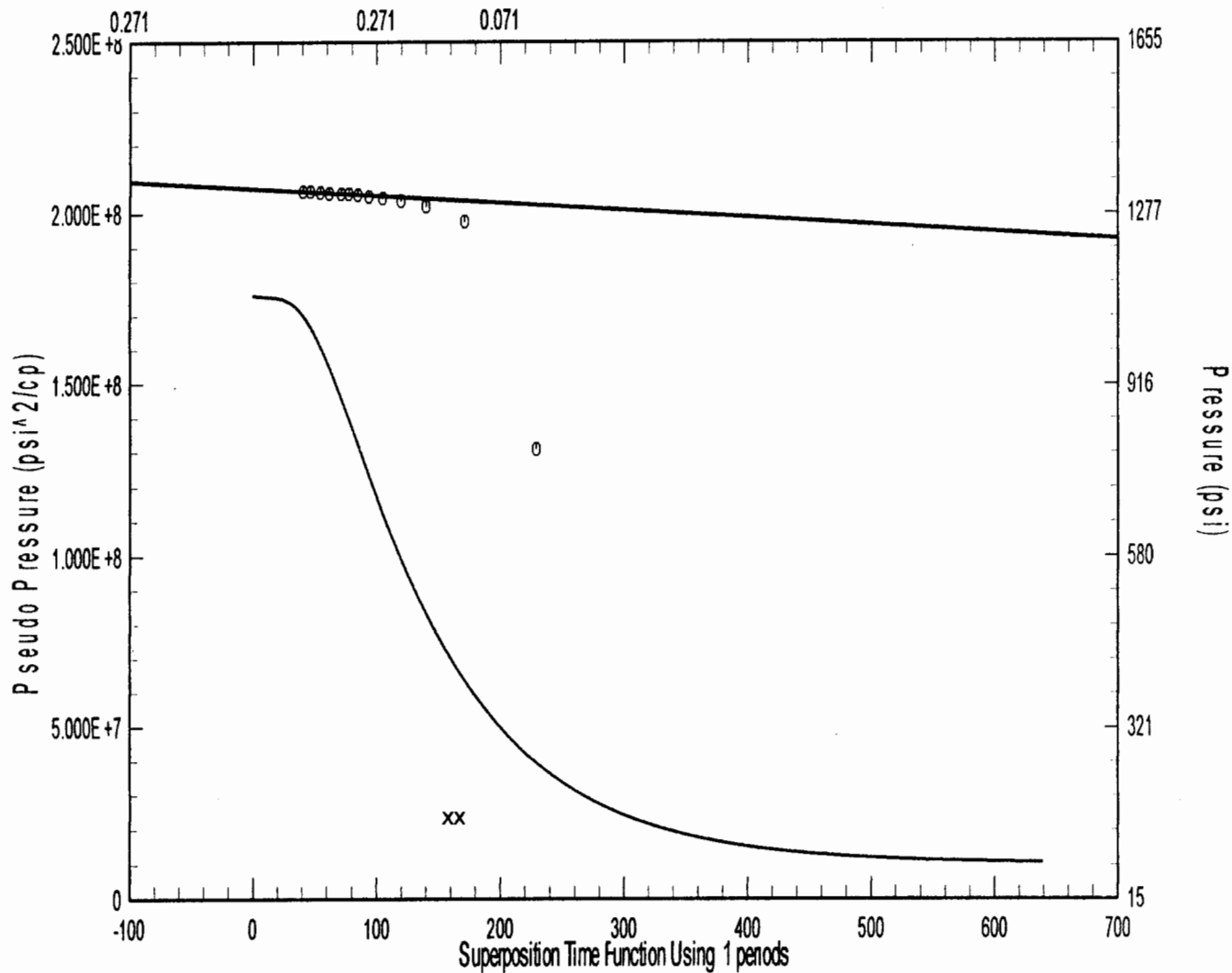
Test Date ..... 2/21/2004

County ..... BARBER

Sec Town Range ..... 3-35S-14W

Field .....

Report Number ..... 12501



**MODEL RESULTS**

|                    |              |                    |               |                      |
|--------------------|--------------|--------------------|---------------|----------------------|
| Constant Storage   | Skin Model   | Homogeneous        | No Boundaries | h : 10 ft            |
| C1 : 0.001 bbl/psi | Skin : 35.30 | k : 3.375 md       |               | mu : 0.053 cp        |
|                    |              | Est Pi: 1101.2 psi |               | phi : 18.0%          |
|                    |              |                    |               | ct : 4.993E-04 1/psi |
|                    |              |                    |               | rw : 3.208 ft        |
|                    |              |                    |               | BHT : 109 F          |
|                    |              |                    |               | FVF : 0.74           |

Field :  
County or Parish :  
State :

Date Printed: 02/21/04 17:56:31  
Analysis Period : 1ST SHUT-IN  
Comment : Line #

---

Superposition Slope -> m' ..... -21485.720000  
Horner Slope -> m ..... -4.726859E+6  
Intercept ..... 2.074E+8  
P(dt=1 hr) ..... 2.066E+8  
Pwf ..... 1.036E+7  
R Sqr ..... 0.8979

Intercept (psi) ..... 1332.493  
k (md) ..... 4.33522  
kh (md-ft) ..... 43.35219  
k/u (md/cp) ..... 82.41861  
kh/uB (md-ft/cp) ..... 824.18608  
Skin ..... 45.8020  
DP Skin ..... 1184.1725  
Total DP ..... 1248.7760  
Percent DP ..... 94.83%

Radius Invest (ft) ..... 30  
Radius Time (hrs) ..... 0.95

Delta Q = ..... 220  
h (ft)= ..... 10  
mu (cp) = ..... 0.0526  
B (stb/scf) = ..... 0.7381

