F.G. Holl Co.
Bauer 1-18

18-21s-14w
15-185-23221

Superior Testers Enterprises, Inc.

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

-05-2004 Location 100' E C S/2 N/E 18-21 S 14 W Elevation 1947 K.B. 1938 G.L. County Stafford

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

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

Drilling Contractor Sterling Drilling Rig #1

Length Drill Pipe 1844 I.D. Drill Pipe 3.80 Tool Joint Size 4½" X.H.

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

Length Drill Collars 246 I.D. Drill Collars 2.26 Tool Joint Size 4½" X.H.

Top Packer Depth 1819 Bottom Packer Depth 1824 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 1824 TO 1888 ANCHOR LENGTH 64 TOTAL DEPTH 1888 Hole Size 7 7/8"

LEASE & WELL NO. Bauer #1-18 FORMATION TESTED Hiccinbotham TEST NO. #1

Mud Weight 8.5 Viscosity 40 Water Loss 6.4 Chlorides - Pits 6.4 D.S.T.

Maximum Temp. °F Initial Hydrostatic Pressure (A) 888 P.S.I. Final Hydrostatic Pressure (H) 824 P.S.I.

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

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

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

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

from [B]	89 P.S.I.	to [C]	89 P.S.I.
[D]	133 P.S.I.		
from [E]	89 P.S.I.	to [F]	89 P.S.I.
[G]	111 P.S.I.		

Initial Blow Weak Surface blow for 12 minutes & Died

Final Blow No blow

Total Feet Recovered 30 Gravity of Oil Corrected

30 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

Remarks

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

Top Recorder No. 11088 Clock No. 47441 Depth 1882 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11087 Clock No. 47442 Depth 1885 Insurance NONE

Price of Job

Tool Operator Dave Dudley

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.

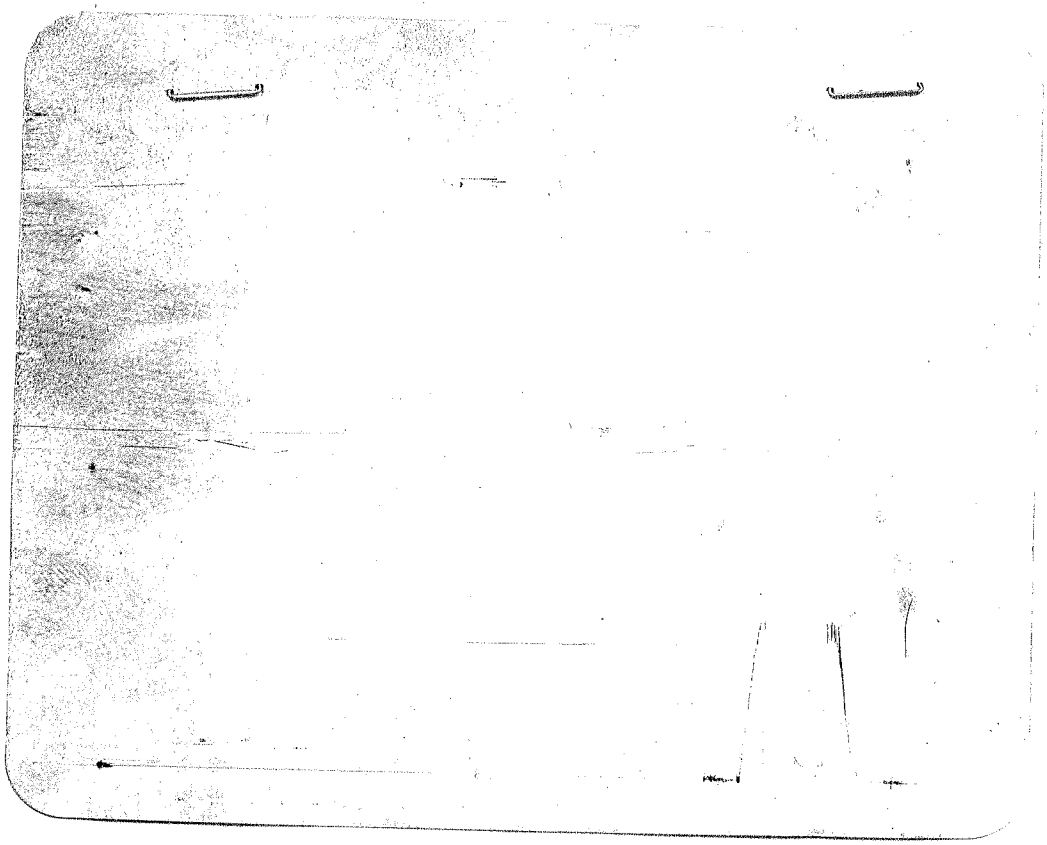
№ 12438

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas — **CHART DATA** — **(316) 792-6902**

