

F.G. Hall Co.

J.M. Shriver 1-4

4-30s-14w

15-007-22728

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 01-21-2003 Location C<sup>1</sup>/<sub>2</sub>-<sup>1</sup>/<sub>2</sub>-SE 4-30-14<sup>W</sup> Elevation 1971GL County Barber

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

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Steeling Drilling Rig #4

Length Drill Pipe 1926 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 2195 Bottom Packer Depth 2200 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2200 TO 2255 ANCHOR LENGTH 55 TOTAL DEPTH 2255 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shriver #1-4 FORMATION TESTED Herington-Kridner TEST NO. 1

Mud Weight 8.7 Viscosity 63 Water Loss 6.4 Chlorides - Pits 3000 D.S.T. \_\_\_\_\_

Maximum Temp. 83 °F Initial Hydrostatic Pressure (A) 1103 P.S.I. Final Hydrostatic Pressure (H) 1095 P.S.I.

Tool Open I.F.P. from 3:15 A.M. to 3:30 A.M. 15 min

Tool Closed I.C.I.P. from 3:30 A.M. to 4:00 A.M. 30 min

Tool Open F.F.P. from 4:00 A.M. to 4:15 A.M. 15 min

Tool Closed F.C.I.P. from 4:15 A.M. to 4:45 m 30 min

Initial Blow WEAK blow for 12 minutes & DIED

Final Blow WEAK blow for 8 minutes & DIED

Total Feet Recovered 70 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

<u>70</u> Feet of <u>Drill 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

from [B] <u>72</u> P.S.I. to [C] <u>92</u> P.S.I.
[D] <u>176</u> P.S.I.
from [E] <u>101</u> P.S.I. to [F] <u>107</u> P.S.I.
[G] <u>161</u> P.S.I.

Remarks \_\_\_\_\_

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

Top Recorder No. 87507 Clock No. Electronic Depth 2248 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 2252 Insurance NONE

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

Tool Operator Gene Bault

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

No. 12336

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

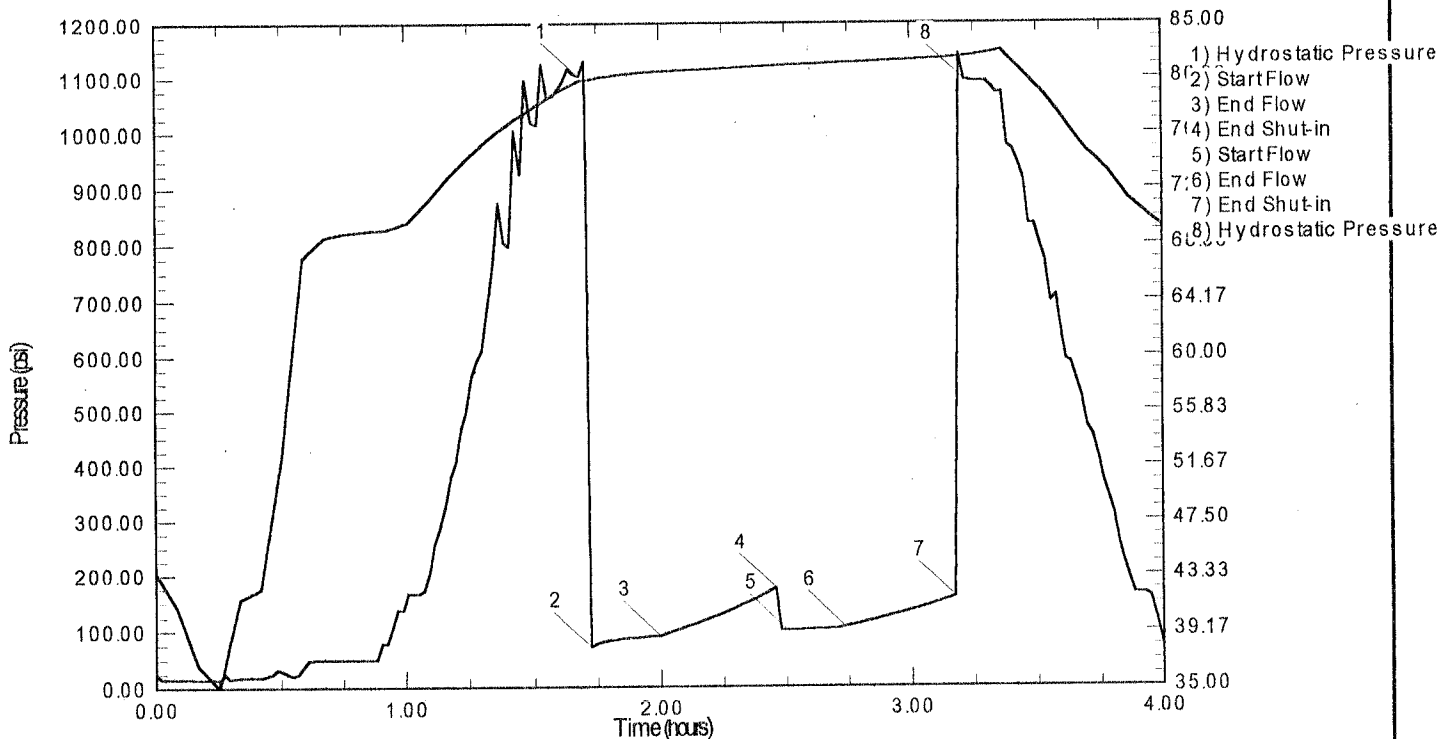
(316) 792-6902

ORIGINAL

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

Test Date ..... January 21, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12336

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 1 Date: 01-21-2003 SEC. 4 TWP.  
 20S RGE. 14W 30S



**Field Reading**

(1)	Initial Hydrostatic Pressure	1103
(2)	Initial Flow Pressure	72
(3)	Final Initial Flow Pressure	92
(4)	Initial Shut-In Pressure	176
(5)	Initial Final Flow Pressure	101
(6)	Final Flow Pressure	107
(7)	Final Shut-In Pressure	161
(8)	Final Hydrostatic Pressure	1095

ELECTRONIC RECORDER DEPTH 2248 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/21/03</b>	FORMATION TESTED .....	<b>HERRINGTON-KRIDER</b>
SECTION-TOWN-RANGE .....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER .....	<b>1</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12336</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>2200</b>	TOP PACKER DEPTH .....	<b>2195</b>
TEST INTERVAL (to) .....	<b>2255</b>	BOTTOM PACKER DEPTH .....	<b>2200</b>
ANCHOR LENGTH .....	<b>55</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>2255</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>3:15</b>
TOOL OPEN (to) .....	<b>3:30</b>
DURATION (min.) .....	<b>15</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>3:30</b>
TOOL CLOSED (to) .....	<b>4:00</b>
DURATION (min.) .....	<b>30</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>4:00</b>
TOOL OPEN (to) .....	<b>4:15</b>
DURATION (min.) .....	<b>15</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>4:15</b>
TOOL CLOSED (to) .....	<b>4:45</b>
DURATION (min.) .....	<b>30</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1103</b>
INITIAL FLOW .....	<b>72</b>
FINAL INITIAL FLOW .....	<b>92</b>
INITIAL SHUT-IN .....	<b>176</b>
INITIAL FINAL FLOW .....	<b>101</b>
FINAL FLOW .....	<b>107</b>
FINAL SHUT-IN .....	<b>161</b>
FINAL HYDROSTATIC .....	<b>1095</b>
MAXIMUM TEMPERATURE .....	<b>83</b>
TOP RECORDER DEPTH .....	<b>2248</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>2252</b>
RECORDER NUMBER .....	<b>13208</b>

INITIAL BLOW

**WEAK BLOW FOR 12 MINUTES AND DIED**

FINAL BLOW

**WEAK BLOW FOR 8 MINUTES AND DIED**

### 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 ..... **1926**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **8.7**

VISCOSITY ..... **63**

WATER LOSS ..... **6.2**

CHLORIDES-PITS ..... **3000**

CHLORIDES-DST .....

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	70 drilling mud				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
TOTAL RECOVERY					

**COMMENTS**

# Superior Testers Enterprises, Inc. ORIGINAL

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

1980KB

Date 01-22-2003 Location C 1/2 - 1/2 - 3E 4-30-14<sup>W</sup> Elevation 1971.6L County Barber

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

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita, Kansas 67278-0167

Drilling Contractor Stratling Drilling Rig #4

Length Drill Pipe 2556 I.D. Drill Pipe 3.86 Tool Joint Size 4 1/2" X. H.

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

Length Drill Collars 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 2826 Bottom Packer Depth 2831 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2831 TO 2864 ANCHOR LENGTH 33 TOTAL DEPTH 2864 Hole Size 7 7/8

LEASE & WELL NO. J.M. Shriner #1-4 FORMATION TESTED RED EAGLE TEST NO. 2

Mud Weight 9.4 Viscosity 41 Water Loss 12.8 Chlorides - Pits 32000 D.S.T. 92000

Maximum Temp. 91 °F Initial Hydrostatic Pressure (A) 1482 S.I. Final Hydrostatic Pressure (H) 1426 P.S.I

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

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

Tool Open F.F.P. from 7:00 pm to 8:00 pm 60 min

Tool Closed F.C.I.P. from 8:00 pm to 9:30 pm 90 min

Initial Blow Strong Blow - Gas to Surface in 3 minutes

Final Blow Strong Blow - SEE Gas Flow Report

Total Feet Recovered 275 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

275 Feet of SLIGHTLY Gassy Muddy water % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of CHLORIDES 92000 % 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. 87507 Clock No. Electronic Depth 2857 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 42441 Depth 2861 Insurance NONE

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

Tool Operator Gene Dudy

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

**NO 12337**

from [B] 586 P.S.I. to [C] 703 P.S.I.  
[D] 1069 P.S.I.  
from [E] 691 P.S.I. to [F] 721 P.S.I.  
[G] 1058 P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

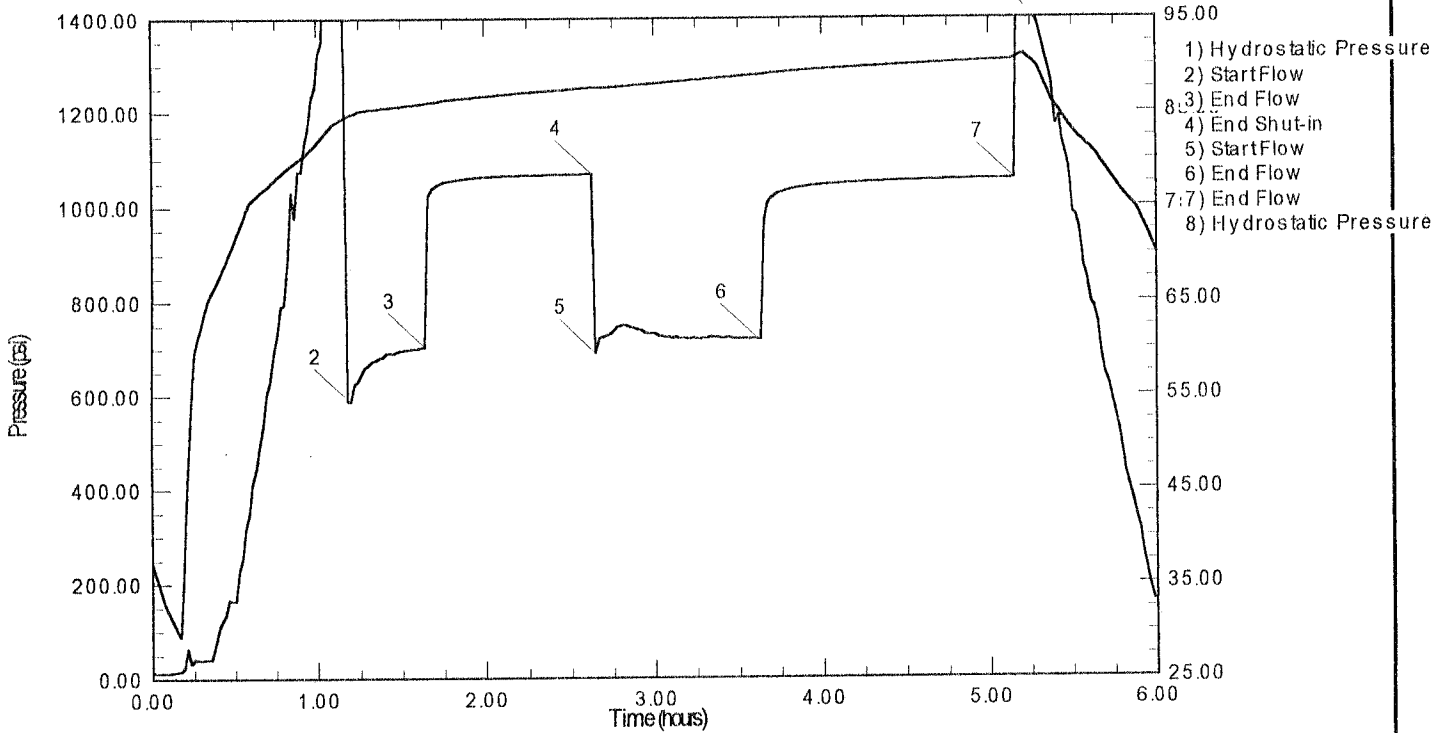
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 2 Date: 01-22-2003 SEC. 4 TWP.  
 30S RGE. 14W

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

Test Date ..... January 22, 2003  
 Sec Town Range ..... 4-32S-14W  
 Report Number ..... 12337



**Field Reading**

(1)	Initial Hydrostatic Pressure	1482
(2)	Initial Flow Pressure	586
(3)	Final Initial Flow Pressure	705
(4)	Initial Shut-In Pressure	1069
(5)	Initial Final Flow Pressure	691
(6)	Final Flow Pressure	721
(7)	Final Shut-In Pressure	1058
(8)	Final Hydrostatic Pressure	1426

ELECTRONIC RECORDER DEPTH 2857 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER#1-4</b>
TEST DATE .....	<b>1/22/03</b>	FORMATION TESTED .....	<b>RED EAGLE</b>
SECTION-TOWN-RANGE .....	<b>4-32S-14W</b>	DRILL STEM TEST NUMBER .....	<b>2</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12337</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>2831</b>	TOP PACKER DEPTH .....	<b>2826</b>
TEST INTERVAL (to) .....	<b>2864</b>	BOTTOM PACKER DEPTH .....	<b>2831</b>
ANCHOR LENGTH .....	<b>33</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>2864</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>5:30</b>
TOOL OPEN (to) .....	<b>6:00</b>
DURATION (min.) .....	<b>30</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>6:00</b>
TOOL CLOSED (to) .....	<b>7:00</b>
DURATION (min.) .....	<b>60</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>7:00</b>
TOOL OPEN (to) .....	<b>8:00</b>
DURATION (min.) .....	<b>60</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>8:00</b>
TOOL CLOSED (to) .....	<b>9:30</b>
DURATION (min.) .....	<b>90</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1482</b>
INITIAL FLOW .....	<b>586</b>
FINAL INITIAL FLOW .....	<b>705</b>
INITIAL SHUT-IN .....	<b>1069</b>
INITIAL FINAL FLOW .....	<b>691</b>
FINAL FLOW .....	<b>721</b>
FINAL SHUT-IN .....	<b>1058</b>
FINAL HYDROSTATIC .....	<b>1426</b>
MAXIMUM TEMPERATURE .....	<b>91</b>
TOP RECORDER DEPTH .....	<b>2857</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>3861</b>
RECORDER NUMBER .....	<b>13208</b>

### INITIAL BLOW

**STRONG BLOW WITH GAS TO SURFACE IN 3 MINUTES**

### FINAL BLOW

**STRONG BLOW SEE GAS FLOW REPORT**

### EXTRA EQUIPMENT

JARS .....	<b>Y4ES</b>	EXTRA PACKER (3RD) .....	<b>NO</b>
SAFETY JOINT .....	<b>Y4ES</b>	EXTRA PACKER (4TH) .....	<b>NO</b>
ELECTRONIC RECORDER .....	<b>Y4ES</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 ..... **2556**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **9.4+**

VISCOSITY ..... **41**

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

CHLORIDES-PITS ..... **32000**

CHLORIDES-DST ..... **92000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	275	SLIGHTLY GASSY MUJDDY WATER CHLORIDES 9200				
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 ..... 1/22/03

COUNTY..... BARBER

Sec Town Range ..... 4-32S-14W

FIELD.....