First Point # ..... 8  
Second Point # ..... 20  
Start Real Time ..... 0.350  
End Real Time ..... 0.950  
Start SF Time ..... 84.777

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

## SUPERPOSITION ANALYSIS

(316) 792-6902

### 2ND SHUT-IN

State ..... KANSAS

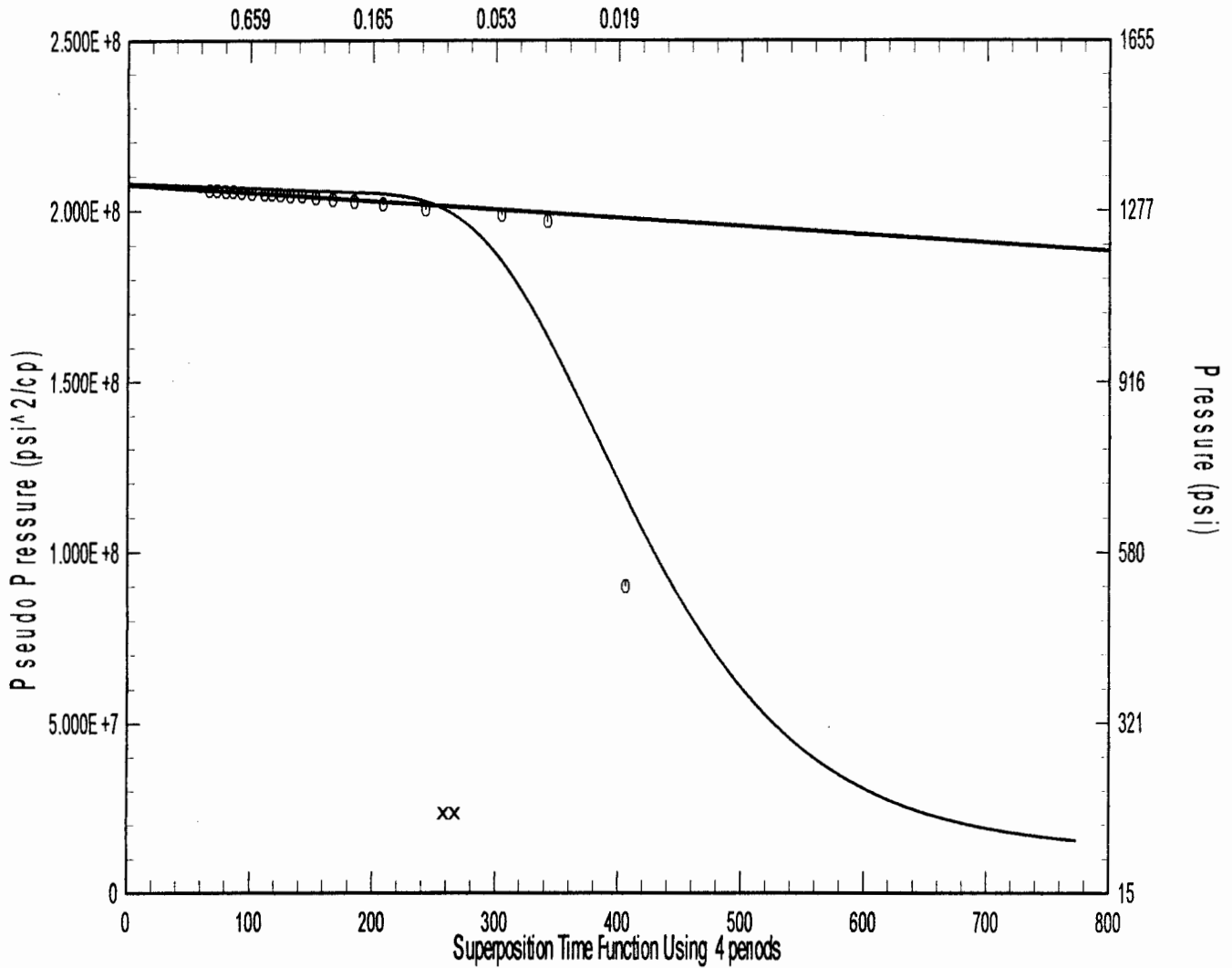
Test Date ..... 2/21/2004

County ..... BARBER

Sec Town Range ..... 3-35S-14W

Field .....

Report Number ..... 12501



#### MODEL RESULTS

|                       |              |                    |               |                      |
|-----------------------|--------------|--------------------|---------------|----------------------|
| Constant Storage      | Skin Model   | Homogeneous        | No Boundaries | h : 10 ft            |
| C1 : 1.110E-4 bbl/psi | Skin : 65.20 | k : 6.133 md       |               | mu : 0.053 cp        |
|                       |              | Est Pi: 1337.7 psi |               | phi : 18.0%          |
|                       |              |                    |               | ct : 4.993E-04 1/psi |
|                       |              |                    |               | rw : 3.208 ft        |
|                       |              |                    |               | BHT : 109 F          |
|                       |              |                    |               | FVF : 0.74           |

Field :  
County or Parish :  
State :

Date Printed: 02/21/04 17:59:49  
Analysis Period : 2nd SHUT-IN  
Comment : Line #

