Superior Testers Enterprises, Inc.

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

Date 01-18-2003 Location 20/E-90/N N/W-S/W-S/E 7-21-12 W Elevation 1863 KB 1854 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 2280 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 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 2545 Bottom Packer Depth 2550 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2550 TO 2573 ANCHOR LENGTH 23 TOTAL DEPTH 2573 Hole Size 7 7/8"

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Tarkio TEST NO. 1

Mud Weight 8.4 Viscosity 58 Water Loss 7.4 Chlorides - Pits 3300 D.S.T. 62000

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 1198 P.S.I. Final Hydrostatic Pressure (H) 1159 P.S.I.

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

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

Tool Open F.F.P. from 5:30 Am to 6:30 Am 60 min

Tool Closed F.C.I.P. from 6:30 Am to 8:00 Am 90 min

from [B] 3659 P.S.I. to [C] 306 P.S.I.	
[D] 1081 P.S.I.	
from [E] 345 P.S.I. to [F] 641 P.S.I.	
[G] 1071 P.S.I.	

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 3 minutes

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

Total Feet Recovered 1225 Gravity of Oil _____ Corrected

600 Feet of SLIGHTLY MUDDY SALT WATER %Gas ___ %Oil ___ %Mud ___ %Water

625 Feet of SALT WATER - CHLORIDES 62000 %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. 78225 Clock No. Electronic Depth 2567 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 2570 Insurance NONE

Price of Job _____

Tool Operator Dean Pudley

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.

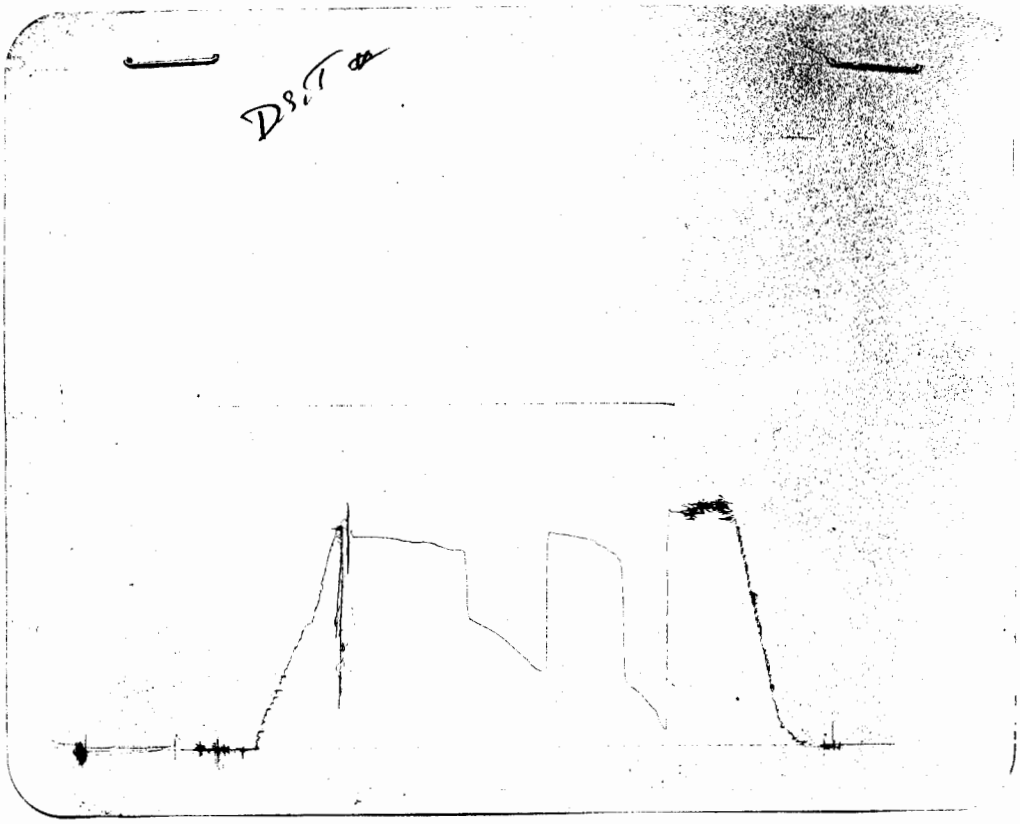
№ 12451

SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 18, 2004
Sec Town Range 7-21S-12W
Report Number 12451



Field Reading

(1)	Initial Hydrostatic Pressure	1198
(2)	Initial Flow Pressure	59
(3)	Final Initial Flow Pressure	301
(4)	Initial Shut-In Pressure	1081
(5)	Initial Final Flow Pressure	345
(6)	Final Flow Pressure	641
(7)	Final Shut-In Pressure	1071
(8)	Final Hydrostatic Pressure	1159

ELECTRONIC RECORDER DEPTH 2566 FT, RECORDER NUMBER 80507

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 1 Date: 01-18-2004 SEC. 7 TWP. 21S RGE. 12W

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY		
TEST DATE	1/18/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	TARKIO
STATE	KANSAS	DRILL STEM TEST NUMBER	1
COUNTY	STAFFORD	REPORT NUMBER	12451
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	2545
TEST INTERVAL (From)	2550	BOTTOM PACKER DEPTH	2550
TEST INTERVAL (to)	2573	NUMBER OF PACKERS	2
ANCHOR LENGTH	23	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	2573	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	4:00	INITIAL HYDROSTATIC	1198
TOOL OPEN (to)	4:30	INITIAL FLOW	59
DURATION (min.)	30	FINAL INITIAL FLOW	301
INITIAL SHUT-IN		INITIAL SHUT-IN	1081
TOOL CLOSED (from)	4:30	INITIAL FINAL FLOW	345
TOOL CLOSED (to)	5:30	FINAL FLOW	641
DURATION (min.)	60	FINAL SHUT-IN	1071
FINAL OPEN		FINAL HYDROSTATIC	1159
TOOL OPEN (from)	5:30		
TOOL OPEN (to)	6:30	MAXIMUM TEMPERATURE	
DURATION (min.)			
FINAL SHUT-IN		TOP RECORDER DEPTH	2566
TOOL CLOSED (from)	6:30	RECORDER NUMBER	80507
TOOL CLOSED (to)	8:00	BOTTOM RECORDER DEPTH	2570
DURATION (min.)	90	RECORDER NUMBER	13208

INITIAL BLOW FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 MINUTES

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

EXTRA EQUIPMENT

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

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 1-20-2003 Location 29'E-90'N NW-SW-SE 7-21S-12W Elevation 1863KB 1854GL 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 2986 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 2.25 Tool Joint Size 4½" X.H.

Top Packer Depth 3248 Bottom Packer Depth 3253 Number of Packers 2 Packer Size 6 5/8"

TESTED FROM 3253 TO 3282 ANCHOR LENGTH 29 TOTAL DEPTH 3282 Hole Size 7 7/8"

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED ~~Kansas City~~ "H-I" TEST NO. 2

Mud Weight 9.2 Viscosity 47 Water Loss 10.4 Chlorides - Pits 7000 D.S.T.

Maximum Temp. 98 °F Initial Hydrostatic Pressure (A) 1659 P.S.I. Final Hydrostatic Pressure (H) 1542 P.S.I.

Tool Open I.F.P. from 4:15 Am to 4:45 Am 30 min

Tool Closed I.C.I.P. from 4:45 Am to 5:45 Am 60 min

Tool Open F.F.P. from 5:45 Am to 6:45 Am 60 min

Tool Closed F.C.I.P. from 6:45 Pm to 8:15 Am 90 min

from [B]	80 P.S.I.	to [C]	~~2198~~ P.S.I.
[D]	1148 P.S.I.		
from [E]	82 P.S.I.	to [F]	329 P.S.I.
[G]	1152 P.S.I.		

Initial Blow ~~Steady~~ Good blow built to the bottom of a 5 Gallon bucket in 3 min.

Final Blow Good blow built to the bottom of a 5 Gallon bucket in 1 min.

Total Feet Recovered _____ Gravity of Oil _____ Corrected

120 Feet of muddy frothy oil %Gas ___ %Oil ___ %Mud ___ %Water

270 Feet of clean oil with a show of 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 403 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 91716 Clock No. Electronic Depth 3277 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3279 Insurance NONE

Price of Job _____

Tool Operator Don Bailey

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.

№ 12452

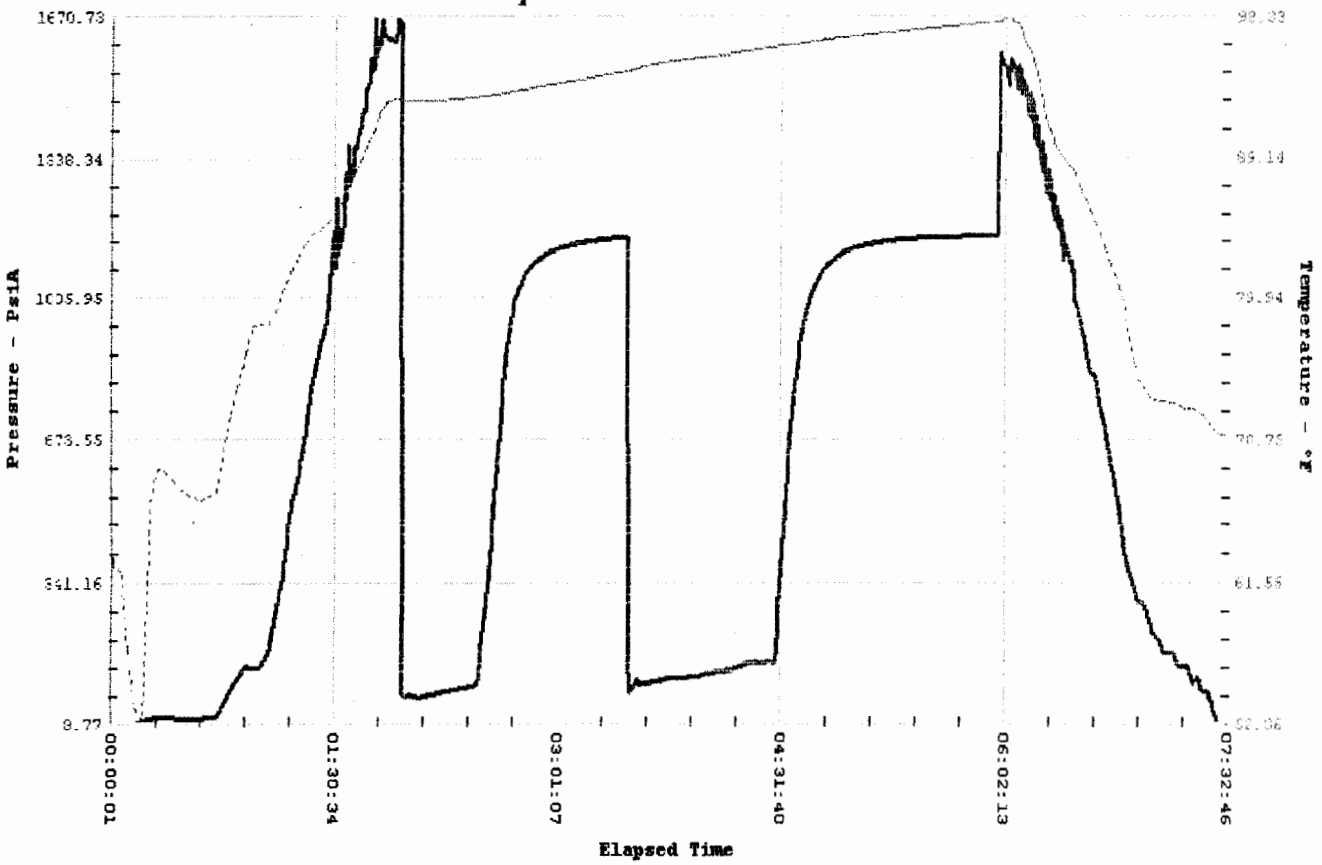
SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 20, 2004
Sec Town Range 7-21S-12W
Report Number 12452

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1655
(2)	Initial Flow Pressure	80
(3)	Final Initial Flow Pressure	98
(4)	Initial Shut-In Pressure	1148
(5)	Initial Final Flow Pressure	82
(6)	Final Flow Pressure	329
(7)	Final Shut-In Pressure	1152
(8)	FInal Hydrostatic Pressure	1542

ELECTRONIC RECORDER DEPTH 3275 FT, RECORDER NUMBER 91716

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 2 Date: 01-20-2004 SEC. 7 TWP. 21S RGE. 12W

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY		
TEST DATE	1/20/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	KANSAS CITY"A-B"
STATE	KANSAS	DRILL STEM TEST NUMBER	2
COUNTY	STAFFORD	REPORT NUMBER	12452
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3248
TEST INTERVAL (From)	3253	BOTTOM PACKER DEPTH	3253
TEST INTERVAL (to)	3282	NUMBER OF PACKERS	2
ANCHOR LENGTH	29	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3282	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	4:15	INITIAL HYDROSTATIC	1655
TOOL OPEN (to)	4:45	INITIAL FLOW	80
DURATION (min.)	30	FINAL INITIAL FLOW	98
INITIAL SHUT-IN		INITIAL SHUT-IN	1148
TOOL CLOSED (from)	4:45	INITIAL FINAL FLOW	82
TOOL CLOSED (to)	5:45	FINAL FLOW	329
DURATION (min.)	60	FINAL SHUT-IN	1152
FINAL OPEN		FINAL HYDROSTATIC	1542
TOOL OPEN (from)	5:45		
TOOL OPEN (to)	6:45	MAXIMUM TEMPERATURE	98
DURATION (min.)			
FINAL SHUT-IN		TOP RECORDER DEPTH	3275
TOOL CLOSED (from)	6:45	RECORDER NUMBER	91716
TOOL CLOSED (to)	8:15	BOTTOM RECORDER DEPTH	3279
DURATION (min.)	90	RECORDER NUMBER	13208

INITIAL BLOW	FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 MINUTES
FINAL BLOW	FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTES

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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 #4**

DRILL PIPE LENGTH	**2986**	DRILL COLLAR LENGTH	**246**
DRILL PIPE I.D.	**3.8**	DRILL COLLAR I.D.	**2.25**
TOOL JOINT SIZE	**4 1/2 X.H.**	TOOL JOINT SIZE	**4 1/2 X.H.**
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	**9**
WEIGHT PIPE I.D.	**2.25**	VISCOSITY	**47**
TOOL JOINT SIZE	**4 1/2 X.H.**	WATER LOSS	**10**
		CHLORIDES-PITS	**7000**
		CHLORIDES-DST	**0**

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	120	MUDDY FROTHY OIL				
2)	270	CLEAN GASSY OIL WITH A SHOW OF MUD				
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | GAS FLOW RATE | (316) 792-6902

#

STATE	KANSAS	***Test Date***	######
COUNTY	STAFFORD	***Sec Town Range***	7-21S-12W
FIELD		***Report Number***	12452

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT 4:15 WITH GAS TO SURFACE IN 25 MINUTES AT 4:40							

Final Flow

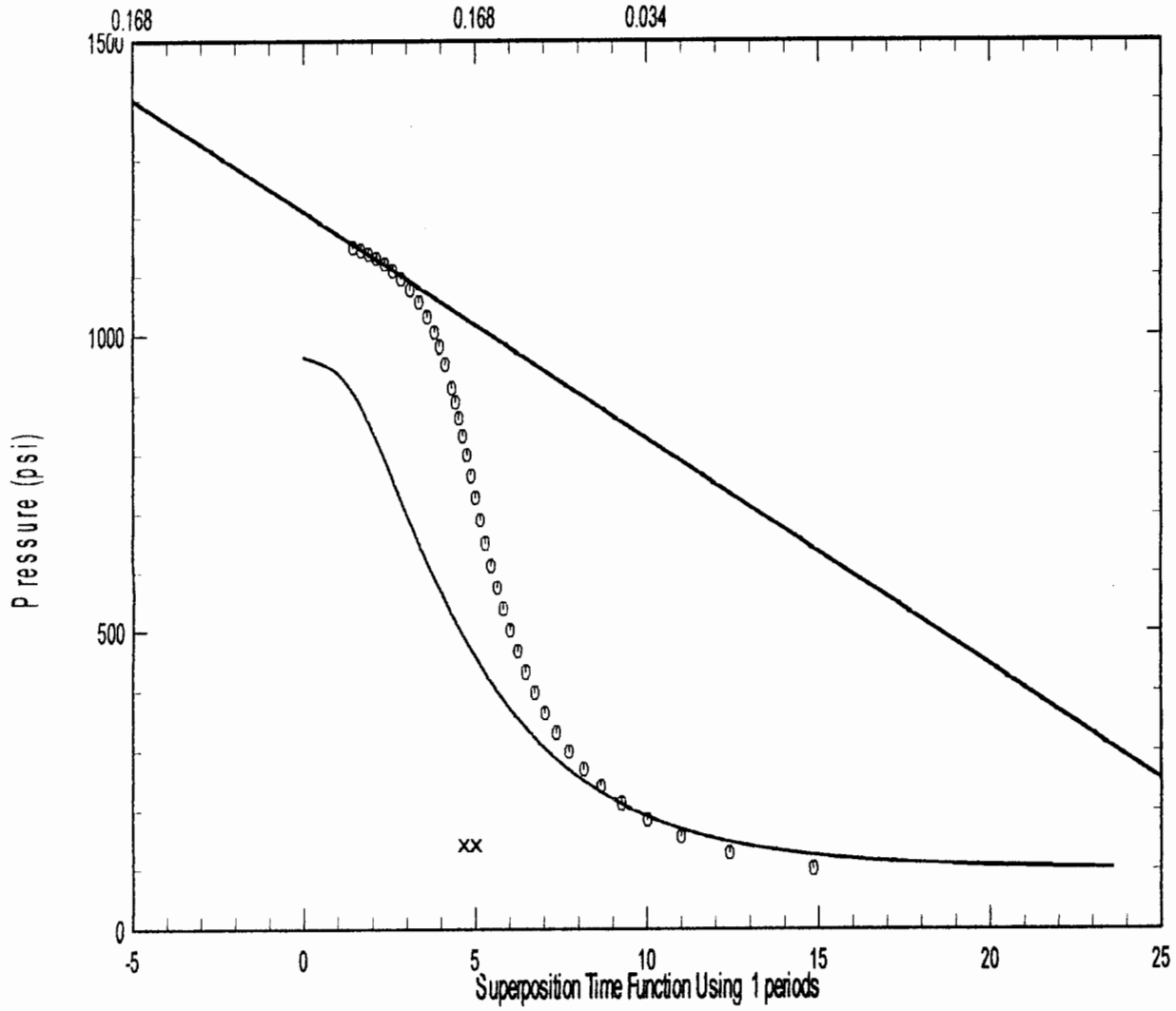
Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT 5:45	5:55	10	0			1/4	11.900
	6:05	20	82			3/8	32.200
	6:15	30	36			3/8	21.300
	6:25	40	34			3/8	20.800
	6:35	50	28			3/8	18.800
	6:45	60	28			3/8	18.800

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS **SUPERPOSITION ANALYSIS** (316) 792-6902

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/20/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12452



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 6 ft
C1 : 2.080E-4 bbl/psi	Skin : 6.44	k : 5.042 md		mu : 1.867 cp
		Est Pi: 964.2 psi		phi : 18.0%
				ct : 2.455E-04 1/psi
				rw : 3.208 ft
				FVF : 2.12

Field :		**Date Printed:**	01/22/04 09:27:15
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line #

Superposition Slope -> m'	-38.277550
Horner Slope -> m	-318.469246
Intercept	1209.241
P(dt=1 hr)	1153.161
Pwf	101.320
R Sqr	0.9812
k (md)	2.80269
kh (md-ft)	16.81614
k/u (md/cp)	1.50093
kh/uB (md-ft/cp)	4.24792
Skin	3.467
DP Skin	960.487
Total DP	1107.921
Percent DP	86.69%
Radius Invest (ft)	6
Radius Time (hrs)	1.02
Delta Q =	8
h (ft)=	6
mu =	1.867
B =	2.120
First Point #	51
Second Point #	113
Start Real Time	0.417
End Real Time	0.933
Start SF Time	2.849

SUPERIOR TESTERS ENTERPRISES INC.