Report Number ..... 12337

## Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT	5:40	10			15		2830.000
5:30 WITH GAS	5:50	20			16		2930.000
TO SURFACE IN	6:00	30			16		2930.000
3 MINUTES AT							
5:33							

## Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	7:05	5		20		1 1/2	1949.000
AT 7:00	7:15	15		22		1 1/2	2075.000
	7:25	25		22		1 1/2	2075.000
	7:35	35		22		1 1/2	2075.000
	7:45	45		22		1 1/2	2075.000
	7:55	55		22		1 1/2	2075.000
	8:00	60		22		1 1/2	2075.000
<b>THERE WAS A GAS SAMPLE TAKEN</b>							

Field :  
County or Parish :  
State :

Date Printed: 01/23/03 18:08:58  
Analysis Period : 1st shut-in  
Comment : Line #

---

Superposition Slope -> m' ..... -742.447300  
Horner Slope -> m ..... -2.175370E+6  
Intercept ..... 1.092E+8  
P(dt=1 hr) ..... 1.088E+8  
Pwf ..... 7.317E+7  
R Sqr ..... 0.9992

Intercept (psi) ..... 1076.040  
k (md) ..... 67.61603  
kh (md-ft) ..... 1217.08846  
k/u (md/cp) ..... 620.90013  
kh/uB (md-ft/cp) ..... 11176.20226  
Skin ..... 17.1721  
DP Skin ..... 508.0026  
Total DP ..... 370.6267  
Percent DP ..... 137.07%

Radius Invest (ft) ..... 23  
Radius Time (hrs) ..... 0.97

Delta Q = ..... 2930  
h (ft)= ..... 18  
mu (cp) = ..... 0.1089  
B (stb/scf) = ..... 0.1284

First Point # ..... 6  
Second Point # ..... 38  
Start Real Time ..... 0.105  
End Real Time ..... 0.777  
Start SF Time ..... 2097.792

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

## SUPERPOSITION ANALYSIS

(316) 792-6902

### 1ST SHUT-IN

State ..... KANSAS

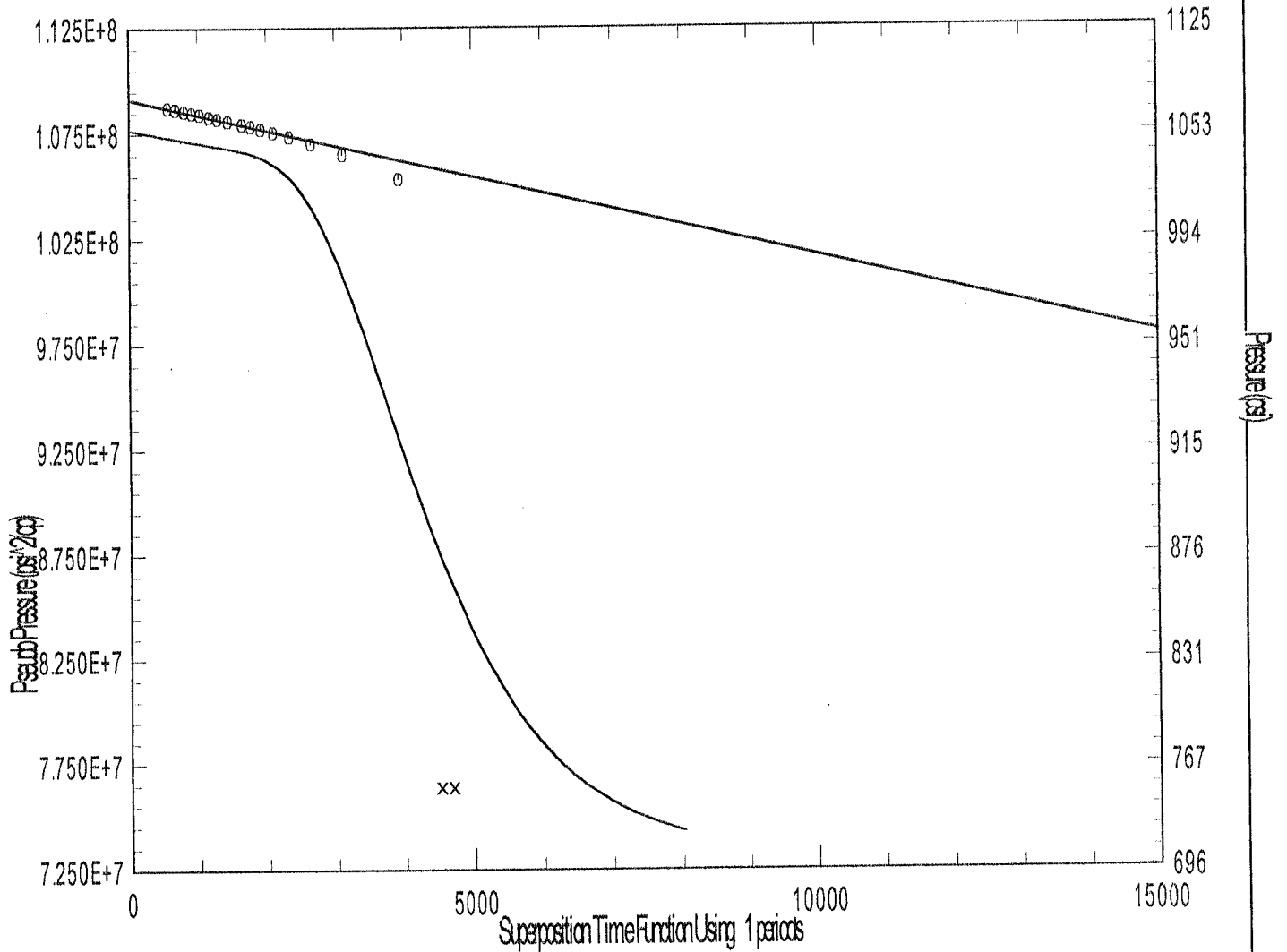
Test Date ..... 1/22/03

County ..... BARBER

Sec Town Range ..... 4-32S-14W

Field .....

Report Number ..... 12337



**MODEL RESULTS**

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 18 ft
C1 : 0.004 bbl/psi	Skin : 18.35	k : 73.091 md		mu : 0.109 cp
		Est Pi: 1055.4 psi		phi : 18.0%
				ct : 6.750E-03 1/psi
				rw : 3.208 ft
				BHT : 92 F
				FVF : 0.13

Field :  
County or Parish :  
State :

Date Printed: 01/23/03 18:41:17  
Analysis Period : 2nd shut-in  
Comment : Line #

---

Superposition Slope -> m' ..... -2334.298000  
Horner Slope -> m ..... -4.843669E+6  
Intercept ..... 1.683E+8  
P(dt=1 hr) ..... 1.668E+8  
Pwf ..... 1.197E+8  
R Sqr ..... 0.9997

Intercept (psi) ..... 1064.783  
k (md) ..... 38.71074  
kh (md-ft) ..... 387.10737  
k/u (md/cp) ..... 650.60061  
kh/uB (md-ft/cp) ..... 6506.00609  
Skin ..... 9.1567  
DP Skin ..... 272.5794  
Total DP ..... 344.5619  
Percent DP ..... 79.11%

Radius Invest (ft) ..... 40  
Radius Time (hrs) ..... 1.51

Delta Q = ..... 2075  
h (ft)= ..... 10  
mu (cp) = ..... 0.0595  
B (stb/scf) = ..... 0.6795

First Point # ..... 8  
Second Point # ..... 65  
Start Real Time ..... 0.147  
End Real Time ..... 1.344  
Start SF Time ..... 1841.140

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

## SUPERPOSITION ANALYSIS

(316) 792-6902

### 2ND SHUT-IN

State ..... KANSAS

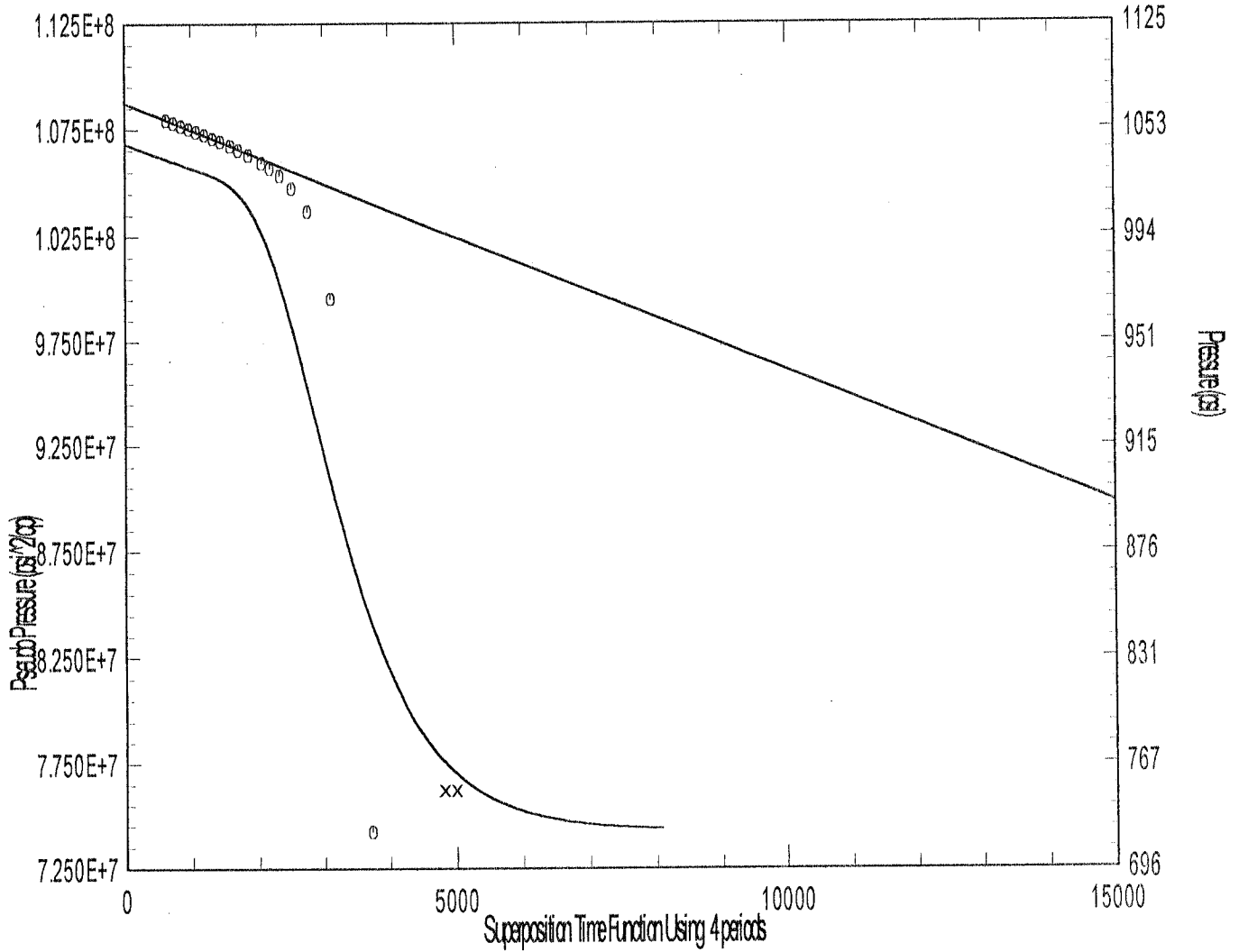
Test Date ..... 1/22/03

County ..... BARBER

Sec Town Range ..... 4-32S-14W

Field .....

Report Number ..... 12337



#### MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 18 ft
C1 : 0.008 bbl/psi	Skin : 13.40	k : 41.656 md		mu : 0.109 cp
		Est Pi: 1043.2 psi		phi : 18.0%
				ct : 7.650E-03 1/psi
				rw : 3.208 ft
				BHT : 92 F
				FVF : 0.72

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 01-23-2003 Location C. 7 1/2 - 1/2 - S E 4-30-14 W Elevation 1980 RB County Barber

Company F.C. Hall Company LLC Number of Copies 5

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita Kansas 67228-0167

Drilling Contractor Steeling Drilling Rig #4

Length Drill Pipe 2749 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 4.

Top Packer Depth 3019 Bottom Packer Depth 3024 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3024 TO 3067 ANCHOR LENGTH 43 TOTAL DEPTH 3067 Hole Size 2 7/8"

LEASE & WELL NO. J.M. Shriener #1-4 FORMATION TESTED LAWSON SAND TEST NO. 3

Mud Weight 8.8 Viscosity 50 Water Loss 0.7 Chlorides - Pits 6000 D.S.T. \_\_\_\_\_

Maximum Temp. 92 °F Initial Hydrostatic Pressure (A) 1489 P.S.I. Final Hydrostatic Pressure (H) 1405 P.S.I.