---

|                           |               |
|---------------------------|---------------|
| Superposition Slope -> m' | -24318.720000 |
| Horner Slope -> m         | -5.350119E+6  |
| Intercept                 | 2.076E+8      |
| P(dt=1 hr)                | 2.057E+8      |
| Pwf                       | 1.232E+7      |
| R Sqr                     | 0.9689        |
|                           |               |
| Intercept (psi)           | 1333.703      |
| k (md)                    | 3.83019       |
| kh (md-ft)                | 38.30189      |
| k/u (md/cp)               | 72.81728      |
| kh/uB (md-ft/cp)          | 728.17278     |
| Skin                      | 39.6852       |
| DP Skin                   | 1159.7249     |
| Total DP                  | 1237.8661     |
| Percent DP                | 93.69%        |
|                           |               |
| Radius Invest (ft)        | 34            |
| Radius Time (hrs)         | 1.35          |
|                           |               |
| Delta Q =                 | 220           |
| h (ft)=                   | 10            |
| mu (cp) =                 | 0.0526        |
| B (stb/scf) =             | 0.7381        |
|                           |               |
| First Point #             | 10            |
| Second Point #            | 29            |
| Start Real Time           | 0.350         |
| End Real Time             | 1.300         |
| Start SF Time             | 141.685       |

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-21-2004 Location SE-NE-SW 3-35-14 Elevation 1959 K.B County Barber

Company F.G. Holl Company LLC Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543

Drilling Contractor Stirling Drilling Rig # 24

Length Drill Pipe 4867 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe None I.D. Weight Pipe None Tool Joint Size None

Length Drill Collars 242 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4531 Bottom Packer Depth 4536 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4536 TO 4543 ANCHOR LENGTH 7 TOTAL DEPTH 4543 Hole Size 7 7/8"

EASE & WELL NO. Hampton # 1-2 FORMATION TESTED Simpson Sand TEST NO. 10

Mud Weight 9.0 Viscosity 42 Water Loss 12.8 Chlorides - Pits 9000 D.S.T. \_\_\_\_\_

Maximum Temp. 111 °F Initial Hydrostatic Pressure (A) 2264 P.S.I. Final Hydrostatic Pressure (H) 2218 P.S.I.

Tool Open I.F.P. from 10:15 P.m to 10:05 P.m 15 min

Tool Closed I.C.I.P. from 10:30 P.m to 11:00 P.m 30 min

Tool Open F.F.P. from 11:00 P.m to 12:00 P.m 60 min

Tool Closed F.C.I.P. from 12:00 A.m to 1:30 A.m 90 min

Initial Blow Very weak surface blow for 4 minutes & died

Final Blow Weak building blow built to the bottom of a 5 gallon bucket in 25 minutes

Total Feet Recovered 130 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

600 Feet of Gas in the Pipe 100% Gas 0% Oil 0% Mud 0% Water

100 Feet of Very Slightly Oil & Gas Cut Mud 5% Gas 3% Oil 92% Mud 0% Water

30 Feet of Heavy Oil & Gas Cut Mud 15% Gas 30% Oil 55% Mud 0% Water

Feet of There was a good show of oil between % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of the tools % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None

Top Recorder No. 91981 Clock No. Electron Depth 4539 Cir. Sub None Sampler None

Bottom Recorder No. 13208 Clock No. 47441 Depth 4540 Insurance None

Price of Job \_\_\_\_\_

Tool Operator Jane Ludwig

Approved By \_\_\_\_\_

No 12502

|          |             |               |           |        |
|----------|-------------|---------------|-----------|--------|
| from [B] | <u>46</u>   | P.S.I. to [C] | <u>65</u> | P.S.I. |
| [D]      | <u>464</u>  |               |           | P.S.I. |
| from [E] | <u>61</u>   | P.S.I. to [F] | <u>85</u> | P.S.I. |
| [G]      | <u>1179</u> |               |           | P.S.I. |

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

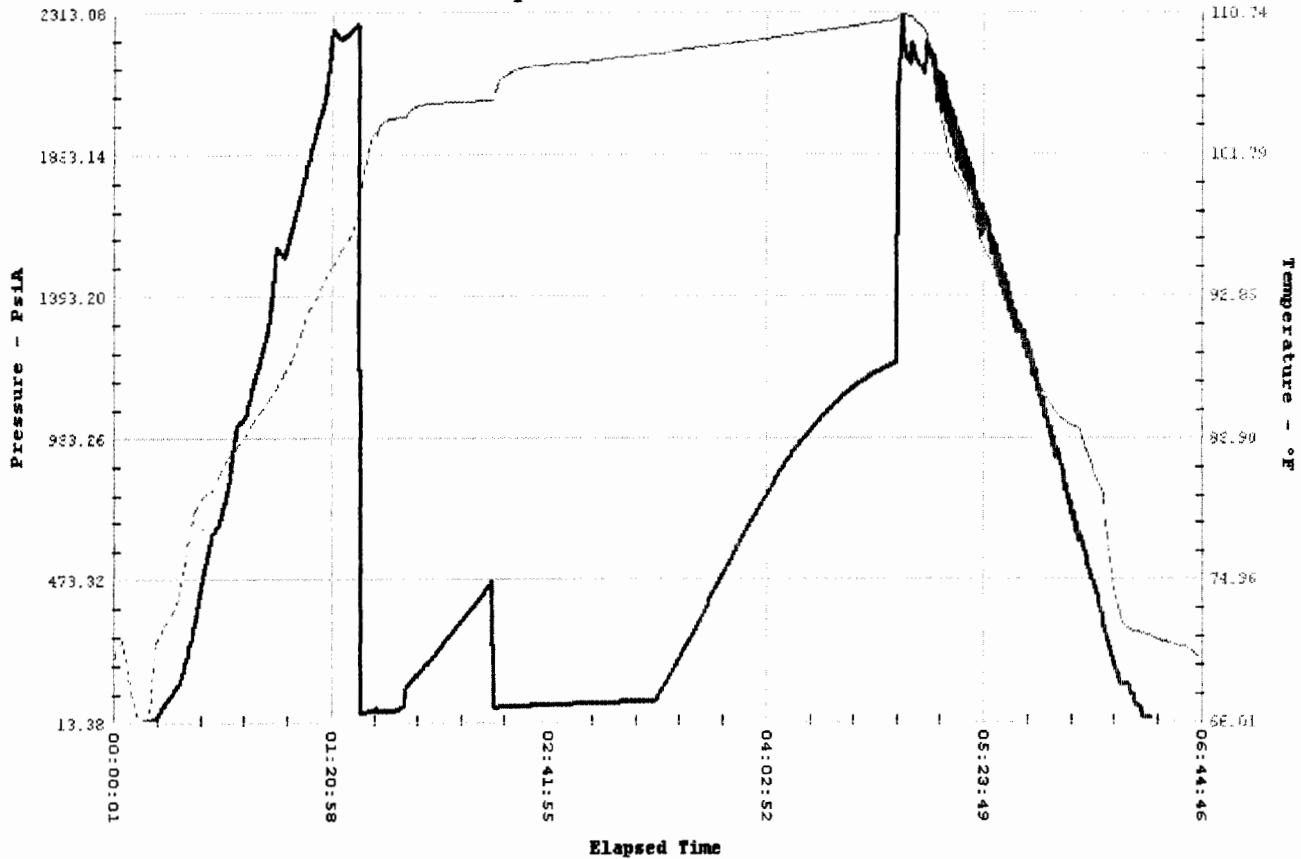
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 21, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12502