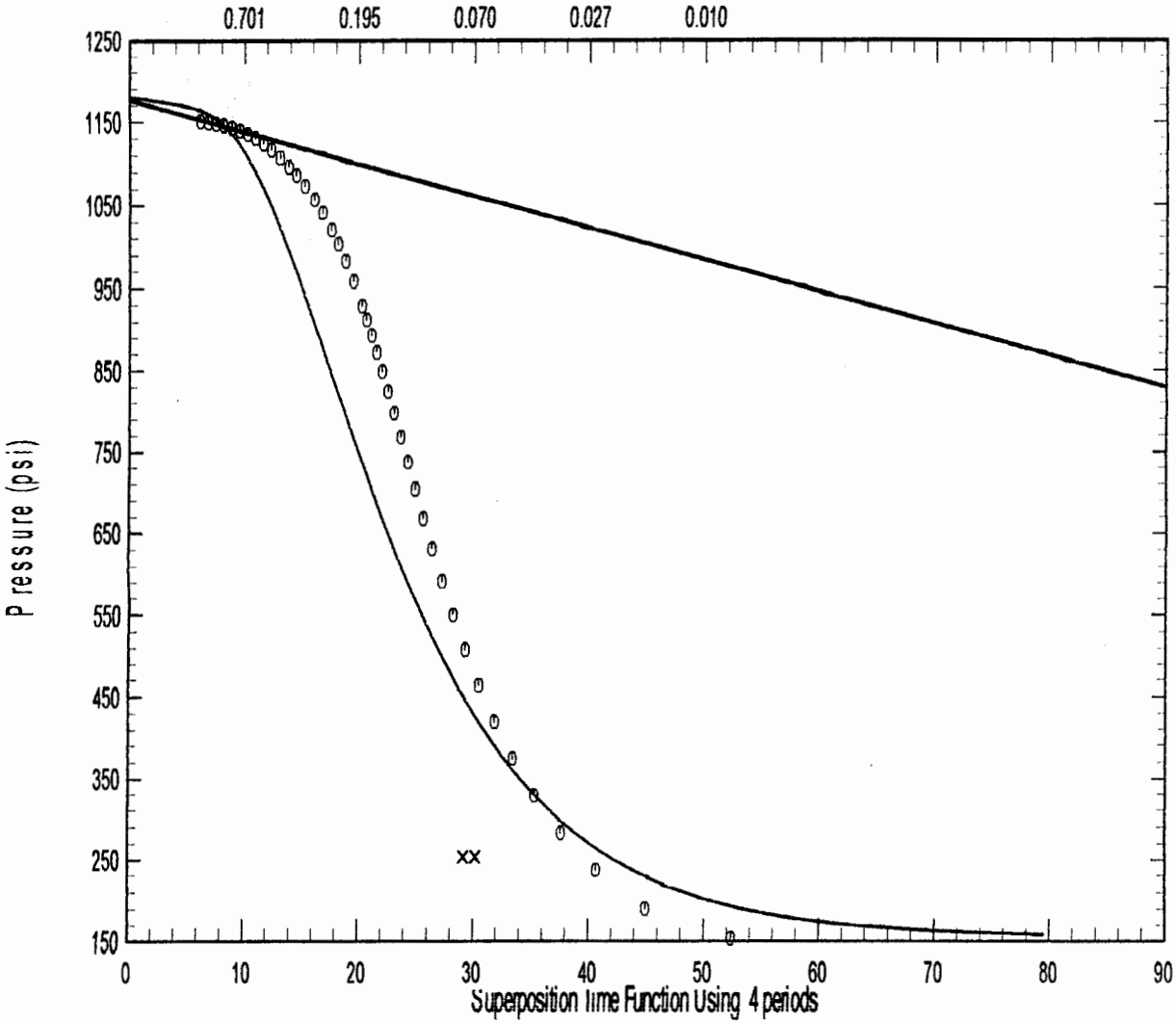
GREAT BEND,KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/20/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12452



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 6 ft
C1 : 4.670E-4 bbl/psi	Skin : 22.80	k : 54.753 md		mu : 1.867 cp
		Est Pi: 1180.3 psi		phi : 18.0%
				ct : 2.455E-04 1/psi
				rw : 3.208 ft
				FVF : 2.12

Field :		**Date Printed:**	01/22/04 09:30:07
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line #

Superposition Slope -> m'	-3.852749
Horner Slope -> m	-96.087569
Intercept	1176.316
P(dt=1 hr)	1145.951
Pwf	155.480
R Sqr	0.9667
k (md)	27.84508
kh (md-ft)	167.07048
k/u (md/cp)	14.91195
kh/uB (md-ft/cp)	42.20363
Skin	10.382
DP Skin	867.883
Total DP	1020.836
Percent DP	85.02%
Radius Invest (ft)	23
Radius Time (hrs)	1.50
Delta Q =	25
h (ft)=	6
mu =	1.867
B =	2.120
First Point #	76
Second Point #	170
Start Real Time	0.625
End Real Time	1.408
Start SF Time	10.753

Superior Testers Enterprises, Inc.

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

Date 01-20-2004 Location 20'/E - 90'/N N/W S/W S/E 7-21-12 S W Elevation 1863 KB 1854 GL 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 3019 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 2.25 Tool Joint Size 4½" X.H.

Top Packer Depth 3281 Bottom Packer Depth 3286 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3286 TO 3304 ANCHOR LENGTH 18 TOTAL DEPTH 3304 Hole Size 7 7/8"

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Kansas City "C" TEST NO. 3

Mud Weight 9.5 Viscosity 45 Water Loss 9.4 Chlorides - Pits 7500 D.S.T. 92000

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 1635 P.S.I. Final Hydrostatic Pressure (H) 1598 P.S.I.

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

Tool Closed I.C.I.P. from 8:30 pm to 9:30 pm 60 min

Tool Open F.F.P. from 9:30 pm to 10:30 pm 60 min

Tool Closed F.C.I.P. from 10:30 pm to 12:00 am 90 min

from [B]	54 P.S.I.	to [C]	109 P.S.I.
[D]	1110 P.S.I.		
from [E]	114 P.S.I.	to [F]	201 P.S.I.
[G]	1082 P.S.I.		

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 23 minutes

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

Total Feet Recovered _____ Gravity of Oil _____ Corrected

5 Feet of CLEAN OIL ON TOP %Gas ___ %Oil ___ %Mud ___ %Water

400 Feet of VERY SLIGHTLY 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

Remarks Gas to Surface on the final SHUT-IN

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

Top Recorder No. 13208 Clock No. 47441 Depth 3399 Cir. Sub NONE Sampler NONE

Bottom Recorder No. _____ Clock No. 47442 Depth 3361 Insurance NONE

Price of Job _____

Tool Operator Dane Bender

Approved By _____

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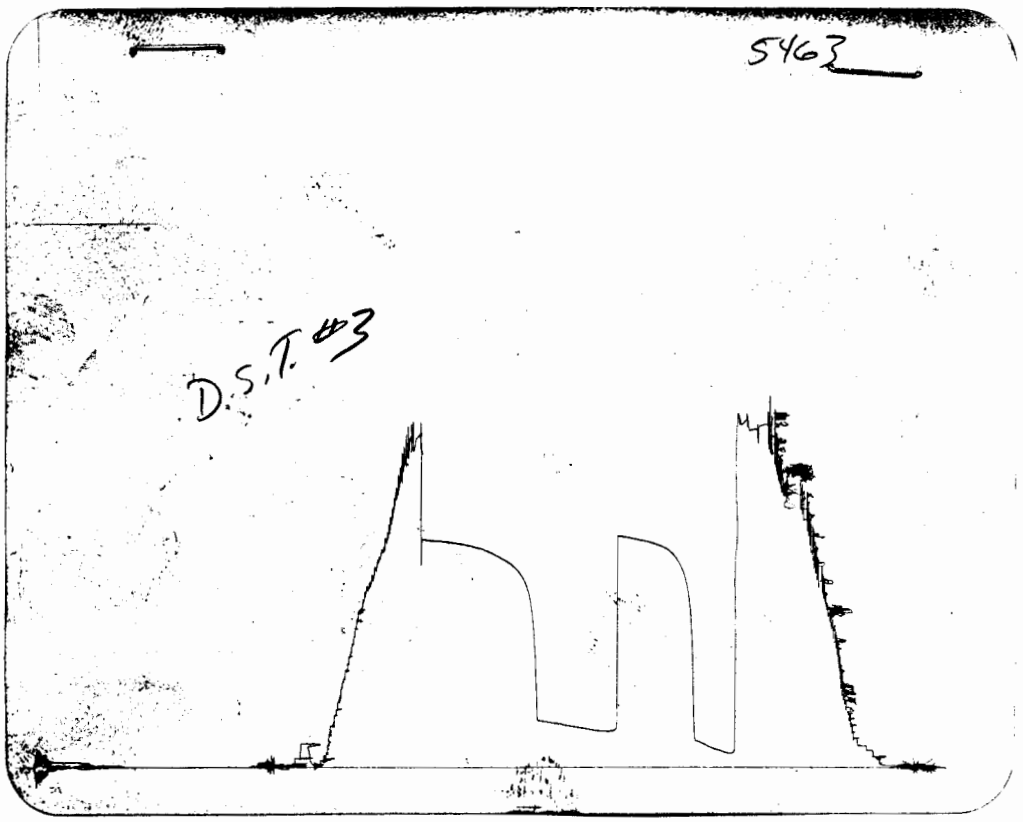
№ 12453

SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 22, 2004
Sec Town Range 7-21S-12W
Report Number 12453



Field Reading

(1)	Initial Hydrostatic Pressure	1635
(2)	Initial Flow Pressure	54
(3)	Final Initial Flow Pressure	109
(4)	Initial Shut-In Pressure	1110
(5)	Initial Final Flow Pressure	114
(6)	Final Flow Pressure	201
(7)	Final Shut-In Pressure	1082
(8)	Final Hydrostatic Pressure	1598

ELECTRONIC RECORDER DEPTH 3297 FT, RECORDER NUMBER 80507

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 3 Date: 01-20-2004 SEC. 7 TWP. 21S RGE. 12W

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	1/22/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	KANSAS CITY"C"
STATE	KANSAS	DRILL STEM TEST NUMBER	3
COUNTY	STAFFORD	REPORT NUMBER	12453
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3281
TEST INTERVAL (From)	3286	BOTTOM PACKER DEPTH	3286
TEST INTERVAL (to)	3304	NUMBER OF PACKERS	2
ANCHOR LENGTH	18	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3304	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	8:00	INITIAL HYDROSTATIC	1635
TOOL OPEN (to)	8:30	INITIAL FLOW	54
DURATION (min.)	30	FINAL INITIAL FLOW	109
INITIAL SHUT-IN		INITIAL SHUT-IN	1110
TOOL CLOSED (from)	8:30	INITIAL FINAL FLOW	114
TOOL CLOSED (to)	9:30	FINAL FLOW	201
DURATION (min.)	60	FINAL SHUT-IN	1082
FINAL OPEN		FINAL HYDROSTATIC	1598
TOOL OPEN (from)	9:30		
TOOL OPEN (to)	10:30	MAXIMUM TEMPERATURE	
DURATION (min.)	60		
FINAL SHUT-IN		TOP RECORDER DEPTH	3297
TOOL CLOSED (from)	10:30	RECORDER NUMBER	80507
TOOL CLOSED (to)	12:00	BOTTOM RECORDER DEPTH	3301
DURATION (min.)	90	RECORDER NUMBER	13208

INITIAL BLOW FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 23 MINUTES

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

EXTRA EQUIPMENT

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

Superior Testers Enterprises, Inc.

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

... 21-2004 Location 2½-9½-N-3½-3½ W 7-21S-12W Elevation 1863 KB 1854 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 3101 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 ~~NO~~ 246 I.D. Drill Collars 2.25 Tool Joint Size 4½" X.H

Top Packer Depth 3363 Bottom Packer Depth 3368 Number of Packers 2 Packer Size 6¾"

TESTED FROM 3368 TO 3388 ANCHOR LENGTH 20 TOTAL DEPTH 3389 Hole Size 7⅞"

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Kansas City "H" TEST NO. 4

Mud Weight 9.6 Viscosity 45 Water Loss 10 Chlorides - Pits 10000 D.S.T. 98000

Maximum Temp. ____ °F Initial Hydrostatic Pressure (A) 1618 P.S.I. Final Hydrostatic Pressure (H) 1598 P.S.I.

Tool Open I.F.P. from 3:30 pm to 3:45 pm 15 min

Tool Closed I.C.I.P. from 3:45 pm to 4:45 pm 60 min

Tool Open F.F.P. from 4:45 pm to 5:30 pm 45 min

Tool Closed F.C.I.P. from 5:30 pm to 7:00 pm 90 min

from [B]	207 P.S.I. to [C]	177	P.S.I.
[D]	660		P.S.I.
from [E]	197 P.S.I. to [F]	227	P.S.I
[G]	660		P.S.I.

Initial Blow Strong blow Gas to Surface in 2 minutes

Final Blow Strong blow

Total Feet Recovered ____ Gravity of Oil ____ Corrected

110	Feet of SLIGHTLY muddy salt water	%Gas	%Oil	%Mud	%Water
400	Feet of WATER CHLORIDES 98000	%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 to Surface Stabalized @ 260000 mcf	%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. 13208 Clock No. 47441 Depth 3382 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 41442 Depth 3385 Insurance NONE

Price of Job ____

Tool Operator Dean Lindy

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.

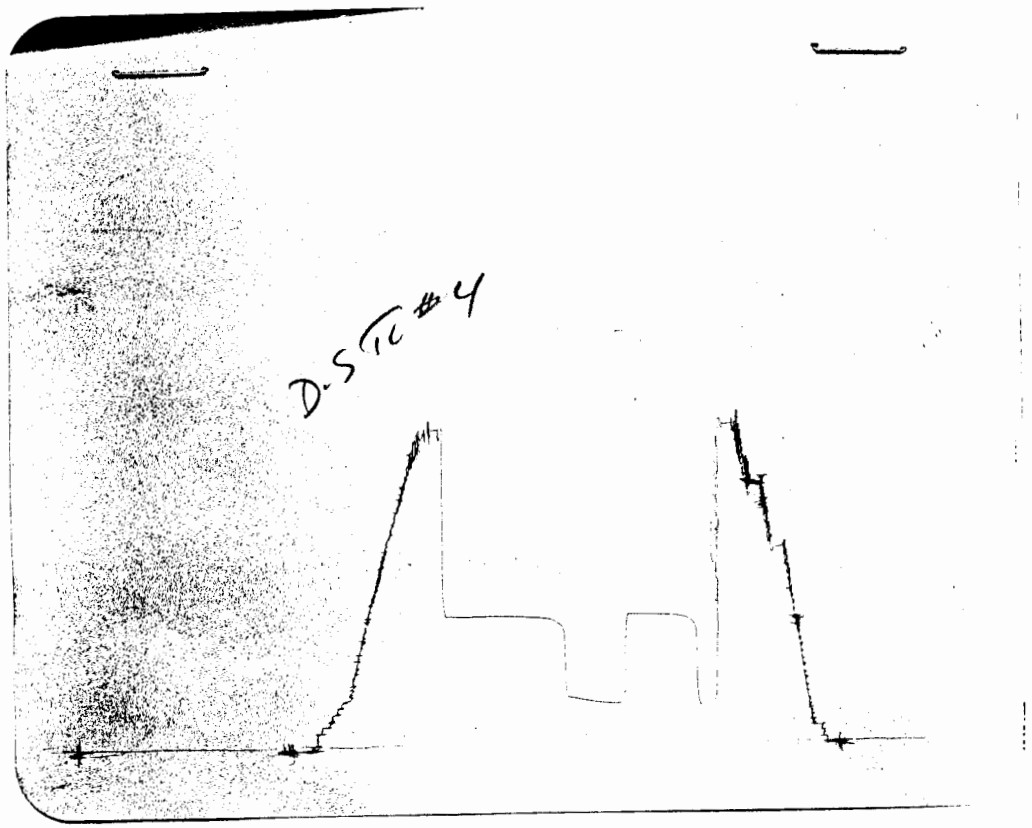
№ 12454

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 4 Date: 01-21-2004 SEC. 7 TWP. 21S RGE. 12W

SUPERIOR TESTERS ENTERPRISES INC.

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

State ..... KANSAS	***Test Date*** ..... January 21, 2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12454



Field Reading

(1)	Initial Hydrostatic Pressure	1618
(2)	Initial Flow Pressure	207
(3)	Final Initial Flow Pressure	177
(4)	Initial Shut-In Pressure	660
(5)	Initial Final Flow Pressure	197
(6)	Final Flow Pressure	227
(7)	Final Shut-In Pressure	660
(8)	Final Hydrostatic Pressure	1598

ELECTRONIC RECORDER DEPTH 3381 FT, RECORDER NUMBER 80507

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	1/21/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	KANSAS CITY "H"
STATE	KANSAS	DRILL STEM TEST NUMBER	4
COUNTY	STAFFORD	REPORT NUMBER	12454
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3363
TEST INTERVAL (From)	3368	BOTTOM PACKER DEPTH	3368
TEST INTERVAL (to)	3388	NUMBER OF PACKERS	2
ANCHOR LENGTH	20	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3388	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	3:30	INITIAL HYDROSTATIC	1618
TOOL OPEN (to)	3:45	INITIAL FLOW	207
DURATION (min.)	15	FINAL INITIAL FLOW	177
INITIAL SHUT-IN		INITIAL SHUT-IN	660
TOOL CLOSED (from)	3:45	INITIAL FINAL FLOW	197
TOOL CLOSED (to)	4:45	FINAL FLOW	227
DURATION (min.)	60	FINAL SHUT-IN	660
FINAL OPEN		FINAL HYDROSTATIC	1598
TOOL OPEN (from)	4:45		
TOOL OPEN (to)	5:30	MAXIMUM TEMPERATURE	
DURATION (min.)	45		
FINAL SHUT-IN		TOP RECORDER DEPTH	3381
TOOL CLOSED (from)	5:30	RECORDER NUMBER	80507
TOOL CLOSED (to)	7:00	BOTTOM RECORDER DEPTH	3385
DURATION (min.)	90	RECORDER NUMBER	13208

INITIAL BLOW STRONG BLOW WITH GAS TO SURFACE IN 2 MINUTES

FINAL BLOW STRONG BLOW-SEE GAS FLOW REPORT

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	..... **3101**	DRILL COLLAR LENGTH	..... **246**
DRILL PIPE I.D.	..... **3.8**	DRILL COLLAR I.D.	..... **2.25**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	TOOL JOINT SIZE	..... **4 1/2 X.H.**
WEIGHT PIPE LENGTH	.....	MUD WEIGHT #/GAL	..... **8.6**
WEIGHT PIPE I.D.	..... **2.25**	VISCOSITY	..... **45**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	WATER LOSS	..... **10.2**
		CHLORIDES-PITS	..... **10000**
		CHLORIDES-DST	..... **98000**

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	110	SLIGHTLY MUDDY SALT WATER				
2)	400	SALT WATER CHLORIDES 98000				
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | GAS FLOW RATE | (316) 792-6902

#

STATE.....	KANSAS	*Test Date*	#######
COUNTY.....	STAFFORD	*Sec Town Range*	7-21S-12W
FIELD.....		*Report Number*	12454

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT	4:50	5	12			1 1/2	241.000
4:45	5:00	15	14			1 1/2	260.000
	5:10	25	14			1 1/2	260.000
	5:20	35	14			1 1/2	260.000
	5:30	45	14			1 1/2	260.000

Superior Testers Enterprises, Inc.

