

F.G. HOLL Co.  
Kearney 1-15

15-215-14w  
15-185-23160

# Superior Testers Enterprises, Inc. ORIGINAL

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

(316) 792-6902

Date 7-27-02 Location C 9/2 - N 1/2 - SW 15-215 14w Elevation 1940 RB County Stafford

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 Steel Line Drilling Co #1

Length Drill Pipe 1570 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 1840 Bottom Packer Depth 1845 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 1845 TO 1877 ANCHOR LENGTH 32 TOTAL DEPTH 1877 Hole Size 7 7/8"

EASE & WELL NO. Kearney #1-15 FORMATION TESTED None noted TEST NO. 1

Mud Weight 8.8 Viscosity 35 Water Loss 14.8 Chlorides - Pits 20000 D.S.T.

Maximum Temp. 91 °F Initial Hydrostatic Pressure (A) 916 P.S.I. Final Hydrostatic Pressure (H) 892 P.S.I.

Tool Open I.F.P. from 4:15 pm to 4:30 pm 15 min

Tool Closed I.C.I.P. from 4:30 pm to 5:00 pm 30 min

Tool Open F.F.P. from 5:00 pm to 5:15 pm 15 min

Tool Closed F.C.I.P. from 5:15 pm to 5:45 pm 30 min

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

Remarks \_\_\_\_\_

Extra Equipment - Jars YES Safety Joint 765 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. Electro Depth 1869 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 44142 Depth 1873 Insurance NONE

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

Tool Operator Don Ludwig

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

NO 11878

from [B] <u>44</u> P.S.I. to [C] <u>48</u> P.S.I.
[D] <u>151</u> P.S.I.
from [E] <u>48</u> P.S.I. to [F] <u>53</u> P.S.I.
[G] <u>109</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.**

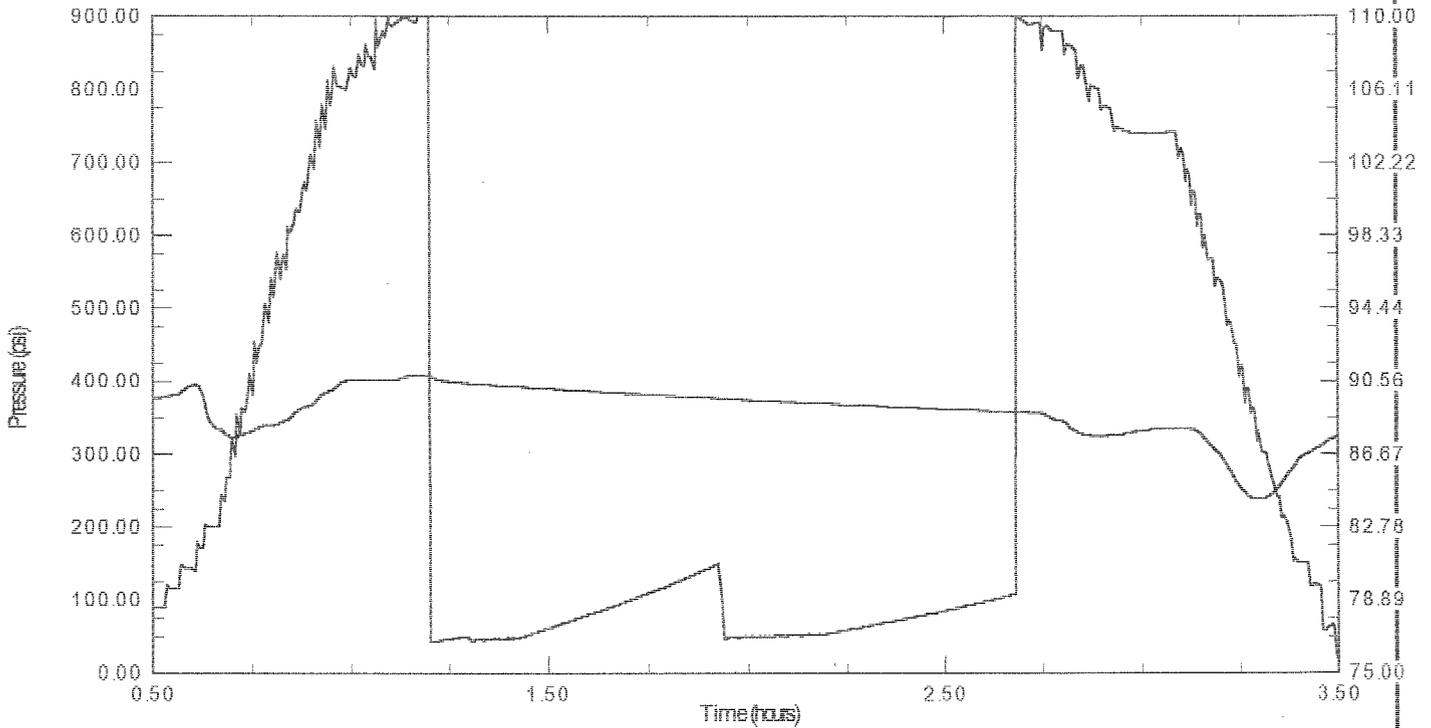
Great Bend, Kansas

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

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRAMPE #1-15 Test #: 1 Date: 07-27-2002 SEC. 15 TWP. 21S  
 RGE. 14

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... July 27, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11878



**Field Reading**

(1)	Initial Hydrostatic Pressure	916
(2)	Initial Flow Pressure	44
(3)	Final Initial Flow Pressure	48
(4)	Initial Shut-In Pressure	151
(5)	Initial Final Flow Pressure	48
(6)	Final Flow Pressure	53
(7)	Final Shut-In Pressure	10
(8)	Final Hydrostatic Pressure	892

**ELECTRONIC RECORDER DEPTH 1869 FT, RECORDER NUMBER 78225**

**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	..... KRAMPE #1-15
TEST DATE	..... 7/31/02	FORMATION TESTED	..... KANSAS CITY
SECTION-TOWN-RANGE	..... 15-21S-14W	DRILL STEM TEST NUMBER	..... 2
STATE	..... KANSAS	REPORT NUMBER	..... 11879
COUNTY	..... STAFFORD	ELEVATION KELLY BUSHINGS	..... 1940
ELEVATION GROUND LEVEL	..... 1931	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	..... 3510	TOP PACKER DEPTH	..... 3505
TEST INTERVAL (to)	..... 3525	BOTTOM PACKER DEPTH	..... 3510
ANCHOR LENGTH	..... 15	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 3525	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

**FLOW TIMES**

*INITIAL OPEN*

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

*INITIAL SHUT-IN*

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

*FINAL OPEN*

TOOL OPEN (from)	..... 9:15
TOOL OPEN (to)	..... 10:15
DURATION (min.)	..... 60

*FINAL SHUT-IN*

TOOL CLOSED (from)	..... 10:15
TOOL CLOSED (to)	..... 11:45
DURATION (min.)	..... 90

**PRESSURE READINGS**

INITIAL HYDROSTATIC	..... 1837
INITIAL FLOW	..... 45
FINAL INITIAL FLOW	..... 81
INITIAL SHUT-IN	..... 366
INITIAL FINAL FLOW	..... 75
FINAL FLOW	..... 121
FINAL SHUT-IN	..... 323
FINAL HYDROSTATIC	..... 1740
MAXIMUM TEMPERATURE	..... 109
TOP RECORDER DEPTH	..... 3519
RECORDER NUMBER	..... 78225
BOTTOM RECORDER DEPTH	..... 3523
RECORDER NUMBER	..... 5463

INITIAL BLOW            **GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 1/2 MINUTES**

FINAL BLOW            **GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE**

**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 #1**

DRILL PIPE LENGTH ..... **248**

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

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

DRILL COLLAR LENGTH ..... **3235**

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 ..... **9.5**

VISCOSITY ..... **47**

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

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

CHLORIDES-DST ..... **77000**

	FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	2150	GAS IN THE PIPE				
2)	200	GASSY OI CUT MUDDY WATER	35	30	15	20
3)	40	SLIGHTLY OIL,GAS AND MUD CUT WATER	8	4	18	70
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 7-31-2002 Location C 1/2 - 1/2 - 9 15-21<sup>3</sup> - 14 W Elevation 1940<sup>rb.</sup> County Stafford

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

Charts Mailed to 9431 East Central P.O. Box 780167 Wichita Kansas 67298-0167

Drilling Contractor Steel Line Drilling #1

Length Drill Pipe 3235 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 3505 Bottom Packer Depth 3510 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3510 TO 3510<sup>25</sup> ANCHOR LENGTH 15 TOTAL DEPTH 3525 Hole Size 7 7/8"

EASE & WELL NO. Kennaps #1-15 FORMATION TESTED Kansas (H) TEST NO. 2

Mud Weight 9.5 Viscosity 47 Water Loss 10.4 Chlorides - Pits 6000 D.S.T. 77000

Maximum Temp. 109 °F Initial Hydrostatic Pressure (A) 1837 P.S.I. Final Hydrostatic Pressure (H) 1740 P.S.I.