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2264 |
| (2) | Initial Flow Pressure        | 46   |
| (3) | Final Initial Flow Pressure  | 65   |
| (4) | Initial Shut-In Pressure     | 464  |
| (5) | Initial Final Flow Pressure  | 61   |
| (6) | Final Flow Pressure          | 85   |
| (7) | Final Shut-In Pressure       | 1179 |
| (8) | Final Hydrostatic Pressure   | 2218 |

ELECTRONIC RECORDER DEPTH 4541 FT, RECORDER NUMBER 91981

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HANPEON #1-3 Test #: 10 Date: 02-21-2004 SEC. 3 TWP.  
 35S RGE. 14W 30S  
 Griffith

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND, KANSAS 67530 (316)792-6902

**GENERAL INFORMATION**

|                              |                                |                                |                     |
|------------------------------|--------------------------------|--------------------------------|---------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b> |
| TEST DATE .....              | <b>2/21/2004</b>               | FORMATION TESTED .....         | <b>SIMPSON SAND</b> |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>               | DRILL STEM TEST NUMBER .....   | <b>10</b>           |
| STATE .....                  | <b>KANSAS</b>                  | REPORT NUMBER .....            | <b>12502</b>        |
| COUNTY .....                 | <b>BARBER</b>                  | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>         |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                    | TESTING ENGINEER .....         | <b>GENE BUDIG</b>   |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>                |                                |                     |

**TOOL SETTING INFORMATION**

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>4536</b> | TOP PACKER DEPTH .....    | <b>4531</b>  |
| TEST INTERVAL (to) .....   | <b>4543</b> | BOTTOM PACKER DEPTH ..... | <b>4536</b>  |
| ANCHOR LENGTH .....        | <b>7</b>    | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>4543</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) ..... **10:15**  
 TOOL OPEN (to) ..... **10:30**  
 DURATION (min.) ..... **30**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **10:30**  
 TOOL CLOSED (to) ..... **11:00**  
 DURATION (min.) ..... **30**

*FINAL OPEN*

TOOL OPEN (from) ..... **11:00**  
 TOOL OPEN (to) ..... **12:00**  
 DURATION (min.) ..... **60**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **12:00**  
 TOOL CLOSED (to) ..... **1:30**  
 DURATION (min.) ..... **90**

**PRESSURE READINGS**

INITIAL HYDROSTATIC ..... **2264**  
 INITIAL FLOW ..... **46**  
 FINAL INITIAL FLOW ..... **65**  
 INITIAL SHUT-IN ..... **464**  
 INITIAL FINAL FLOW ..... **61**  
 FINAL FLOW ..... **85**  
 FINAL SHUT-IN ..... **1179**  
 FINAL HYDROSTATIC ..... **2218**

MAXIMUM TEMPERATURE ..... **111**

TOP RECORDER DEPTH ..... **4541**  
 RECORDER NUMBER ..... **91981**  
 BOTTOM RECORDER DEPTH ..... **4540**  
 RECORDER NUMBER ..... **13208**

**INITIAL BLOW**

**VERY WEAK SURFACE BLOW FOR 4 MINUTES AND DIED**

**FINAL BLOW**

**WEAK BUILDING BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 25 MINUTES**

**EXTRA EQUIPMENT**

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>NO</b>  | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND, KANSAS 67530 (316)792-6902

**WELL INFORMATION**

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **4267**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL ..... **9**

VISCOSITY ..... **42**

WATER LOSS ..... **12.8**

CHLORIDES-PITS ..... **9000**

CHLORIDES-DST .....

|     | FEET OF RECOVERY | RECOVERY DESCRIPTION                                 | %   | %   | %   | %     |
|-----|------------------|--|-----|-----|-----|-------|
|     |                  |  | GAS | OIL | MUD | WATER |
| 1)  | 600              | GAS IN THE PIPE                                      | 100 | 0   | 0   | 0     |
| 2)  | 100              | VERY SLIGHTLY OIL AND GAS CUT MUD                    | 5   | 3   | 92  | 0     |
| 3)  | 30               | HEAVY OIL AND GAS CUT MUD                            | 15  | 30  | 55  | 0     |
| 4)  |                  | THERE WAS A GOOD SHOW OF CLEAN OIL BETWEEN THE TOOLS |     |     |     |       |
| 5)  |                  |  |     |     |     |       |
| 6)  |                  |  |     |     |     |       |
| 7)  |                  |  |     |     |     |       |
| 8)  |                  |  |     |     |     |       |
| 9)  |                  |  |     |     |     |       |
| 10) |                  |  |     |     |     |       |
| 11) |                  |  |     |     |     |       |
| 12) |                  |  |     |     |     |       |
| 13) |                  |  |     |     |     |       |
| 14) |                  |  |     |     |     |       |
| 15) |                  |  |     |     |     |       |