Tool Open I.F.P. from 2:45 p.m. to 3:15 p.m. 30 min

Tool Closed I.C.I.P. from 3:15 p.m. to 4:15 p.m. 60 min

Tool Open F.F.P. from 4:15 p.m. to 4:45 p.m. 30 min

Tool Closed F.C.I.P. from 4:45 p.m. to 5:45 p.m. 60 min

Initial Blow Fair blow built to the bottom of a 5 gallon bucket in 7 minute

Final Blow Strong blow decreased to a fair blow

Total Feet Recovered 65 Gravity of Oil \_\_\_\_\_ Correctec

<u>65</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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 87507 Clock No. Electron Depth 3060 Cir. Sub none Sampler none

Bottom Recorder No. 13204 Clock No. 47441 Depth 3064 Insurance none

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

Tool Operator Don Guly

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

No. 12338

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.**

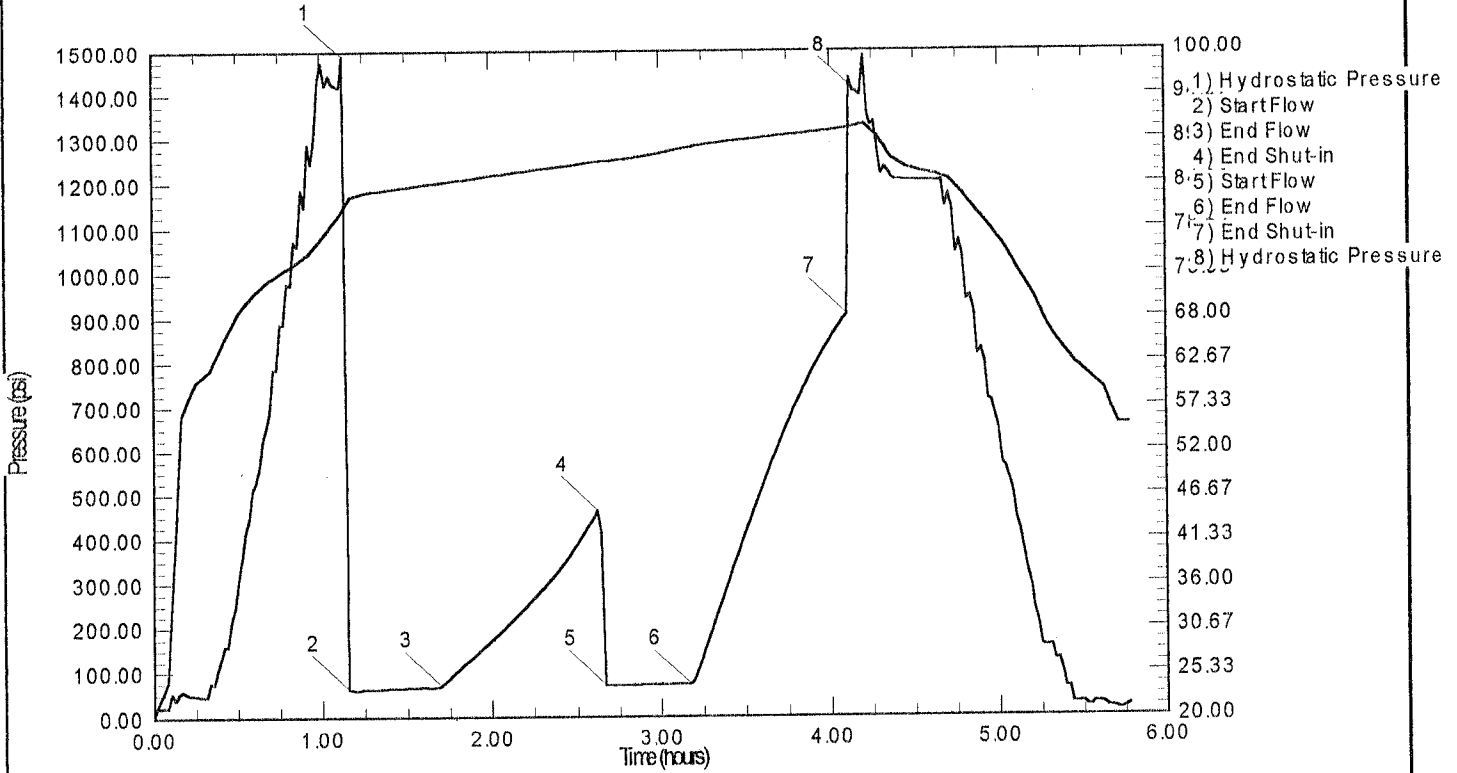
Great Bend, Kansas

**CHART DATA ORIGINAL** (316) 792-6902

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 3 Date: 02-23-2003 SEC. 4 TWP.  
 305 RGE. 14W

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

Test Date ..... January 23, 2003  
 Sec Town Range ..... 4-30W-14W  
 Report Number ..... 12336



**Field Reading**

(1)	Initial Hydrostatic Pressure	1489
(2)	Initial Flow Pressure	63
(3)	Final Initial Flow Pressure	70
(4)	Initial Shut-In Pressure	464
(5)	Initial Final Flow Pressure	72
(6)	Final Flow Pressure	72
(7)	Final Shut-In Pressure	907
(8)	Final Hydrostatic Pressure	1405

**ELECTRONIC RECORDER DEPTH 3060 FT, RECORDER NUMBER 87607**

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/23/03</b>	FORMATION TESTED .....	<b>LANGDON SAND</b>
SECTION-TOWN-RANGE .....	<b>4-30W-14W</b>	DRILL STEM TEST NUMBER .....	<b>3</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12336</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>3024</b>	TOP PACKER DEPTH .....	<b>3019</b>
TEST INTERVAL (to) .....	<b>3067</b>	BOTTOM PACKER DEPTH .....	<b>3024</b>
ANCHOR LENGTH .....	<b>43</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>3067</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

<i>INITIAL OPEN</i>	
TOOL OPEN (from) .....	<b>2:45</b>
TOOL OPEN (to) .....	<b>3:15</b>
DURATION (min.) .....	<b>30</b>
<i>INITIAL SHUT-IN</i>	
TOOL CLOSED (from) .....	<b>3:15</b>
TOOL CLOSED (to) .....	<b>4:15</b>
DURATION (min.) .....	<b>60</b>
<i>FINAL OPEN</i>	
TOOL OPEN (from) .....	<b>4:15</b>
TOOL OPEN (to) .....	<b>4:45</b>
DURATION (min.) .....	<b>30</b>
<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from) .....	<b>4:45</b>
TOOL CLOSED (to) .....	<b>5:45</b>
DURATION (min.) .....	<b>60</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1489</b>
INITIAL FLOW .....	<b>63</b>
FINAL INITIAL FLOW .....	<b>70</b>
INITIAL SHUT-IN .....	<b>464</b>
INITIAL FINAL FLOW .....	<b>72</b>
FINAL FLOW .....	<b>72</b>
FINAL SHUT-IN .....	<b>907</b>
FINAL HYDROSTATIC .....	<b>1405</b>
MAXIMUM TEMPERATURE .....	<b>92</b>
TOP RECORDER DEPTH .....	<b>3060</b>
RECORDER NUMBER .....	<b>87607</b>
BOTTOM RECORDER DEPTH .....	<b>3064</b>
RECORDER NUMBER .....	<b>13208</b>

### INITIAL BLOW

**FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 7 MINUTES**

### FINAL BLOW

**STRONG BLOW DECREASED TO A FAIR 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 ..... **2749**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **8.8**

VISCOSITY ..... **50**

WATER LOSS ..... **8**

CHLORIDES-PITS ..... **6000**

CHLORIDES-DST .....

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	DRILLING MUD				
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

ORIGINAL

Date 1-24-03 Location C<sup>1</sup>/<sub>2</sub>-N<sup>1</sup>/<sub>2</sub>-S<sup>2</sup>/<sub>8</sub> 4-30-14<sup>W</sup> Elevation 1971.66 County BACHER

Company F.P. Wolf Company LLC Number of Copies 5

Charts Mailed to 9431 East Kenooga P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 3018 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" x 11

Top Packer Depth 3288 Bottom Packer Depth 3293 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3293 TO 3330 ANCHOR LENGTH 37 TOTAL DEPTH 3330 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shower #1-4 FORMATION TESTED BEAN TEST NO. 4

Mud Weight 8.9 Viscosity 6.5 Water Loss 10.4 Chlorides - Pits 5000 D.S.T. 72000

Maximum Temp. 98 °F Initial Hydrostatic Pressure (A) 1901 P.S.I. Final Hydrostatic Pressure (H) 1559 P.S.I.

Tool Open I.F.P. from 1:30 p.m. to 2:00 p.m. 30 min  
Tool Closed I.C.I.P. from 2:00 p.m. to 3:00 p.m. 60 min  
Tool Open F.F.P. from 3:00 p.m. to 3:30 p.m. 30 min  
Tool Closed F.C.I.P. from 3:30 p.m. to 4:30 p.m. 60 min

from [B] <u>64</u> P.S.I. to [C] <u>96</u> P.S.I.
[D] <u>1086</u> P.S.I.
from [E] <u>107</u> P.S.I. to [F] <u>133</u> P.S.I.
[G] <u>952</u> P.S.I.

Initial Blow WEAK building blow built to 12 inches into the water

Final Blow WEAK building blow built to 6 inches into the water

Total Feet Recovered 180 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

150 Feet of SLIGHTLY watercut Gassy mud 10% Gas 2% Oil 50% Mud 38% Water

30 Feet of SLIGHTLY Gassy mud cut water 5 1/2% Gas 1/2% Oil 18% Mud 76% Water

Feet of with a trace of oil \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

Feet of CHLORIDES 72000 \_\_\_\_\_ % 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. 87507 Clock No. Electronic Depth 3223 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 77441 Depth 3227 Insurance NONE

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

Tool Operator Don Dubey

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 12339

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

CHART DATA

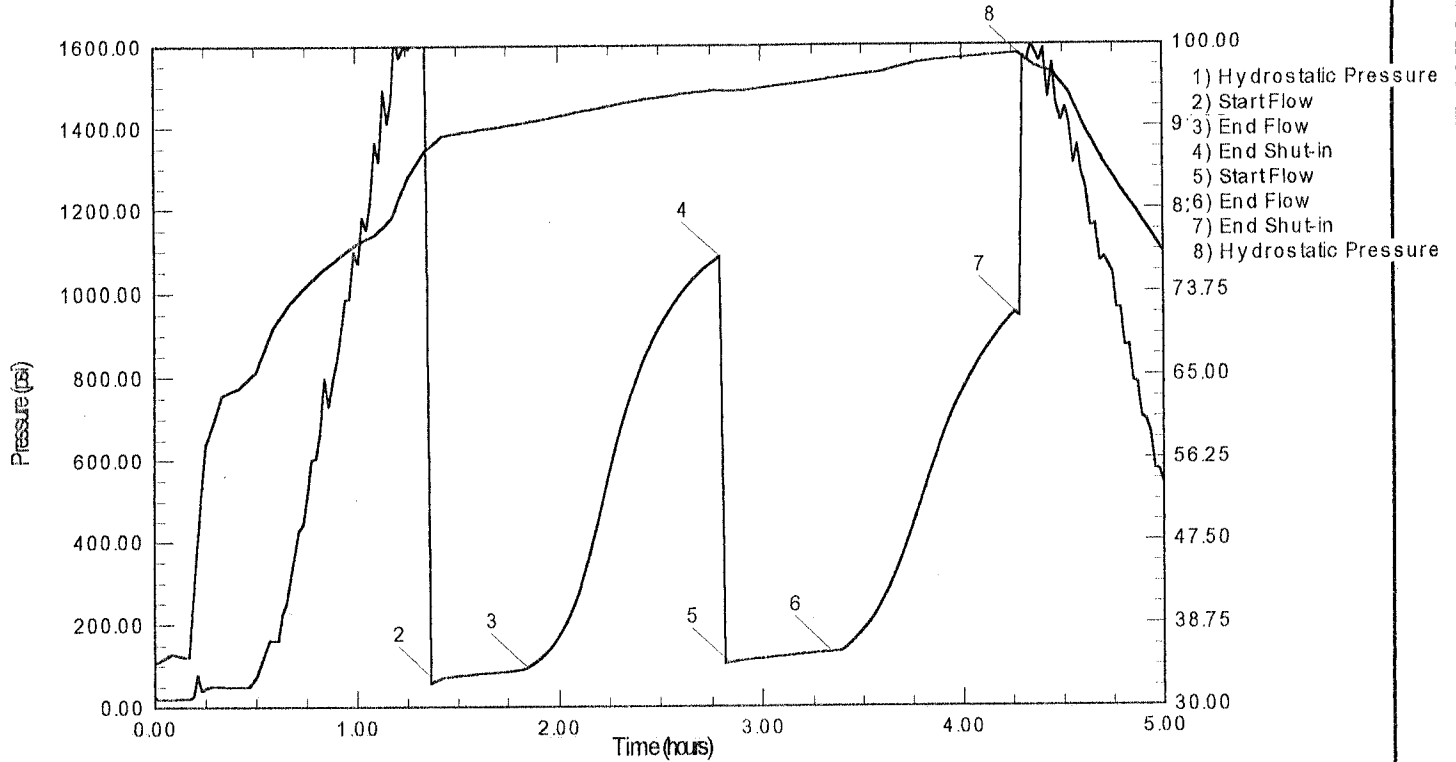
(316) 792-6902

ORIGINAL

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

Test Date ..... January 24, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12339

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 4 Date: 01-24-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1901
(2)	Initial Flow Pressure	64
(3)	Final Initial Flow Pressure	96
(4)	Initial Shut-In Pressure	1086
(5)	Initial Final Flow Pressure	107
(6)	Final Flow Pressure	133
(7)	Final Shut-In Pressure	952
(8)	Final Hydrostatic Pressure	1559

ELECTRONIC RECORDER DEPTH 3223 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER #1-4</b>
TEST DATE	.....	<b>1/24/03</b>	FORMATION TESTED	.....	<b>BERN</b>
SECTION-TOWN-RANGE	.....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER	.....	<b>4</b>
STATE	.....	<b>KANSAS</b>	REPORT NUMBER	.....	<b>12339</b>
COUNTY	.....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS	.....	<b>1980</b>
ELEVATION GROUND LEVEL	.....	<b>1971</b>	TESTING ENGINEER	.....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE	.....	<b>BILL REE</b>			

### TOOL SETTING INFORMATION

TEST INTERVAL (From)	.....	<b>3293</b>	TOP PACKER DEPTH	.....	<b>3288</b>
TEST INTERVAL (to)	.....	<b>3330</b>	BOTTOM PACKER DEPTH	.....	<b>3293</b>
ANCHOR LENGTH	.....	<b>37</b>	NUMBER OF PACKERS	.....	<b>2</b>
TOTAL DEPTH (ft)	.....	<b>3330</b>	PACKER SIZE	.....	<b>6 3/4</b>
			HOLE SIZE	.....	<b>7 7/8</b>