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

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

Tool Open F.F.P. from 9:15 AM to 10:15 AM 60 min

Tool Closed F.C.I.P. from 10:15 AM to 11:45 AM 90 min

Initial Blow Good blow built to the bottom of a 5 Galbu Bucket in 12 min

Final Blow Good blow built to the bottom of a 5 Galbu Bucket in 1 min

Total Feet Recovered 200 840 Gravity of Oil \_\_\_\_\_ Corrected

7150 Feet of Feet of Gas in the Pipe \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

200 Feet of Gassy oil cut muddy water 35 % Gas 30 % Oil 15 % Mud 20 % Water

40 Feet of SLIGHTLY O.I.E MUD cut water 0 % Gas 40 % Oil 40 % Mud 20 % 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. 78225 Clock No. Electronic Depth 3519 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 97441 Depth 3523 Insurance NONE

Price of Job \_\_\_\_\_  
Tool Operator Jim Bully  
Approved By \_\_\_\_\_  
No 11879

from [B] <u>45</u> P.S.I. to [C] <u>81</u> P.S.I.
[D] <u>36.6</u> P.S.I.
from [E] <u>75</u> P.S.I. to [F] <u>121</u> P.S.I.
[G] <u>323</u> P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

CHART DATA

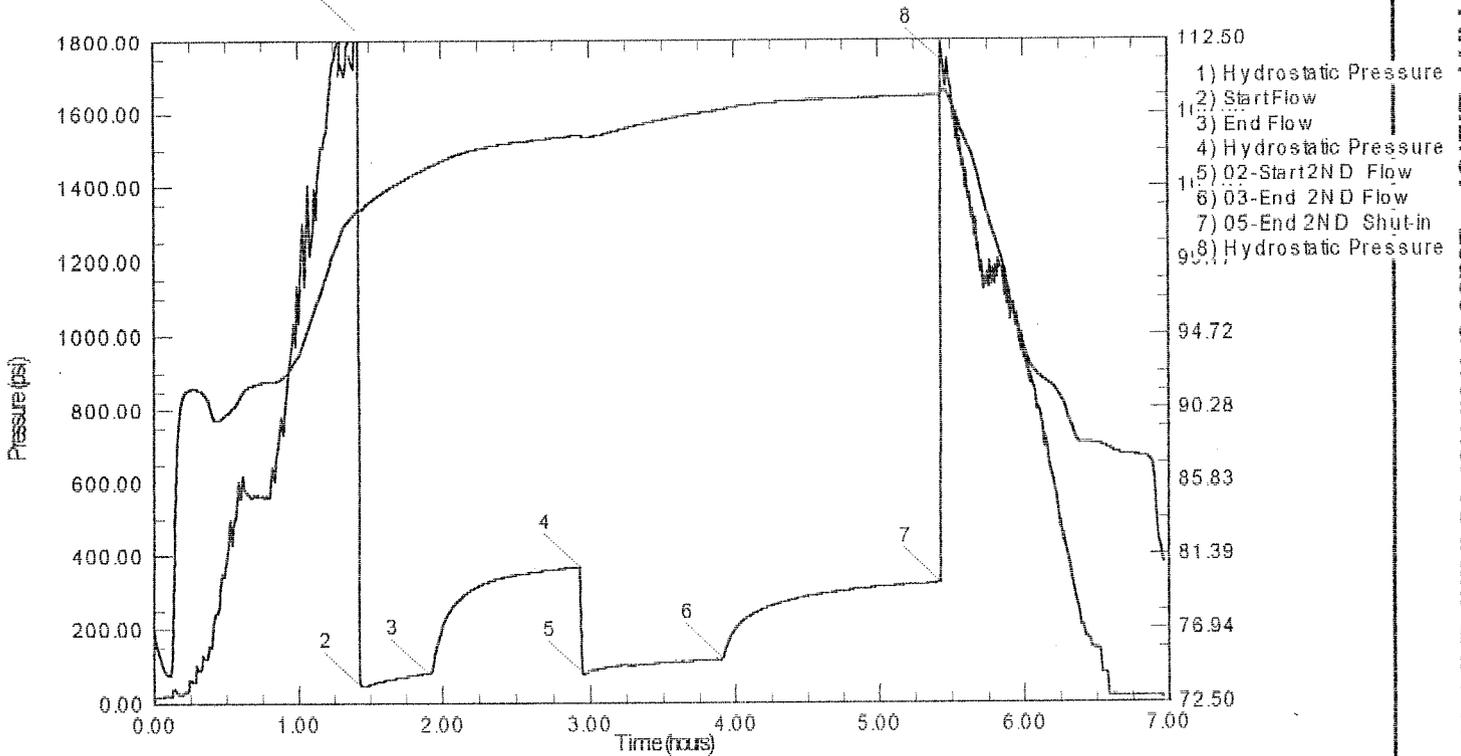
(316) 792-6902

ORIGINAL

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KARMPE #1-15 Test #: 2 Date: 07-31-2002 SEC. 15 TWP. 25N  
 RGE. 14W

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... July 31, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11879



**Field Reading**

(1)	Initial Hydrostatic Pressure	1837
(2)	Initial Flow Pressure	45
(3)	Final Initial Flow Pressure	81
(4)	Initial Shut-In Pressure	366
(5)	Initial Final Flow Pressure	75
(6)	Final Flow Pressure	121
(7)	Final Shut-In Pressure	323
(8)	Final Hydrostatic Pressure	1740

ELECTRONIC RECORDER DEPTH 3519 FT, RECORDER NUMBER 78225

**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>KRAMPE #1-15</b>
TEST DATE .....	<b>7/27/02</b>	FORMATION TESTED .....	<b>HERRINGTON</b>
SECTION-TOWN-RANGE .....	<b>15-21S-14W</b>	DRILL STEM TEST NUMBER .....	<b>1</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>11878</b>
COUNTY .....	<b>STAFFORD</b>	ELEVATION KELLY BUSHINGS .....	<b>1940</b>
ELEVATION GROUND LEVEL .....	<b>1931</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From) .....	<b>1845</b>	TOP PACKER DEPTH .....	<b>1840</b>
TEST INTERVAL (to) .....	<b>1877</b>	BOTTOM PACKER DEPTH .....	<b>1845</b>
ANCHOR LENGTH .....	<b>32</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>1877</b>	PACKER SIZE .....	<b>6 3/4</b>
		HOLE SIZE .....	<b>7 7/8</b>

**FLOW TIMES**

*INITIAL OPEN*

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

*INITIAL SHUT-IN*

TOOL CLOSED (from) .....	<b>4:30</b>
TOOL CLOSED (to) .....	<b>5:00</b>
DURATION (min.) .....	<b>30</b>

*FINAL OPEN*

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

*FINAL SHUT-IN*

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

**PRESSURE READINGS**

INITIAL HYDROSTATIC .....	<b>916</b>
INITIAL FLOW .....	<b>44</b>
FINAL INITIAL FLOW .....	<b>48</b>
INITIAL SHUT-IN .....	<b>151</b>
INITIAL FINAL FLOW .....	<b>48</b>
FINAL FLOW .....	<b>53</b>
FINAL SHUT-IN .....	<b>10</b>
FINAL HYDROSTATIC .....	<b>892</b>
MAXIMUM TEMPERATURE .....	<b>91</b>
TOP RECORDER DEPTH .....	<b>1869</b>
RECORDER NUMBER .....	<b>78226</b>
BOTTOM RECORDER DEPTH .....	<b>1873</b>
RECORDER NUMBER .....	<b>5463</b>

INITIAL BLOW

**WEAK SURFACE BLOW FOR 9 MINUTES AND 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>	HOOKE 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 #1**

DRILL PIPE LENGTH ..... **1570**

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 ..... **35**

WATER LOSS ..... **14.8**

CHLORIDES-PITS ..... **35000**

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.

GREAT BEND, KANSAS

## SUPERPOSITION ANALYSIS

(316) 792-6902

### 1ST SHUT-IN

State ..... KANSAS

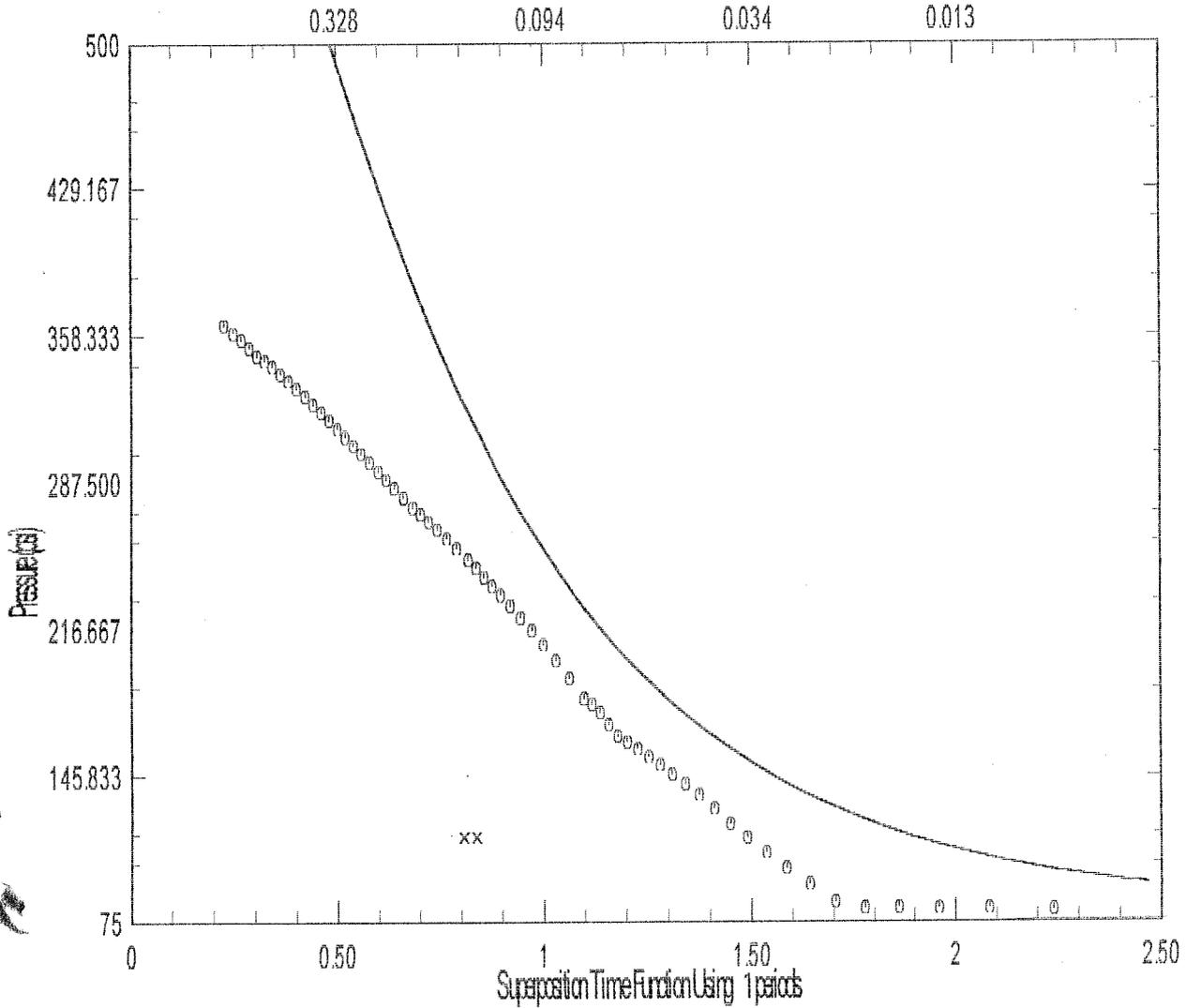
Test Date ..... 7/31/02

County ..... STAFFORD

Sec Town Range ..... 15-21S-14W

Field .....