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

Test Date ..... February 4, 2004
Sec Town Range 18-21S-14W
Report Number 12438



Field Reading

(1)	Initial Hydrostatic Pressure	888
(2)	Initial Flow Pressure	89
(3)	Final Initial Flow Pressure	89
(4)	Initial Shut-In Pressure	133
(5)	Initial Final Flow Pressure	89
(6)	Final Flow Pressure	89
(7)	Final Shut-In Pressure	111
(8)	Final Hydrostatic Pressure	821

ELECTRONIC RECORDER DEPTH 1882 FT, RECORDER NUMBER 11088

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. Bauer #1-18 Test #: 1 Date: 02-05-2004 SEC. 18 TWP. 21s RGE. 14w

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.		
TEST DATE	2/4/2004	LEASE AND WELL NUMBER	BAUER #1-18
SECTION-TOWN-RANGE	18-21S-14W	FORMATION TESTED	HERRINGTON KRIDER
STATE	KANSAS	DRILL STEM TEST NUMBER	1
COUNTY	STAFFORD	REPORT NUMBER	12438
ELEVATION GROUND LEVEL	1938	ELEVATION KELLY BUSHINGS	1947
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	1819
TEST INTERVAL (From)	1824	BOTTOM PACKER DEPTH	1824
TEST INTERVAL (to)	1888	NUMBER OF PACKERS	2
ANCHOR LENGTH	64	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	1888	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	4:15
TOOL OPEN (to)	4:30
DURATION (min.)	15
INITIAL SHUT-IN	
TOOL CLOSED (from)	4:30
TOOL CLOSED (to)	5:00
DURATION (min.)	30
FINAL OPEN	
TOOL OPEN (from)	5:00
TOOL OPEN (to)	5:15
DURATION (min.)	15
FINAL SHUT-IN	
TOOL CLOSED (from)	5:15
TOOL CLOSED (to)	5:45
DURATION (min.)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	888
INITIAL FLOW	89
FINAL INITIAL FLOW	89
INITIAL SHUT-IN	133
INITIAL FINAL FLOW	89
FINAL FLOW	89
FINAL SHUT-IN	111
FINAL HYDROSTATIC	821
MAXIMUM TEMPERATURE	.....
TOP RECORDER DEPTH	1882
RECORDER NUMBER	11088
BOTTOM RECORDER DEPTH	1885
RECORDER NUMBER	11087

INITIAL BLOW **WEAK SURFCACE BLOW FOR 12 MINUTES AND DIED**

FINAL BLOW **NO BLOW**

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	YES	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	NO	HOOK WALL	NO
CIRCULATING SUB	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 **1544**
DRILL PIPE I.D. **3.8**
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.**

DRILL COLLAR LENGTH **246**
DRILL COLLAR I.D. **2.25**
TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL **8.5**
VISCOSITY **40**
WATER LOSS **6.4**
CHLORIDES-PITS .....
CHLORIDES-DST .....

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	30	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

Date 02-06-2004 Location 100' N/E C SE-N/E 18 21S-14W Elevation 1947 KB 1938 GL County Stafford

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

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

Drilling Contractor Sterling Drilling Rig #1

Length Drill Pipe 2115 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 246 I.D. Drill Collars 2.26 Tool Joint Size 4 1/2" X.H

Top Packer Depth 2382 Bottom Packer Depth 2387 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2387 TO 2425 ANCHOR LENGTH 38 TOTAL DEPTH 2425 Hole Size 7 7/8"

LEASE & WELL NO. Bauer #1-18 FORMATION TESTED Red Eagle TEST NO. 2

Mud Weight 9 4/ Viscosity 48 Water Loss 8.0 Chlorides - Pits 24000 D.S.T.

Maximum Temp. °F Initial Hydrostatic Pressure (A) 1229 P.S.I. Final Hydrostatic Pressure (H) 1196 P.S.I.