### FLOW TIMES

<i>INITIAL OPEN</i>	
TOOL OPEN (from)	..... <b>1:30</b>
TOOL OPEN (to)	..... <b>2:00</b>
DURATION (min.)	..... <b>30</b>
<i>INITIAL SHUT-IN</i>	
TOOL CLOSED (from)	..... <b>2:00</b>
TOOL CLOSED (to)	..... <b>3:00</b>
DURATION (min.)	..... <b>60</b>
<i>FINAL OPEN</i>	
TOOL OPEN (from)	..... <b>3:00</b>
TOOL OPEN (to)	..... <b>3:30</b>
DURATION (min.)	..... <b>30</b>
<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from)	..... <b>3:30</b>
TOOL CLOSED (to)	..... <b>4:30</b>
DURATION (min.)	..... <b>60</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC	.....	<b>1901</b>
INITIAL FLOW	.....	<b>64</b>
FINAL INITIAL FLOW	.....	<b>96</b>
INITIAL SHUT-IN	.....	<b>1086</b>
INITIAL FINAL FLOW	.....	<b>107</b>
FINAL FLOW	.....	<b>133</b>
FINAL SHUT-IN	.....	<b>952</b>
FINAL HYDROSTATIC	.....	<b>1559</b>
MAXIMUM TEMPERATURE	.....	<b>98</b>
TOP RECORDER DEPTH	.....	<b>3223</b>
RECORDER NUMBER	.....	<b>87507</b>
BOTTOM RECORDER DEPTH	.....	<b>3227</b>
RECORDER NUMBER	.....	<b>13208</b>

### INITIAL BLOW

**WEAK BUILDING BLOW BUILT TO 12 INCHES INTO THE WATER**

### FINAL BLOW

**WEAK BUILDING BLOW BUILT TO 6 INCHES INTO THE WATER**

### 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 ..... **3018**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **65**

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

CHLORIDES-PITS ..... **5000**

CHLORIDES-DST ..... **72000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	150	SLIGHTLY WASTER CUT GASSY MUD	10	2	50	38
2)	30	SLIGHTLY GASSY MUD CUT WATER WITH A TRACE OF OIL	5 1/2	1/2	18	76
3)		CHLORIDES 72000				
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

### COMMENTS

# Superior Testers Enterprises, Inc.

ORIGINAL

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

(316) 792-6902

Date 01-25-2003 Location C 1/2 - N 1/2 - E 1/4 4-30-14 Elevation 1980KB. 19716L County Barber

Company ~~Star~~ F.G. Holl Company L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita, Kansas 67278-0167

Drilling Contractor Steelings Drilling Rig #4

Length Drill Pipe 3350 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3598 Bottom Packer Depth 3603 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3603 TO 3633 ANCHOR LENGTH 33 TOTAL DEPTH 3633 Hole Size 7 7/8"

LEASE & WELL NO. F.M. Shower #1-4 FORMATION TESTED Topex TEST NO. 5

Mud Weight 9.9 Viscosity 55 Water Loss 10.4 Chlorides - Pits 7000 D.S.T. 58000

Maximum Temp. 102 °F Initial Hydrostatic Pressure (A) 1792 P.S.I. Final Hydrostatic Pressure (H) 1759 P.S.I.

Tool Open I.F.P. from 1:25 p.m. to 1:30 p.m. 15 min

Tool Closed I.C.I.P. from 1:30 p.m. to 2:00 p.m. 30 min

Tool Open F.F.P. from 2:00 p.m. to 2:30 p.m. 15 min

Tool Closed F.C.I.P. from 2:30 p.m. to 2:45 p.m. 30 min

Initial Blow WEAK blow for 12 minutes & DIED

Final Blow WEAK blow for 8 minutes & DIED

Total Feet Recovered 250 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

250 Feet of Muddy 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 \_\_\_\_\_

\_\_\_\_\_ 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. 87507 Clock No. Electronic Depth 3626 Cir. Sub. NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3630 Insurance NONE

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

Tool Operator Jambuly

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

No. 12340

from [B] <u>51</u> P.S.I. to [C] <u>111</u> P.S.I.
[D] <u>1359</u> P.S.I.
from [E] <u>117</u> P.S.I. to [F] <u>161</u> P.S.I.
[G] <u>1348</u> P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

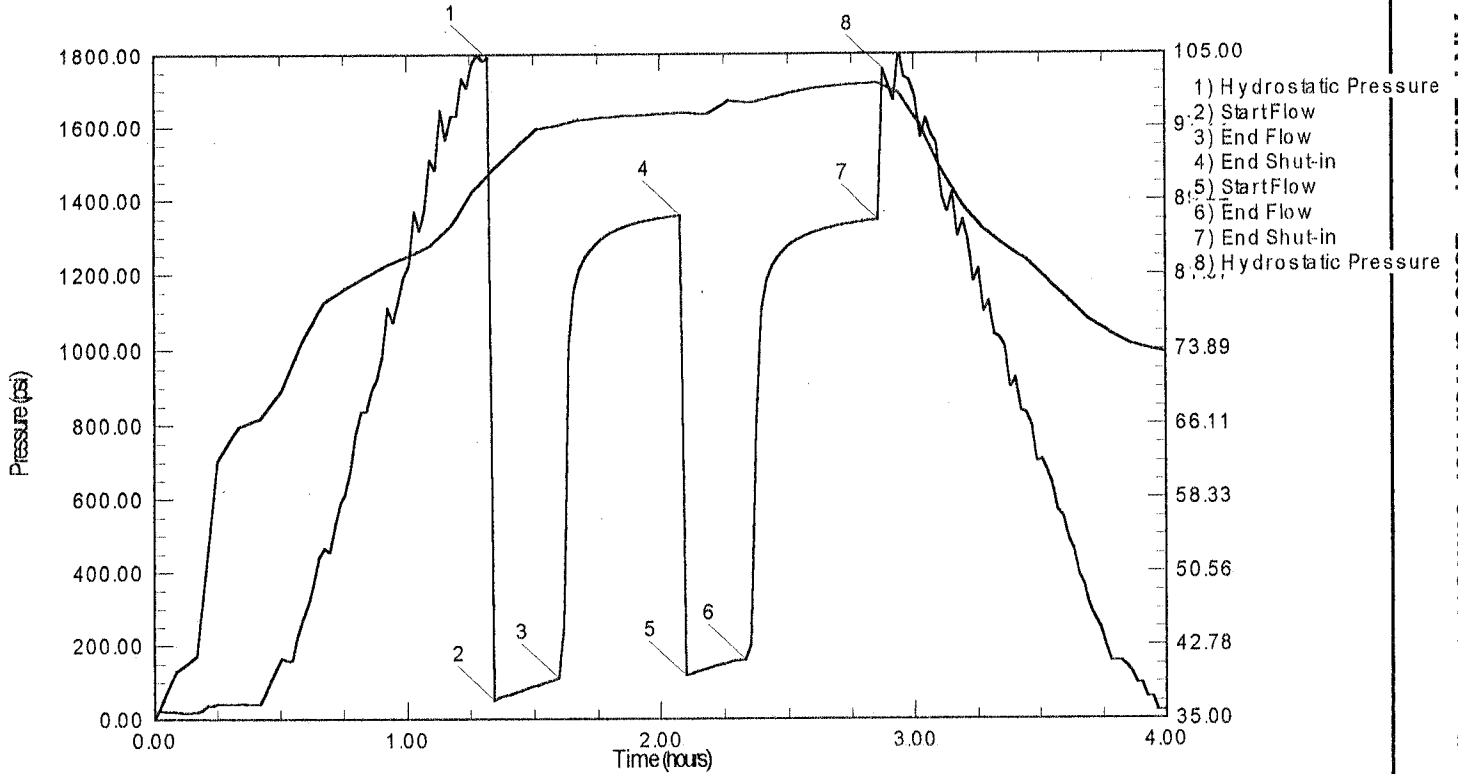
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

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

Test Date ..... January 25, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12340

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 5 Date: 01-25-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1792
(2)	Initial Flow Pressure	51
(3)	Final Initial Flow Pressure	111
(4)	Initial Shut-In Pressure	1359
(5)	Initial Final Flow Pressure	117
(6)	Final Flow Pressure	161
(7)	Final Shut-In Pressure	1348
(8)	Final Hydrostatic Pressure	1759

ELECTRONIC RECORDER DEPTH 3626 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER#1-4</b>
TEST DATE .....	<b>1/25/03</b>	FORMATION TESTED .....	<b>TOPEKA</b>
SECTION-TOWN-RANGE .....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER .....	<b>5</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12340</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>3603</b>	TOP PACKER DEPTH .....	<b>3598</b>
TEST INTERVAL (to) .....	<b>3633</b>	BOTTOM PACKER DEPTH .....	<b>3603</b>
ANCHOR LENGTH .....	<b>30</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>3633</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>1:15</b>
TOOL OPEN (to) .....	<b>1:30</b>
DURATION (min.) .....	<b>15</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>1:30</b>
TOOL CLOSED (to) .....	<b>2:00</b>
DURATION (min.) .....	<b>30</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>2:00</b>
TOOL OPEN (to) .....	<b>2:15</b>
DURATION (min.) .....	<b>15</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>2:15</b>
TOOL CLOSED (to) .....	<b>2:45</b>
DURATION (min.) .....	<b>30</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1792</b>
INITIAL FLOW .....	<b>51</b>
FINAL INITIAL FLOW .....	<b>111</b>
INITIAL SHUT-IN .....	<b>1359</b>
INITIAL FINAL FLOW .....	<b>117</b>
FINAL FLOW .....	<b>161</b>
FINAL SHUT-IN .....	<b>1348</b>
FINAL HYDROSTATIC .....	<b>1759</b>
MAXIMUM TEMPERATURE .....	<b>102</b>
TOP RECORDER DEPTH .....	<b>3626</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>3530</b>
RECORDER NUMBER .....	<b>13208</b>

### INITIAL BLOW

**WEAK BLOW FOR 12 MINUTES AND DIED**

### FINAL BLOW

**WEAK BLOW FOR 8 MINUTES AND DIED**

### 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 ..... **3350**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **55**

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

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

CHLORIDES-DST ..... **58000**

	FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	250	MUDDY WATER CHLORIDES 58000				
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

ORIGINAL

Date 01-27-2002 Location C 42 1/2 - 9/8 4-30 1/4 Elevation 1980ft. 197166 County Barber

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

Charts Mailed to 9431 East Central PO Box 780167 Wichita, Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 3747 I.D. Drill Pipe 3.80 Tool Joint Size none 4 1/2 X 1 1/4

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

Length Drill Collars 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 X 1 1/4

Top Packer Depth 4017 Bottom Packer Depth 4022 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4022 TO 4082 ANCHOR LENGTH 60 TOTAL DEPTH 4082 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shriver #1-4 FORMATION TESTED LANSING "A-B" TEST NO. 6

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

Maximum Temp. 103 °F Initial Hydrostatic Pressure (A) 1997 P.S.I. Final Hydrostatic Pressure (H) 1947 P.S.I.

Tool Open I.F.P. from 5:00 A.M. to 5:15 A.M. 15 min

Tool Closed I.C.I.P. from 5:15 A.M. to 5:45 A.M. 30 min

Tool Open F.F.P. from 5:45 A.M. to 6:00 A.M. 15 min

Tool Closed F.C.I.P. from 6:00 A.M. to 6:30 A.M. 30 min

Initial Blow fair blow built to 10 inches Decreased & DIED

Final Blow weak blow built to 3 inches Decreased & DIED

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

200 Feet of Gassy mud with a good cut of HULLS % 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. 87507 Clock No. Electronic Depth 4035 Cir. Sub none Sampler none

Bottom Recorder No. 13208 Clock No. 47441 Depth 4039 Insurance none

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

Tool Operator Jane Bushy

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

NO 12341

from [B] <u>121</u> P.S.I. to [C] <u>243</u> P.S.I.
[D] <u>487</u> P.S.I.
from [E] <u>262</u> P.S.I. to [F] <u>305</u> P.S.I.
[G] <u>437</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, 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.**

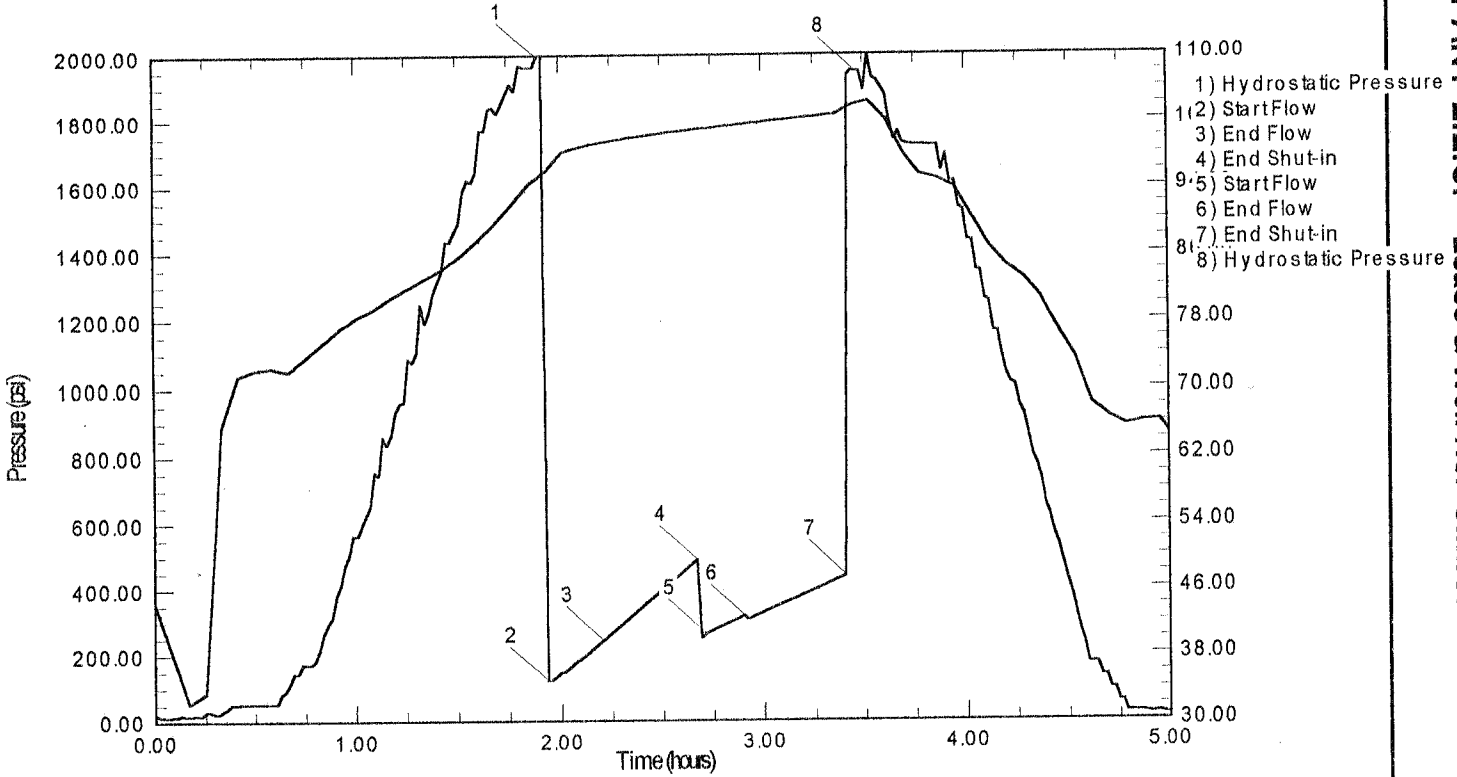
**Great Bend, Kansas**

**CHART DATA ORIGINAL (316) 792-6902**

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

Test Date ..... January 27, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12341