Report Number ..... 11879



**MODEL RESULTS**

Constant Storage	Skin Model	Homogeneous	No Boundaries
C1 : 3.070E-5 bbl/psi	Skin : 4.35	k : 0.264 md	h : 10 ft
		Est PI: 665.8 psi	mu : 1.567 cp
			phi : 18.0%
			ct : 2.699E-03 1/psi
			rw : 6.417 ft
			FVF : 1.49

Field :  
County or Parish :  
State :

Date Printed: 07/31/02 13:51:57  
Analysis Period : End Flow - 05-End 1ST Shut-in  
Comment : Line #

---

Superposition Slope -> m'	-190.530600
Horner Slope -> m	-247.689732
Intercept	408.509
P(dt=1 hr)	367.212
Pwf	80.680
R Sqr	0.9980
k (md)	0.19947
kh (md-ft)	1.99472
k/u (md/cp)	0.12733
kh/uB (md-ft/cp)	0.85341
Skin	4.121
DP Skin	888.065
Total DP	327.828
Percent DP	270.89%
Radius Invest (ft)	1
Radius Time (hrs)	1.03
Delta Q =	1
h (ft)=	10
mu =	1.567
B =	1.492
First Point #	61
Second Point #	295
Start Real Time	0.186
End Real Time	0.918
Start SF Time	0.710

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

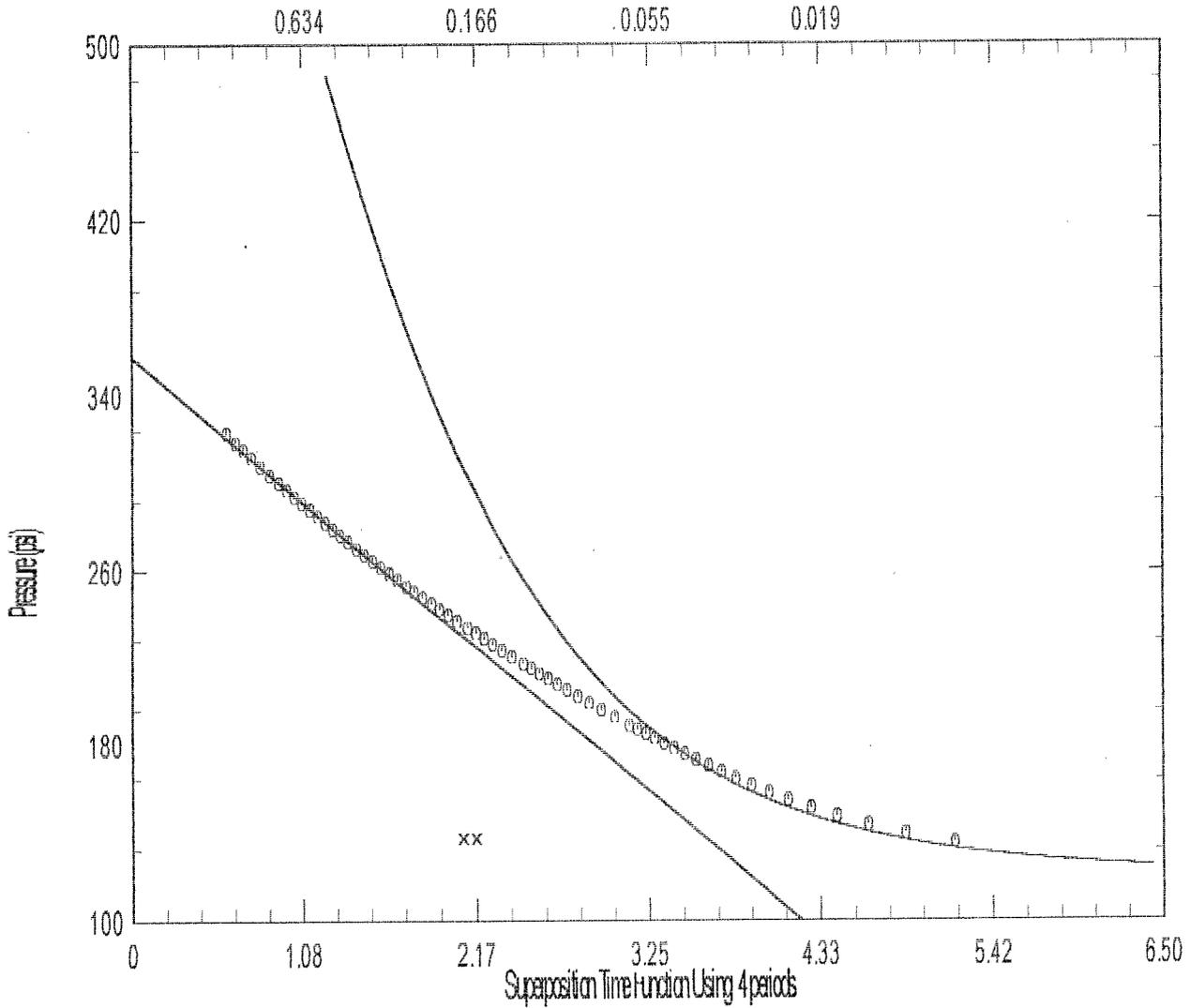
## SUPERPOSITION ANALYSIS

(316) 792-6902

### 2ND SHUT-IN

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... 7/31/02  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11879



#### MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 1.100E-4 bbl/psi	Skin : 3.39	k : 0.503 md		mu : 1.567 cp
		Est Pi: 634.5 psi		phi : 18.0%
				ct : 2.699E-03 1/psi
				rw : 6.417 ft
				FVF : 1.49

Field :  
County or Parish :  
State :

Date Printed: 07/31/02 13:57:47  
Analysis Period : 03-End 2ND Flow - 05-End 2ND  
Comment : Line #

---

Superposition Slope -> m' ..... -61.087990  
Horner Slope -> m ..... -152.719975  
Intercept ..... 357.480  
P(dt=1 hr) ..... 308.372  
Pwf ..... 121.200  
R Sqr ..... 0.9989

k (md) ..... 0.62215  
kh (md-ft) ..... 6.22145  
k/u (md/cp) ..... 0.39713  
kh/uB (md-ft/cp) ..... 2.66173

Skin ..... 3.632  
DP Skin ..... 482.530  
Total DP ..... 236.280  
Percent DP ..... 204.22%

Radius Invest (ft) ..... 1  
Radius Time (hrs) ..... 1.51

Delta Q = ..... 3  
h (ft)= ..... 10  
mu = ..... 1.567  
B = ..... 1.492

First Point # ..... 97  
Second Point # ..... 300  
Start Real Time ..... 0.294  
End Real Time ..... 1.509  
Start SF Time ..... 1.666

ORIGINAL

Superior Testers Enterprises, Inc.

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

Date 7-31-2002 Location C-5/2-1/2-SW 15-21-14N Elevation 1940 KB. County Stafford  
Company F.G. Hall Company LLC Number of Copies 5

Charts Mailed to 9531 East Central P.O. Box 780167-Wichita, Kansas 67278-0167

Drilling Contractor STERLING DRILLING Rig #1

Length Drill Pipe 3252 I.D. Drill Pipe 380 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 225 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3522 Bottom Packer Depth 3527 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3527 TO 3565 ANCHOR LENGTH 38 TOTAL DEPTH 3565 Hole Size 2 7/8"

EASE & WELL NO. KRAMER # 1-15 FORMATION TESTED KANSAS CITY "T-F" TEST NO. 3

Mud Weight 9.5 Viscosity 47 Water Loss 10.2% Chlorides - Pits 6000 D.S.T. 82000

Maximum Temp. 106 °F Initial Hydrostatic Pressure (A) 1804 P.S.I. Final Hydrostatic Pressure (H) 1732 P.S.I.

Tool Open I.F.P. from 10:30 am to 11:00 am 30 min

Tool Closed I.C.I.P. from 11:00 am to 12:00 am 60 min

Tool Open F.F.P. from 12:00 am to 12:30 am 30 min

Tool Closed F.C.I.P. from 12:30 am to 1:30 am 60 min

from [B] 85 P.S.I. to [C] 156 P.S.I.  
[D] 673 P.S.I.  
from [E] 164 P.S.I. to [F] 200 P.S.I.  
[G] 639 P.S.I.