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

Date 01-22-2003 Location 20'/E 90'/N N/W S/W S/E 7-21 S-12 W Elevation 1863 KB 1854 GL 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 3124 I.D. Drill Pipe 3.80 Tool Joint Size 4½" R.H.

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

Length Drill Collars 246 I.D. Drill Collars 2.25 Tool Joint Size 4½" R.H.

Top Packer Depth 3386 Bottom Packer Depth 3391 Number of Packers 2 Packer Size 6¾"

TESTED FROM 3391 TO 3422 ANCHOR LENGTH 31 TOTAL DEPTH 3422 Hole Size 7⅞"

LEASE & WELL NO. Nolte # 1-7 FORMATION TESTED Kansas City "I" TEST NO. 5

Mud Weight 8.9 Viscosity 46 Water Loss 10.4 Chlorides - Pits 12000 D.S.T.

Maximum Temp. 95 °F Initial Hydrostatic Pressure (A) 1689 P.S.I. Final Hydrostatic Pressure (H) 1638 P.S.I.

Tool Open I.F.P. from 7:00 Am to 7:15 Am 15 min

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

Tool Open F.F.P. from 7:45 Am to 8:00 Am 15 min

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

from [B]	38 P.S.I.	to [C]	41 P.S.I.
[D]	161 P.S.I.		
from [E]	44 P.S.I.	to [F]	46 P.S.I
[G]	108 P.S.I.		

Initial Blow WEAK Surface blow for 8 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 NONE Safety Joint ~~NONE~~ YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 91216 Clock No. Electronic Depth 3417 Cir. Sub ____ Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3419 Insurance NONE

Price of Job ____

Tool Operator Gene Burdy

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.

№ 12455

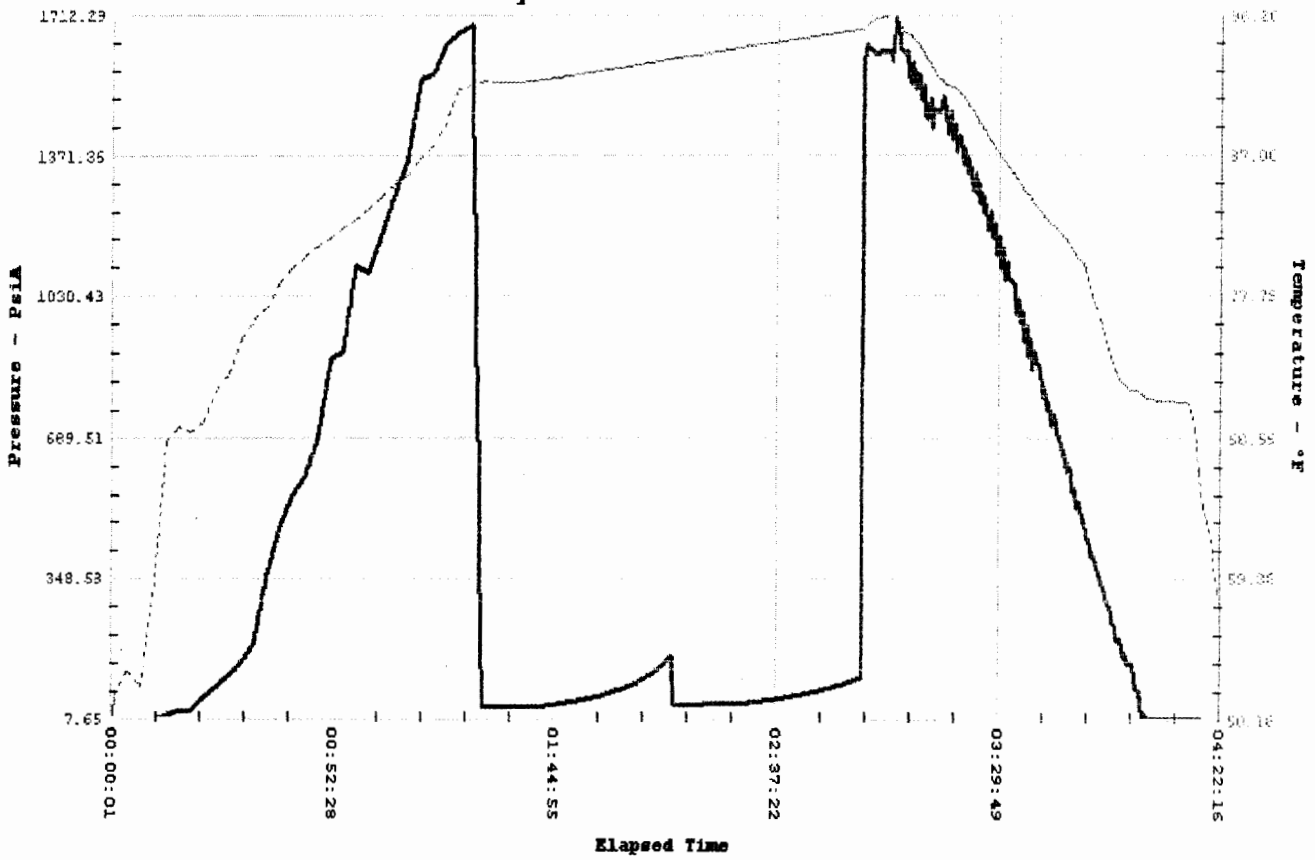
SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 22, 2004
Sec Town Range 7-21S-12W
Report Number 5

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1689
(2)	Initial Flow Pressure	38
(3)	Final Initial Flow Pressure	41
(4)	Initial Shut-In Pressure	161
(5)	Initial Final Flow Pressure	44
(6)	Final Flow Pressure	46
(7)	Final Shut-In Pressure	108
(8)	Final Hydrostatic Pressure	1638

ELECTRONIC RECORDER DEPTH 3415 FT, RECORDER NUMBER 80507

Company: F.G.HOLL COMPANY L.;L.C. Lease & Well No. NOLTE #1-7 Test #: 5 Date: 01-22-2003 SEC. 7 TWP. 21S RGE. 12W

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	1/22/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	KANSAS CITY "I"
STATE	KANSAS	DRILL STEM TEST NUMBER	5
COUNTY	STAFFORD	REPORT NUMBER	5
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3386
TEST INTERVAL (From)	3391	BOTTOM PACKER DEPTH	3391
TEST INTERVAL (to)	3422	NUMBER OF PACKERS	2
ANCHOR LENGTH	31	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3422	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	7:00	INITIAL HYDROSTATIC	1689
TOOL OPEN (to)	7:15	INITIAL FLOW	38
DURATION (min.)	15	FINAL INITIAL FLOW	41
INITIAL SHUT-IN		INITIAL SHUT-IN	161
TOOL CLOSED (from)	7:15	INITIAL FINAL FLOW	44
TOOL CLOSED (to)	7:45	FINAL FLOW	46
DURATION (min.)	30	FINAL SHUT-IN	108
FINAL OPEN		FINAL HYDROSTATIC	1638
TOOL OPEN (from)	7:45		
TOOL OPEN (to)	8:00	MAXIMUM TEMPERATURE	95
DURATION (min.)	15		
FINAL SHUT-IN		TOP RECORDER DEPTH	3415
TOOL CLOSED (from)	8:00	RECORDER NUMBER	80507
TOOL CLOSED (to)	8:30	BOTTOM RECORDER DEPTH	3419
DURATION (min.)	30	RECORDER NUMBER	13208

INITIAL BLOW WEAK BLOW FOR 8 MINUTES AND DIED

FINAL BLOW NO BLOW

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	..... **3124**	DRILL COLLAR LENGTH	..... **246**
DRILL PIPE I.D.	..... **3.8**	DRILL COLLAR I.D.	..... **2.25**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	TOOL JOINT SIZE	..... **4 1/2 X.H.**
WEIGHT PIPE LENGTH	.....	MUD WEIGHT #/GAL	..... **8.9**
WEIGHT PIPE I.D.	..... **2.25**	VISCOSITY	..... **46**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	WATER LOSS	..... **10.2**
		CHLORIDES-PITS	..... **12000**
		CHLORIDES-DST	.....

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

ate 01-22-2004 Location 20/E 90/N N/W S/W 7-21S-12W Elevation 1863 KB 1854 GL County Stafford

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

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

rilling Contractor Sterling Drilling Rig #1

ength Drill Pipe 3180 I.D. Drill Pipe 3.80 Tool Joint Size 4½" X.H.

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

ength Drill Collars 246 I.D. Drill Collars 2.25 Tool Joint Size 4½" X.H.

op Packer Depth 3442 Bottom Packer Depth 3447 Number of Packers 2 Packer Size 6 3/4"

ESTED FROM 3447 TO 3471 ANCHOR LENGTH 24 TOTAL DEPTH 3471 Hole Size 7 7/8"

EASE & WELL NO. Nolte #1-7 FORMATION TESTED Arbuckle TEST NO. 6

Mud Weight 8.9 Viscosity 46 Water Loss 10.2 Chlorides - Pits 12,000 D.S.T.

Maximum Temp. 100 °F Initial Hydrostatic Pressure (A) 1703 P.S.I. Final Hydrostatic Pressure (H) 1655 P.S.I.

ool Open I.F.P. from 10:30 pm to 11:00 pm 30 min
ool Closed I.C.I.P. from 11:00 pm to 12:00 Am 60 min
ool Open F.F.P. from 12:00 Am to 1:00 Am 60 min
ool Closed F.C.I.P. from 1:00 Am to 2:30 Am 90 min

from [B]	45 P.S.I.	to [C]	65 P.S.I.
[D]	182 P.S.I.		
from [E]	70 P.S.I.	to [F]	90 P.S.I
[G]	174 P.S.I.		

nitial Blow Fair blow built to the bottom of a 5 Gallon bucket in 27 minutes

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

otal Feet Recovered 130 Gravity of Oil ____ Corrected

450 Feet of Gas in the Pipe %Gas ___ %Oil ___ %Mud ___ %Water

130 Feet of Slightly mud cut Gassy Oil 15 %Gas 65 %Oil 20 %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

Remarks ___

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

Top Recorder No. 91716 Clock No. Electronic Depth 3466 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3468 Insurance NONE

Price of Job ___

ool Operator [signature]

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.

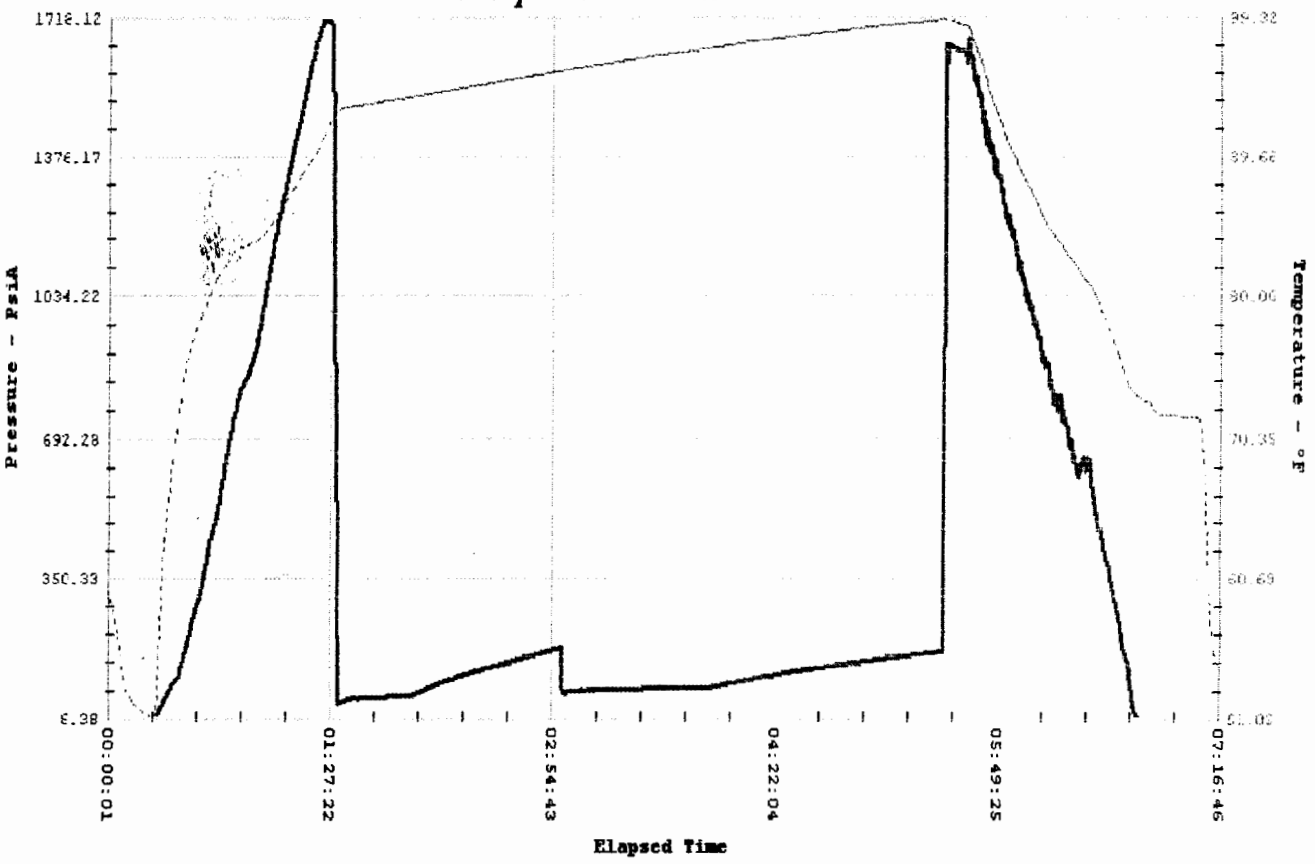
№ 12456

SUPERIOR TESTERS ENTERPRISES INC.

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

State ..... KANSAS	***Test Date*** ..... January 22, 2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12456

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1703
(2)	Initial Flow Pressure	45
(3)	Final Initial Flow Pressure	65
(4)	Initial Shut-In Pressure	182
(5)	Initial Final Flow Pressure	70
(6)	Final Flow Pressure	90
(7)	Final Shut-In Pressure	174
(8)	Final Hydrostatic Pressure	1655

ELECTRONIC RECORDER DEPTH 3464 FT, RECORDER NUMBER 91716

Company: F.G.HOLL COMPANY L.;L.C. Lease & Well No. NOLTE #1-7 Test #: 6 Date: 01-22-2003 SEC. 7 TWP. 21S RGE. 12W

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	1/22/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	KANSAS CITY "L"
STATE	KANSAS	DRILL STEM TEST NUMBER	6
COUNTY	STAFFORD	REPORT NUMBER	12456
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3442
TEST INTERVAL (From)	3447	BOTTOM PACKER DEPTH	3447
TEST INTERVAL (to)	3471	NUMBER OF PACKERS	2
ANCHOR LENGTH	24	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3471	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	10:30	INITIAL HYDROSTATIC	1703
TOOL OPEN (to)	11:00	INITIAL FLOW	45
DURATION (min.)	30	FINAL INITIAL FLOW	65
INITIAL SHUT-IN		INITIAL SHUT-IN	182
TOOL CLOSED (from)	11:00	INITIAL FINAL FLOW	70
TOOL CLOSED (to)	12:00	FINAL FLOW	90
DURATION (min.)	60	FINAL SHUT-IN	174
FINAL OPEN		FINAL HYDROSTATIC	1655
TOOL OPEN (from)	12:00		
TOOL OPEN (to)	1:00	MAXIMUM TEMPERATURE	100
DURATION (min.)	60		
FINAL SHUT-IN		TOP RECORDER DEPTH	3464
TOOL CLOSED (from)	1:00	RECORDER NUMBER	91716
TOOL CLOSED (to)	2:30	BOTTOM RECORDER DEPTH	3468
DURATION (min.)	90	RECORDER NUMBER	13208

INITIAL BLOW	FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 27 MINUTES
FINAL BLOW	FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 8 MINUTES

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	..... **3180**	DRILL COLLAR LENGTH	..... **246**
DRILL PIPE I.D.	..... **3.8**	DRILL COLLAR I.D.	..... **2.25**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	TOOL JOINT SIZE	..... **4 1/2 X.H.**
WEIGHT PIPE LENGTH	.....	MUD WEIGHT #/GAL	..... **8.9**
WEIGHT PIPE I.D.	..... **2.25**	VISCOSITY	..... **46**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	WATER LOSS	..... **10.2**
		CHLORIDES-PITS	..... **12000**
		CHLORIDES-DST	.....

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	450	GAS IN THE PIPE				
2)	130	SLIGHTLY MUD CUT GASSY OIL	15	65	20	0
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 01-23-2004 Location 20E 90N 7-21S-12W Elevation 1863 KB 1854 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 3221 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 2.25 Tool Joint Size 4½" X.H.

Top Packer Depth 3483 Bottom Packer Depth 3488 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3488 TO 3500 ANCHOR LENGTH 12 TOTAL DEPTH 3500 Hole Size 7 7/8"

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Arbuckle TEST NO. 7

Mud Weight 9.0 Viscosity 56 Water Loss 8.8 Chlorides - Pits 10000 D.S.T.

Maximum Temp. 105 °F Initial Hydrostatic Pressure (A) 1703 P.S.I. Final Hydrostatic Pressure (H) 1657 P.S.I.

Tool Open I.F.P. from 1:20 pm to 1:30 pm 10 min

Tool Closed I.C.I.P. from 1:30 pm to 2:30 pm 60 min

Tool Open F.F.P. from 2:30 pm to 3:30 pm 60 min

Tool Closed F.C.I.P. from 3:30 pm to 5:00 pm 90 min

from [B]	59 P.S.I.	to [C]	108 P.S.I.
[D]	582 P.S.I.		
from [E]	95 P.S.I.	to [F]	131 P.S.I.
[G]	260 P.S.I.		