Tool Open I.F.P. from 3:25 pm to 3:30 pm 5 min

Tool Closed I.C.I.P. from 3:30 pm to 4:30 pm 60 min

Tool Open F.F.P. from 4:30 pm to 5:00 pm 30 min

Tool Closed F.C.I.P. from 5:00 pm to 6:30 pm 90 min

from [B]	667 P.S.I.	to [C]	667 P.S.I.
[D]	711 P.S.I.		
from [E]	667 P.S.I.	to [F]	667 P.S.I.
[G]	711 P.S.I.		

Initial Blow Strong blow - Gas to Surface in 1 minute

Final Blow Strong blow - See Gas flow Report

Total Feet Recovered 200 Gravity of Oil ____ Corrected

200	Feet of Drilling mud Gassy	%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 Gauged 1.780 1st open in 5min	%Gas	%Oil	%Mud	%Water
	Feet of 5 min 2441 2nd open	%Gas	%Oil	%Mud	%Water
	Feet of 10 min 2798 mcf	%Gas	%Oil	%Mud	%Water
	Feet of 20 min 2798 mcf	%Gas	%Oil	%Mud	%Water

Remarks 30 min 2798 mcf

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

Top Recorder No. 11084 Clock No. 47441 Depth 2420 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11087 Clock No. 47442 Depth 2423 Insurance NONE

Price of Job

Tool Operator Dave Budig

Approved By

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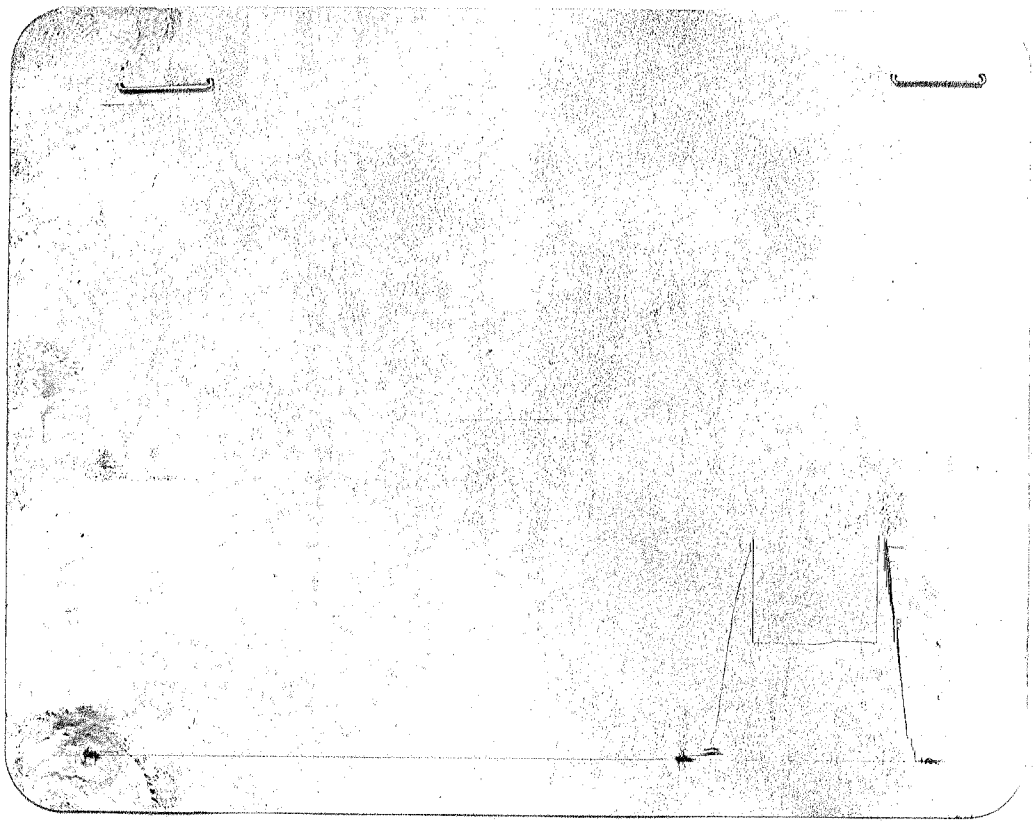
№ 12439

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas — **CHART DATA** — **(316) 792-6902**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. Bauer #1-18 Test #: 2 Date: 02-06-2004 SEC. 18 TWP. 21s RGE. 14w

State ..... KANSAS	***Test Date*** ..... February 6, 2004
County ..... STAFFORD	***Sec Town Range*** 18-21S-14W
Field	***Report Number*** 12439