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 6 Date: 01-27-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1997
(2)	Initial Flow Pressure	121
(3)	Final Initial Flow Pressure	243
(4)	Initial Shut-In Pressure	487
(5)	Initial Final Flow Pressure	262
(6)	Final Flow Pressure	305
(7)	Final Shut-In Pressure	437
(8)	Final Hydrostatic Pressure	1947

**ELECTRONIC RECORDER DEPTH 4035 FT, RECORDER NUMBER 87507**

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/27/03</b>	FORMATION TESTED .....	<b>LANSING "A-B"</b>
SECTION-TOWN-RANGE .....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER .....	<b>6</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12341</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>4022</b>	TOP PACKER DEPTH .....	<b>4017</b>
TEST INTERVAL (to) .....	<b>4082</b>	BOTTOM PACKER DEPTH .....	<b>4022</b>
ANCHOR LENGTH .....	<b>60</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>4082</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>5:00</b>
TOOL OPEN (to) .....	<b>5:15</b>
DURATION (min.) .....	<b>15</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>5:15</b>
TOOL CLOSED (to) .....	<b>5:45</b>
DURATION (min.) .....	<b>30</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>5:45</b>
TOOL OPEN (to) .....	<b>6:00</b>
DURATION (min.) .....	<b>15</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>6:00</b>
TOOL CLOSED (to) .....	<b>6:30</b>
DURATION (min.) .....	<b>30</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1997</b>
INITIAL FLOW .....	<b>121</b>
FINAL INITIAL FLOW .....	<b>243</b>
INITIAL SHUT-IN .....	<b>487</b>
INITIAL FINAL FLOW .....	<b>262</b>
FINAL FLOW .....	<b>305</b>
FINAL SHUT-IN .....	<b>437</b>
FINAL HYDROSTATIC .....	<b>1947</b>
MAXIMUM TEMPERATURE .....	<b>103</b>
TOP RECORDER DEPTH .....	<b>4035</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>4039</b>
RECORDER NUMBER .....	<b>13208</b>

### INITIAL BLOW

**FAIR BLOW BUILT TO 10 INCHES INTO THE WATER AND DECREASED AND DIED**

### FINAL BLOW

**WEAK BLOW BUILT TO 3 INCHES INTO THE WATER AND DECREASED AND DIED**

### 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 ..... **3747**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **9.6**

CHLORIDES-PITS ..... **5000**

CHLORIDES-DST .....

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	<b>200</b>	<b>GASSY MUD WITH A GOOD CUT OF HULLS</b>				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

### COMMENTS

# Superior Testers Enterprises, Inc. ORIGINAL

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

Date 01-27-2003 Location 1 1/2 - N 7 1/2 E 4-30-14 W Elevation 1980 LB County Baker

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

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Starline Drilling Rig #4

Length Drill Pipe 3817 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4081 Bottom Packer Depth 4086 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4086 TO 4104 ANCHOR LENGTH 18 TOTAL DEPTH 4104 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shivers #1-4 FORMATION TESTED Kansas City "D" TEST NO. 7

Mud Weight 8.7 Viscosity 44 Water Loss 10.7 Chlorides - Pits 5200 D.S.T. \_\_\_\_\_

Maximum Temp. 106 °F Initial Hydrostatic Pressure (A) 1999 S.I. Final Hydrostatic Pressure (H) 1958 P.S.I.

Tool Open I.F.P. from 5:15 pm to 5:30 pm 15 min

from [B] 36 P.S.I. to [C] 65 P.S.I.

Tool Closed I.C.I.P. from 5:30 pm to 6:00 pm 30 min

[D] 1457 P.S.I.

Tool Open F.F.P. from 6:00 pm to 6:15 pm 15 min

from [E] 49 P.S.I. to [F] 58 P.S.I.

Tool Closed F.C.I.P. from 6:15 pm to 6:45 pm 30 min

[G] 1445 P.S.I.

Initial Blow VERY WEAK SURFACE SHOW FOR 12 MINUTES & DIED

Final Blow NO BLOW

Total Feet Recovered 50 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

50 Feet of Drilled 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 \_\_\_\_\_

Remarks \_\_\_\_\_

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

Top Recorder No. 87507 Clock No. ELECTRONIC Depth 4087 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 4101 Insurance NONE

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

Tool Operator Sam Burdy

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

**Nº 12342**

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

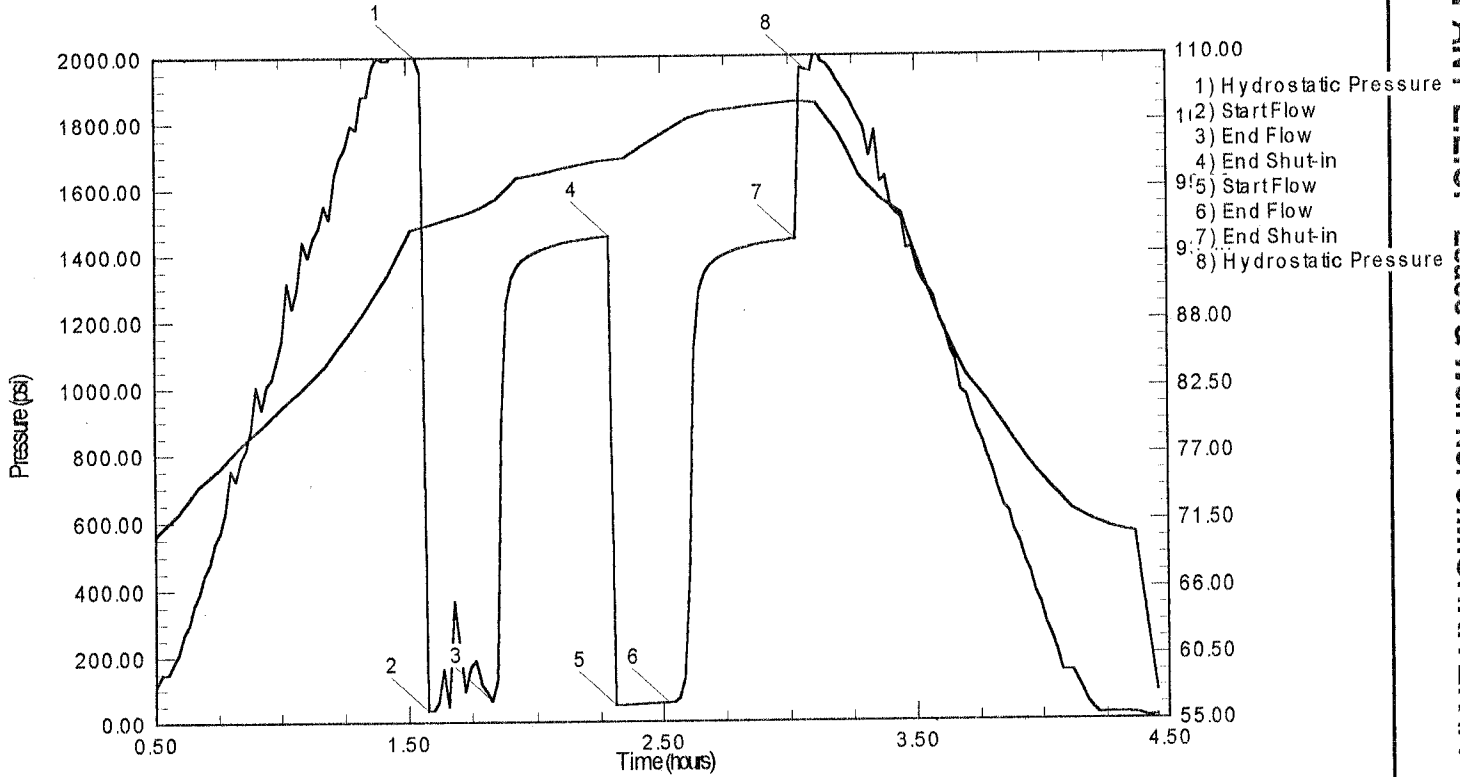
(316) 792-6902

ORIGINAL

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

Test Date ..... January 27, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12342

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 7 Date: 01-27-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1999
(2)	Initial Flow Pressure	36
(3)	Final Initial Flow Pressure	65
(4)	Initial Shut-In Pressure	1457
(5)	Initial Final Flow Pressure	49
(6)	Final Flow Pressure	58
(7)	Final Shut-In Pressure	1445
(8)	Final Hydrostatic Pressure	1958

ELECTRONIC RECORDER DEPTH 4097 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/27/03</b>	FORMATION TESTED .....	<b>KANSAS CITY "D"</b>
SECTION-TOWN-RANGE .....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER .....	<b>7</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12342</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>4086</b>	TOP PACKER DEPTH .....	<b>4081</b>
TEST INTERVAL (to) .....	<b>4104</b>	BOTTOM PACKER DEPTH .....	<b>4086</b>
ANCHOR LENGTH .....	<b>18</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>4104</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>5:15</b>
TOOL OPEN (to) .....	<b>5:30</b>
DURATION (min.) .....	<b>15</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>5:30</b>
TOOL CLOSED (to) .....	<b>6:00</b>
DURATION (min.) .....	<b>30</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>6:00</b>
TOOL OPEN (to) .....	<b>6:15</b>
DURATION (min.) .....	<b>15</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>6:15</b>
TOOL CLOSED (to) .....	<b>6:45</b>
DURATION (min.) .....	<b>30</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>1999</b>
INITIAL FLOW .....	<b>36</b>
FINAL INITIAL FLOW .....	<b>65</b>
INITIAL SHUT-IN .....	<b>1457</b>
INITIAL FINAL FLOW .....	<b>49</b>
FINAL FLOW .....	<b>58</b>
FINAL SHUT-IN .....	<b>1445</b>
FINAL HYDROSTATIC .....	<b>1958</b>
MAXIMUM TEMPERATURE .....	<b>106</b>
TOP RECORDER DEPTH .....	<b>4097</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>4101</b>
RECORDER NUMBER .....	<b>13208</b>

INITIAL BLOW

**VERY WEAK SURFACE BLOW FOR 12 MINUTES AND DIED**

FINAL BLOW

**NO BLOW**

### 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 ..... **3817**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **44**

WATER LOSS ..... **10.2**

CHLORIDES-PITS ..... **52000**

CHLORIDES-DST .....

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1) <b>50</b>	<b>drilling mud</b>				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>TOTAL RECOVERY</b>					

### COMMENTS

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 01-28-2003 Location C-1/2 N-1/2 E 4-30-14 W Elevation 1980KB, 1971GL County Barber

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

Charts Mailed to 9431 East Central P.O. Box 780167 - Wichita Kansas 67278-0167

Drilling Contractor Starling Drilling Rig #4

Length Drill Pipe 3923 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4387 Bottom Packer Depth 43902 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 43902 TO 4410 ANCHOR LENGTH 18 TOTAL DEPTH 4410 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shrader #1-4 FORMATION TESTED Kansas City 4 1/2" TEST NO. 8

Mud Weight 8.9 Viscosity 44 Water Loss 10.7 Chlorides - Pits 5200 D.S.T. \_\_\_\_\_

Maximum Temp. 107 °F Initial Hydrostatic Pressure (A) 2039 P.S.I. Final Hydrostatic Pressure (H) 2023 P.S.I.

Tool Open I.F.P. from 9:15 A.M. to 9:45 A.M. 30 min

Tool Closed I.C.I.P. from 9:45 A.M. to 10:45 A.M. 60 min

Tool Open F.F.P. from 10:45 A.M. to 12:00 A.M. 60 min

Tool Closed F.C.I.P. from 12:00 A.M. to 1:00 A.M. 60 min

Initial Blow Good blow built to the bottom of a 5 gallon bucket in 45 seconds

Final Blow Strong blow - Gas to surface in 4 minutes - See Gas Flow Report

Total Feet Recovered 20 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

20	Feet of	Gassy mud with a slight show of	% Gas	% Oil	% Mud	% Water
	Feet of	Light oil between the tools	% Gas	% Oil	% Mud	% Water
	Feet of	and a good show of oil light	% Gas	% Oil	% Mud	% Water
	Feet of	oil on the blanks off outside	% Gas	% Oil	% Mud	% Water
	Feet of	Recorded	% 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

from [B]	<u>38</u>	P.S.I. to [C]	<u>42</u>	P.S.I.
[D]	<u>1468</u>			P.S.I.
from [E]	<u>37</u>	P.S.I. to [F]	<u>48</u>	P.S.I.
[G]	<u>1341</u>			P.S.I.