Initial Blow Good blow built to the bottom of a 5 Gallon bucket in 2 minutes

Final Blow Good blow built to the bottom of a 5 Gallon Bucket in 2 minutes

Total Feet Recovered _____ Gravity of Oil 44 Corrected

2000 Feet of Gas in the Pipe %Gas ___ %Oil ___ %Mud ___ %Water

240 Feet of CLEAN Gassy Oil - Gravity 44 Corrected %Gas ___ %Oil ___ %Mud ___ %Water

30 Feet of SLIGHTLY mud Cut Gassy Oil %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

Remarks _____

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

Top Recorder No. 91716 Clock No. Electronic Depth 3595 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13208 Clock No. 47441 Depth 3597 Insurance NONE

Price of Job _____

Tool Operator [signature]

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.

№ 12457

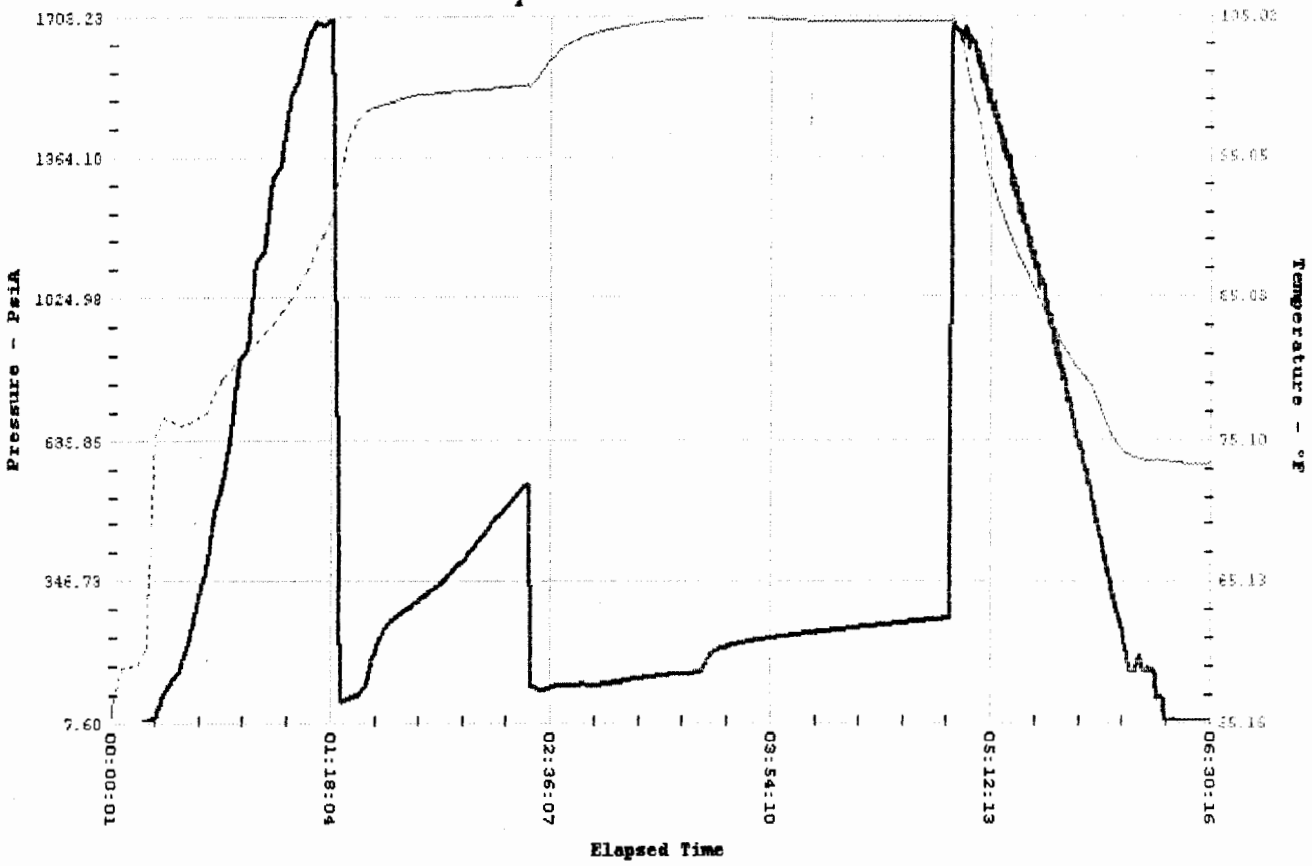
SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 22, 2004
Sec Town Range 7-21S-12W
Report Number 12457

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1703
(2)	Initial Flow Pressure	59
(3)	Final Initial Flow Pressure	108
(4)	Initial Shut-In Pressure	582
(5)	Initial Final Flow Pressure	95
(6)	Final Flow Pressure	131
(7)	Final Shut-In Pressure	260
(8)	Final Hydrostatic Pressure	1657

ELECTRONIC RECORDER DEPTH 3493 FT, RECORDER NUMBER 91716

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 7 Date: 01-23-2004 SEC. 7 TWP. 21S RGE. 12W

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	1/22/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	ARBUCKLE
STATE	KANSAS	DRILL STEM TEST NUMBER	7
COUNTY	STAFFORD	REPORT NUMBER	12457
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	3483
TEST INTERVAL (From)	3488	BOTTOM PACKER DEPTH	3488
TEST INTERVAL (to)	3500	NUMBER OF PACKERS	2
ANCHOR LENGTH	12	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3500	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	1:20
TOOL OPEN (to)	1:30
DURATION (min.)	10
INITIAL SHUT-IN	
TOOL CLOSED (from)	1:30
TOOL CLOSED (to)	2:30
DURATION (min.)	60
FINAL OPEN	
TOOL OPEN (from)	2:30
TOOL OPEN (to)	3:30
DURATION (min.)	60
FINAL SHUT-IN	
TOOL CLOSED (from)	3:30
TOOL CLOSED (to)	5:00
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1703
INITIAL FLOW	59
FINAL INITIAL FLOW	108
INITIAL SHUT-IN	582
INITIAL FINAL FLOW	95
FINAL FLOW	131
FINAL SHUT-IN	260
FINAL HYDROSTATIC	1657
MAXIMUM TEMPERATURE	105
TOP RECORDER DEPTH	3493
RECORDER NUMBER	91716
BOTTOM RECORDER DEPTH	3497
RECORDER NUMBER	13208

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

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

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	..... **3221**	DRILL COLLAR LENGTH	..... **246**
DRILL PIPE I.D.	..... **3.8**	DRILL COLLAR I.D.	..... **2.25**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	TOOL JOINT SIZE	..... **4 1/2 X.H.**
WEIGHT PIPE LENGTH	.....	MUD WEIGHT #/GAL	..... **9**
WEIGHT PIPE I.D.	..... **2.25**	VISCOSITY	..... **56**
TOOL JOINT SIZE	..... **4 1/2 X.H.**	WATER LOSS	..... **8.8**
		CHLORIDES-PITS	..... **10000**
		CHLORIDES-DST	.....

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	2000	GAS IN THE PIPE				
2)	240	CLEAN GASSY OIL-GRAVITY 44 CORRECTED				
3)	30	SLIGHTLY MUD CUT GASSY OIL				
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

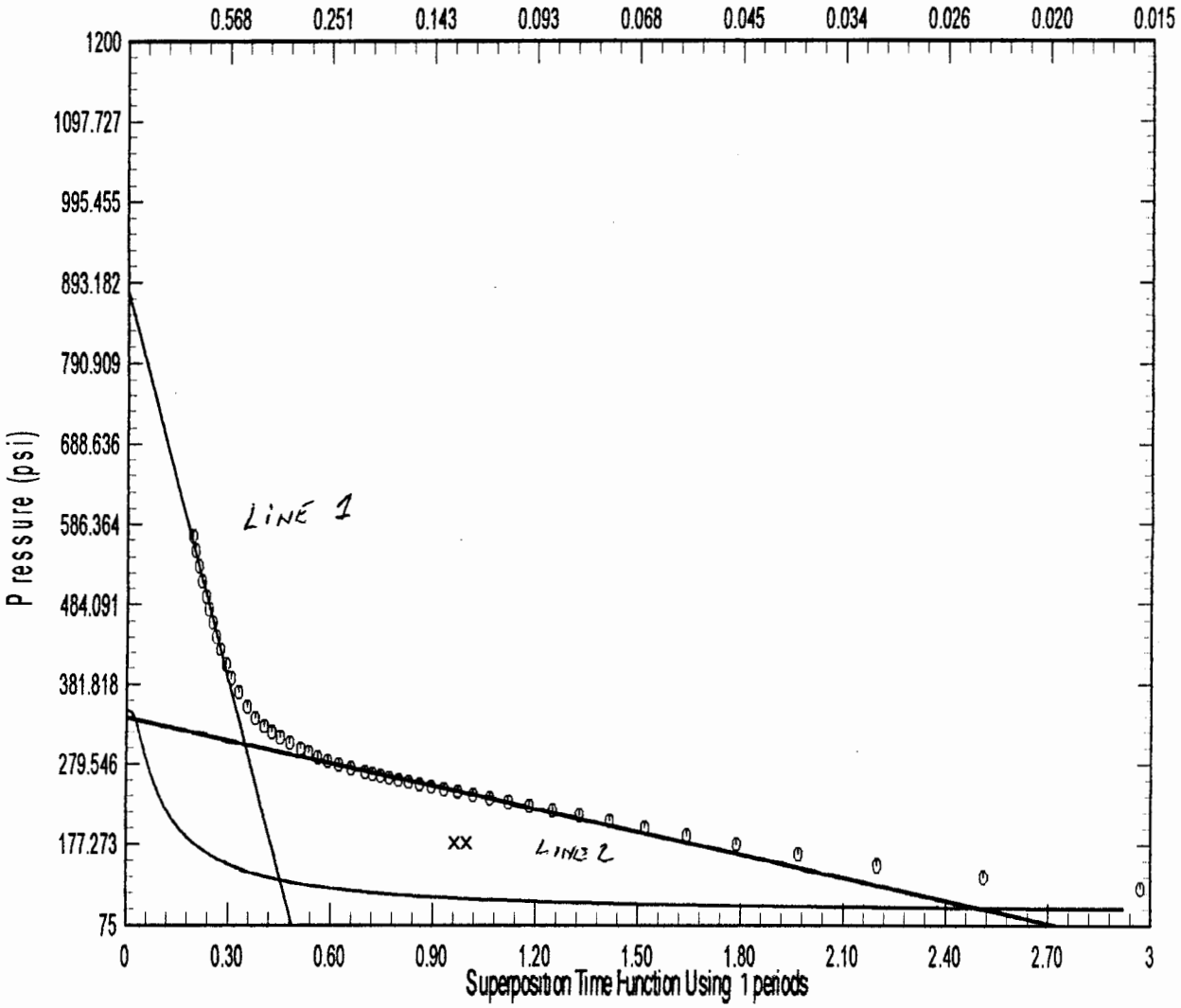
COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS **SUPERPOSITION ANALYSIS** **(316) 792-6902**

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/22/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12457



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 1.710E-4 bbl/psi	Skin : 4.06	k : 0.093 md		mu : 0.872 cp
		Est Pi: 349.9 psi		phi : 18.0%
				ct : 7.300E-04 1/psi
				rw : 3.208 ft
				FVF : 2.43

Field :		**Date Printed:**	01/24/04 04:00:38
County or Parish :		**Analysis Period :**	1ST SHUT-IN
State :		**Comment :**	Line # 1

Superposition Slope -> m'	-1657.852000
Horner Slope -> m	-4923.819503
Intercept	882.425
P(dt=1 hr)	583.560
Pwf	94.490
R Sqr	0.9894
k (md)	0.02080
kh (md-ft)	0.20801
k/u (md/cp)	0.02386
kh/uB (md-ft/cp)	0.09808
Skin	2.394
DP Skin	10256.881
Total DP	787.935
Percent DP	1301.74%
Radius Invest (ft)	0
Radius Time (hrs)	0.96
Delta Q =	3
h (ft)=	10
mu =	0.872
B =	2.433
First Point #	68
Second Point #	116
Start Real Time	0.558
End Real Time	0.958
Start SF Time	0.307

Field :		**Date Printed:**	01/24/04 04:01:16
County or Parish :		**Analysis Period :**	1ST SHUT-IN
State :		**Comment :**	Line # 2

Superposition Slope -> m'	-96.848980
Horner Slope -> m	-287.641482
Intercept	338.744
P(dt=1 hr)	321.285
Pwf	94.490
R Sqr	0.9915
k (md)	0.35607
kh (md-ft)	3.56069
k/u (md/cp)	0.40848
kh/uB (md-ft/cp)	1.67890
Skin	1.768
DP Skin	442.408
Total DP	244.254
Percent DP	181.13%
Radius Invest (ft)	2
Radius Time (hrs)	0.96
Delta Q =	3
h (ft)=	10
mu =	0.872
B =	2.433
First Point #	11
Second Point #	34
Start Real Time	0.083
End Real Time	0.275
Start SF Time	1.328

SUPERIOR TESTERS ENTERPRISES INC.

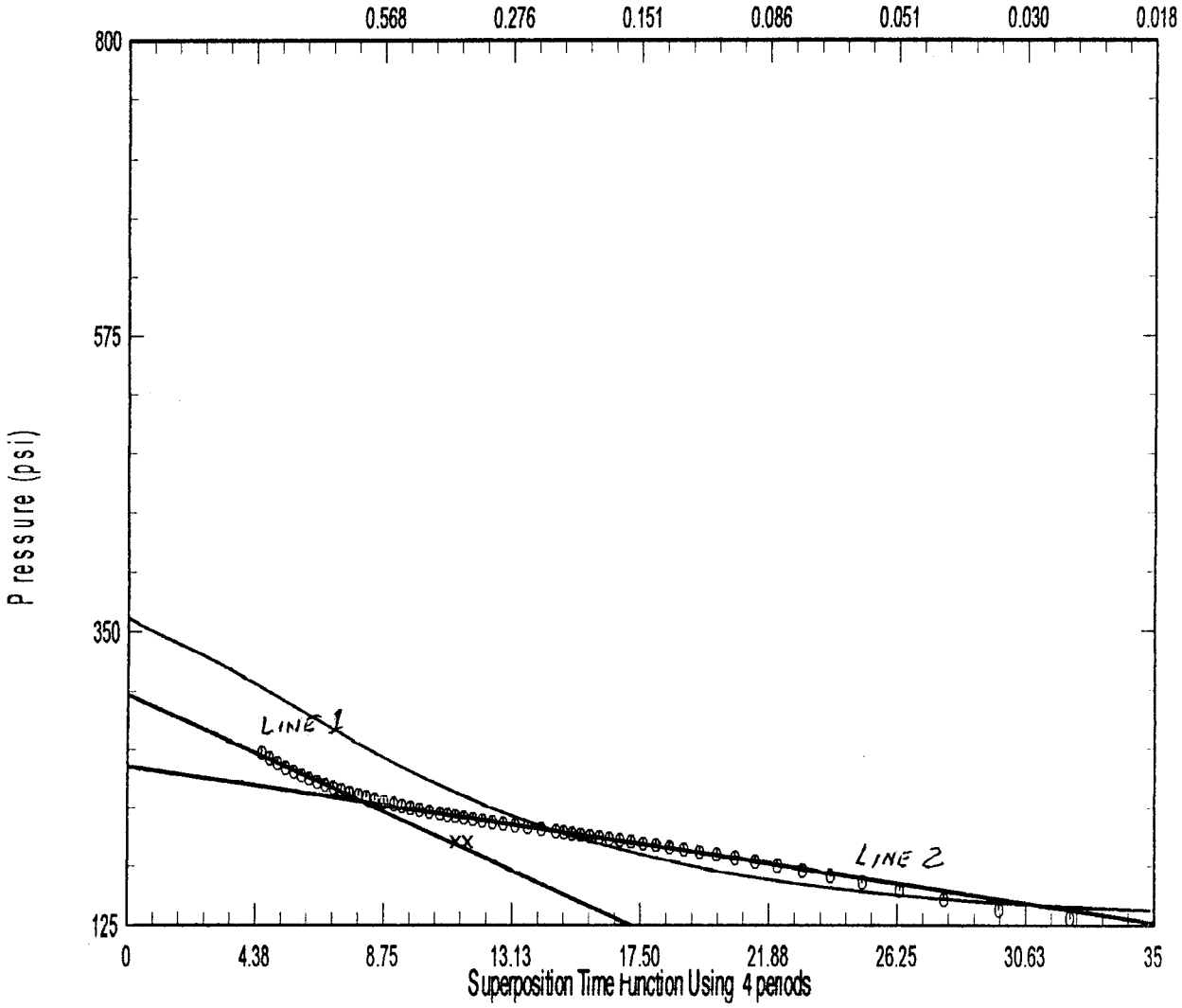
GREAT BEND,KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/22/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12457



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 0.004 bbl/psi	Skin : 0.74	k : 2.619 md		mu : 1.126 cp
		Est Pi: 360.6 psi		phi : 18.0%
				ct : 1.597E-03 1/psi
				rw : 3.208 ft
				FVF : 2.24

Field :		**Date Printed:**	01/24/04 04:06:32
County or Parish :		**Analysis Period :**	2ND SHUT-IN
State :		**Comment :**	Line # /

Superposition Slope -> m'	-10.324720
Horner Slope -> m	-206.494465
Intercept	302.393
P(dt=1 hr)	240.701
Pwf	130.000
R Sqr	0.9864
k (md)	3.96261
kh (md-ft)	39.62606
k/u (md/cp)	3.51981
kh/uB (md-ft/cp)	15.74861
Skin	0.792
DP Skin	142.307
Total DP	172.393
Percent DP	82.55%
Radius Invest (ft)	4
Radius Time (hrs)	1.49
Delta Q =	20
h (ft)=	10
mu =	1.126
B =	2.235
First Point #	84
Second Point #	171
Start Real Time	0.692
End Real Time	1.417
Start SF Time	7.710

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 01-24-2003 Location 29 E - 90 N - W/2 - S/2 7-21S-12W Elevation 1863 KB. 1854 GL 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 3238 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 4½" X.H. Tool Joint Size 2.25

Top Packer Depth ~~3500~~ Bottom Packer Depth 3500 Number of Packers -1 Packer Size 6 3/4

TESTED FROM 3490 TO 3505 ANCHOR LENGTH 15 TOTAL DEPTH 3515 Hole Size 7 7/8

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Arbuckle TEST NO. 8

Mud Weight 9.4 Viscosity 56 Water Loss 8% Chlorides - Pits 10,000 D.S.T.

Maximum Temp. 100 °F Initial Hydrostatic Pressure (A) 1715 P.S.I. Final Hydrostatic Pressure (H) 1632 P.S.I.

Tool Open I.F.P. from 3:05 Am to 3:15 Am 10 min

Tool Closed I.C.I.P. from 3:15 Am to 4:15 Am 30 min

Tool Open F.F.P. from 4:15 Am to 5:15 Am 60 min

Tool Closed F.C.I.P. from 5:15 Am to 6:45 Am 90 min

from [B]	40 P.S.I.	to [C]	45 P.S.I.
[D]	547 P.S.I.		
from [E]	55 P.S.I.	to [F]	93 P.S.I.
[G]	298 P.S.I.		