Field Reading

(1)	Initial Hydrostatic Pressure	1229
(2)	Initial Flow Pressure	702
(3)	Final Initial Flow Pressure	700
(4)	Initial Shut-In Pressure	709
(5)	Initial Final Flow Pressure	709
(6)	Final Flow Pressure	698
(7)	Final Shut-In Pressure	702
(8)	Final Hydrostatic Pressure	1196

ELECTRONIC RECORDER DEPTH 2420 FT, RECORDER NUMBER 11088

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.		
TEST DATE	2/6/2004	LEASE AND WELL NUMBER	BAUER #1-18
SECTION-TOWN-RANGE	18-21S-14W	FORMATION TESTED	RED EAGLE
STATE	KANSAS	DRILL STEM TEST NUMBER	2
COUNTY	STAFFORD	REPORT NUMBER	12439
ELEVATION GROUND LEVEL	1938	ELEVATION KELLY BUSHINGS	1947
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	2382
TEST INTERVAL (From)	2387	BOTTOM PACKER DEPTH	2387
TEST INTERVAL (to)	2425	NUMBER OF PACKERS	2
ANCHOR LENGTH	38	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	2425	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	3:25
TOOL OPEN (to)	3:30
DURATION (min.)	5
INITIAL SHUT-IN	
TOOL CLOSED (from)	3:30
TOOL CLOSED (to)	4:30
DURATION (min.)	60
FINAL OPEN	
TOOL OPEN (from)	4:30
TOOL OPEN (to)	5:00
DURATION (min.)	30
FINAL SHUT-IN	
TOOL CLOSED (from)	5:00
TOOL CLOSED (to)	6:30
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1229
INITIAL FLOW	702
FINAL INITIAL FLOW	700
INITIAL SHUT-IN	709
INITIAL FINAL FLOW	709
FINAL FLOW	698
FINAL SHUT-IN	702
FINAL HYDROSTATIC	1196
MAXIMUM TEMPERATURE	
TOP RECORDER DEPTH	2420
RECORDER NUMBER	11088
BOTTOM RECORDER DEPTH	2423
RECORDER NUMBER	11087

INITIAL BLOW	STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 15 SECONDS WITH GAS TO SURFACE IN 1 MINUTE
FINAL BLOW	STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 10 SECONDS SEE GAS FLOW REPORT

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	NO	STRADDLE	NO
ELECTRONIC RECORDER	NO	HOOK WALL	NO
CIRCULATING SUB	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 **2115**
DRILL PIPE I.D. **3.8**
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.**

DRILL COLLAR LENGTH 26
DRILL COLLAR I.D. **2.25**
TOOL JOINT SIZE ..... **4 1/2 X.H.**

MUD WEIGHT #/GAL 9.4
VISCOSITY 48
WATER LOSS 8
CHLORIDES-PITS **24000**
CHLORIDES-DST .....

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	200	GAS CUT DRILL 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