Initial Blow Weak blow built to 1 1/2 inches Decreased to a weak surface blow

Final Blow Very weak surface blow through air

Total Feet Recovered 300 Gravity of Oil \_\_\_\_\_ Corrected

1 Feet of CLEAN oil on top % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

300 Feet of SLIGHTLY muddy water with a very few spots of oil % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of CHLORIDES 82000 % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of Good show of oil between the % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Feet of TOOLS % 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. 7825 Clock No. ELECTRONIC Depth 3558 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47442 Depth 3562 Insurance NONE

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

Tool Operator Steve Ludwig

Approved By Nº 11880

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

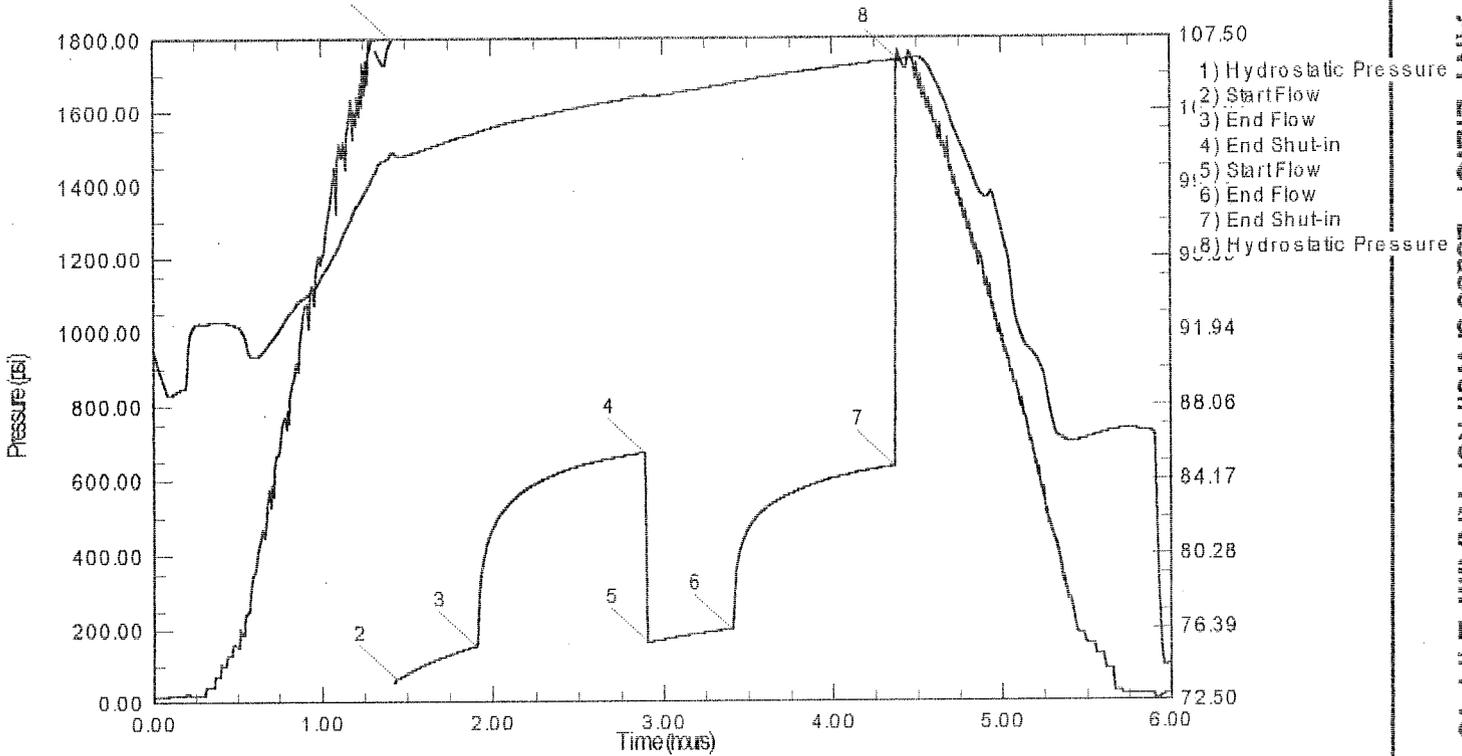
**CHART DATA**

(316) 792-6902

ORIGINAL

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... July 31, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11880



**Field Reading**

(1)	Initial Hydrostatic Pressure	1804
(2)	Initial Flow Pressure	85
(3)	Final Initial Flow Pressure	156
(4)	Initial Shut-In Pressure	673
(5)	Initial Final Flow Pressure	164
(6)	Final Flow Pressure	200
(7)	Final Shut-In Pressure	639
(8)	Final Hydrostatic Pressure	1732

ELECTRONIC RECORDER DEPTH 3558 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRANPE #1-15 Test #: 3 Date: 7-31-2002 SEC. 15 TWP. 21S  
 RGE. 15W

**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	KRAMPE #1-15
TEST DATE	7/31/02	FORMATION TESTED	KANSAS CITY "I-J"
SECTION-TOWN-RANGE	15-21S-14W	DRILL STEM TEST NUMBER	3
STATE	KANSAS	REPORT NUMBER	11880
COUNTY	STAFFORD	ELEVATION KELLY BUSHINGS	1940
ELEVATION GROUND LEVEL	1931	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	3527	TOP PACKER DEPTH	3522
TEST INTERVAL (to)	3565	BOTTOM PACKER DEPTH	3527
ANCHOR LENGTH	38	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3565	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

**FLOW TIMES**

*INITIAL OPEN*

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

*INITIAL SHUT-IN*

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

*FINAL OPEN*

TOOL OPEN (from)	12:00
TOOL OPEN (to)	12:30
DURATION (min.)	30

*FINAL SHUT-IN*

TOOL CLOSED (from)	12:30
TOOL CLOSED (to)	1:30
DURATION (min.)	60

**PRESSURE READINGS**

INITIAL HYDROSTATIC	1804
INITIAL FLOW	85
FINAL INITIAL FLOW	156
INITIAL SHUT-IN	673
INITIAL FINAL FLOW	164
FINAL FLOW	200
FINAL SHUT-IN	639
FINAL HYDROSTATIC	1732
MAXIMUM TEMPERATURE	106
TOP RECORDER DEPTH	3558
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	3562
RECORDER NUMBER	5463

**INITIAL BLOW**

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

**FINAL BLOW**

VERY WEAK SURFACE BLOW THROUGH OUT

**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 #1**

DRILL PIPE LENGTH ..... **3251**

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 ..... **2.25**

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

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

MUD WEIGHT #/GAL ..... **9.5**

VISCOSITY ..... **47**

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

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

CHLORIDES-DST ..... **82000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	1	CLEAN OIL ON TOP				
2)	300	SLIGHTLY MUDDY WATER WITH VERY FEW SPOTS OF OIL				
3)		CHORIDES 82000				
4)		THERE WAS A GOOD SHOW OF OIL BETWEEN THE TOOLS				
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

**COMMENTS**

ORIGINAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 08-01-2002 Location C 1/2 - N 1/2 - S 1/4 - 15-27-14W Elevation 1940XB County Stafford  
1931 GL

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

Parts Mailed to 9531 East Central P.O. Box 280167 Wichita Kansas 67278-0167

Drilling Contractor Steelink Drilling Rig #1

Length Drill Pipe 3320 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 3590 Bottom Packer Depth 3595 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3595 TO 3620 ANCHOR LENGTH 25 TOTAL DEPTH 3620 Hole Size 7 7/8"

LEASE & WELL NO. Keamee #1-15 FORMATION TESTED Kansas City 1/2" TEST NO. 4

Fluid Weight 9.7 Viscosity 52 Water Loss 10 Chlorides - Pits 6500 D.S.T. \_\_\_\_\_

Maximum Temp. 107 °F Initial Hydrostatic Pressure (A) 1818 P.S.I. Final Hydrostatic Pressure (H) 1764 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 4:30 p.m. 60 min

Tool Closed F.C.I.P. from 4:30 p.m. to 6:00 p.m. 90 min

Initial Blow WEAK SURFACE blow through out

Final Blow WEAK blow built to 3 inches into the water & DECREASED to a weak surface blow

Total Feet Recovered 150 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

350 Feet of Gas in the Pipe % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

120 Feet of CLEAN Gassy Oil 40 % Gas 30 % Oil 40 % Mud 0 % Water

30 Feet of Muddy Gassy Oil 40 % Gas 20 % Oil 40 % 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

Remarks \_\_\_\_\_

Extra Equipment - Jars NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NO NZ

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 3613 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 3617 Insurance NONE

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

Tool Operator Don Sulley

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

No. 11881

from [B] <u>42</u> P.S.I. to [C] <u>62</u> P.S.I.
[D] <u>412</u> P.S.I.
from [E] <u>69</u> P.S.I. to [F] <u>94</u> P.S.I.
[G] <u>406</u> P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

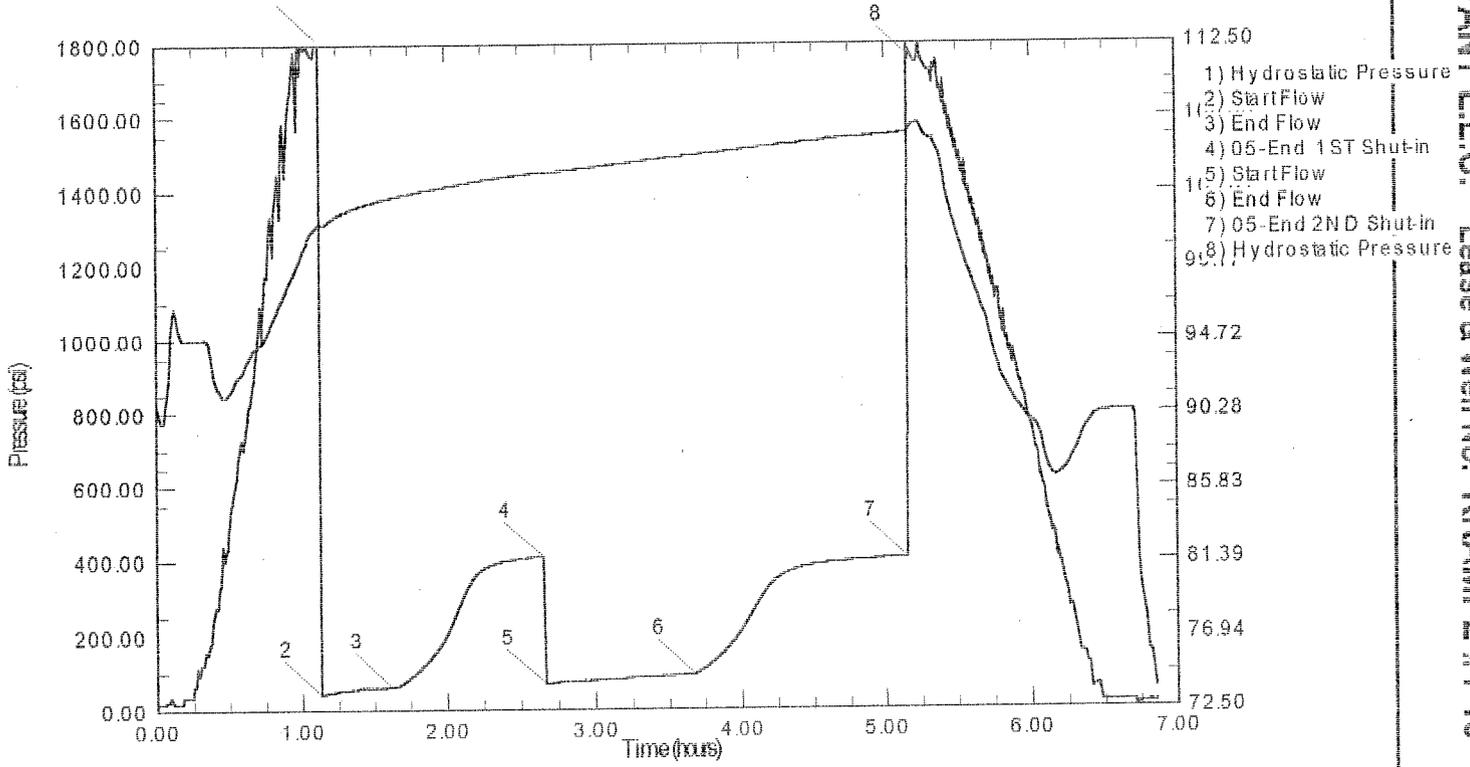
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... August 1, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11881