Remarks \_\_\_\_\_

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

Top Recorder No. 87507 Clock No. Electronic Depth 4409 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 4409 Insurance NONE

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

Tool Operator Jane Budz

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

No 12343

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**

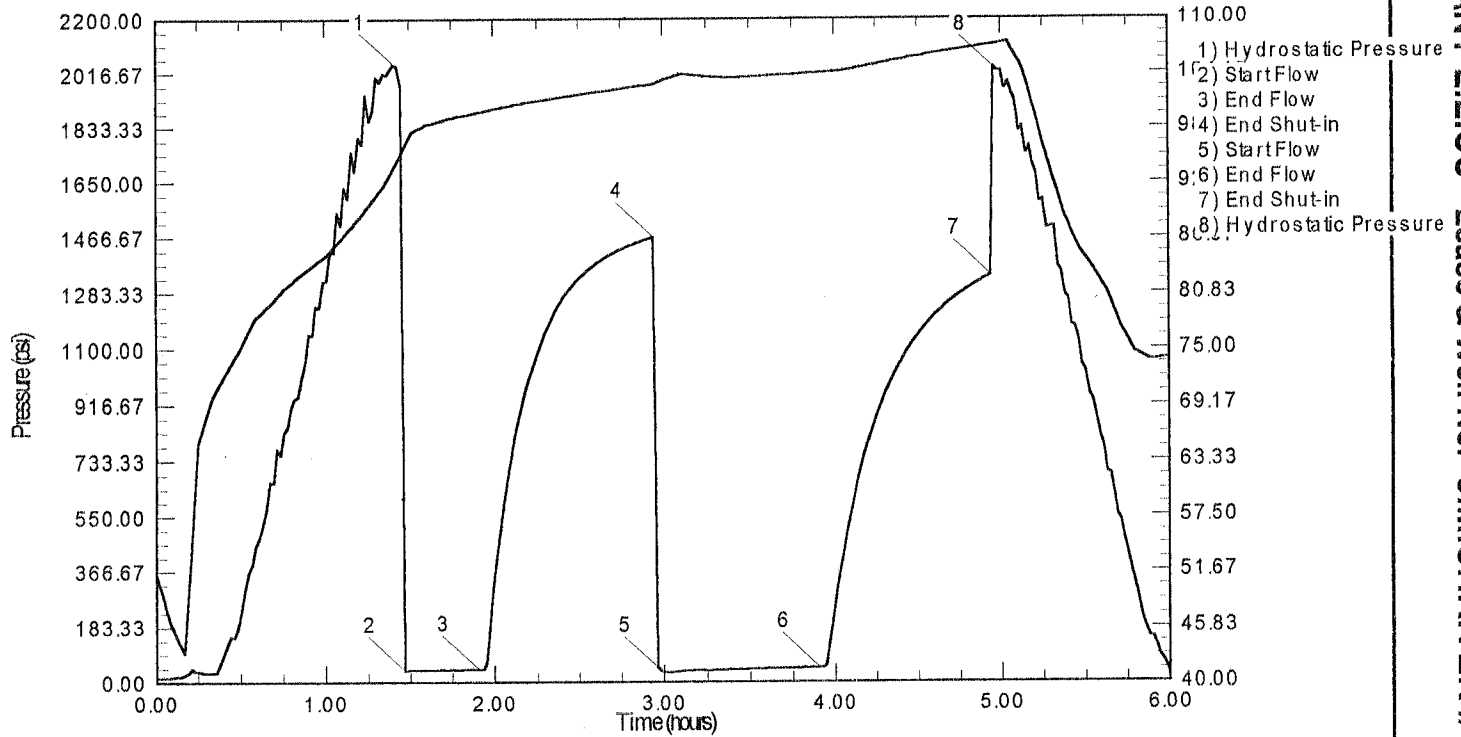
**(316) 792-6902**

ORIGINAL

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

Test Date ..... January 28, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12343

Company: F.G.HOLL COMPANY L.L.C.C Lease & Well No. J.M.SHRIVER #1-4 Test #: 8 Date: 01-28-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	2039
(2)	Initial Flow Pressure	38
(3)	Final Initial Flow Pressure	42
(4)	Initial Shut-In Pressure	1468
(5)	Initial Final Flow Pressure	37
(6)	Final Flow Pressure	48
(7)	Final Shut-In Pressure	1341
(8)	Final Hydrostatic Pressure	2023

**ELECTRONIC RECORDER DEPTH 4404 FT, RECORDER NUMBER 87507**

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/28/03</b>	FORMATION TESTED .....	<b>KANSAS CITY "H"</b>
SECTION-TOWN-RANGE .....	<b>4-30S-14W</b>	DRILL STEM TEST NUMBER .....	<b>8</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12343</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>4392</b>	TOP PACKER DEPTH .....	<b>4387</b>
TEST INTERVAL (to) .....	<b>4410</b>	BOTTOM PACKER DEPTH .....	<b>4392</b>
ANCHOR LENGTH .....	<b>18</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>4410</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>9:15</b>
TOOL OPEN (to) .....	<b>9:45</b>
DURATION (min.) .....	<b>30</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>9:45</b>
TOOL CLOSED (to) .....	<b>10:45</b>
DURATION (min.) .....	<b>60</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>10:45</b>
TOOL OPEN (to) .....	<b>11:45</b>
DURATION (min.) .....	<b>60</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>11:45</b>
TOOL CLOSED (to) .....	<b>12:45</b>
DURATION (min.) .....	<b>60</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>2039</b>
INITIAL FLOW .....	<b>38</b>
FINAL INITIAL FLOW .....	<b>42</b>
INITIAL SHUT-IN .....	<b>1468</b>
INITIAL FINAL FLOW .....	<b>37</b>
FINAL FLOW .....	<b>48</b>
FINAL SHUT-IN .....	<b>1341</b>
FINAL HYDROSTATIC .....	<b>2023</b>
MAXIMUM TEMPERATURE .....	<b>107</b>
TOP RECORDER DEPTH .....	<b>4404</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>4407</b>
RECORDER NUMBER .....	<b>13208</b>

### INITIAL BLOW

**GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 45 SECONDS**

### FINAL BLOW

**STRONG BLOW WITH GAS TO SURFACE IN 4 MINUTES 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 ..... **3923**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **44**

WATER LOSS ..... **10.2**

CHLORIDES-PITS ..... **5200**

CHLORIDES-DST .....

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1) <b>20</b>	<b>DRILLING MUD WITH A SLIGHT SHOW OF LIGHT OIL BETWEEN THE TOOLS AND A GOOD SHOW OF LIGHT OIL ON THE LOWER OUTSIDE BLANKED OFF RECORDER</b>				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>TOTAL RECOVERY</b>					

### COMMENTS

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

STATE..... KANSAS

Test Date ..... 1/28/03

COUNTY..... BARBER

Sec Town Range ..... 4-30S-14W

FIELD.....

Report Number ..... 12343

## Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)

## Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)	
TOOL OPENED	10:50	5	5			3/8	7.980	
AT 10:45 WITH	10:55	10	8			3/8	10.010	
GAS TO SURFACE	11:05	20	5			3/8	7.980	
IN 4 MINUTES	11:15	30	5			3/8	7.980	
AT 10:49	11:25	40	5			3/8	7.980	
	11:35	50	5			3/8	7.980	
	11:35-11:45		<b>GAS SAMPLE WAS TAKEN</b>					

# Superior Testers Enterprises, Inc. ORIGINAL

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

(316) 792-6902

Date 01-29-2003 Location C 9 1/2 - 1/4 S 1/4 4-30-14 W Elevation 19716 County Barber 1980KB

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

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita Kansas 67228

Drilling Contractor Sterling Drilling Company Rig # 4

Length Drill Pipe 4219 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H

Top Packer Depth 4483 Bottom Packer Depth 4488 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4488 TO 4545 ANCHOR LENGTH 57 TOTAL DEPTH 4545 Hole Size 7 7/8

LEASE & WELL NO. J.M. Shriver #1-4 FORMATION TESTED Viola TEST NO. 9

Mud Weight 8.9 Viscosity 44 Water Loss 10.2 Chlorides - Pits 5200 D.S.T. \_\_\_\_\_

Maximum Temp. 89 °F Initial Hydrostatic Pressure (A) 997 P.S.I. Final Hydrostatic Pressure (H) 958 P.S.I.

Tool Open I.F.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min  
 Tool Closed I.C.I.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min  
 Tool Open F.F.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min  
 Tool Closed F.C.I.P. from \_\_\_\_\_ m to \_\_\_\_\_ m \_\_\_\_\_ min

from [B] \_\_\_\_\_ P.S.I. to [C] \_\_\_\_\_ P.S.I.  
 [D] \_\_\_\_\_ P.S.I.  
 from [E] \_\_\_\_\_ P.S.I. to [F] \_\_\_\_\_ P.S.I.  
 [G] \_\_\_\_\_ P.S.I.

Initial Blow \_\_\_\_\_

Final Blow \_\_\_\_\_

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

Feet of <u>MISS RUN RUN IN 32 FEET</u>	% Gas	% Oil	% Mud	% Water
Feet of <u>STANDS AT DRILL PIPE RIG</u>	% Gas	% Oil	% Mud	% Water
Feet of <u>BROKE DOWN HAD TO COME</u>	% Gas	% Oil	% Mud	% Water
Feet of <u>OUT OF THE HOLE AFTER ANOTHER</u>	% Gas	% Oil	% Mud	% Water
Feet of <u>DOWN WORKS WAS BROUGHT OUT</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

Remarks \_\_\_\_\_

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

Top Recorder No. 1287502 Clock No. ELECTRONIC Depth 4538 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 4542 Insurance NONE

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

Tool Operator Don Burdig

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 12344

**SUPERIOR TESTERS ENTERPRISES INC.**

**Great Bend, Kansas**

**CHART DATA**

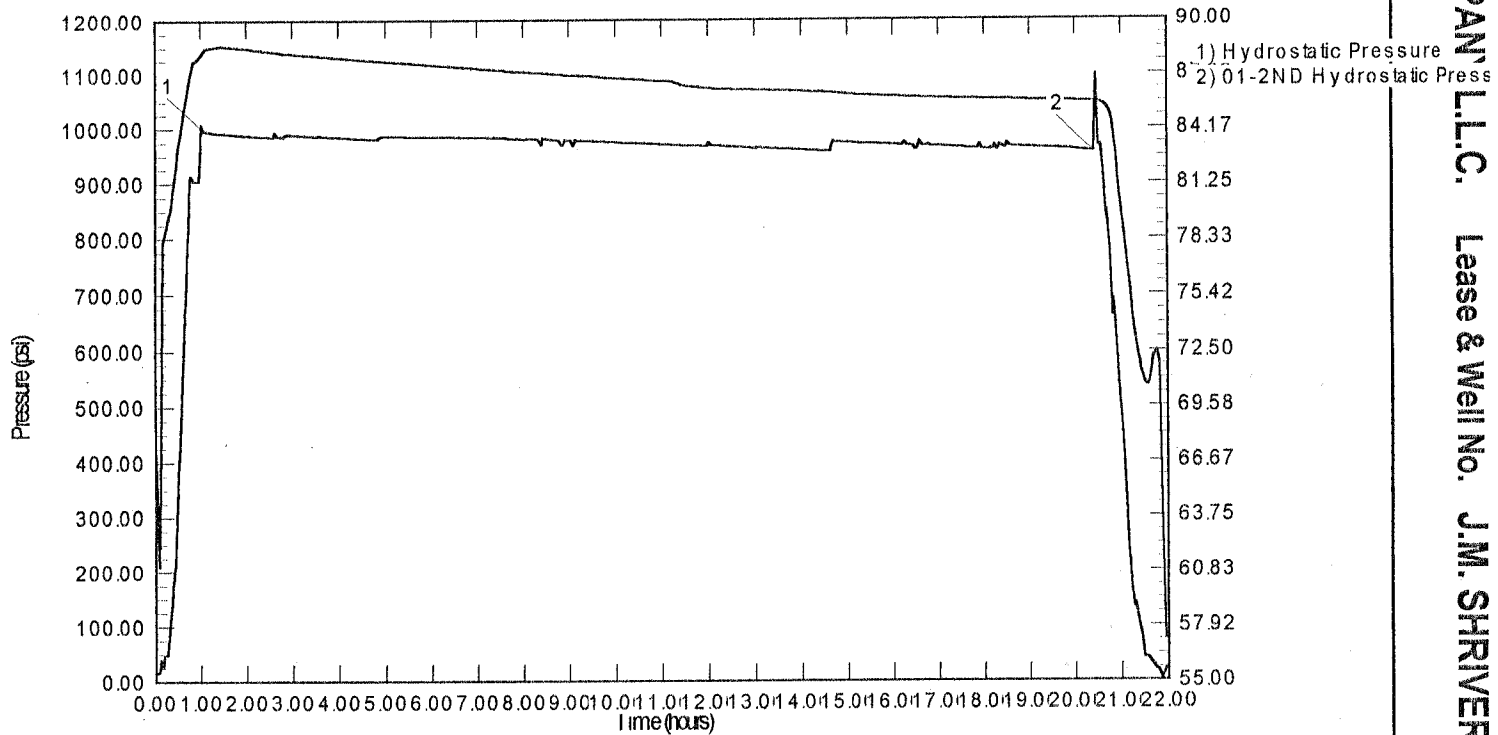
**(316) 792-6902**

ORIGINAL

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

**Test Date** ..... January 29, 2002  
**Sec Town Range** ..... 4-13S-14W  
**Report Number** ..... 12344

Company: **F.G.HOLL COMPANY L.L.C.**  
30S RGE. 14W  
Lease & Well No. **J.M. SHRIVER #1-4**  
Test #: 9 Date: 01-29-2003 SEC. 4 TWP.



**Field Reading**

- (1) Initial Hydrostatic Pressure 997
- (2) Initial Flow Pressure
- (3) Final Initial Flow Pressure
- (4) Initial Shut-In Pressure
- (5) Initial Final Flow Pressure
- (6) Final Flow Pressure
- (7) Final Shut-In Pressure
- (8) Final Hydrostatic Pressure 958

**ELECTRONIC RECORDER DEPTH 4538 FT, RECORDER NUMBER 87507**

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>1/29/02</b>	FORMATION TESTED .....	<b>VIOLA</b>
SECTION-TOWN-RANGE .....	<b>4-13S-14W</b>	DRILL STEM TEST NUMBER .....	<b>9</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12344</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>4488</b>	TOP PACKER DEPTH .....	<b>4483</b>
TEST INTERVAL (to) .....	<b>4545</b>	BOTTOM PACKER DEPTH .....	<b>4488</b>
ANCHOR LENGTH .....	<b>57</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>4545</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) .....	<b>0:00</b>
TOOL CLOSED (to) .....	
DURATION (min.) .....	

*FINAL OPEN*

TOOL OPEN (from) .....	<b>0:00</b>
TOOL OPEN (to) .....	
DURATION (min.) .....	

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>0:00</b>
TOOL CLOSED (to) .....	
DURATION (min.) .....	

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>997</b>
INITIAL FLOW .....	
FINAL INITIAL FLOW .....	
INITIAL SHUT-IN .....	
INITIAL FINAL FLOW .....	
FINAL FLOW .....	
FINAL SHUT-IN .....	
FINAL HYDROSTATIC .....	<b>958</b>
MAXIMUM TEMPERATURE .....	<b>89</b>
TOP RECORDER DEPTH .....	<b>4538</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	<b>4542</b>
RECORDER NUMBER .....	<b>5463</b>

### INITIAL BLOW

### FINAL BLOW

### 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 ..... **4219**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **44**

WATER LOSS ..... **10.2**

CHLORIDES-PITS ..... **52000**

CHLORIDES-DST .....