Initial Blow Good blow built to the bottom of a 5 Gallon bucket in 2 minutes

Final Blow Good blow built to the bottom of a 5 Gallon bucket in 2½ minutes

Total Feet Recovered _____ Gravity of Oil 44 Corrected

200 Feet of	Clean Gassy oil	%Gas	%Oil	%Mud	%Water
Feet of	Gravity 44 corrected	%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. 9171G Clock No. Electronic Depth 3511 Cir. Sub None Sampler None

Bottom Recorder No. 13204 Clock No. 47441 Depth 3512 Insurance None

Price of Job _____

Tool Operator Dan Engle

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 12458

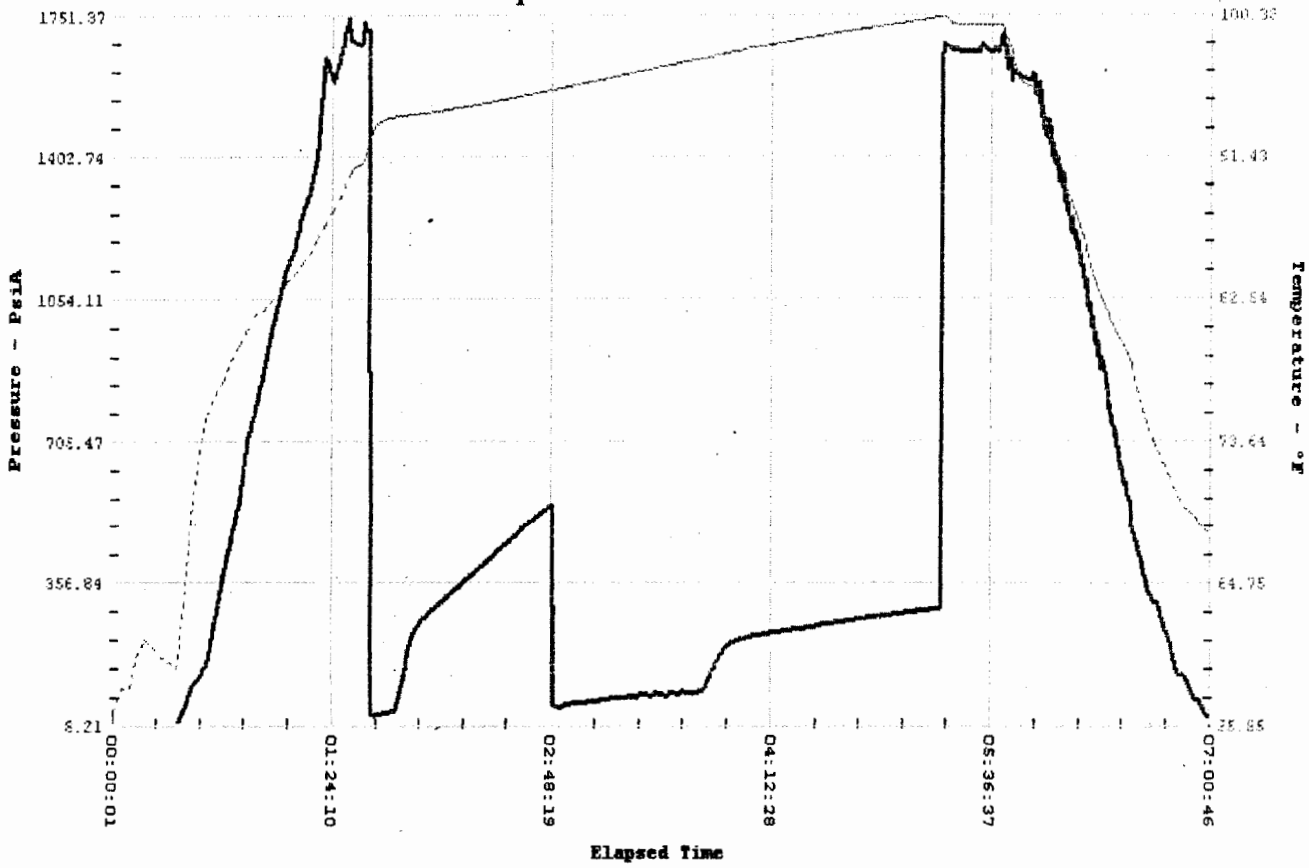
Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 8 Date: 01-24-204 SEC. 7 TWP. 21S RGE. 12W

SUPERIOR TESTERS ENTERPRISES INC.

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

State ..... KANSAS	***Test Date*** ..... January 24, 2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12458

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1715
(2)	Initial Flow Pressure	40
(3)	Final Initial Flow Pressure	45
(4)	Initial Shut-In Pressure	547
(5)	Initial Final Flow Pressure	55
(6)	Final Flow Pressure	93
(7)	Final Shut-In Pressure	298
(8)	Final Hydrostatic Pressure	1632

ELECTRONIC RECORDER DEPTH 3508 FT, RECORDER NUMBER 91716

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	1/24/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	ARBUCKLE
STATE	KANSAS	DRILL STEM TEST NUMBER	8
COUNTY	STAFFORD	REPORT NUMBER	12458
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	
TEST INTERVAL (From)	3500	BOTTOM PACKER DEPTH	3500
TEST INTERVAL (to)	3515	NUMBER OF PACKERS	2
ANCHOR LENGTH	15	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3515	HOLE SIZE	7 7/8

FLOW TIMES

		PRESSURE READINGS	
INITIAL OPEN			
TOOL OPEN (from)	3:05	INITIAL HYDROSTATIC	1715
TOOL OPEN (to)	3:15	INITIAL FLOW	40
DURATION (min.)	10	FINAL INITIAL FLOW	45
INITIAL SHUT-IN		INITIAL SHUT-IN	547
TOOL CLOSED (from)	3:15	INITIAL FINAL FLOW	55
TOOL CLOSED (to)	4:15	FINAL FLOW	93
DURATION (min.)	60	FINAL SHUT-IN	298
FINAL OPEN		FINAL HYDROSTATIC	1632
TOOL OPEN (from)	4:15		
TOOL OPEN (to)	5:15	MAXIMUM TEMPERATURE	100
DURATION (min.)	60		
FINAL SHUT-IN		TOP RECORDER DEPTH	3508
TOOL CLOSED (from)	5:15	RECORDER NUMBER	91716
TOOL CLOSED (to)	6:45	BOTTOM RECORDER DEPTH	3512
DURATION (min.)	90	RECORDER NUMBER	13208

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

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

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	**3238**	DRILL COLLAR LENGTH	**246**
DRILL PIPE I.D.	**3.8**	DRILL COLLAR I.D.	**2.25**
TOOL JOINT SIZE	**4 1/2 X.H.**	TOOL JOINT SIZE	**4 1/2 X.H.**
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	**9**
WEIGHT PIPE I.D.	**2.25**	VISCOSITY	**56**
TOOL JOINT SIZE	**4 1/2 X.H.**	WATER LOSS	**8.8**
		CHLORIDES-PITS	**10000**
		CHLORIDES-DST	

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	200	CLEAN GASSY OIL GRAVITY 44 CORRECTED				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

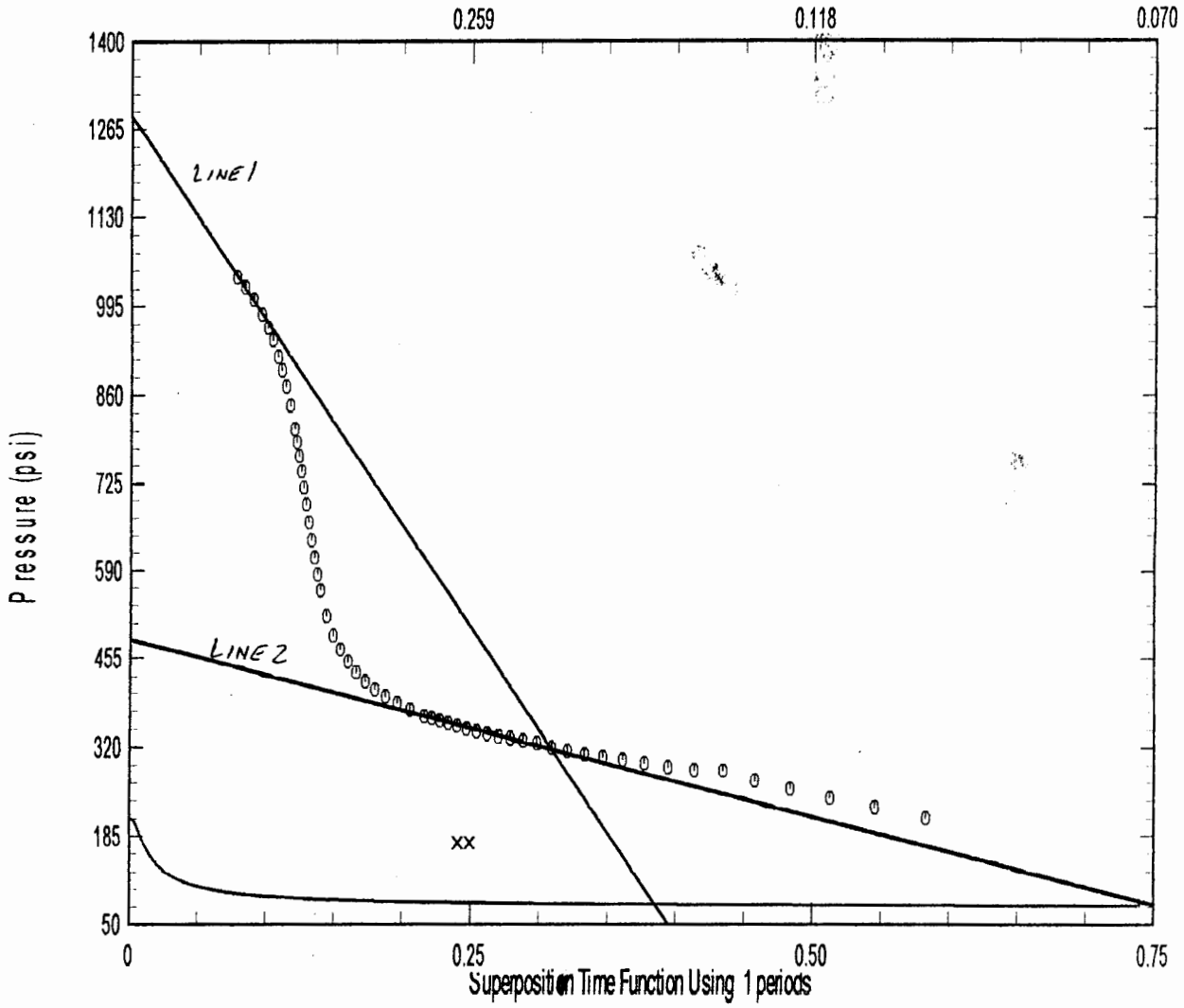
COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | **SUPERPOSITION ANALYSIS** | **(316) 792-6902**

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/24/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12459



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 1.000E-4 bbl/psi	Skin : 7.22	k : 0.039 md		mu : 0.663 cp
		Est Pi: 212.3 psi		phi : 18.0%
				ct : 5.192E-04 1/psi
				rw : 3.208 ft
				FVF : 2.46

Field :		**Date Printed:**	01/25/04 12:42:26
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line # /

Superposition Slope -> m'	-3125.987000
Horner Slope -> m	-10347.017979
Intercept	1284.183
P(dt=1 hr)	1064.937
Pwf	77.090
R Sqr	0.9917
k (md)	0.00849
kh (md-ft)	0.08488
k/u (md/cp)	0.01281
kh/uB (md-ft/cp)	0.05202
Skin	2.531
DP Skin	22779.499
Total DP	1207.093
Percent DP	1887.14%
Radius Invest (ft)	0
Radius Time (hrs)	0.93
Delta Q =	3
h (ft)=	10
mu =	0.663
B =	2.463
First Point #	75
Second Point #	100
Start Real Time	0.700
End Real Time	0.908
Start SF Time	0.099

Field :		**Date Printed:**	01/25/04 12:43:41
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line # 2

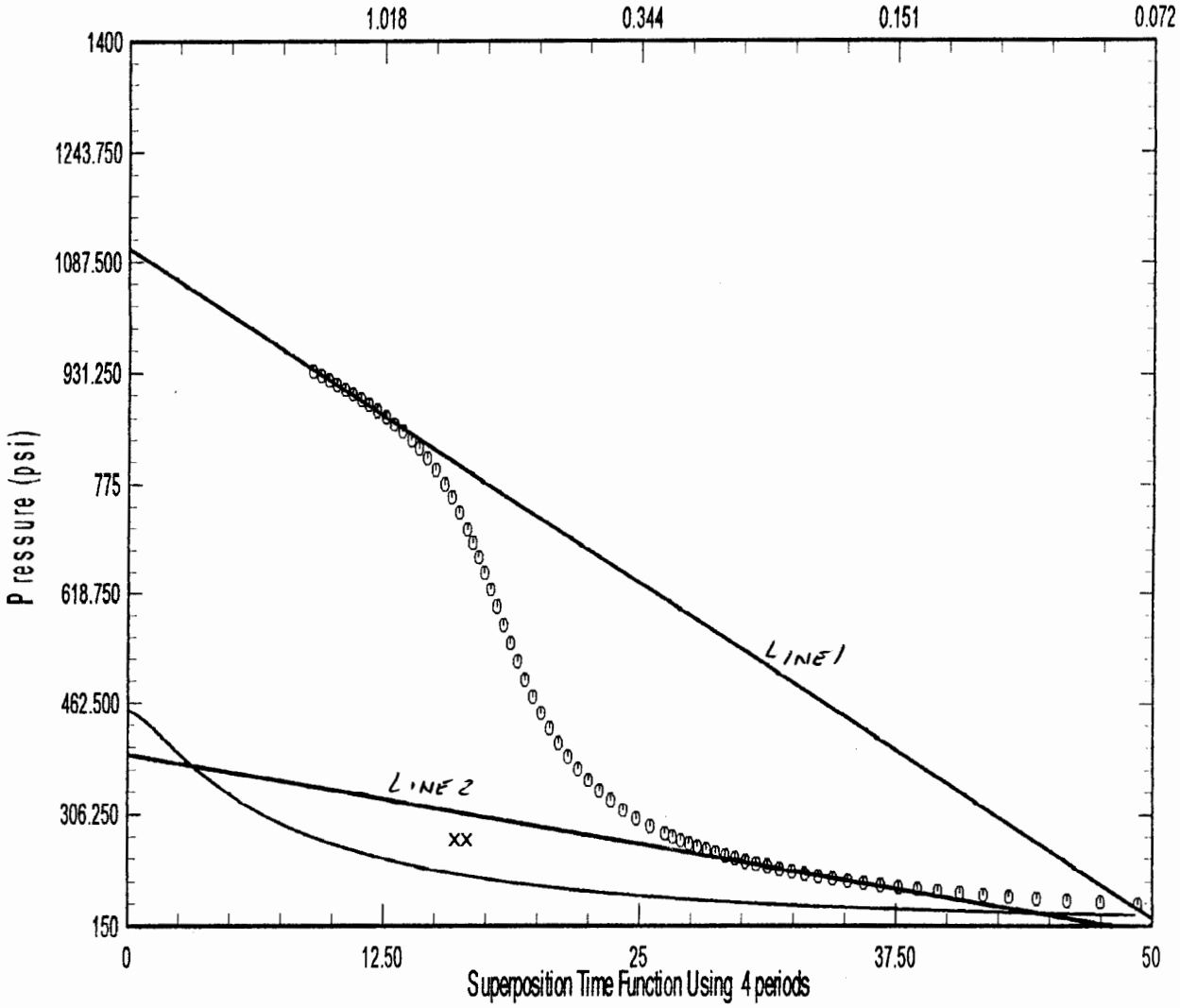
Superposition Slope -> m'	-537.370400
Horner Slope -> m	-1778.696098
Intercept	483.458
P(dt=1 hr)	445.768
Pwf	77.090
R Sqr	0.9826
k (md)	0.04937
kh (md-ft)	0.49374
k/u (md/cp)	0.07453
kh/uB (md-ft/cp)	0.30258
Skin	1.779
DP Skin	2752.971
Total DP	406.368
Percent DP	677.46%
Radius Invest (ft)	1
Radius Time (hrs)	0.93
Delta Q =	3
h (ft)=	10
mu =	0.663
B =	2.463
First Point #	16
Second Point #	30
Start Real Time	0.208
End Real Time	0.325
Start SF Time	0.309

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | **SUPERPOSITION ANALYSIS** | **(316) 792-6902**

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/24/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12459



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 0.013 bbl/psi	Skin : 1.05	k : 1.752 md		mu : 0.646 cp
		Est Pi: 452.9 psi		phi : 18.0%
				ct : 5.895E-04 1/psi
				rw : 3.208 ft
				FVF : 2.61

Field :		**Date Printed:**	01/25/04 12:45:25
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line # /

Superposition Slope -> m'	-18.915900
Horner Slope -> m	-815.464253
Intercept	1106.291
P(dt=1 hr)	866.303
Pwf	156.770
R Sqr	0.9955
k (md)	1.44599
kh (md-ft)	14.45987
k/u (md/cp)	2.24010
kh/uB (md-ft/cp)	8.59595
Skin	0.904
DP Skin	641.543
Total DP	949.521
Percent DP	67.56%
Radius Invest (ft)	6
Radius Time (hrs)	1.61
Delta Q =	43
h (ft)=	10
mu =	0.646
B =	2.606
First Point #	111
Second Point #	189
Start Real Time	0.917
End Real Time	1.567
Start SF Time	13.506

Field :		**Date Printed:**	01/25/04 12:46:24
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line # 2

Superposition Slope -> m'	-4.992161
Horner Slope -> m	-215.212052
Intercept	389.912
P(dt=1 hr)	326.576
Pwf	156.770
R Sqr	0.9891
k (md)	5.47902
kh (md-ft)	54.79017
k/u (md/cp)	8.48802
kh/uB (md-ft/cp)	32.57107
Skin	0.145
DP Skin	27.160
Total DP	233.142
Percent DP	11.65%
Radius Invest (ft)	12
Radius Time (hrs)	1.61
Delta Q =	43
h (ft)=	10
mu =	0.646
B =	2.606
First Point #	19
Second Point #	30
Start Real Time	0.150
End Real Time	0.242
Start SF Time	37.619

Superior Testers Enterprises, Inc.

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

Date 01-24-2004 Location 20/E 90/N N/W S/W 7-21S-12W Elevation 1863 KB 1854 GL 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 3248 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 2.25 Tool Joint Size 4½" X.H

Top Packer Depth _____ Bottom Packer Depth 3515 Number of Packers 1 Packer Size 6¾"

TESTED FROM 3515 TO 3525 ANCHOR LENGTH 10 TOTAL DEPTH 3525 Hole Size 7⅞

LEASE & WELL NO. Nolte #1-7 FORMATION TESTED Arbuckle TEST NO. 9

Mud Weight 8.8 Viscosity 42 Water Loss 9.61 Chlorides - Pits 12000 D.S.T. _____

Maximum Temp. 107 °F Initial Hydrostatic Pressure (A) 1720 P.S.I. Final Hydrostatic Pressure (H) 1691 P.S.I.