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRANPE #1-15 Test #: 4 Date: 08-012002 SEC. 15 TWP.  
 21S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1818
(2)	Initial Flow Pressure	42
(3)	Final Initial Flow Pressure	62
(4)	Initial Shut-In Pressure	412
(5)	Initial Final Flow Pressure	69
(6)	Final Flow Pressure	94
(7)	Final Shut-In Pressure	406
(8)	Final Hydrostatic Pressure	1764

ELECTRONIC RECORDER DEPTH 3613 FT, RECORDER NUMBER 78225

**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	..... KRAMPE #1-15
TEST DATE	..... 8/1/02	FORMATION TESTED	..... KANSAS CITY "L"
SECTION-TOWN-RANGE	..... 15-21S-14W	DRILL STEM TEST NUMBER	..... 4
STATE	..... KANSAS	REPORT NUMBER	..... 11881
COUNTY	..... STAFFORD	ELEVATION KELLY BUSHINGS	..... 1940
ELEVATION GROUND LEVEL	..... 1931	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	..... 3595	TOP PACKER DEPTH	..... 3590
TEST INTERVAL (to)	..... 3620	BOTTOM PACKER DEPTH	..... 3595
ANCHOR LENGTH	..... 25	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 3620	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

**FLOW TIMES**

*INITIAL OPEN*

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

*INITIAL SHUT-IN*

TOOL CLOSED (from)	..... 2:30
TOOL CLOSED (to)	..... 3:30
DURATION (min.)	..... 60

*FINAL OPEN*

TOOL OPEN (from)	..... 3:30
TOOL OPEN (to)	..... 4:30
DURATION (min.)	..... 60

*FINAL SHUT-IN*

TOOL CLOSED (from)	..... 4:30
TOOL CLOSED (to)	..... 6:00
DURATION (min.)	..... 90

**PRESSURE READINGS**

INITIAL HYDROSTATIC	..... 1818
INITIAL FLOW	..... 42
FINAL INITIAL FLOW	..... 62
INITIAL SHUT-IN	..... 412
INITIAL FINAL FLOW	..... 69
FINAL FLOW	..... 94
FINAL SHUT-IN	..... 406
FINAL HYDROSTATIC	..... 1764
MAXIMUM TEMPERATURE	..... 107
TOP RECORDER DEPTH	..... 3613
RECORDER NUMBER	..... 78225
BOTTOM RECORDER DEPTH	..... 3617
RECORDER NUMBER	..... 5463

**INITIAL BLOW**

**WEAK SURFACE BLOW THROUGH OUT**

**FINAL BLOW**

**WEAK BUILDING BLOW BUILT TO 3 INCHES AND DECREASED TO A WEAK SURFACE BLOW**

**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 DRILING RIG #1**

DRILL PIPE LENGTH ..... **3320**

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 ..... **9.2**

VISCOSITY ..... **52**

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

CHLORIDES-PITS ..... **6500**

CHLORIDES-DST .....

	FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	350	GAS IN THE PIPE				
2)	120	CLEAN GASSY OIL-GRAVITY 34 CORRECTED	35	65	0	0
3)	30	MUDDY GASSY OIL	40	20	40	0
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

### COMMENTS

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

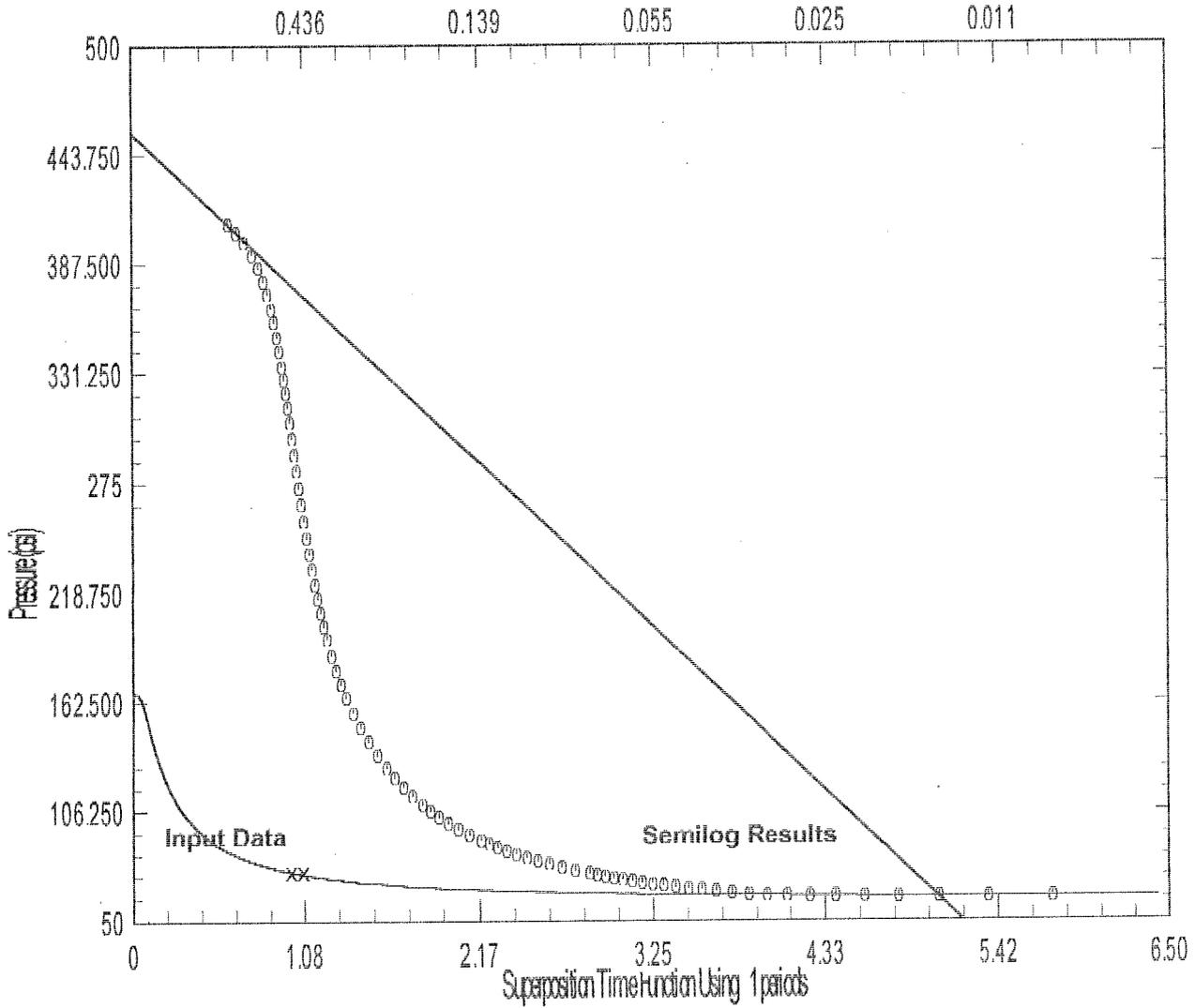
SEMI-LOG ANALYSIS

(316) 792-6902

1ST SHUT-IN

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... 8/1/02  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11881



**MODEL RESULTS**

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 6.220E-4 bbl/psi	Skin : 3.86	k : 1.044 md		mu : 4.670 cp
		Est Pi: 167.8 psi		phi : 18.0%
				ct : 1.812E-03 1/psi
				rw : 6.417 ft
				FVF : 1.04

Field :  
County or Parish :  
State :

Date Printed: 08/02/02 05:58:39  
Analysis Period : End Flow - 05-End 1ST Shut-in  
Comment : Line #

---

Superposition Slope -> m' ..... -78.065220  
Horner Slope -> m ..... -257.615238  
Intercept ..... 455.729  
P(dt=1 hr) ..... 410.963  
Pwf ..... 61.900  
R Sqr ..... 0.9989

k (md) ..... 1.01170  
kh (md-ft) ..... 10.11697  
k/u (md/cp) ..... 0.21662  
kh/uB (md-ft/cp) ..... 2.08287

Skin ..... 3.884  
DP Skin ..... 870.599  
Total DP ..... 393.829  
Percent DP ..... 221.06%

Radius Invest (ft) ..... 1  
Radius Time (hrs) ..... 1.02

Delta Q = ..... 3  
h (ft)= ..... 10  
mu = ..... 4.670  
B = ..... 1.040

First Point # ..... 293  
Second Point # ..... 300  
Start Real Time ..... 0.882  
End Real Time ..... 1.020  
Start SF Time ..... 0.635

# SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

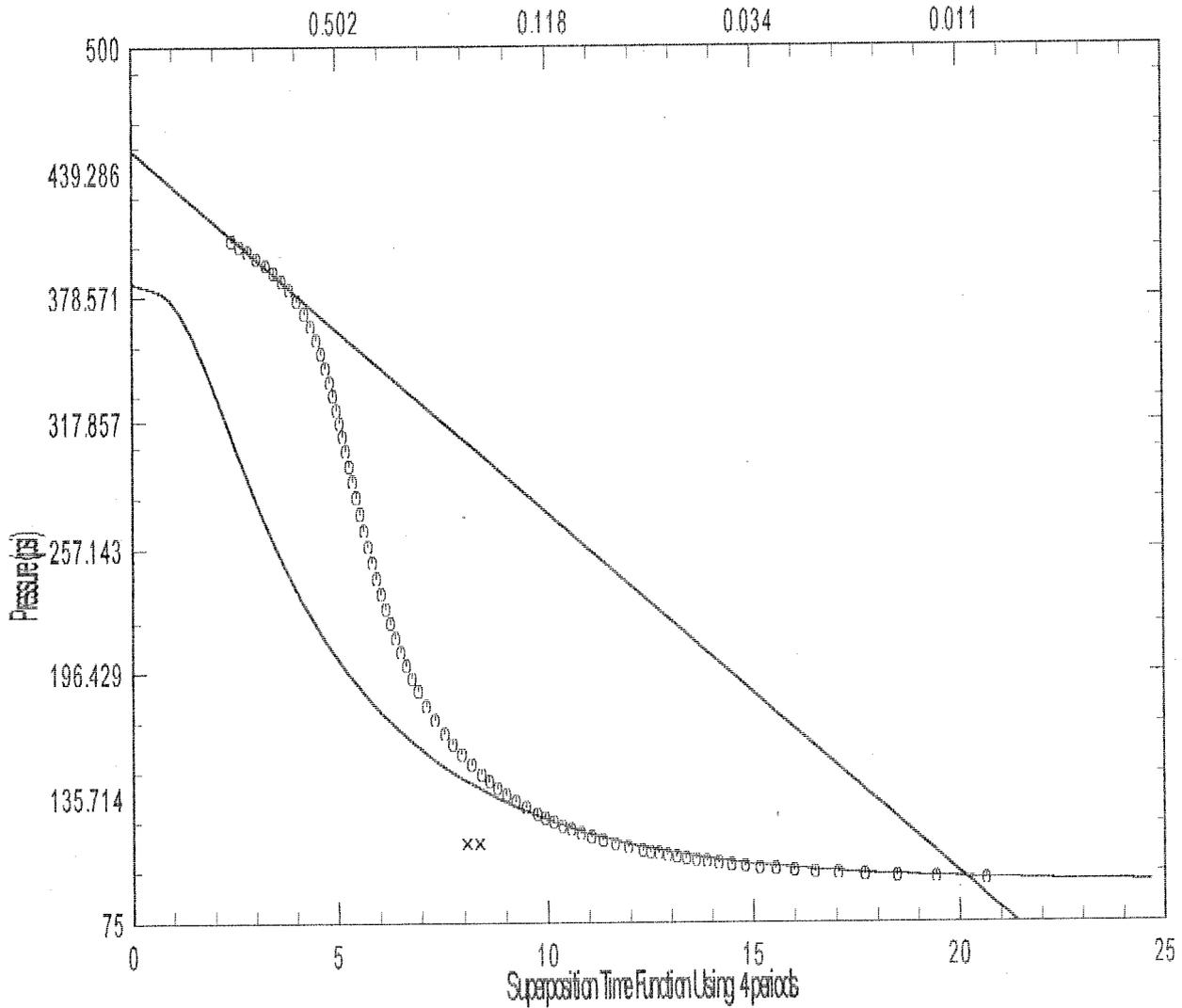
## SUPERPOSITION ANALYSIS

(316) 792-6902

### 2ND SHUT-IN

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... 8/1/02  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11881



#### MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 9.780E-4 bbl/psi	Skin : 3.99	k : 6.130 md		mu : 4.670 cp
		Est Pr: 385.4 psi		phi : 18.0%
				ct : 1.812E-03 1/psi
				rw : 6.417 ft
				FVF : 1.04

Field :  
County or Parish :  
State :

Date Printed: 08/02/02 06:04:20  
Analysis Period : End Flow - 05-End 2ND Shut-in  
Comment : Line #

---

Superposition Slope -> m'	-17.550500
Horner Slope -> m	-173.749996
Intercept	450.334
P(dt=1 hr)	393.857
Pwf	93.850
R Sqr	0.9926
k (md)	4.50006
kh (md-ft)	45.00060
k/u (md/cp)	0.96353
kh/uB (md-ft/cp)	9.26469
Skin	3.566
DP Skin	539.075
Total DP	356.484
Percent DP	151.22%
Radius Invest (ft)	2
Radius Time (hrs)	1.46
Delta Q =	10
h (ft)=	10
mu =	4.670
B =	1.040
First Point #	243
Second Point #	300
Start Real Time	0.732
End Real Time	1.464
Start SF Time	3.963

ORIGINAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-2-2002 Location C 1/2 - 1/2 - 9/4 15-21-14 Elevation 1940 K.B. County Stafford  
193162

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

Charts Mailed to 9531 East Kelllogg P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #1

Length Drill Pipe 3349 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 3619 Bottom Packer Depth 3624 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3624 TO 3697 ANCHOR LENGTH 73 TOTAL DEPTH 3697 Hole Size 7 7/8"

LEASE & WELL NO. Krampe #1-15 FORMATION TESTED Viola TEST NO. 5

Mud Weight 9.2 Viscosity 52 Water Loss 10.9 Chlorides - Pits 6500 D.S.T. \_\_\_\_\_

Maximum Temp. 105 °F Initial Hydrostatic Pressure (A) 1887 P.S.I. Final Hydrostatic Pressure (H) 1853 P.S.I.

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

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

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

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

Initial Blow VERY WEAK blow for 5 minutes & DIED

Final Blow NO blow

Total Feet Recovered 5 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

5 Feet of oil speckled 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 NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. Electronic Clock No. 78225 Depth 3690 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 3694 Insurance NONE

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

Tool Operator Dene Budig

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

NO 11882

from [B] <u>72</u> P.S.I. to [C] <u>79</u> P.S.I.
[D] <u>396</u> P.S.I.
from [E] <u>77</u> P.S.I. to [F] <u>83</u> P.S.I.
[G] <u>179</u> P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

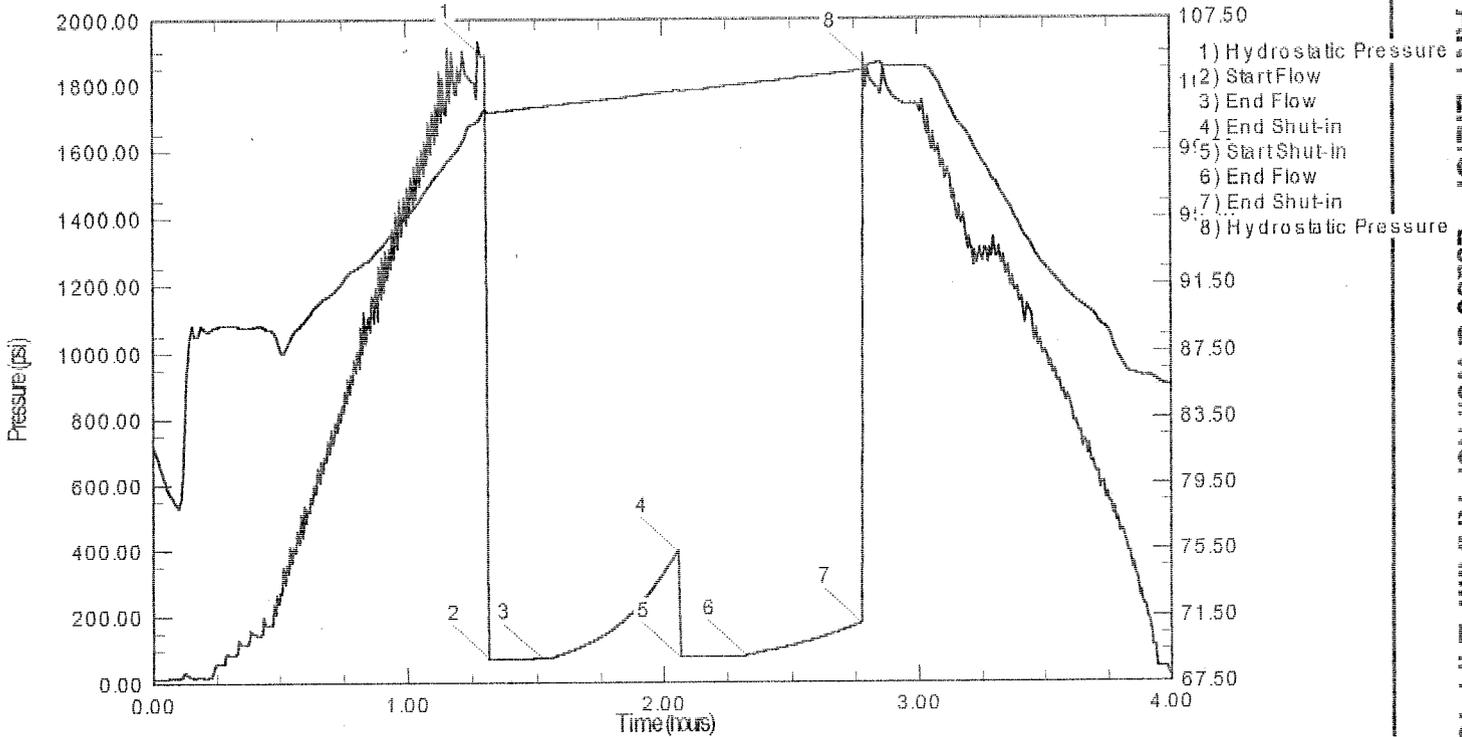
Great Bend, Kansas

CHART DATA ORIGINAL (316) 792-6902

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... August 2, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 1882