TOTAL RECOVERY

**COMMENTS**

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-22-2004 Location SE-NE-SW 3-35-14<sup>N</sup> Elevation 1959<sup>NB</sup> County Baker  
1950<sup>GL</sup>

Company F.G. HOLL COMPANY LLC Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-22

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 4274 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe None I.D. Weight Pipe None Tool Joint Size None

Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4538 Bottom Packer Depth 4548 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4543 TO 4550 ANCHOR LENGTH 07 TOTAL DEPTH 4550 Hole Size 7 7/8

LEASE & WELL NO. Hampton #1-3 FORMATION TESTED Simpson Sand TEST NO. 11

Mud Weight 9.1 Viscosity 44 Water Loss 11.6 Chlorides - Pits 9000 D.S.T. 58000

Maximum Temp. 122 °F Initial Hydrostatic Pressure (A) 2192 P.S.I. Final Hydrostatic Pressure (H) 2187 P.S.I.

Tool Open I.F.P. from 2:30 pm to 3:00 pm 30 min

Tool Closed I.C.I.P. from 3:00 pm to 4:00 pm 60 min

Tool Open F.F.P. from 4:00 pm to 4:30 pm 30 min

Tool Closed F.C.I.P. from 4:30 pm to 5:30 pm 60 min

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 10 minutes

Final Blow Fair blow built to the bottom of a 5 Gallon bucket in 9 minutes

Total Feet Recovered 720 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

180 Feet of SLIGHTLY muddy water with a very slight show of oil %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

540 Feet of SALT WATER - CHLORIDES 58000 %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None

Top Recorder No. 91981 Clock No. Electron Depth 4546 Cir. Sub None Sampler None

Bottom Recorder No. 13208 Clock No. 47441 Depth 4547 Insurance None

Price of Job \_\_\_\_\_

Tool Operator Gene Ludwig

Approved By \_\_\_\_\_

No. 12503

|   |
|---|
| from [B] <u>100</u> P.S.I. to [C] <u>241</u> P.S.I. |
| [D] <u>1348</u> P.S.I.                              |
| from [E] <u>249</u> P.S.I. to [F] <u>357</u> P.S.I. |
| [G] <u>1347</u> P.S.I.                              |

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

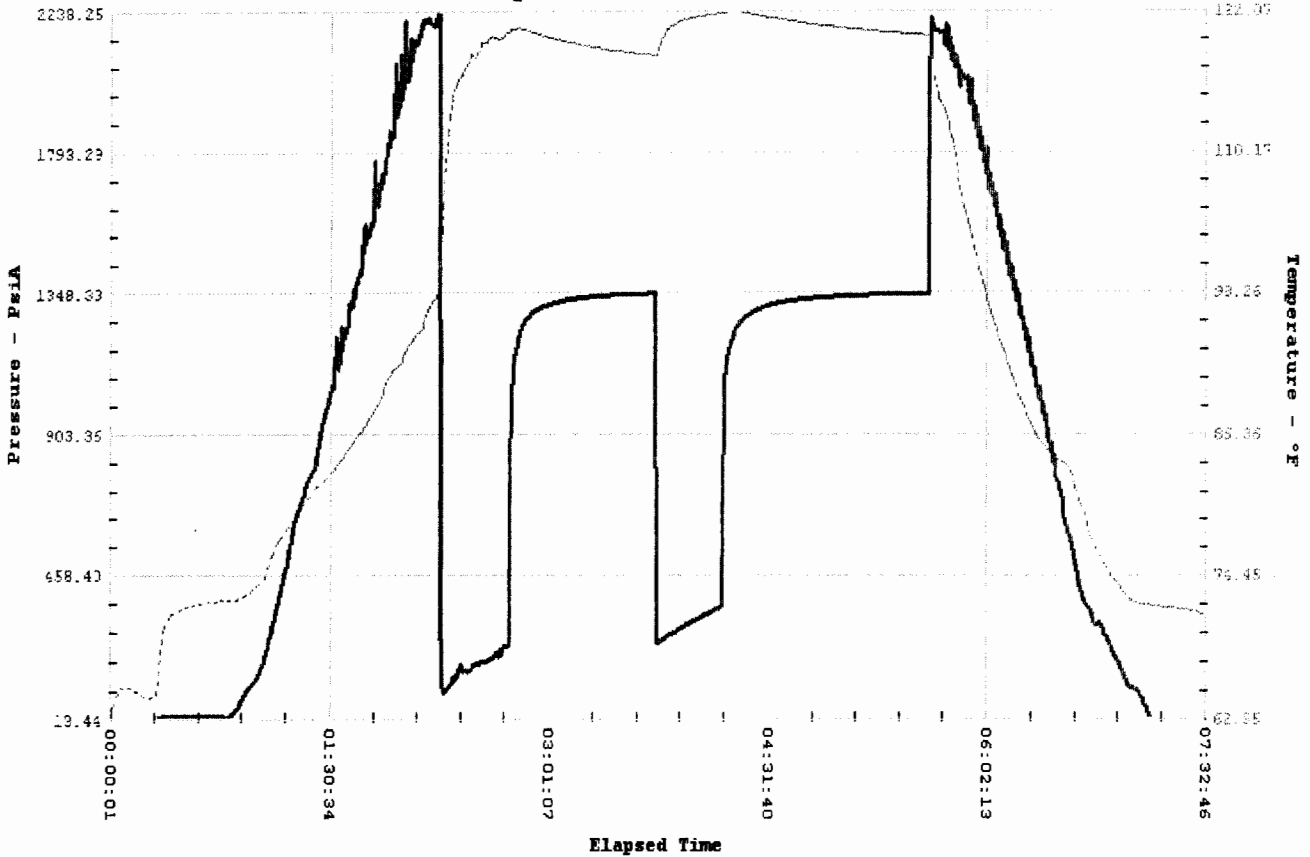
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... February 22, 2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12503