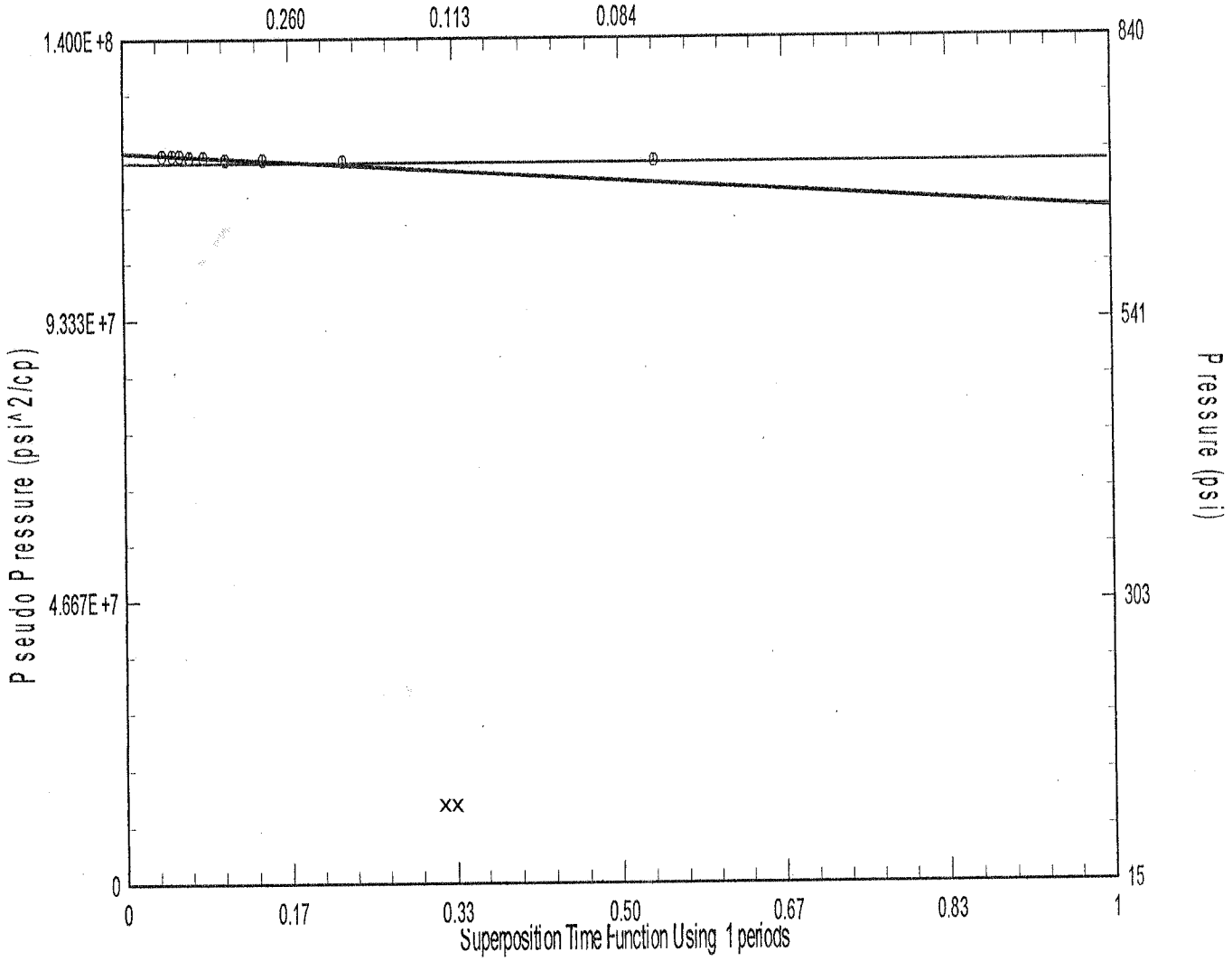
SUPERPOSITION ANALYSIS

(316) 792-6902

1ST SHUT-IN

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

Test Date .....
Sec Town Range .....
Report Number .....



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 0.006 bbl/psi	Skin : 2.54	k : 0.053 md		mu : 0.052 cp
		Est Pi: 700.8 psi		phi : 18.0%
				ct : 9.614E-04 1/psi
				rw : 3.208 ft
				BHT : 96 F
				FVF : 0.72

Field :		**Date Printed:**	02/07/04 12:35:12
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line #

Superposition Slope -> m'	-9.641472E+6
Horner Slope -> m	-1.716182E+7
Intercept	1.211E+8
P(dt=1 hr)	1.205E+8
Pwf	1.194E+8
R Sqr	0.7857
Intercept (psi)	712.156
k (md)	0.00944
kh (md-ft)	0.09440
k/u (md/cp)	0.18119
kh/uB (md-ft/cp)	1.81193
Skin	1.4838
DP Skin	150.8293
Total DP	12.1321
Percent DP	1243.23%
Radius Invest (ft)	1
Radius Time (hrs)	1.92
Delta Q =	2
h (ft)=	10
mu (cp) =	0.0521
B (stb/scf) =	0.7194
First Point #	5
Second Point #	10
Start Real Time	0.583
End Real Time	1.417
Start SF Time	0.103

SUPERIOR TESTERS ENTERPRISES INC.