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRAMPPE #1-15 Test #: 5 Date: 08-02-2002 SEC. 15 TWP.  
 21S RGE. 14



**Field Reading**

(1)	Initial Hydrostatic Pressure	1887
(2)	Initial Flow Pressure	72
(3)	Final Initial Flow Pressure	75
(4)	Initial Shut-In Pressure	396
(5)	Initial Final Flow Pressure	77
(6)	Final Flow Pressure	83
(7)	Final Shut-In Pressure	179
(8)	Final Hydrostatic Pressure	1852

ELECTRONIC RECORDER DEPTH 3690 FT, RECORDER NUMBER 78225

**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>KRAMPE #1-15</b>
TEST DATE .....	<b>8/2/02</b>	FORMATION TESTED .....	<b>VIOLA</b>
SECTION-TOWN-RANGE .....	<b>15-21S-14W</b>	DRILL STEM TEST NUMBER .....	<b>5</b>
STATE .....	<b>KANSAS</b>	REPORT NUMBER .....	<b>1882</b>
COUNTY .....	<b>STAFFORD</b>	ELEVATION KELLY BUSHINGS .....	<b>1940</b>
ELEVATION GROUND LEVEL .....	<b>1931</b>	TESTING ENGINEER .....	<b>GENE BUDIG</b>
COMPANY REPRESENTATIVE .....	<b>BILL REE</b>		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From) .....	<b>3924</b>	TOP PACKER DEPTH .....	<b>3919</b>
TEST INTERVAL (to) .....	<b>3997</b>	BOTTOM PACKER DEPTH .....	<b>3924</b>
ANCHOR LENGTH .....	<b>73</b>	NUMBER OF PACKERS .....	<b>2</b>
TOTAL DEPTH (ft) .....	<b>3997</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>1887</b>
INITIAL FLOW .....	<b>72</b>
FINAL INITIAL FLOW .....	<b>75</b>
INITIAL SHUT-IN .....	<b>396</b>
INITIAL FINAL FLOW .....	<b>77</b>
FINAL FLOW .....	<b>83</b>
FINAL SHUT-IN .....	<b>179</b>
FINAL HYDROSTATIC .....	<b>1852</b>
MAXIMUM TEMPERATURE .....	<b>105</b>
TOP RECORDER DEPTH .....	<b>3690</b>
RECORDER NUMBER .....	<b>78225</b>
BOTTOM RECORDER DEPTH .....	<b>3694</b>
RECORDER NUMBER .....	<b>5463</b>

**INITIAL BLOW**

**VERY WEAK SURFACE BLOW FOR 5 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 #1**

DRILL PIPE LENGTH ..... **3349**

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 ..... **9.2**

VISCOSITY ..... **52**

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

CHLORIDES-PITS ..... **6500**

CHLORIDES-DST .....

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

**COMMENTS**

ORIGINAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-2-2002 Location C 7/8 - 1/2 SW - 15-21-14W Elevation 1940 kb. 1931 ft County Stafford

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

Charts Mailed to 9931 Central P.O. box 780167 Wichita Kansas 67228-0167

Drilling Contractor Steeling Rig #1

Length Drill Pipe 3445 I.D. Drill Pipe none 3.75 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 3715 Bottom Packer Depth 3720 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3720 TO 3735 ANCHOR LENGTH 15 TOTAL DEPTH 3735 Hole Size 7 7/8"

EASE & WELL NO. Aramp #1-15 FORMATION TESTED Simpson TEST NO. 6

Mud Weight 94 Viscosity 45 Water Loss 11 Chlorides - Pits 6500 D.S.T. \_\_\_\_\_

Maximum Temp. 105 °F Initial Hydrostatic Pressure (A) 1958 S.I. Final Hydrostatic Pressure (H) 1836 P.S.I.

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

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

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

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

Initial Blow Good surge WSAK blow for 1 minute & DIED

Final Blow no blow

Total Feet Recovered 5 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

5 Feet of Very slightly oil speckled mud %Gas \_\_\_\_\_ %Oil \_\_\_\_\_ %Mud \_\_\_\_\_ %Water \_\_\_\_\_

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

Feet of fair show between the tools %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. 78225 Clock No. Electronic Depth 3728 Cir. Sub none Sampler none

Bottom Recorder No. 5463 Clock No. 41141 Depth 3733 Insurance none

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

Tool Operator Gene Bendig

Approved By \_\_\_\_\_  
NO 11883

from [B]	<u>37</u>	P.S.I. to [C]	<u>39</u>	P.S.I.
[D]	<u>44</u>			P.S.I.
from [E]	<u>38</u>	P.S.I. to [F]	<u>39</u>	P.S.I.
[G]	<u>43</u>			P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

CHART DATA

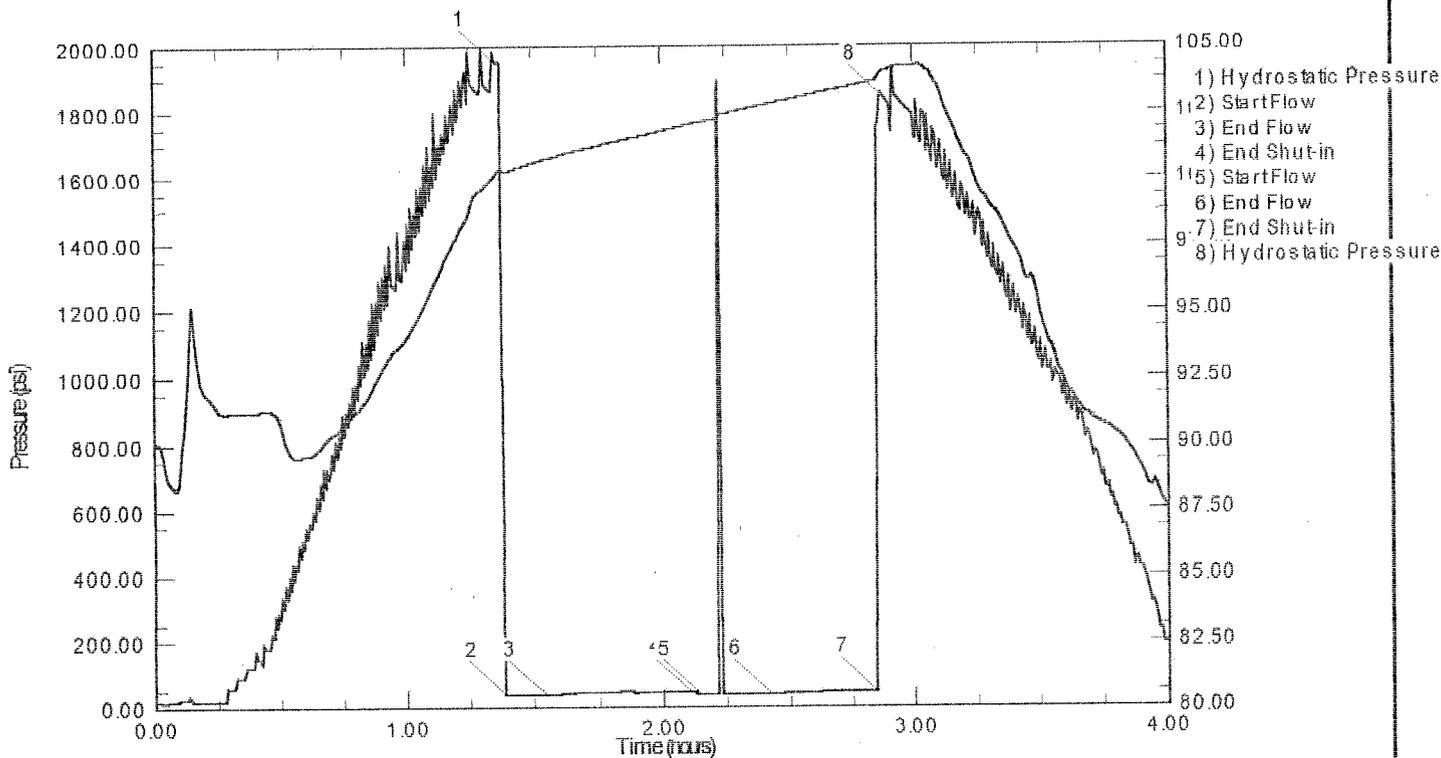
(316) 792-6902

ORIGINAL

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... August 2, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11883

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRANPE #1-15 Test #: 6 Date: 08-02-2002 SEC. 15 TWP.  
 21S RGE. 14W



**Field Reading**

(1)	Initial Hydrostatic Pressure	1952
(2)	Initial Flow Pressure	37
(3)	Final Initial Flow Pressure	39
(4)	Initial Shut-In Pressure	44
(5)	Initial Final Flow Pressure	38
(6)	Final Flow Pressure	39
(7)	Final Shut-In Pressure	43
(8)	Final Hydrostatic Pressure	836

ELECTRONIC RECORDER DEPTH 3728 FT, RECORDER NUMBER 78225

**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	..... KRAMPE #1-15
TEST DATE	..... 8/2/02	FORMATION TESTED	..... SIMPSON
SECTION-TOWN-RANGE	..... 15-21S-14W	DRILL STEM TEST NUMBER	..... 6
STATE	..... KANSAS	REPORT NUMBER	..... 11883
COUNTY	..... STAFFORD	ELEVATION KELLY BUSHINGS	..... 1940
ELEVATION GROUND LEVEL	..... 1931	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	..... 3720	TOP PACKER DEPTH	..... 3715
TEST INTERVAL (to)	..... 3735	BOTTOM PACKER DEPTH	..... 3720
ANCHOR LENGTH	..... 15	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 3735	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from)	..... 5:00
TOOL OPEN (to)	..... 5:15
DURATION (min.)	..... 15

*INITIAL SHUT-IN*

TOOL CLOSED (from)	..... 5:15
TOOL CLOSED (to)	..... 5:45
DURATION (min.)	..... 30

*FINAL OPEN*

TOOL OPEN (from)	..... 5:45
TOOL OPEN (to)	..... 6:00
DURATION (min.)	..... 15

*FINAL SHUT-IN*

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

**PRESSURE READINGS**

INITIAL HYDROSTATIC	..... 1952
INITIAL FLOW	..... 37
FINAL INITIAL FLOW	..... 39
INITIAL SHUT-IN	..... 44
INITIAL FINAL FLOW	..... 38
FINAL FLOW	..... 39
FINAL SHUT-IN	..... 43
FINAL HYDROSTATIC	..... 836
MAXIMUM TEMPERATURE	..... 105
TOP RECORDER DEPTH	..... 3728
RECORDER NUMBER	..... 78225
BOTTOM RECORDER DEPTH	..... 3732
RECORDER NUMBER	..... 5463

**INITIAL BLOW**

**GOOD SURGE WEAK BLOW FOR 1 MINUTE AND IED**

**FINAL BLOW**

**NO BLOW FLUSHED TOOL GOOD SURGE NO HELP**

**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 #1**

DRILL PIPE LENGTH ..... **3445**

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 ..... **45**

WATER LOSS ..... **11**

CHLORIDES-PITS ..... **6500**

CHLORIDES-DST .....