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

Tool Closed I.C.I.P. from 5:30 pm to 6:30 pm 60 min

Tool Open F.F.P. from 6:30 pm to 7:30 pm 60 min

Tool Closed F.C.I.P. from 7:30 pm to 9:00 pm 90 min

from [B]	71 P.S.I.	to [C]	118 P.S.I.
[D]	1045 P.S.I.		
from [E]	95 P.S.I.	to [F]	157 P.S.I
[G]	936 P.S.I.		

Initial Blow Good blow built to the bottom of a 5 Gallon bucket in 1 minute

Final Blow Good blow built to the bottom of a 5 Gallon bucket in 1½ minute

Total Feet Recovered 400 Gravity of Oil 44 Corrected

2550 Feet of Gas in the Pipe %Gas ___ %Oil ___ %Mud ___ %Water

400 Feet of Clean Gassy Oil Gravity 44 Corrected %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

Remarks _____

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

Top Recorder No. 91716 Clock No. Electronic Depth 3522 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 47441 Clock No. 47441 Depth 3523 Insurance NONE

Price of Job _____

Tool Operator [signature]

Approved By _____

Nº 12459

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.

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 9 Date: 01-24-2004 SEC. 7 TWP. 21S RGE. 12W

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

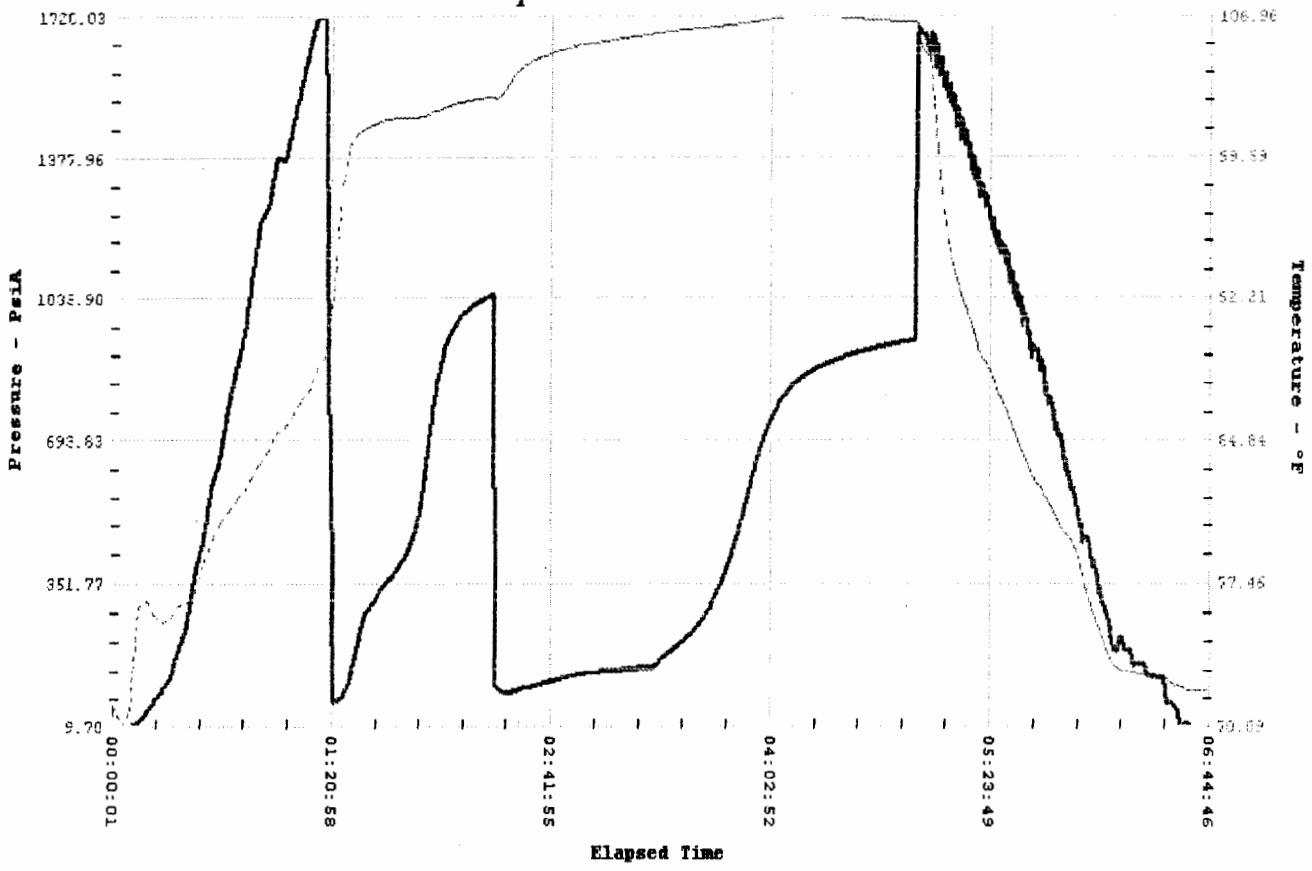
CHART DATA

(316) 792-6902

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

Test Date ..... January 24, 2004
Sec Town Range 7-21S-12W
Report Number 12459

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1720
(2)	Initial Flow Pressure	71
(3)	Final Initial Flow Pressure	118
(4)	Initial Shut-In Pressure	1045
(5)	Initial Final Flow Pressure	95
(6)	Final Flow Pressure	157
(7)	Final Shut-In Pressure	936
(8)	Final Hydrostatic Pressure	1691

ELECTRONIC RECORDER DEPTH 3518 FT, RECORDER NUMBER 91716

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	1/24/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	ARBUCKLE
STATE	KANSAS	DRILL STEM TEST NUMBER	9
COUNTY	STAFFORD	REPORT NUMBER	12459
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	
TEST INTERVAL (From)	3515	BOTTOM PACKER DEPTH	3515
TEST INTERVAL (to)	3525	NUMBER OF PACKERS	2
ANCHOR LENGTH	10	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3525	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	5:25
TOOL OPEN (to)	5:30
DURATION (min.)	5
INITIAL SHUT-IN	
TOOL CLOSED (from)	5:30
TOOL CLOSED (to)	6:30
DURATION (min.)	60
FINAL OPEN	
TOOL OPEN (from)	6:30
TOOL OPEN (to)	7:30
DURATION (min.)	60
FINAL SHUT-IN	
TOOL CLOSED (from)	7:30
TOOL CLOSED (to)	9:00
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1720
INITIAL FLOW	71
FINAL INITIAL FLOW	118
INITIAL SHUT-IN	1045
INITIAL FINAL FLOW	95
FINAL FLOW	157
FINAL SHUT-IN	936
FINAL HYDROSTATIC	1691
MAXIMUM TEMPERATURE	107
TOP RECORDER DEPTH	3518
RECORDER NUMBER	91716
BOTTOM RECORDER DEPTH	3522
RECORDER NUMBER	13208

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

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

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	**3248**	DRILL COLLAR LENGTH	**246**
DRILL PIPE I.D.	**3.8**	DRILL COLLAR I.D.	**2.25**
TOOL JOINT SIZE	**4 1/2 X.H.**	TOOL JOINT SIZE	**4 1/2 X.H.**
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	**8.8**
WEIGHT PIPE I.D.	**2.25**	VISCOSITY	**42**
TOOL JOINT SIZE	**4 1/2 X.H.**	WATER LOSS	**9.6**
		CHLORIDES-PITS	**12000**
		CHLORIDES-DST	

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	**2550**	**GAS IN THE PIPE**				
2)	**400**	**CLEAN GASSY OIL GRAVITY 44 CORRECTED**				
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

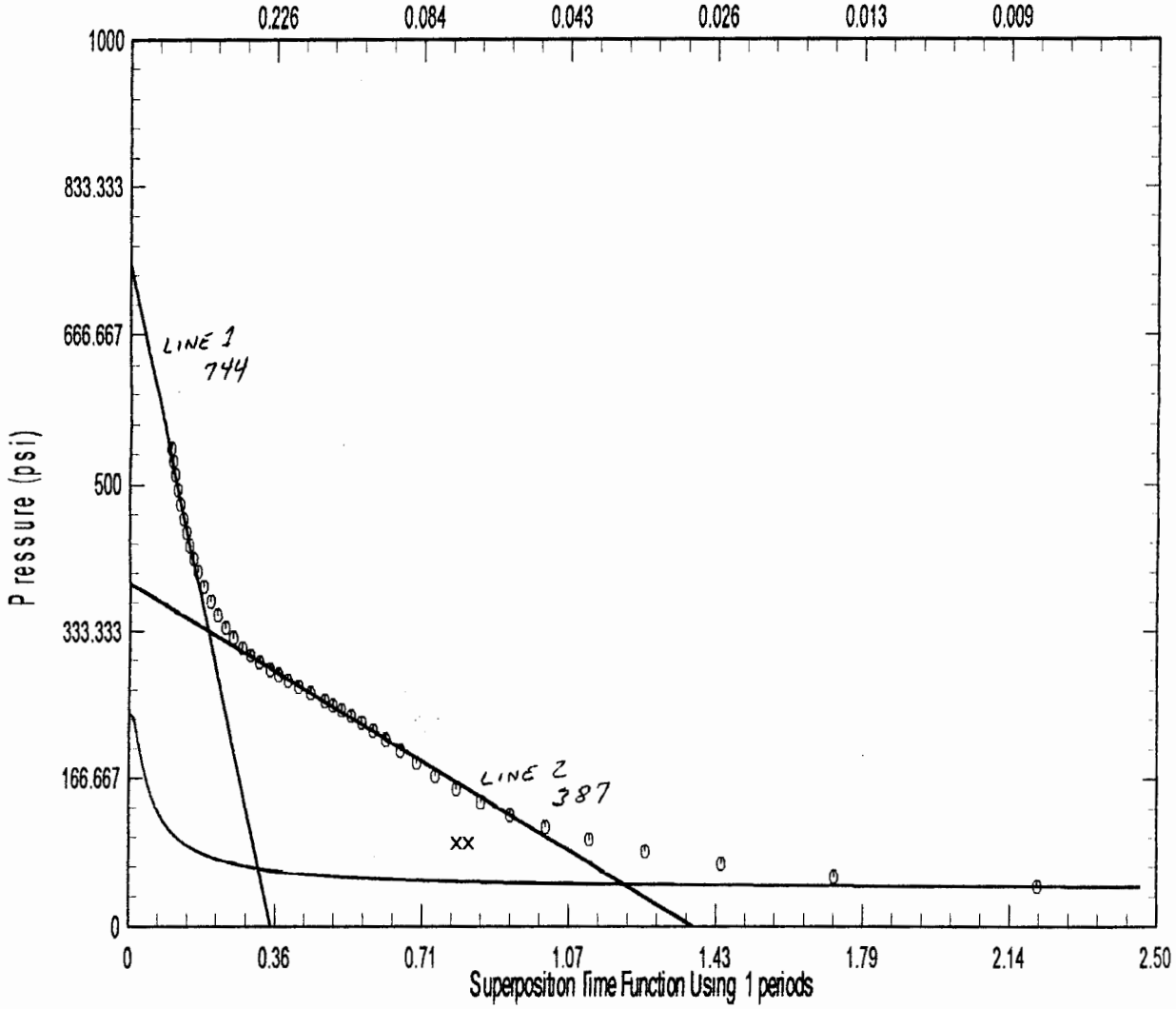
COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | **SUPERPOSITION ANALYSIS** | **(316) 792-6902**

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/24/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12458



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 1.020E-4 bbl/psi	Skin : 3.76	k : 0.159 md		mu : 2.994 cp
		Est Pi: 239.7 psi		phi : 18.0%
				ct : 5.964E-04 1/psi
				rw : 3.208 ft
				FVF : 2.04

Field :		**Date Printed:**	01/24/04 16:56:12
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line # 1

Superposition Slope -> m'	-2145.960000
Horner Slope -> m	-3862.728809
Intercept	744.494
P(dt=1 hr)	534.574
Pwf	44.770
R Sqr	-1.0000
k (md)	0.04634
kh (md-ft)	0.46341
k/u (md/cp)	0.01548
kh/uB (md-ft/cp)	0.07577
Skin	2.541
DP Skin	8540.221
Total DP	699.724
Percent DP	1220.51%
Radius Invest (ft)	0
Radius Time (hrs)	1.01
Delta Q =	2
h (ft)=	10
mu =	2.994
B =	2.043
First Point #	-1
Second Point #	-1
Start Real Time	
End Real Time	
Start SF Time	

Field :		**Date Printed:**	01/24/04 16:57:55
County or Parish :		**Analysis Period :**	1st shut-in
State :		**Comment :**	Line # 2

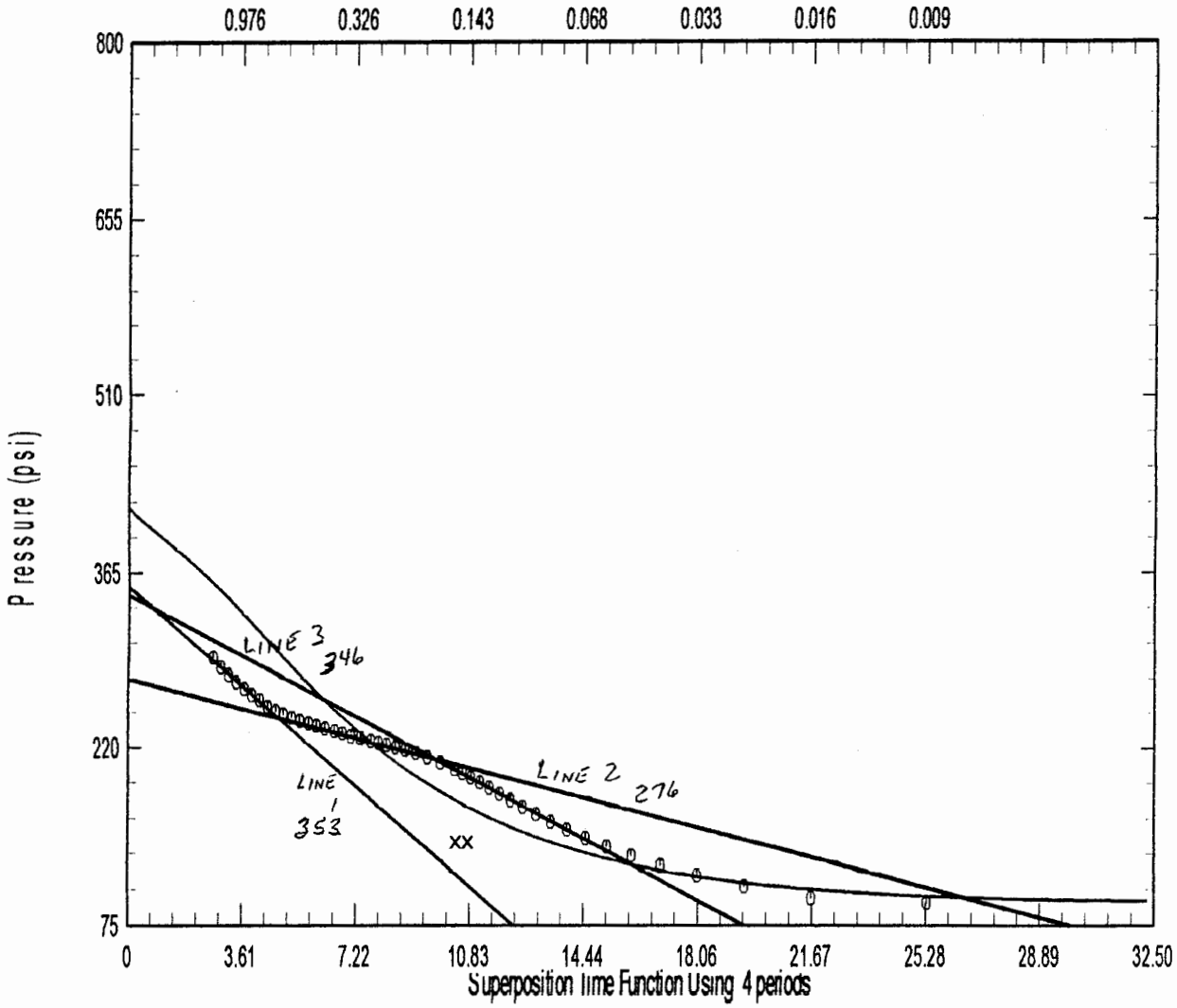
Superposition Slope -> m'	-282.320600
Horner Slope -> m	-508.177112
Intercept	387.764
P(dt=1 hr)	360.147
Pwf	44.770
R Sqr	0.9931
k (md)	0.35224
kh (md-ft)	3.52241
k/u (md/cp)	0.11766
kh/uB (md-ft/cp)	0.57594
Skin	2.096
DP Skin	926.571
Total DP	342.994
Percent DP	270.14%
Radius Invest (ft)	1
Radius Time (hrs)	1.01
Delta Q =	2
h (ft)=	10
mu =	2.994
B =	2.043
First Point #	17
Second Point #	39
Start Real Time	0.133
End Real Time	0.317
Start SF Time	0.542

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | **SUPERPOSITION ANALYSIS** | **(316) 792-6902**

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/24/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12458



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 0.001 bbl/psi	Skin : 0.76	k : 3.031 md		mu : 2.994 cp
		Est Pi: 418.9 psi		phi : 18.0%
				ct : 5.964E-04 1/psi
				rw : 3.208 ft
				FVF : 2.04

Field :		**Date Printed:**	01/24/04 16:51:51
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line # 1

Superposition Slope -> m'	-22.768730
Horner Slope -> m	-280.055334
Intercept	353.217
P(dt=1 hr)	272.255
Pwf	93.570
R Sqr	0.9884
k (md)	4.36761
kh (md-ft)	43.67611
k/u (md/cp)	1.45898
kh/uB (md-ft/cp)	7.14137
Skin	0.857
DP Skin	208.886
Total DP	259.647
Percent DP	80.45%
Radius Invest (ft)	5
Radius Time (hrs)	1.52
Delta Q =	12
h (ft)=	10
mu =	2.994
B =	2.043
First Point #	87
Second Point #	178
Start Real Time	0.717
End Real Time	1.475
Start SF Time	4.492

Field :		**Date Printed:**	01/24/04 16:52:25
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line # 2

Superposition Slope -> m'	-6.757468
Horner Slope -> m	-83.116859
Intercept	276.679
P(dt=1 hr)	252.650
Pwf	93.570
R Sqr	-1.0000
k (md)	14.71630
kh (md-ft)	147.16300
k/u (md/cp)	4.91592
kh/uB (md-ft/cp)	24.06227
Skin	1.719
DP Skin	124.280
Total DP	183.109
Percent DP	67.87%
Radius Invest (ft)	9
Radius Time (hrs)	1.52
Delta Q =	12
h (ft)=	10
mu =	2.994
B =	2.043
First Point #	-1
Second Point #	-1
Start Real Time	
End Real Time	
Start SF Time	

Field :		**Date Printed:**	01/24/04 16:52:43
County or Parish :		**Analysis Period :**	2nd shut-in
State :		**Comment :**	Line # 3

Superposition Slope -> m'	-13.904270
Horner Slope -> m	-171.022488
Intercept	346.346
P(dt=1 hr)	296.904
Pwf	93.570
R Sqr	0.9988
k (md)	7.15212
kh (md-ft)	71.52116
k/u (md/cp)	2.38914
kh/uB (md-ft/cp)	11.69425
Skin	1.245
DP Skin	185.225
Total DP	252.776
Percent DP	73.28%
Radius Invest (ft)	6
Radius Time (hrs)	1.52
Delta Q =	12
h (ft)=	10
mu =	2.994
B =	2.043
First Point #	8
Second Point #	19
Start Real Time	0.058
End Real Time	0.150
Start SF Time	15.185

Superior Testers Enterprises, Inc.