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2192 |
| (2) | Initial Flow Pressure        | 100  |
| (3) | Final Initial Flow Pressure  | 241  |
| (4) | Initial Shut-In Pressure     | 1348 |
| (5) | Initial Final Flow Pressure  | 249  |
| (6) | Final Flow Pressure          | 357  |
| (7) | Final Shut-In Pressure       | 1347 |
| (8) | Final Hydrostatic Pressure   | 2187 |

**ELECTRONIC RECORDER DEPTH 4543 FT, RECORDER NUMBER 80507**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 11 Date: 02-22-2004 SEC. 3  
 TWP. 35S RGE. 14W 30s  
 Cal. 11/15

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

|   |   |
|---|---|
| COMPANY NAME ..... <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER ..... <b>HAMPTON #1-3</b> |
| TEST DATE ..... <b>2/22/2004</b>                  | FORMATION TESTED ..... <b>SIMPSON SAND</b>      |
| SECTION-TOWN-RANGE ..... <b>3-35S-14W</b>         | DRILL STEM TEST NUMBER ..... <b>11</b>          |
| STATE ..... <b>KANSAS</b>                         | REPORT NUMBER ..... <b>12503</b>                |
| COUNTY ..... <b>BARBER</b>                        | ELEVATION KELLY BUSHINGS ..... <b>1959</b>      |
| ELEVATION GROUND LEVEL ..... <b>1950</b>          | TESTING ENGINEER ..... <b>GENE BUDIG</b>        |
| COMPANY REPRESENTATIVE ..... <b>BILL REE</b>      |   |

### TOOL SETTING INFORMATION

|  |                                       |
|--|---------------------------------------|
| TEST INTERVAL (From) ..... <b>4543</b> | TOP PACKER DEPTH ..... <b>4538</b>    |
| TEST INTERVAL (to) ..... <b>4550</b>   | BOTTOM PACKER DEPTH ..... <b>4543</b> |
| ANCHOR LENGTH ..... <b>7</b>           | NUMBER OF PACKERS ..... <b>2</b>      |
| TOTAL DEPTH (ft) ..... <b>4550</b>     | PACKER SIZE ..... <b>6 3/4</b>        |
|  | HOLE SIZE ..... <b>7 7/8</b>          |

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... **2:30**  
 TOOL OPEN (to) ..... **3:00**  
 DURATION (min.) ..... **30**

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... **3:00**  
 TOOL CLOSED (to) ..... **4:00**  
 DURATION (min.) ..... **60**

*FINAL OPEN*

TOOL OPEN (from) ..... **4:00**  
 TOOL OPEN (to) ..... **4:30**  
 DURATION (min.) ..... **30**

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... **4:30**  
 TOOL CLOSED (to) ..... **5:30**  
 DURATION (min.) ..... **60**

### PRESSURE READINGS

INITIAL HYDROSTATIC ..... **2192**  
 INITIAL FLOW ..... **100**  
 FINAL INITIAL FLOW ..... **241**  
 INITIAL SHUT-IN ..... **1348**  
 INITIAL FINAL FLOW ..... **249**  
 FINAL FLOW ..... **357**  
 FINAL SHUT-IN ..... **1347**  
 FINAL HYDROSTATIC ..... **2187**

MAXIMUM TEMPERATURE ..... **122**

TOP RECORDER DEPTH ..... **4543**  
 RECORDER NUMBER ..... **80507**  
 BOTTOM RECORDER DEPTH ..... **4547**  
 RECORDER NUMBER ..... **13208**

INITIAL BLOW                      **FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 10 MINUTES**

FINAL BLOW                        **FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 9 MINUTES**

### EXTRA EQUIPMENT

|                                      |                                    |
|--------------------------------------|------------------------------------|
| JARS ..... <b>NO</b>                 | EXTRA PACKER (3RD) ..... <b>NO</b> |
| SAFETY JOINT ..... <b>YES</b>        | EXTRA PACKER (4TH) ..... <b>NO</b> |
| ELECTRONIC RECORDER ..... <b>YES</b> | STRADDLE ..... <b>NO</b>           |
| CIRCULATING SUB ..... <b>NO</b>      | HOOK WALL ..... <b>NO</b>          |
|                                      | SAMPLER ..... <b>NO</b>            |



# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 02-22-2003 Location SE-NE-SW 3-35-14<sup>N</sup> Elevation 1959<sup>R.B.</sup> County Barber  
 Company F.G. HOLL COMPANY LLC Number of Copies 5  
 Charts Mailed to 9431 East Central Suite 100 Wichita Kansas 67206-2543  
 Drilling Contractor Steeling Drilling Rig #4  
 Length Drill Pipe 4360 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X. H.  
 Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE  
 Length Drill Collars 243 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.  
 Top Packer Depth 4617 Bottom Packer Depth 4622 Number of Packers 2 Packer Size 6 3/4  
 TESTED FROM 4622 TO 4636 ANCHOR LENGTH 14 TOTAL DEPTH 4636 Hole Size 7 7/8  
 LEASE & WELL NO. Hampton # 1-3 FORMATION TESTED Debuclie TEST NO. 12  
 Mud Weight 9.25 Viscosity 48 Water Loss 9 @ 12.8 Chlorides - Pits 11000 D.S.T. 49000  
 Maximum Temp. 122 °F Initial Hydrostatic Pressure (A) 2319 P.S.I. Final Hydrostatic Pressure (H) 2330 P.S.I.