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	5	SLIGHTLY OIL SPECKED MUD THERE WAS A FAIR SHOW BETWEEN THE TOOLS				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
TOTAL RECOVERY						

**COMMENTS**

ORIGINAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-3-2002 Location C 9 1/2 - 1/2 S W - 15 - 21 - 14 W Elevation 1940 K.B. County Stafford

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

Charts Mailed to 9531 East Central - P.O. Box 780167 Wichita Kansas 67298-0167

Drilling Contractor Steelcase Drilling RB #1

Length Drill Pipe 340 77 I.D. Drill Pipe 3.30 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 370 39 Bottom Packer Depth 370 44 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 370 44 TO 3748 ANCHOR LENGTH 4 TOTAL DEPTH 3748 Hole Size 2 7/8"

EASE & WELL NO. Krampe #1-15 FORMATION TESTED Arbuckle TEST NO. 8

Mud Weight 9.4 Viscosity 63 Water Loss 12.4 Chlorides - Pits 7300 D.S.T. 22000

Maximum Temp. 115 °F Initial Hydrostatic Pressure (A) 1990 P.S.I. Final Hydrostatic Pressure (H) 1805 P.S.I.

Tool Open I.F.P. from 8:30 A.M. to 9:00 A.M. 30 min

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

Tool Open F.F.P. from 10:00 A.M. to 11:00 A.M. 60 min

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

Initial Blow WEAK blow built to 1/4 inch. Decreased to a very weak blow

Final Blow Very weak intermittent surface blow through out

Total Feet Recovered 300 Gravity of Oil \_\_\_\_\_ Corrected

5 Feet of CLEAN OIL % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

295 Feet of VERY SLIGHTLY OIL CUT WATER % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of Less than 1% % 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. 4744 Clock No. Electronic Depth 3732 Cir. Sub NONE Sampler NONE

Bottom Recorder No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Depth 374 Insurance NONE

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

Tool Operator Joe Bully

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

NO 11884

from [B]	<u>37</u>	P.S.I. to [C]	<u>90</u>	P.S.I.
[D]	<u>1248</u>			P.S.I.
from [E]	<u>94</u>	P.S.I. to [F]	<u>158</u>	P.S.I.
[G]	<u>1250</u>			P.S.I.

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

CHART DATA

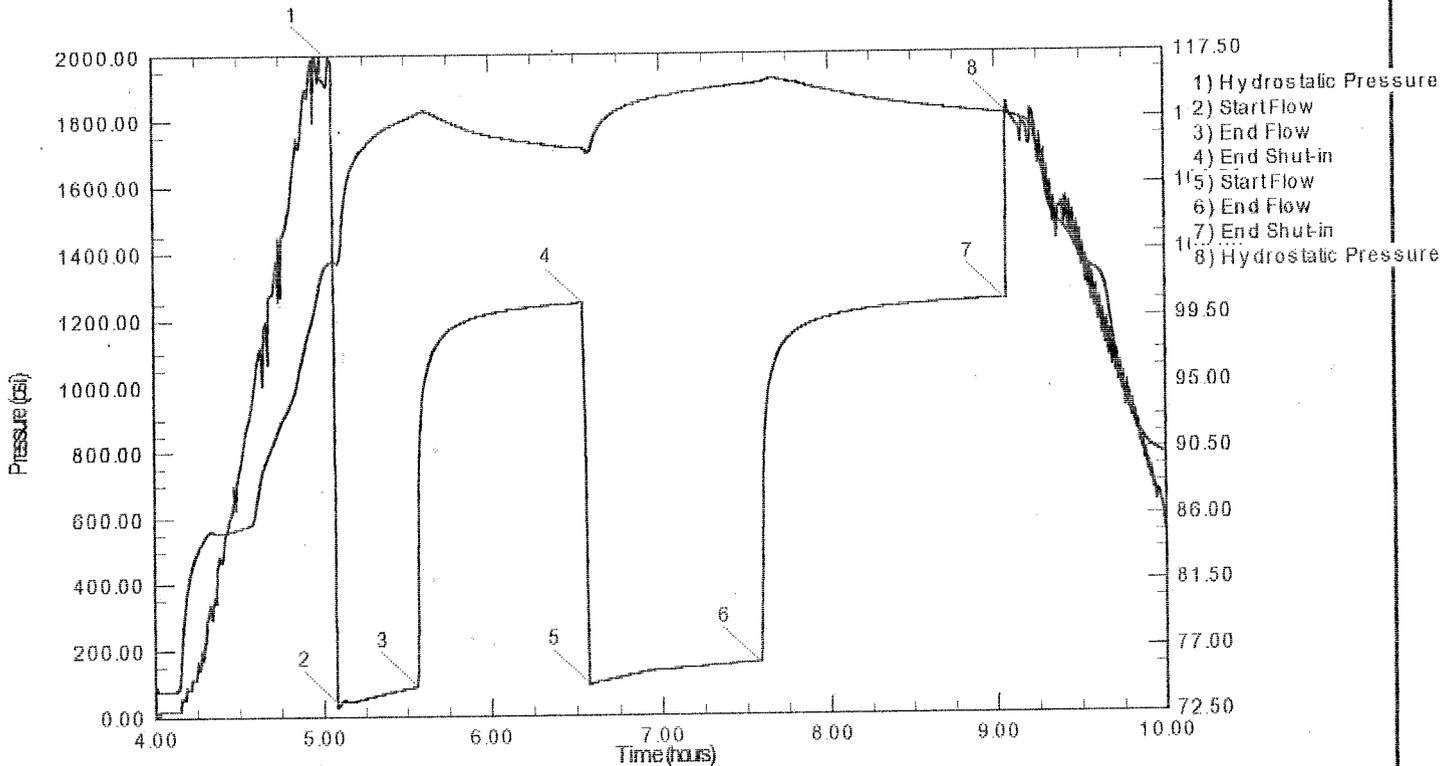
(316) 792-6902

ORIGINAL

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. KRANPE #1-15 Test #: 8 Date: 08-03-2002 SEC. 15 TWP. 21S  
 RGE. 14W

State ..... KANSAS  
 County ..... STAFFORD  
 Field .....

Test Date ..... August 3, 2002  
 Sec Town Range ..... 15-21S-14W  
 Report Number ..... 11884



**Field Reading**

(1)	Initial Hydrostatic Pressure	1990
(2)	Initial Flow Pressure	37
(3)	Final Initial Flow Pressure	
(4)	Initial Shut-In Pressure	1248
(5)	Initial Final Flow Pressure	94
(6)	Final Flow Pressure	158
(7)	Final Shut-In Pressure	1250
(8)	Final Hydrostatic Pressure	1805

ELECTRONIC RECORDER DEPTH 3732 FT, RECORDER NUMBER 78225

**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	..... KRAMPE #1-15
TEST DATE	..... 8/3/02	FORMATION TESTED	..... ARBUCKLE
SECTION-TOWN-RANGE	..... 15-21S-14W	DRILL STEM TEST NUMBER	..... 8
STATE	..... KANSAS	REPORT NUMBER	..... 11884
COUNTY	..... STAFFORD	ELEVATION KELLY BUSHINGS	..... 1940
ELEVATION GROUND LEVEL	..... 1931	TESTING ENGINEER	..... GENE BUDIG
COMPANY REPRESENTATIVE	..... BILL REE		

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	..... 3744	TOP PACKER DEPTH	..... 3739
TEST INTERVAL (to)	..... 3748	BOTTOM PACKER DEPTH	..... 3744
ANCHOR LENGTH	..... 4	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 3748	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	..... 1990
INITIAL FLOW	..... 37
FINAL INITIAL FLOW	..... 0
INITIAL SHUT-IN	..... 1248
INITIAL FINAL FLOW	..... 94
FINAL FLOW	..... 158
FINAL SHUT-IN	..... 1250
FINAL HYDROSTATIC	..... 1805
MAXIMUM TEMPERATURE	..... 115
TOP RECORDER DEPTH	..... 3732
RECORDER NUMBER	..... 78225
BOTTOM RECORDER DEPTH	..... NONE RAN
RECORDER NUMBER	..... 5463

**INITIAL BLOW**

**WEAK BLOW BUILT TO 1/4 INCH INTH THE WATER AND DECREASED TO A VERY WEAK INTERMITTANT SURFACE BLOW**

**FINAL BLOW**

**VERY WEAK INTERMITTANT SURFACE BLOW THROUGH OUT**

**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 #1**

DRILL PIPE LENGTH ..... **3477**

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 ..... **63**

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

CHLORIDES-PITS ..... **7300**

CHLORIDES-DST .....

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	5	CLEAN OIL				
2)	295	VERY SLIGHTLY OIL CUT WATER LESS THAN 1 %				
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

**COMMENTS**