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

Date 01-25-2004 Location 20'E-90'N-N/W-S/W 7-21S-12W Elevation 1863 KB 1854 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 3263 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 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth _____ Bottom Packer Depth 3525 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3525 TO 3535 ANCHOR LENGTH 10 TOTAL DEPTH 3535 Hole Size 7 7/8"

LEASE & WELL NO. Nolte # 1-7 FORMATION TESTED Arbuckle TEST NO. 10

Mud Weight 9.0 Viscosity 68 Water Loss 9.2 Chlorides - Pits 18000 D.S.T. _____

Maximum Temp. 101 °F Initial Hydrostatic Pressure (A) 1708 P.S.I. Final Hydrostatic Pressure (H) 1649 P.S.I.

Tool Open I.F.P. from 8:50 Am to 9:00 Am 10 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 Am 60 min

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

from [B]	30 P.S.I.	to [C]	43 P.S.I.
[D]	1092 P.S.I.		
from [E]	51 P.S.I.	to [F]	99 P.S.I.
[G]	1033 P.S.I.		

Initial Blow fair blow built to the bottom of a 5 Gallon bucket in 3 minutes

Final Blow fair blow built to the bottom of a 5 Gallon bucket in 3 minutes

Total Feet Recovered 240 Gravity of Oil 44 Corrected

1250 Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

180 Feet of Clean Gassy Oil - Gravity 44 - Corrected %Gas ___ %Oil ___ %Mud ___ %Water

30 Feet of Slightly mud cut Gassy Oil %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

Remarks _____

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

Top Recorder No. 91716 Clock No. Electronic Depth 3531 Cir. Sub None Sampler None

Bottom Recorder No. 913203 Clock No. 47441 Depth 3532 Insurance None

Price of Job _____

Tool Operator Dave Budig

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.

№ 12460

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 10 Date: 01-25-2004 SEC. 7 TWP. 21S RGE. 12W

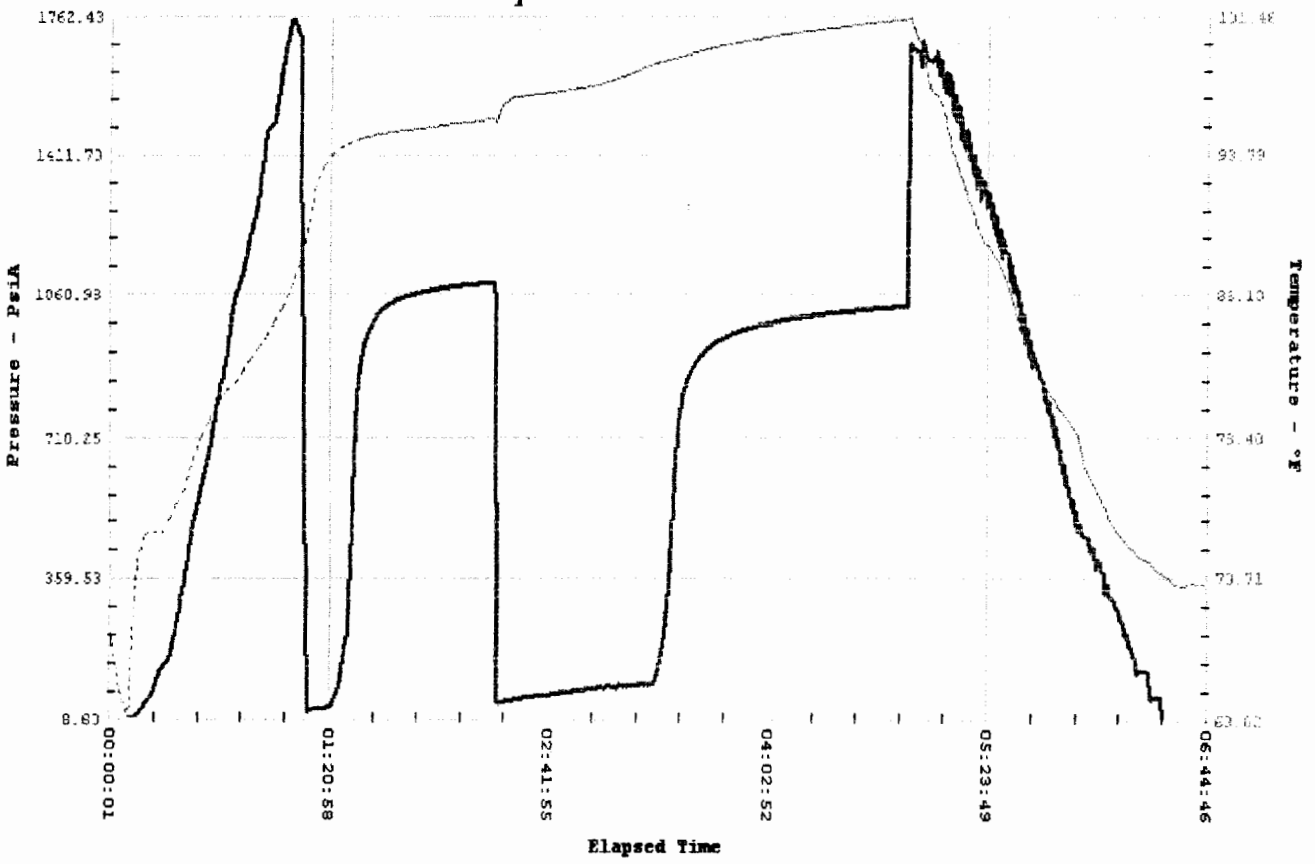
SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 25, 2004
Sec Town Range 7-21S-12W
Report Number 12460

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1708
(2)	Initial Flow Pressure	30
(3)	Final Initial Flow Pressure	43
(4)	Initial Shut-In Pressure	1047
(5)	Initial Final Flow Pressure	51
(6)	Final Flow Pressure	99
(7)	Final Shut-In Pressure	1033
(8)	Final Hydrostatic Pressure	1649

ELECTRONIC RECORDER DEPTH 3528 FT, RECORDER NUMBER 91716

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	1/25/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	ARBUCKLE
STATE	KANSAS	DRILL STEM TEST NUMBER	10
COUNTY	STAFFORD	REPORT NUMBER	12460
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	0
TEST INTERVAL (From)	3525	BOTTOM PACKER DEPTH	3525
TEST INTERVAL (to)	3535	NUMBER OF PACKERS	2
ANCHOR LENGTH	10	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3535	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	8:50
TOOL OPEN (to)	9:00
DURATION (min.)	10
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	1708
INITIAL FLOW	30
FINAL INITIAL FLOW	43
INITIAL SHUT-IN	1047
INITIAL FINAL FLOW	51
FINAL FLOW	99
FINAL SHUT-IN	1033
FINAL HYDROSTATIC	1649
MAXIMUM TEMPERATURE	101
TOP RECORDER DEPTH	3528
RECORDER NUMBER	91716
BOTTOM RECORDER DEPTH	3532
RECORDER NUMBER	13208

INITIAL BLOW FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 MINUTES

FINAL BLOW FAIR BLOW BUILT TO THE BOTTOMOF A5 GALLON BUCKET IN 3MINUTES

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	YES	STRADDLE	NO
ELECTRONIC RECORDER	YES	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	**3263**	DRILL COLLAR LENGTH	**246**
DRILL PIPE I.D.	**3.8**	DRILL COLLAR I.D.	**2.25**
TOOL JOINT SIZE	**4 1/2 X.H.**	TOOL JOINT SIZE	**4 1/2 X.H.**
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	**9**
WEIGHT PIPE I.D.	**2.25**	VISCOSITY	**68**
TOOL JOINT SIZE	**4 1/2 X.H.**	WATER LOSS	**9.2**
		CHLORIDES-PITS	**18000**
		CHLORIDES-DST	

	FEET OF RECOVERY	RECOVERY DECRIPTION		% GAS	% OIL	% MUD	% WATER
1)	1250	GAS IN THE PIPE					
2)	180	CLEAN GASSY OIL	GRAVITY 44 CORRECTED				
3)	30	SLIGHTLY MUD CUT GASSY OIL					
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							
		TOTAL RECOVERY					

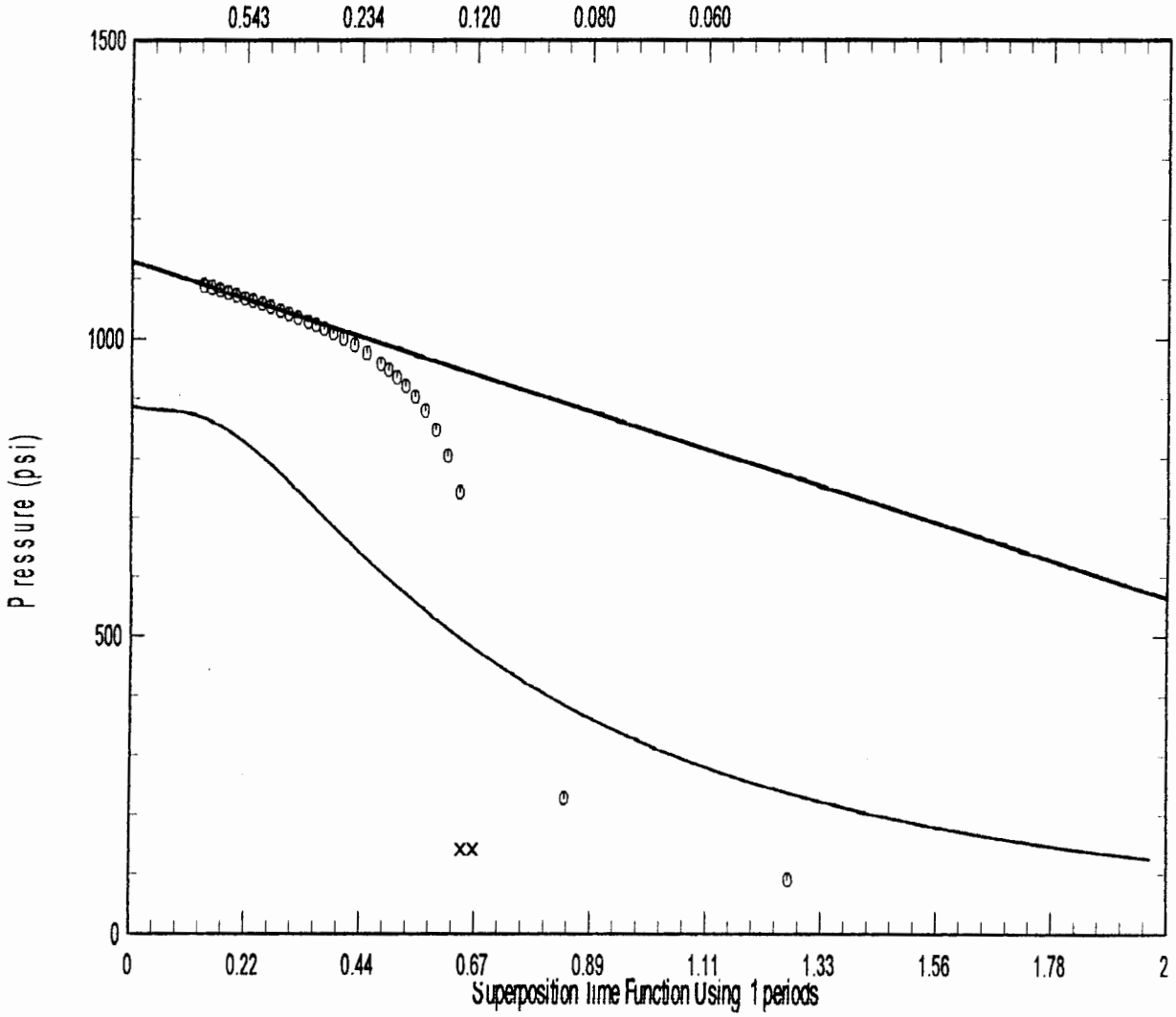
COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS | **SUPERPOSITION ANALYSIS** | **(316) 792-6902**

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/25/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12460



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 2.440E-5 bbl/psi	Skin : 3.21	k : 0.283 md		mu : 1.979 cp
		Est Pi: 886.9 psi		phi : 18.0%
				ct : 2.794E-04 1/psi
				rw : 3.208 ft
				FVF : 2.26

Field :		**Date Printed:**	01/25/04 14:46:33
County or Parish :		**Analysis Period :**	1ST SHUT--IN
State :		**Comment :**	Line #

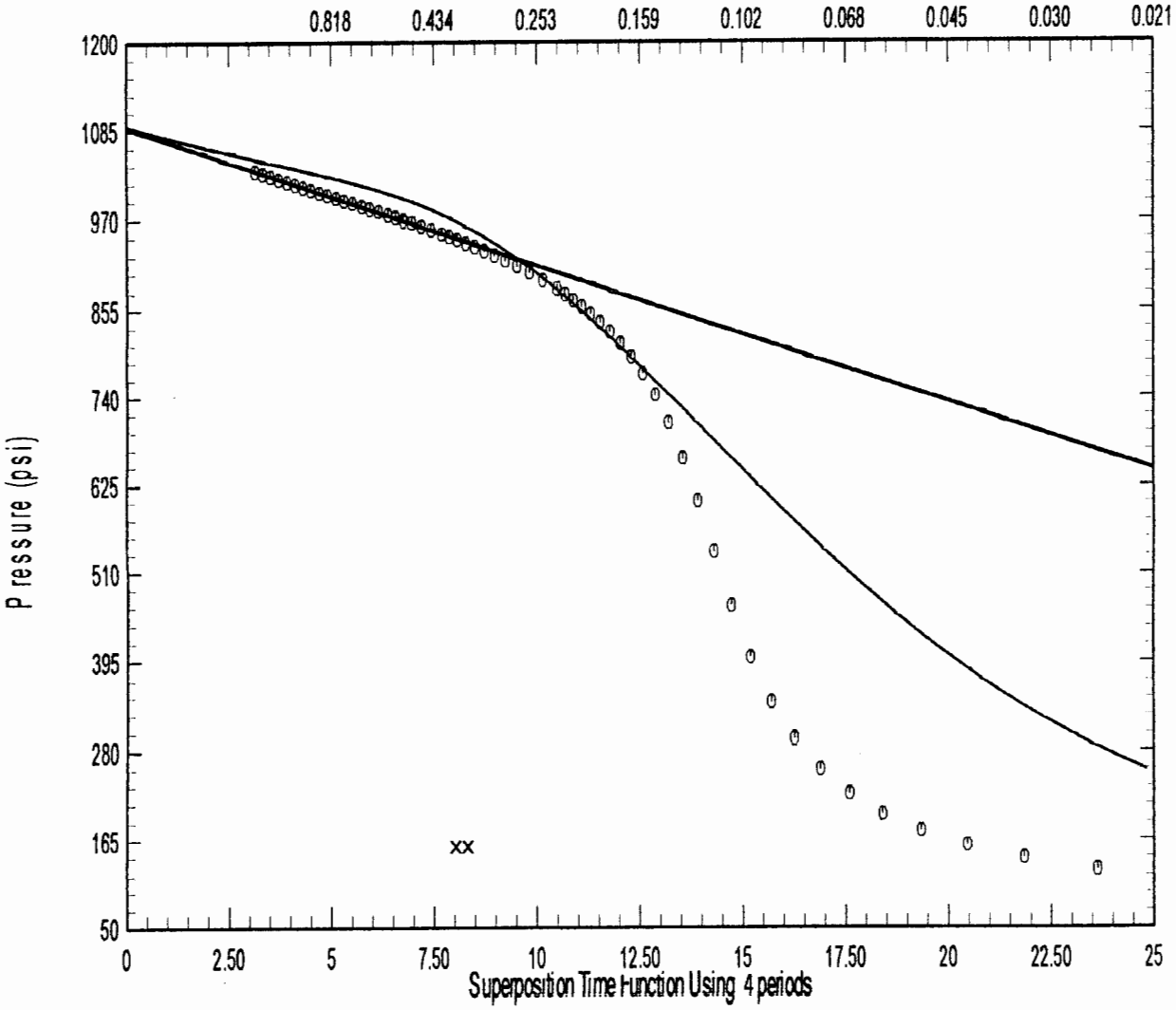
Superposition Slope -> m'	-282.247900
Horner Slope -> m	-595.542993
Intercept	1128.912
P(dt=1 hr)	1092.764
Pwf	42.990
R Sqr	0.9979
k (md)	0.25770
kh (md-ft)	2.57697
k/u (md/cp)	0.13020
kh/uB (md-ft/cp)	0.57609
Skin	2.981
DP Skin	1544.376
Total DP	1085.922
Percent DP	142.22%
Radius Invest (ft)	2
Radius Time (hrs)	1.00
Delta Q =	2
h (ft)=	10
mu =	1.979
B =	2.260
First Point #	29
Second Point #	103
Start Real Time	0.358
End Real Time	0.975
Start SF Time	0.320

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND,KANSAS **SUPERPOSITION ANALYSIS** **(316) 792-6902**

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/25/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12460



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 1.630E-4 bbl/psi	Skin : 3.45	k : 3.918 md		mu : 1.979 cp
		Est Pi: 1092.0 psi		phi : 18.0%
				ct : 2.794E-04 1/psi
				rw : 3.208 ft
				FVF : 2.26

Field :		**Date Printed:**	01/25/04 14:49:19
County or Parish :		**Analysis Period :**	2ND SHUT-IN
State :		**Comment :**	Line #

Superposition Slope -> m'	-17.751680
Horner Slope -> m	-262.902443
Intercept	1088.629
P(dt=1 hr)	1011.580
Pwf	98.230
R Sqr	0.9990
k (md)	4.09733
kh (md-ft)	40.97331
k/u (md/cp)	2.07009
kh/uB (md-ft/cp)	9.15969
Skin	3.568
DP Skin	816.027
Total DP	990.399
Percent DP	82.39%
Radius Invest (ft)	8
Radius Time (hrs)	1.54
Delta Q =	15
h (ft)=	10
mu =	1.979
B =	2.260
First Point #	39
Second Point #	186
Start Real Time	0.317
End Real Time	1.542
Start SF Time	8.974

Superior Testers Enterprises, Inc.

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

ate 01-26-2004 Location 20'/E 90'/N N/W S/W 7-21S-12W Elevation 1863 KB, 1854 GL County Stafford

ompany F. S. Hall Company LLC Number of Copies 5

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

rilling Contractor Sterling Drilling Rig #1

ength Drill Pipe 3275 I.D. Drill Pipe 3.80 Tool Joint Size 4½" X.H.