Tool Open I.F.P. from 2:00 p.m. to 2:30 p.m. 30 min  
 Tool Closed I.C.I.P. from 2:30 p.m. to 3:30 p.m. 60 min  
 Tool Open F.F.P. from 3:30 p.m. to 4:00 p.m. 30 min  
 Tool Closed F.C.I.P. from 4:00 p.m. to 5:00 p.m. 60 min

|   |
|---|
| from [B] <u>1580</u> P.S.I. to [C] <u>1363</u> P.S.I. |
| [D] <u>1580</u> P.S.I.                                |
| from [E] <u>1580</u> P.S.I. to [F] <u>1606</u> P.S.I. |
| [G] <u>1628</u> P.S.I.                                |

Initial Blow Strong blow bottom of a 5 gallon bucket in 1 minute  
 Final Blow Strong blow built to the bottom of a 5 gallon bucket in 2 minutes  
 Total Feet Recovered 13800 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

|  |       |       |       |         |
|--|-------|-------|-------|---------|
| <u>180</u> Feet of <u>MUD</u>                      | % Gas | % Oil | % Mud | % Water |
| <u>240</u> Feet of <u>WATERY MUD</u>               | % Gas | % Oil | % Mud | % Water |
| <u>2380</u> Feet of <u>WATER - CHLORIDES 49000</u> | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |
| _____ Feet of _____                                | % Gas | % Oil | % Mud | % Water |

Remarks \_\_\_\_\_

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None  
 Top Recorder No. 91981 Clock No. Electron Depth 4632 Cir. Sub None Sampler None  
 Bottom Recorder No. 11088 Clock No. 47441 Depth 4633 Insurance None

Price of Job \_\_\_\_\_  
 Tool Operator Don Rudy  
 Approved By \_\_\_\_\_  
 No 12504

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

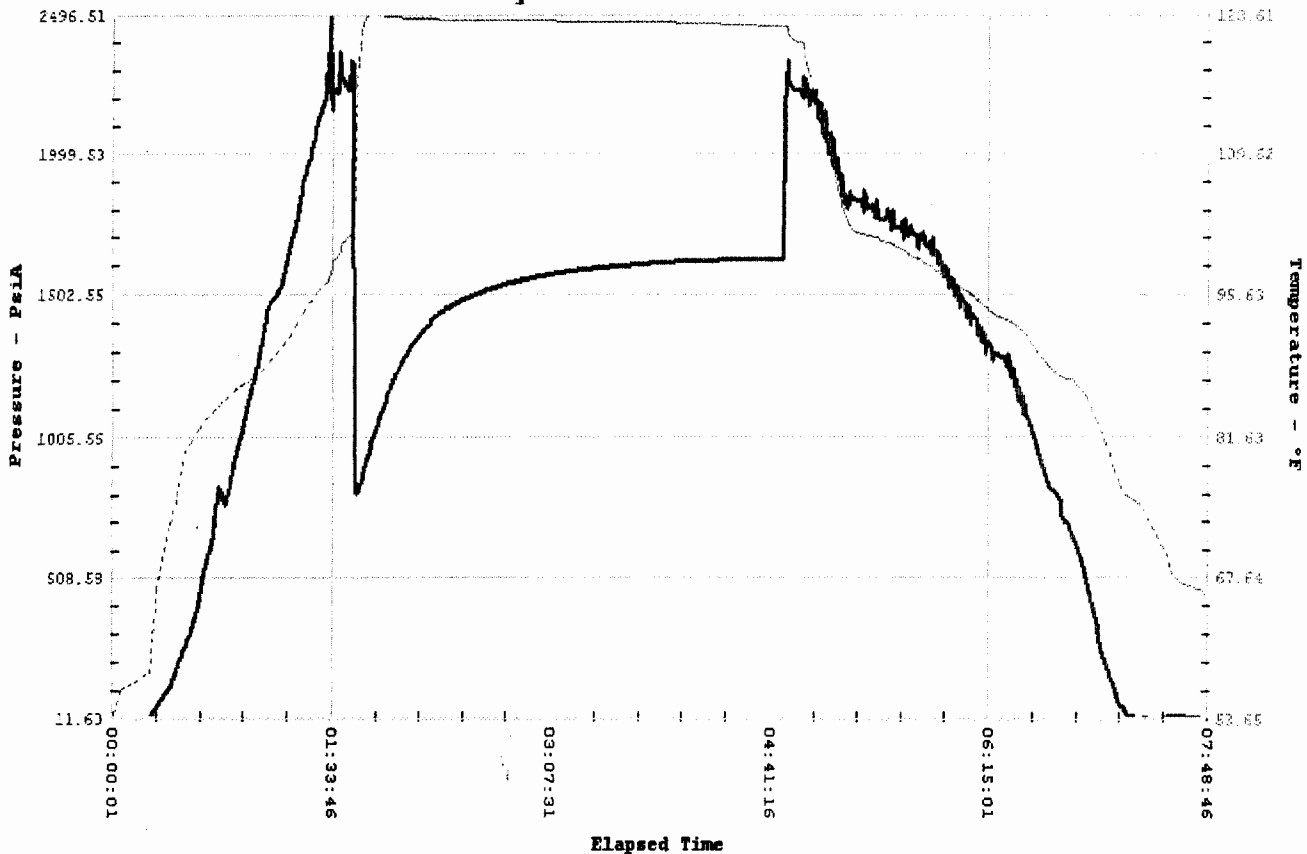
**CHART DATA**

(316) 792-6902

State ..... KANSAS  
 County ..... BARBER  
 Field .....