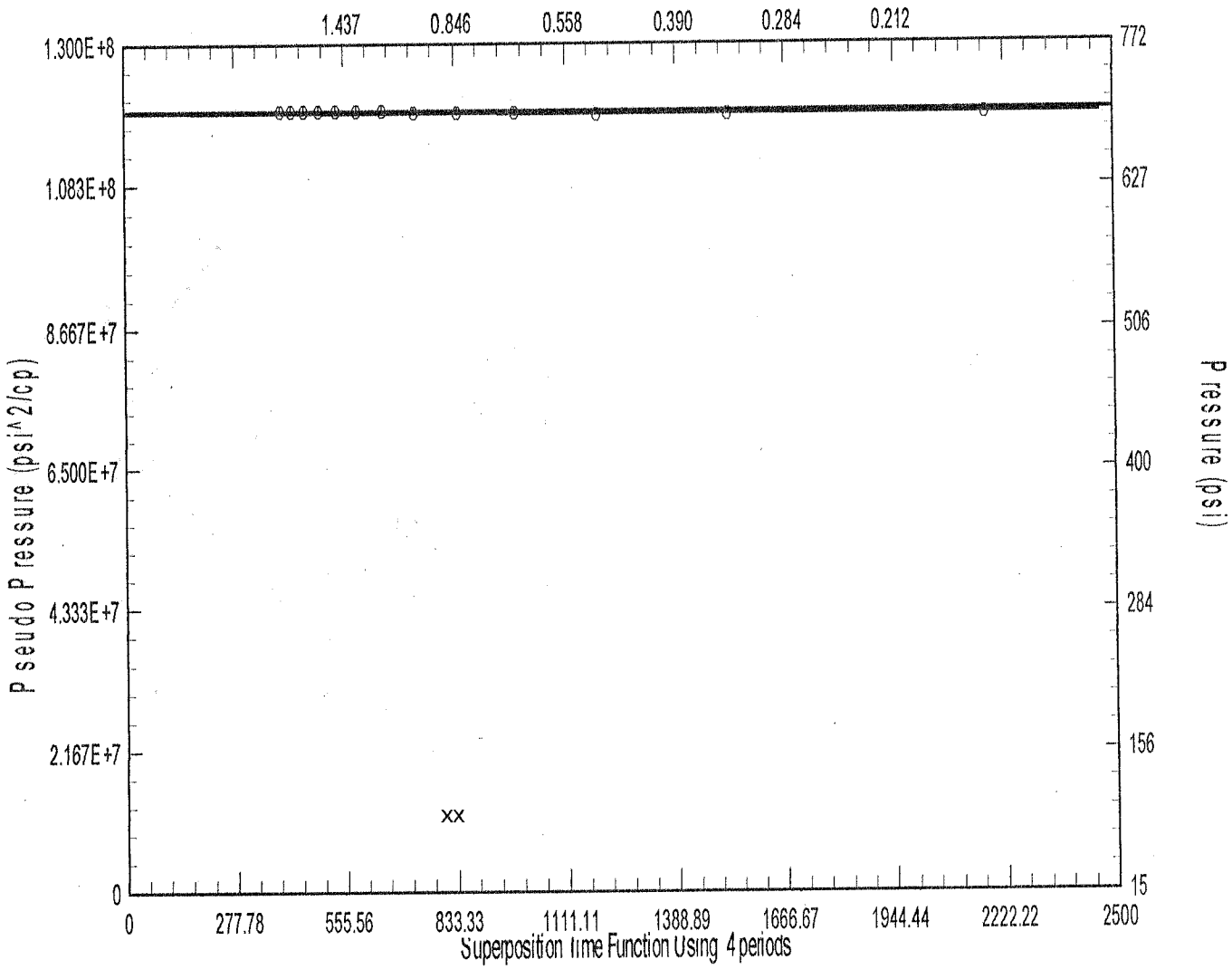
GREAT BEND,KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State ..... KANSAS	*Test Date* .....
County	*Sec Town Range* .....
Field	*Report Number* .....



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 10.800 bbl/psi	Skin : -3.14	k : 376.023 md		mu : 0.052 cp
		Est Pi: 700.7 psi		phi : 18.0%
				ct : 9.614E-04 1/psi
				rw : 3.208 ft
				BHT : 96 F
				FVF : 0.72

Field :		**Date Printed:**	02/07/04 12:38:51
County or Parish :		**Analysis Period :**	2ndshut-in
State :		**Comment :**	Line #

Superposition Slope -> m'	4.533320E-10
Horner Slope -> m	1.268423E-6
Intercept	1.196E+8
P(dt=1 hr)	1.196E+8
Pwf	1.191E+8
R Sqr	0.0000
Intercept (psi)	702.021
k (md)	200773808721238.00000
kh (md-ft)	2007738087212380.00000
k/u (md/cp)	3853624038758340.00000
kh/uB (md-ft/cp)	38536240387583400.00000
Skin	533472092938.3230
DP Skin	3.9995
Total DP	3.9940
Percent DP	100.14%
Radius Invest (ft)	224186841
Radius Time (hrs)	2.17
Delta Q =	2798
h (ft)=	10
mu (cp) =	0.0521
B (stb/scf) =	0.7194
First Point #	7
Second Point #	14
Start Real Time	1.000
End Real Time	2.167
Start SF Time	736.545