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	<b>MISSRUN RIG BROKE DOWN AFTER RUNNING IN 32 STANDS OF DRILL PIPE HAD TO GET ANOTHER DRAWWORKS OUT THEN CAME BACK OUT OF THE HOLE AND HAD TO WAIT FOR THE OTHER DRAWWORKS TO BE REPAIRED</b>				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>TOTAL RECOVERY</b>					

### COMMENTS

ORIGINAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 02-02-03 Location N<sup>42</sup>W<sup>10</sup>S<sup>9</sup> 430<sup>5</sup>-14<sup>W</sup> Elevation 1976L County Baker 1980 kb

Company F.C. Hall Company LLC Number of Copies 5

Charts Mailed to 9431 East Central P.O. box 780167 Wichita Kansas 67278-0167

Drilling Contractor Steelers Drilling P/B #4

Length Drill Pipe 4219 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 4483 Bottom Packer Depth 4488 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4488 TO 4545 ANCHOR LENGTH 57 TOTAL DEPTH 4545 Hole Size 7 7/8"

EASE & WELL NO. I.M. Shover #1-4 FORMATION TESTED Viola TEST NO. 10

Mud Weight 8.81 Viscosity 51 Water Loss 8.81 Chlorides - Pits 7000 D.S.T. \_\_\_\_\_

Maximum Temp. 117 Initial Hydrostatic Pressure (A) 2203 P.S.I. Final Hydrostatic Pressure (H) 2191 P.S.I.

Tool Open I.F.P. from 8:30 am to 9:00 pm 30 min

Tool Closed I.C.I.P. from 9:00 am to 10:00 am 60 min

Tool Open F.F.P. from 10:00 am to 11:00 pm 60 min

Tool Closed F.C.I.P. from 11:00 am to 12:30 am 90 min

Initial Blow WEAK blow built to 10 1/2 inches into the water

Final Blow WEAK blow built to 4 inches with Sargins blows Decreased (DIED in

Total Feet Recovered 180 50 meters Gravity of Oil \_\_\_\_\_ Corrected

120 Feet of SLIGHTLY Gassy mud % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

60 Feet of SLIGHTLY oil cut Gassy mud 41 % Gas 1 % Oil 58 % Mud 0 % Water

200 Feet of Gas in the pipe 41 % Gas 4 % Oil 55 % Mud 0 % 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 SLID 12 Feet to Bottom

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

Top Recorder No. 87507 Clock No. Electronic Depth 4538 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 4542 Insurance NONE

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

Tool Operator Steve Budy

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

No. 12345

from [B]	<u>77</u>	P.S.I. to [C]	<u>111</u>	P.S.I.
[D]	<u>1242</u>			P.S.I.
from [E]	<u>362</u>	P.S.I. to [F]	<u>742</u>	P.S.I.
[G]	<u>1262</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.**

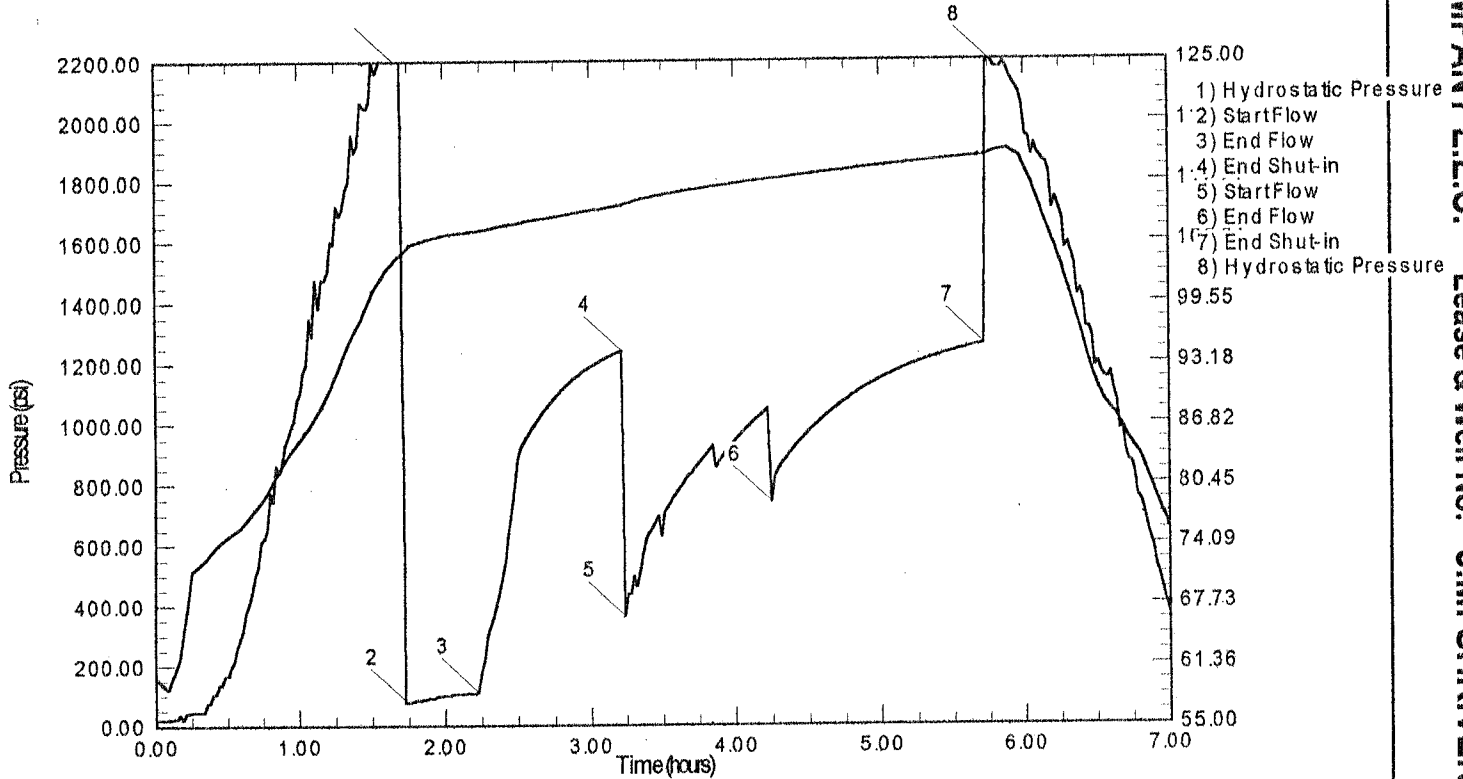
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

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

Test Date ..... January 29, 2002  
 Sec Town Range ..... 4-13S-14W  
 Report Number ..... 12345

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M. SHRIVER #1-4 Test #: 10 Date: 02-02--2003 SEC. 4  
 TWP. 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	2203
(2)	Initial Flow Pressure	77
(3)	Final Initial Flow Pressure	111
(4)	Initial Shut-In Pressure	1242
(5)	Initial Final Flow Pressure	362
(6)	Final Flow Pressure	742
(7)	Final Shut-In Pressure	1262
(8)	Final Hydrostatic Pressure	2191

ELECTRONIC RECORDER DEPTH 4538 FT, RECORDER NUMBER 87507

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

COMPANY NAME	..... F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	..... J.M.SHRIVER #1-4
TEST DATE	..... 1/29/02	FORMATION TESTED	..... VIOLA
SECTION-TOWN-RANGE	..... 4-13S-14W	DRILL STEM TEST NUMBER	..... 10
STATE	..... KANSAS	REPORT NUMBER	..... 12345
COUNTY	..... BARBER	ELEVATION KELLY BUSHINGS	..... 1980
ELEVATION GROUND LEVEL	..... 1971	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

### TOOL SETTING INFORMATION

TEST INTERVAL (From)	..... 4488	TOP PACKER DEPTH	..... 4483
TEST INTERVAL (to)	..... 4545	BOTTOM PACKER DEPTH	..... 4488
ANCHOR LENGTH	..... 57	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 4545	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from)	..... 8:30
TOOL OPEN (to)	..... 9:00
DURATION (min.)	..... 30

*INITIAL SHUT-IN*

TOOL CLOSED (from)	..... 9:00
TOOL CLOSED (to)	..... 10:00
DURATION (min.)	..... 60

*FINAL OPEN*

TOOL OPEN (from)	..... 10:00
TOOL OPEN (to)	..... 11:00
DURATION (min.)	..... 60

*FINAL SHUT-IN*

TOOL CLOSED (from)	..... 11:00
TOOL CLOSED (to)	..... 12:30
DURATION (min.)	..... 90

### PRESSURE READINGS

INITIAL HYDROSTATIC	..... 2203
INITIAL FLOW	..... 77
FINAL INITIAL FLOW	..... 111
INITIAL SHUT-IN	..... 1242
INITIAL FINAL FLOW	..... 362
FINAL FLOW	..... 742
FINAL SHUT-IN	..... 1262
FINAL HYDROSTATIC	..... 2191
MAXIMUM TEMPERATURE	..... 117
TOP RECORDER DEPTH	..... 4538
RECORDER NUMBER	..... 87507
BOTTOM RECORDER DEPTH	..... 4542
RECORDER NUMBER	..... 13208

### INITIAL BLOW

WEAK BUILDING BLOW BUILT TO 10 1/2 INCHES INTO THE WATER

### FINAL BLOW

WEAK BLOW BUILT TO 4 INCHES WITH HARD SURGING BLOWS THAT DECREASED AND DIED IN 50 MINUTES

### EXTRA EQUIPMENT

JARS	..... NO	EXTRA PACKER (3RD)	..... NO
SAFETY JOINT	..... YES	EXTRA PACKER (4TH)	..... NO
ELECTRONIC RECORDER	..... YES	STRADDLE	..... NO
CIRCULATING SUB	..... NO	HOOK WALL	..... NO
		SAMPLER	..... NO

# 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 ..... **4219**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **8.8+**

VISCOSITY ..... **51**

WATER LOSS ..... **10**

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

CHLORIDES-DST .....

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	200	GAS IN THE PIPE				
2)	120	SLIGHTLY GASSY MUD				
3)	60	SLIGHTLY OIL CUT GASSY MUD	41	1	58	0
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

### COMMENTS

SLID TOOL 12 FEET TO BOTTOM

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 02-03-03 Location C<sup>1</sup>/<sub>2</sub>-<sup>1</sup>/<sub>16</sub>" - 4-30<sup>5</sup>-14<sup>13</sup> Elevation 1980KIB, 1907IGL County Barber

Company F.C. HOLL COMPANY L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita, Kansas 67278-0167

Drilling Contractor Sterling Drilling Co #4

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

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

Length Drill Collars 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/4"

Top Packer Depth 4538 Bottom Packer Depth 4543 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4538 TO 4557 ANCHOR LENGTH 14 TOTAL DEPTH 4557 Hole Size 7 7/8"

LEASE & WELL NO. J.M. Shrader #1-4 FORMATION TESTED SIMPSON TEST NO. 11

Mud Weight 9.0 Viscosity 48 Water Loss 8.9 Chlorides - Pits 5000 D.S.T. 58000

Maximum Temp. 122 Initial Hydrostatic Pressure (A) 2245 P.S.I. Final Hydrostatic Pressure (H) 2156 P.S.I.

Tool Open I.F.P. from 11:15 m to 11:45 m 30 min

from [B] 94 P.S.I. to [C] 111 P.S.I.

Tool Closed I.C.I.P. from 11:45 m to 12:45 m 60 min

[D] 1191 P.S.I.

Tool Open F.F.P. from 12:45 m to 1:45 m 60 min

from [E] 130 P.S.I. to [F] 198 P.S.I.

Tool Closed F.C.I.P. from 1:45 m to 3:15 m 90 min

[G] 1144 P.S.I.

Initial Blow Strong Blow Gas to Surface in 5 minutes

Final Blow Strong Blow - SEE GAS FLOW REPORT

Total Feet Recovered 400 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

160 Feet of Muddy Gassy Oil % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

60 Feet of oil cut water % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

180 Feet of 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 \_\_\_\_\_

Remarks \_\_\_\_\_

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

Top Recorder No. 87507 Clock No. Electronic Depth 4550 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 4744 Depth 4354 Insurance NONE

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

Tool Operator Don Budig

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

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NO 12346

**SUPERIOR TESTERS ENTERPRISES INC.**

**Great Bend, Kansas**

**CHART DATA**

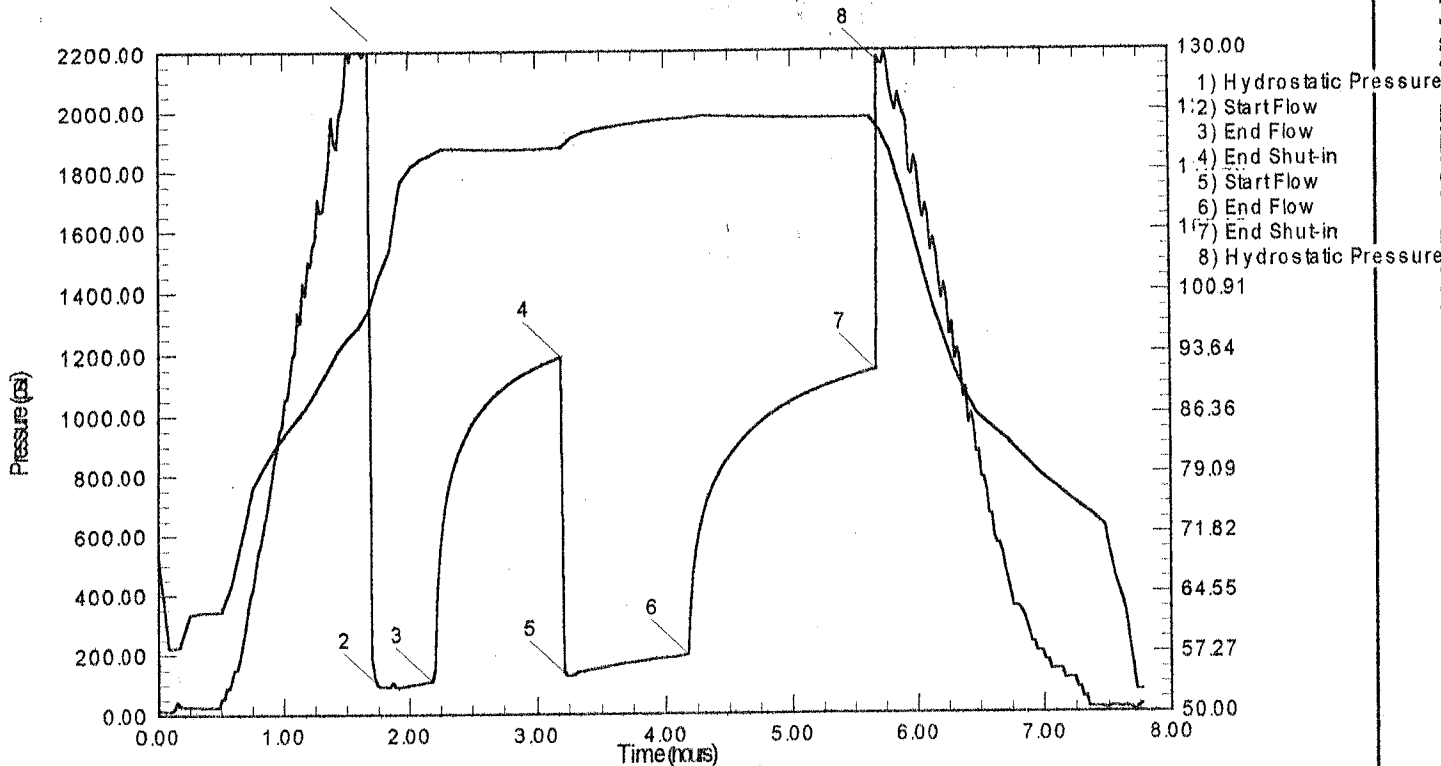
**(316) 792-6902**

ORIGINAL

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

Test Date ..... February 3, 2003  
 Sec Town Range ..... 4-30S-14W  
 Report Number ..... 12346