Test Date ..... 02-22-2004  
 Sec Town Range ..... 3-35S-14W  
 Report Number ..... 12504

*Temperature / Pressure Data*



**Field Reading**

|     |                              |      |
|-----|------------------------------|------|
| (1) | Initial Hydrostatic Pressure | 2319 |
| (2) | Initial Flow Pressure        | 878  |
| (3) | Final Initial Flow Pressure  | 1363 |
| (4) | Initial Shut-In Pressure     | 1580 |
| (5) | Initial Final Flow Pressure  | 1580 |
| (6) | Final Flow Pressure          | 1606 |
| (7) | Final Shut-In Pressure       | 1628 |
| (8) | Final Hydrostatic Pressure   | 2330 |

**ELECTRONIC RECORDER DEPTH 4629 FT, RECORDER NUMBER 91981**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. HAMPTON #1-3 Test #: 12 Date: 02-27-2004 SEC. 3 TWP.  
 35S RGE. 14W 30s  
 Griffitts

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**  
 GREAT BEND, KANSAS 67530 (316)792-6902

**GENERAL INFORMATION**

|                              |                                |                                |                     |
|------------------------------|--------------------------------|--------------------------------|---------------------|
| COMPANY NAME .....           | <b>F.G.HOLL COMPANY L.L.C.</b> | LEASE AND WELL NUMBER .....    | <b>HAMPTON #1-3</b> |
| TEST DATE .....              | <b>02-2202004</b>              | FORMATION TESTED .....         | <b>ARBUCKLE</b>     |
| SECTION-TOWN-RANGE .....     | <b>3-35S-14W</b>               | DRILL STEM TEST NUMBER .....   | <b>12</b>           |
| STATE .....                  | <b>KANSAS</b>                  | REPORT NUMBER .....            | <b>12504</b>        |
| COUNTY .....                 | <b>BARBER</b>                  | ELEVATION KELLY BUSHINGS ..... | <b>1959</b>         |
| ELEVATION GROUND LEVEL ..... | <b>1950</b>                    | TESTING ENGINEER .....         | <b>GENE BUDIG</b>   |
| COMPANY REPRESENTATIVE ..... | <b>BILL REE</b>                |                                |                     |

**TOOL SETTING INFORMATION**

|                            |             |                           |              |
|----------------------------|-------------|---------------------------|--------------|
| TEST INTERVAL (From) ..... | <b>4622</b> | TOP PACKER DEPTH .....    | <b>4617</b>  |
| TEST INTERVAL (to) .....   | <b>4636</b> | BOTTOM PACKER DEPTH ..... | <b>4622</b>  |
| ANCHOR LENGTH .....        | <b>14</b>   | NUMBER OF PACKERS .....   | <b>2</b>     |
| TOTAL DEPTH (ft) .....     | <b>4636</b> | PACKER SIZE .....         | <b>6 3/4</b> |
|                            |             | HOLE SIZE .....           | <b>7 7/8</b> |

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

*FINAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (to) .....

DURATION (min.) .....

*FINAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

**PRESSURE READINGS**

INITIAL HYDROSTATIC .....

INITIAL FLOW .....

FINAL INITIAL FLOW .....

INITIAL SHUT-IN .....

INITIAL FINAL FLOW .....

FINAL FLOW .....

FINAL SHUT-IN .....

FINAL HYDROSTATIC .....

MAXIMUM TEMPERATURE .....

TOP RECORDER DEPTH .....

RECORDER NUMBER .....

BOTTOM RECORDER DEPTH .....

RECORDER NUMBER .....

**INITIAL BLOW                      STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE**

**FINAL BLOW                      STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 2 MINUTES**

**EXTRA EQUIPMENT**

|                           |            |                          |           |
|---------------------------|------------|--------------------------|-----------|
| JARS .....                | <b>NO</b>  | EXTRA PACKER (3RD) ..... | <b>NO</b> |
| SAFETY JOINT .....        | <b>YES</b> | EXTRA PACKER (4TH) ..... | <b>NO</b> |
| ELECTRONIC RECORDER ..... | <b>YES</b> | STRADDLE .....           | <b>NO</b> |
| CIRCULATING SUB .....     | <b>NO</b>  | HOOK WALL .....          | <b>NO</b> |
|                           |            | SAMPLER .....            | <b>NO</b> |

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **4360**

DRILL PIPE I.D. .... **3.8**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

DRILL COLLAR LENGTH ..... **243**

DRILL COLLAR I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

WEIGHT PIPE LENGTH .....

WEIGHT PIPE I.D. .... **2.25**

TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL ..... **9.2+**

VISCOSITY ..... **48**

WATER LOSS ..... **12.8**

CHLORIDES-PITS ..... **11000**

CHLORIDES-DST ..... **49000**

|     | FEET OF RECOVERY | RECOVERY DESCRIPTION  | %   | %   | %   | %     |
|-----|------------------|-----------------------|-----|-----|-----|-------|
|     |                  |                       | GAS | OIL | MUD | WATER |
| 1)  | 100              | GASSY MUD             |     |     |     |       |
| 2)  | 240              | GASSY WATERY MUD      |     |     |     |       |
| 3)  | 3000             | GASSY WATER           |     |     |     |       |
| 4)  |                  |                       |     |     |     |       |
| 5)  |                  |                       |     |     |     |       |
| 6)  |                  |                       |     |     |     |       |
| 7)  |                  |                       |     |     |     |       |
| 8)  |                  |                       |     |     |     |       |
| 9)  |                  |                       |     |     |     |       |
| 10) |                  |                       |     |     |     |       |
| 11) |                  |                       |     |     |     |       |
| 12) |                  |                       |     |     |     |       |
| 13) |                  |                       |     |     |     |       |
| 14) |                  |                       |     |     |     |       |
| 15) |                  |                       |     |     |     |       |
|     |                  | <b>TOTAL RECOVERY</b> |     |     |     |       |

### COMMENTS