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

ength Drill Collars 246 I.D. Drill Collars 2.25 Tool Joint Size 4½" X.H.

op Packer Depth _____ Bottom Packer Depth 3535 Number of Packers 1 Packer Size 6¾"

ESTED FROM 3535 TO 3556 ANCHOR LENGTH 21 TOTAL DEPTH 3556 Hole Size 7 7/8"

EASE & WELL NO. Nolte #1-7 FORMATION TESTED Arbuckle TEST NO. 11

lud Weight 9.9 Viscosity 68 Water Loss 9.4 Chlorides - Pits 14000 D.S.T. _____

laximum Temp. 102 °F Initial Hydrostatic Pressure (A) 1756 P.S.I. Final Hydrostatic Pressure (H) 1699 P.S.I.

ool Open I.F.P. from 12:35 Am to 12:45 Am 10 min

ool Closed I.C.I.P. from 12:45 Am to 1:45 Am 60 min

ool Open F.F.P. from 1:45 Am to 2:45 Am 60 min

ool Closed F.C.I.P. from 2:45 Am to 4:15 Am 90 min

from [B]	45 P.S.I.	to [C]	72 P.S.I.
[D]	1096 P.S.I.		
from [E]	84 P.S.I.	to [F]	123 P.S.I
[G]	1067 P.S.I.		

nitial Blow Fair blow built to the bottom of a 5 Gallon bucket in 5½ min

nal Blow Fair blow built to the bottom of a 5 Gallon bucket in 4 min

otal Feet Recovered 290 Gravity of Oil 44 Corrected

1300 Feet of Gas in the Pipe %Gas ___ %Oil ___ %Mud ___ %Water

200 Feet of Clean Gassy Oil - Gravity 44 corrected %Gas ___ %Oil ___ %Mud ___ %Water

90 Feet of SLIGHTLY MUD cut Gassy oil %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

___ Feet of _____ %Gas ___ %Oil ___ %Mud ___ %Water

Remarks _____

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

Top Recorder No. 91716 Clock No. Electronic Depth 3552 Cir. Sub None Sampler None

Bottom Recorder No. 13208 Clock No. 47441 Depth 3553 Insurance None

Price of Job _____

Tool Operator Gene Budig

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.

№ 12461

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. NOLTE #1-7 Test #: 11 Date: 01-26-2004 SEC. 7 TWP. 21S RGE. 12W

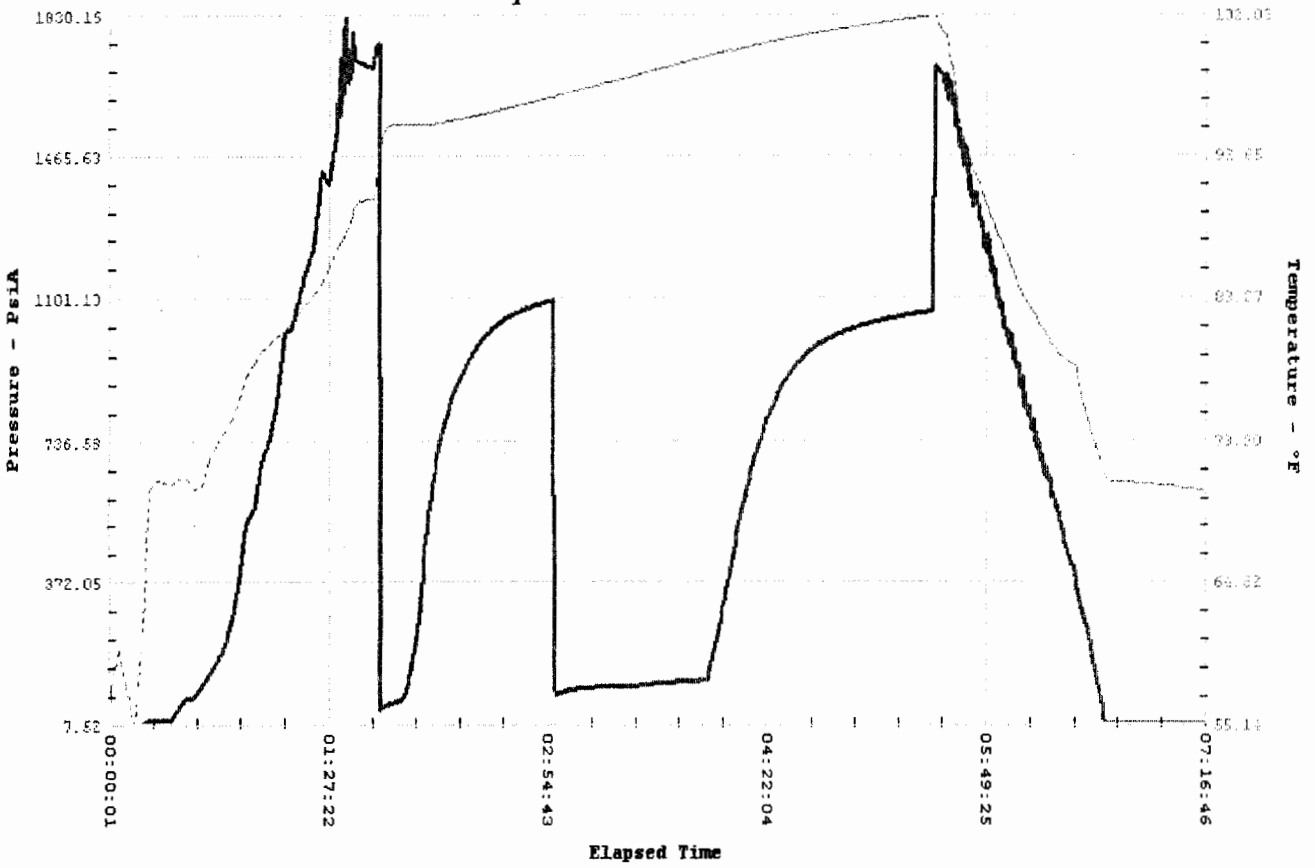
SUPERIOR TESTERS ENTERPRISES INC.

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

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

Test Date ..... January 26, 2004
Sec Town Range 7-21S-12W
Report Number 12461

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1756
(2)	Initial Flow Pressure	45
(3)	Final Initial Flow Pressure	72
(4)	Initial Shut-In Pressure	1096
(5)	Initial Final Flow Pressure	84
(6)	Final Flow Pressure	123
(7)	Final Shut-In Pressure	1067
(8)	Final Hydrostatic Pressure	1699

ELECTRONIC RECORDER DEPTH 3549 FT, RECORDER NUMBER 91716

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	1/26/2004	LEASE AND WELL NUMBER	NOLTE #1-7
SECTION-TOWN-RANGE	7-21S-12W	FORMATION TESTED	ARBUCKLE
STATE	KANSAS	DRILL STEM TEST NUMBER	11
COUNTY	STAFFORD	REPORT NUMBER	12461
ELEVATION GROUND LEVEL	1854	ELEVATION KELLY BUSHINGS	1863
COMPANY REPRESENTATIVE	BILL REE	TESTING ENGINEER	GENE BUDIG

TOOL SETTING INFORMATION

		TOP PACKER DEPTH	
TEST INTERVAL (From)	3535	BOTTOM PACKER DEPTH	3535
TEST INTERVAL (to)	3556	NUMBER OF PACKERS	2
ANCHOR LENGTH	21	PACKER SIZE	6 3/4
TOTAL DEPTH (ft)	3556	HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN	
TOOL OPEN (from)	12:35
TOOL OPEN (to)	12:45
DURATION (min.)	10
INITIAL SHUT-IN	
TOOL CLOSED (from)	12:45
TOOL CLOSED (to)	1:45
DURATION (min.)	60
FINAL OPEN	
TOOL OPEN (from)	1:45
TOOL OPEN (to)	2:45
DURATION (min.)	60
FINAL SHUT-IN	
TOOL CLOSED (from)	2:45
TOOL CLOSED (to)	4:15
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1756
INITIAL FLOW	45
FINAL INITIAL FLOW	72
INITIAL SHUT-IN	1096
INITIAL FINAL FLOW	84
FINAL FLOW	123
FINAL SHUT-IN	1067
FINAL HYDROSTATIC	1699
MAXIMUM TEMPERATURE	102
TOP RECORDER DEPTH	3549
RECORDER NUMBER	91716
BOTTOM RECORDER DEPTH	3553
RECORDER NUMBER	13208

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

FINAL BLOW — **FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 4 MINUTES**

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	**3275**	DRILL COLLAR LENGTH	**246**
DRILL PIPE I.D.	**3.8**	DRILL COLLAR I.D.	**2.25**
TOOL JOINT SIZE	**4 1/2 X.H.**	TOOL JOINT SIZE	**4 1/2 X.H.**
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	**9**
WEIGHT PIPE I.D.	**2.25**	VISCOSITY	**68**
TOOL JOINT SIZE	**4 1/2 X.H.**	WATER LOSS	**9.2**
		CHLORIDES-PITS	**14000**
		CHLORIDES-DST	

	FEET OF RECOVERY	RECOVERY DECRIPTION	% GAS	% OIL	% MUD	% WATER
1)	1300	GAS IN THE PIPE				
2)	200	CLEAN GASSY OIL GRAVITY 44 CORRECTED				
3)	90	SLIGHTLY MUD CUT GASSY OIL				
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

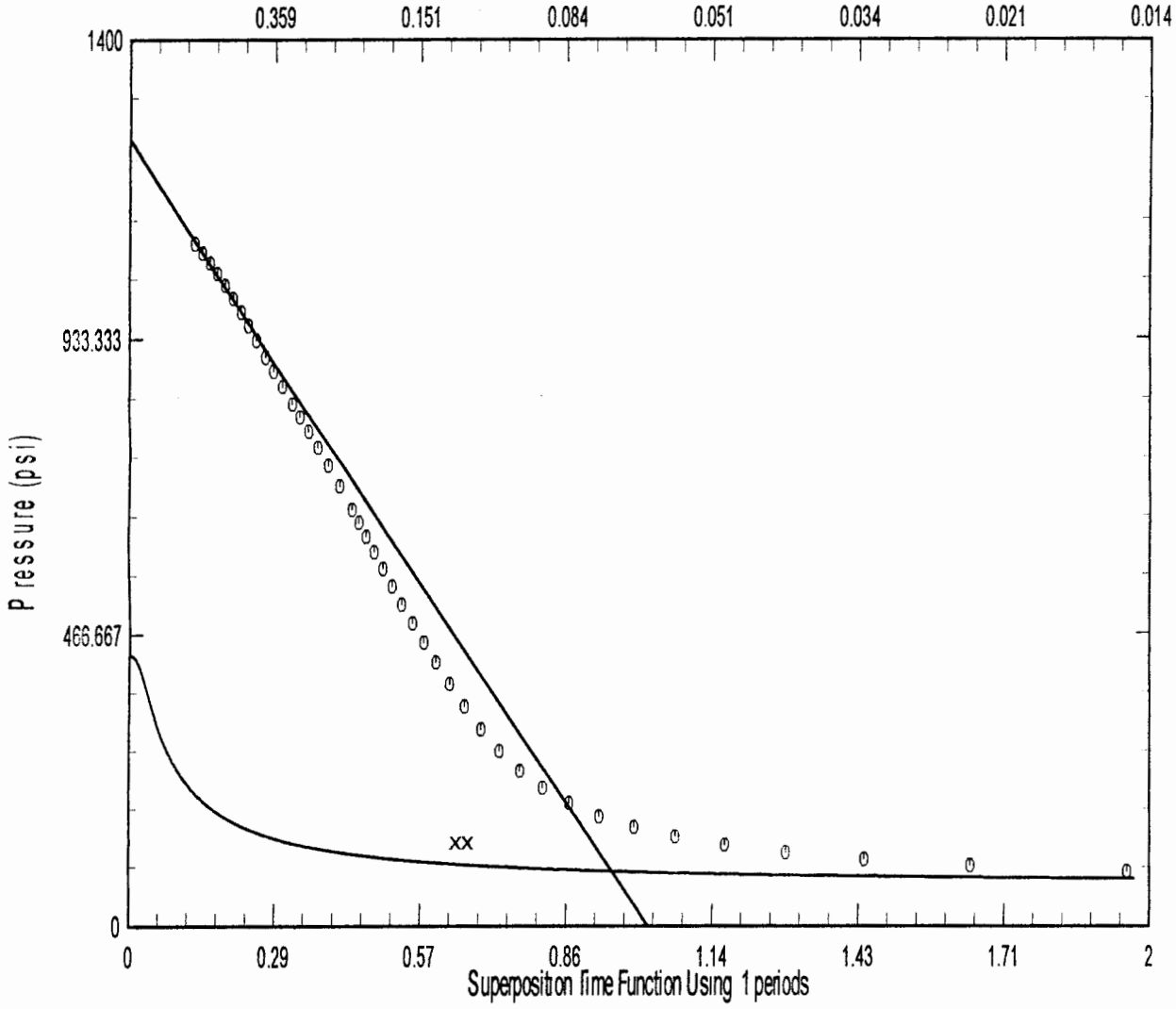
GREAT BEND,KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

1ST SHUT-IN

State ..... KANSAS	***Test Date*** 1/26/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12461



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 6.440E-5 bbl/psi	Skin : 2.12	k : 0.054 md		mu : 2.012 cp
		Est Pi: 435.7 psi		phi : 18.0%
				ct : 2.727E-04 1/psi
				rw : 3.208 ft
				FVF : 2.07

Field :		**Date Printed:**	01/26/04 06:44:10
County or Parish :		**Analysis Period :**	1ST SHUT-IN
State :		**Comment :**	Line #

Superposition Slope -> m'	-1222.433000
Horner Slope -> m	-2444.866211
Intercept	1244.101
P(dt=1 hr)	1103.385
Pwf	71.910
R Sqr	0.9951
k (md)	0.05527
kh (md-ft)	0.55270
k/u (md/cp)	0.02747
kh/uB (md-ft/cp)	0.13301
Skin	2.203
DP Skin	4686.118
Total DP	1172.191
Percent DP	399.77%
Radius Invest (ft)	1
Radius Time (hrs)	1.00
Delta Q =	2
h (ft)=	10
mu =	2.012
B =	2.065
First Point #	51
Second Point #	112
Start Real Time	0.417
End Real Time	0.925
Start SF Time	0.254

SUPERIOR TESTERS ENTERPRISES INC.

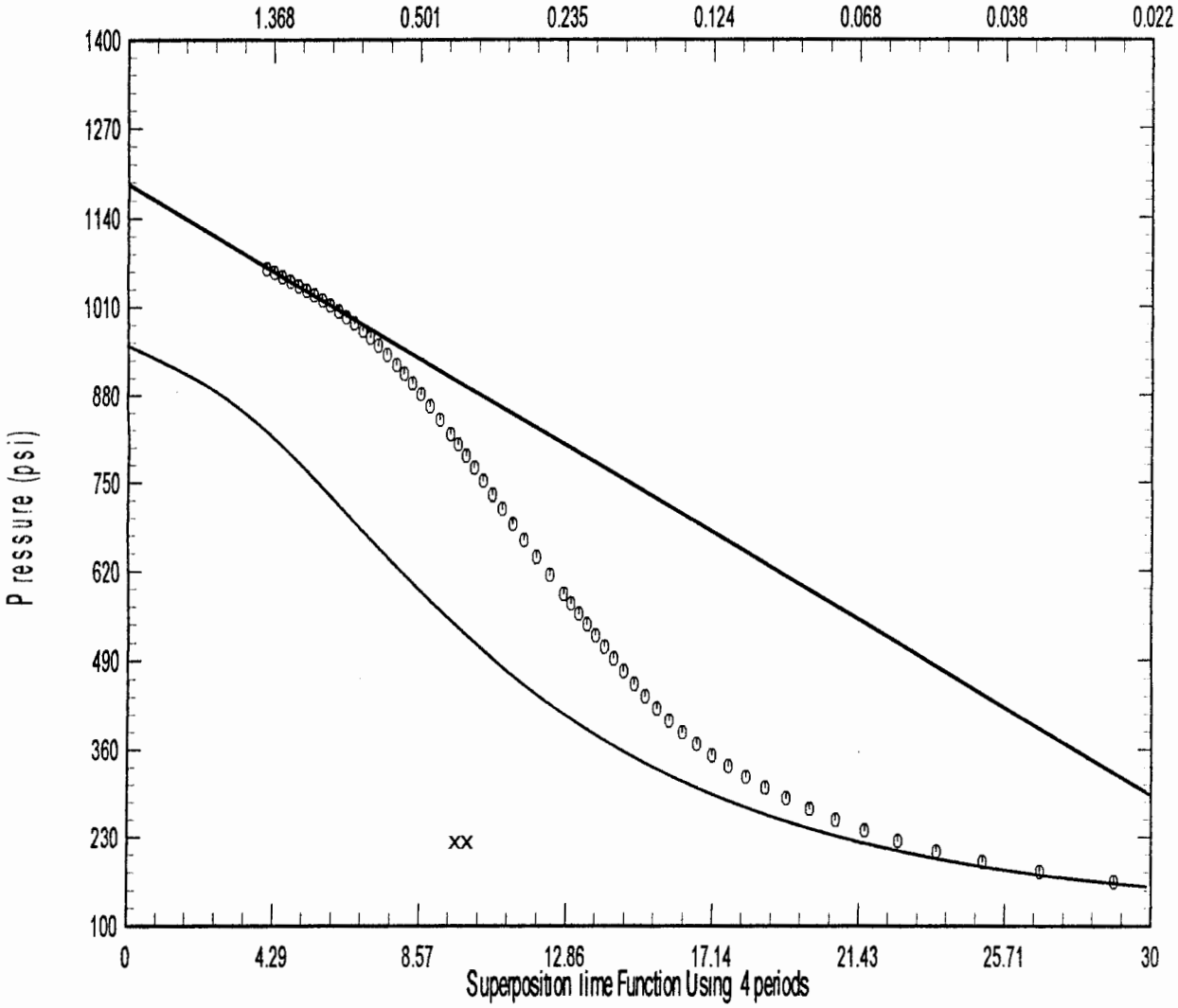
GREAT BEND,KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State ..... KANSAS	***Test Date*** 1/26/2004
County ..... STAFFORD	***Sec Town Range*** 7-21S-12W
Field	***Report Number*** 12461



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 10 ft
C1 : 8.080E-4 bbl/psi	Skin : 1.88	k : 2.583 md		mu : 2.012 cp
		Est Pi: 953.7 psi		phi : 18.0%
				ct : 2.727E-04 1/psi
				rw : 3.208 ft
				FVF : 2.07

Field :		**Date Printed:**	01/26/04 06:46:17
County or Parish :		**Analysis Period :**	2ND SHUT-IN
State :		**Comment :**	Line #

Superposition Slope -> m'	-29.909340
Horner Slope -> m	-535.078023
Intercept	1189.583
P(dt=1 hr)	1027.319
Pwf	123.960
R Sqr	0.9973
k (md)	2.25894
kh (md-ft)	22.58942
k/u (md/cp)	1.12262
kh/uB (md-ft/cp)	5.43643
Skin	1.806
DP Skin	840.719
Total DP	1065.623
Percent DP	78.89%
Radius Invest (ft)	6
Radius Time (hrs)	1.49
Delta Q =	18
h (ft)=	10
mu =	2.012
B =	2.065
First Point #	96
Second Point #	178
Start Real Time	0.792
End Real Time	1.475
Start SF Time	6.388