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 11 Date: 02-03-2003 SEC. 4 TWP.  
 30S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	2245
(2)	Initial Flow Pressure	94
(3)	Final Initial Flow Pressure	111
(4)	Initial Shut-In Pressure	1191
(5)	Initial Final Flow Pressure	130
(6)	Final Flow Pressure	198
(7)	Final Shut-In Pressure	1144
(8)	Final Hydrostatic Pressure	2156

**ELECTRONIC RECORDER DEPTH 4550 FT, RECORDER NUMBER 87507**

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### GENERAL INFORMATION

COMPANY NAME	..... F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	..... J.M.SHRIVER #1-4
TEST DATE	..... 2/3/03	FORMATION TESTED	..... SIMPSON
SECTION-TOWN-RANGE	..... 4-30S-14W	DRILL STEM TEST NUMBER	..... 11
STATE	..... KANSAS	REPORT NUMBER	..... 12346
COUNTY	..... BARBER	ELEVATION KELLY BUSHINGS	..... 1980
ELEVATION GROUND LEVEL	..... 1971	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

### TOOL SETTING INFORMATION

TEST INTERVAL (From)	..... 4543	TOP PACKER DEPTH	..... 4538
TEST INTERVAL (to)	..... 4557	BOTTOM PACKER DEPTH	..... 4543
ANCHOR LENGTH	..... 14	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 4557	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

### FLOW TIMES

<i>INITIAL OPEN</i>	
TOOL OPEN (from)	..... 11:15
TOOL OPEN (to)	..... 11:45
DURATION (min.)	..... 30
<i>INITIAL SHUT-IN</i>	
TOOL CLOSED (from)	..... 11:45
TOOL CLOSED (to)	..... 12:45
DURATION (min.)	..... 60
<i>FINAL OPEN</i>	
TOOL OPEN (from)	..... 12:45
TOOL OPEN (to)	..... 1:45
DURATION (min.)	..... 60
<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from)	..... 1:45
TOOL CLOSED (to)	..... 3:15
DURATION (min.)	..... 90

### PRESSURE READINGS

INITIAL HYDROSTATIC	..... 2245
INITIAL FLOW	..... 94
FINAL INITIAL FLOW	..... 111
INITIAL SHUT-IN	..... 1191
INITIAL FINAL FLOW	..... 130
FINAL FLOW	..... 198
FINAL SHUT-IN	..... 1144
FINAL HYDROSTATIC	..... 2156
MAXIMUM TEMPERATURE	..... 122
TOP RECORDER DEPTH	..... 4550
RECORDER NUMBER	..... 87507
BOTTOM RECORDER DEPTH	..... 4554
RECORDER NUMBER	..... 13208

### INITIAL BLOW

**STRONG BLOW WITH GAS TO SURFACE IN 5 MINUTES**

### FINAL BLOW

**STRONG BLOW-SEE GAS FLOW REPORT**

### EXTRA EQUIPMENT

JARS	..... NO	EXTRA PACKER (3RD)	..... NO
SAFETY JOINT	..... YES	EXTRA PACKER (4TH)	..... NO
ELECTRONIC RECORDER	..... YES	STRADDLE	..... NO
CIRCULATING SUB	..... NO	HOOK WALL	..... NO
		SAMPLER	..... NO

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

### WELL INFORMATION

DRILLING CONTRACTOR ..... **STERILING DRILLING RIG #4**

DRILL PIPE LENGTH ..... **4274**

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

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

DRILL COLLAR LENGTH ..... **248**

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 ..... **48**

WATER LOSS ..... **8**

CHLORIDES-PITS ..... **5000**

CHLORIDES-DST ..... **58000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	160	MUDDY GASSY OIL	23	52	18	7
2)	60	OIL CUT WATER	0	10	2	88
3)	180	WATER CHLORIDES 58000	0	0	2	98
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 ..... 2/3/03
COUNTY..... BARBER	Sec Town Range ..... 4-30S-14W
FIELD.....	Report Number ..... 12346

## Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT	11:20	5	5			1 1/4	98.100
11:15 WITH	11:25	10	28			1	137.000
GAS TO	11:35	20	40			1/2	39.600
SURFACE IN 5	11:45	30	40			1/2	39.600
MINUTES AT 11:20							

## Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT	12:55	10	84			1/2	57.400
12:45	1:05	20	22			1/2	29.400
	1:15	30	22			1/2	29.400
	1:25	40	18			1/2	26.800
	1:35	50	17			1/2	25.800
	1:45	60	16			1/2	25.100

# Superior Testers Enterprises, Inc.

ORIGINAL

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

(316) 792-6902

Date 02-04-03 Location R-1/2-1/2-E-1/2 4-30-44 Elevation 197160 County Baebec

Company F.G. Hall Company, Inc. Number of Copies 5

Charts Mailed to 9431 East Central P.O. Box 782167 Wichita Kansas 67278-6167

Drilling Contractor Streetwise Drilling Rig #4

Length Drill Pipe 4386 I.D. Drill Pipe 5.80 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 4655 Bottom Packer Depth 4660 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4660 TO 4665 ANCHOR LENGTH 5 TOTAL DEPTH 4665 Hole Size 7 1/8"

LEASE & WELL NO. J.M. Shouse #1-4 FORMATION TESTED Arbuckle TEST NO. 12

Mud Weight 9.4 Viscosity 45 Water Loss 10.9 Chlorides - Pits 6500 D.S.T. 48000

Maximum Temp. 131 °F Initial Hydrostatic Pressure (A) 2245 P.S.I. Final Hydrostatic Pressure (H) 2236 P.S.I.

Tool Open I.F.P. from 11:15 Am to 11:45 Am 30 min

Tool Closed I.C.I.P. from 11:45 Am to 12:45 pm 60 min

Tool Open F.F.P. from 12:45 pm to 1:15 pm 30 min

Tool Closed F.C.I.P. from 1:15 pm to 1:45 pm 60 min

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 8 minutes

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

Total Feet Recovered 900 Gravity of Oil \_\_\_\_\_ Corrector \_\_\_\_\_

900 Feet of Salt water Chloride 48000 % 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 NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall none

Top Recorder No. 97507 Clock No. Electronic Depth 4648 Cir. Sub NONE Sampler NONE

Bottom Recorder No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Depth 466 Insurance NONE

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

Tool Operator Steve Smiley

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

No 12347

from [B] <u>92</u> P.S.I. to [C] <u>290</u> P.S.I.
[D] <u>1613</u> P.S.I.
from [E] <u>312</u> P.S.I. to [F] <u>461</u> P.S.I.
[G] <u>1602</u> P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

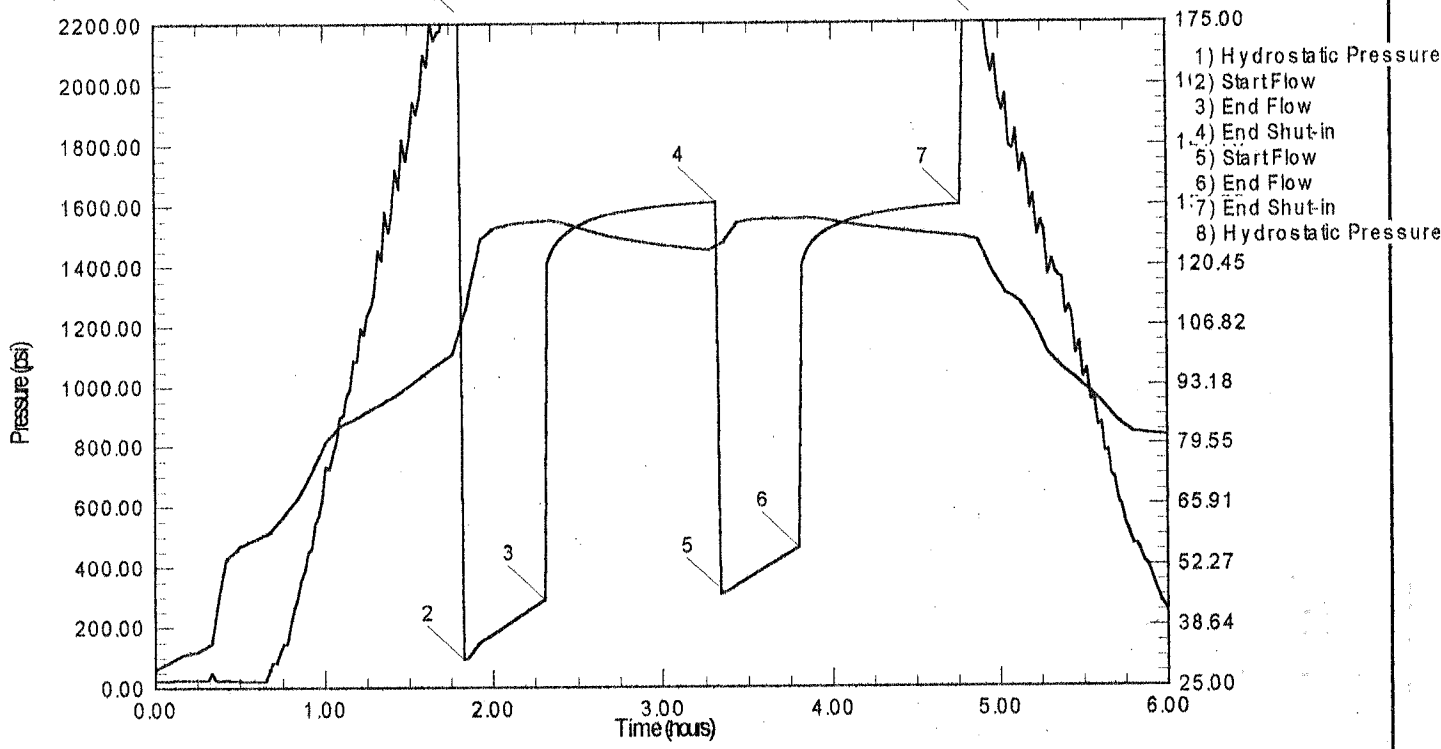
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

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

Test Date ..... February 4, 2003  
 Sec Town Range ..... 4-30S-44W  
 Report Number ..... 12347

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. J.M.SHRIVER #1-4 Test #: 12 Date: 02-04-2003 SEC. 4 TWP.  
 30S RGE. 44S



**Field Reading**

(1)	Initial Hydrostatic Pressure	2245
(2)	Initial Flow Pressure	92
(3)	Final Initial Flow Pressure	290
(4)	Initial Shut-In Pressure	1613
(5)	Initial Final Flow Pressure	312
(6)	Final Flow Pressure	461
(7)	Final Shut-In Pressure	1602
(8)	Final Hydrostatic Pressure	2236

ELECTRONIC RECORDER DEPTH 4648 FT, RECORDER NUMBER 87507

# 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>J.M.SHRIVER #1-4</b>
TEST DATE .....	<b>2/4/03</b>	FORMATION TESTED .....	<b>ARBUCKLE</b>
SECTION-TOWN-RANGE .....	<b>4-30S-44W</b>	DRILL STEM TEST NUMBER .....	<b>12</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>12347</b>
COUNTY .....	<b>BARBER</b>	ELEVATION KELLY BUSHINGS .....	<b>1980</b>
ELEVATION GROUND LEVEL .....	<b>1971</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	<b>4660</b>	TOP PACKER DEPTH .....	<b>4655</b>
TEST INTERVAL (to) .....	<b>4665</b>	BOTTOM PACKER DEPTH .....	<b>4660</b>
ANCHOR LENGTH .....	<b>5</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>4665</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) .....	<b>11:15</b>
TOOL OPEN (to) .....	<b>11:45</b>
DURATION (min.) .....	<b>25</b>

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>11:45</b>
TOOL CLOSED (to) .....	<b>12:25</b>
DURATION (min.) .....	<b>60</b>

*FINAL OPEN*

TOOL OPEN (from) .....	<b>12:25</b>
TOOL OPEN (to) .....	<b>1:15</b>
DURATION (min.) .....	<b>30</b>

*FINAL SHUT-IN*

TOOL CLOSED (from) .....	<b>1:15</b>
TOOL CLOSED (to) .....	<b>0:00</b>
DURATION (min.) .....	<b>60</b>

### PRESSURE READINGS

INITIAL HYDROSTATIC .....	<b>2245</b>
INITIAL FLOW .....	<b>92</b>
FINAL INITIAL FLOW .....	<b>290</b>
INITIAL SHUT-IN .....	<b>1613</b>
INITIAL FINAL FLOW .....	<b>312</b>
FINAL FLOW .....	<b>461</b>
FINAL SHUT-IN .....	<b>1602</b>
FINAL HYDROSTATIC .....	<b>2236</b>
MAXIMUM TEMPERATURE .....	<b>131</b>
TOP RECORDER DEPTH .....	<b>4648</b>
RECORDER NUMBER .....	<b>87507</b>
BOTTOM RECORDER DEPTH .....	
RECORDER NUMBER .....	

### INITIAL BLOW

**FAIR BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 8 MINUTES**

### FINAL BLOW

**FAIR BLOW BUILT TO THE BOTTOM OF THE BUCKET 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>

