

15.185.23069.0000

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15-185-230690000

County Stafford  
160' N. of SE - NE Sec. 3 Twp. 21 S Rge. 11 X W

Operator: License # 5056  
Name: F.G.HOLL CO., L.L.C.  
Address 6427 E.Kellogg  
P.O.Box 780167  
City/State/Zip Wichita, KS 67278-0167

1490 Feet from (N) (circle one) Line of Section  
990 Feet from (E) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(NE) SE, NW or SW (circle one)

Purchaser: NCRA  
Operator Contact Person: Elwyn H. Nagel  
Phone (316) 684-8481

Lease Name Snider Well # 2-3

Field Name Snider

Producing Formation NA

Elevation: Ground 1763' KB 1772'

Total Depth 3410' PBDT 2626'

Contractor: Name: Sterling Drilling Co.  
License: 5142  
Wellsite Geologist: Franklin R. Greenbaum

Amount of Surface Pipe Set and Cemented at. 261 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cmt.

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expt., Cathodic, etc)

Drilling Fluid Management Plan A.H.L. 7-29-98 U.C.  
(Data must be collected from the Reserve Pit)

If Workover: KANSAS CORPORATION COMMISSION

Chloride content NA ppm Fluid volume 640 bbls

Dewatering method used no free fluids recovered.

Location of fluid disposal if hauled offsite:

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter Sec. Twp. S Rng. E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD \_\_\_\_\_  
Plug Back \_\_\_\_\_ PBDT \_\_\_\_\_  
Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) Docket No. \_\_\_\_\_  
12/09/1997 12/16/1997 1/07/1998  
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]  
Title Geologist Date 7/20/1998  
Subscribed and sworn to before me this 21 day of July, 1998.  
Notary Public [Signature]  
Date Commission Expires 4/2/2001

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

DANNY DODD  
Notary Public - State of Kansas  
My Appt. Expires 4/2/2001

Operator Name F.G.HOLL CO., L.L.C. Lease Name Snider Well # 2-3

Sec. 3 Twp. 21S Rge. 11  East  West  
 County Stafford

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run: GR/SL/CN/ZDL  
GR/DIFL GR/ML

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	482	(+1290)
Herrington	1468	( +304)
Topeka	2652	(- 880)
Heebner	2923	(-1151)
Lansing	3065	(-1293)
BKC	3309	(-1537)
Conglomerate	3329	(-1557)
Simpson	3331	(-1559)
Arbuckle	3358	(-1586)
RTD	3410	(-1638)

CASING RECORD

New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/2"	8 3/8"	23#	261'KB	60/40 poz	235 sx	2%gel, 3% CC
Production	7 7/8"	4 1/2"	11#	2762'KB	100 mix, 50/50 Lite	150sx	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2833'-2637', 2352'-54', 2365'-68'	400 gals. 7 1/2% MCA 400 gals. 7 1/2% MCA	2633' 2852'-2368'
	C.I.B.P. at 2626' KB		

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
NA				NA	
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
NA					
Estimated Production Per 24 Hours	Oil Bbls. NA	Gas NA Mcf	Water NA Bbls.	Gas-Oil Ratio NA	Gravity NA

Disposition of Gas: **METHOD OF COMPLETION** Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_



**HALLIBURTON ENERGY SERVICES**  
A Division of Halliburton Company

REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046

Corporate FIN 73-0271280

INVOICE NO.	DATE
308216	12/16/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SNIDER 2-3		STAFFORD		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
PRATT		STERLING DRILLING		SHOWN BELOW	
TICKET DATE		12/16/1997			
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	ROB LONG			COMPANY TRUCK	34694

**ORIGINAL**

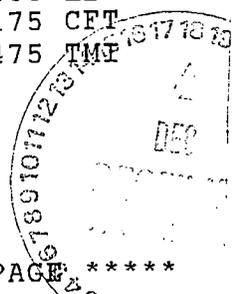
F G HOLL  
P O BOX 158  
BELPRE, KS 67519

DIRECT CORRESPONDENCE TO:  
P O BOX 963  
PRATT KS 67124  
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	90	MI		
		1	UNT		
000-119	MILEAGE FOR CREW	90	MI		
		1	UNT		
001-016	CEMENTING CASING	3000	FT		
		1	UNT		
018-317	SUPER FLUSH	12	SK		
40	CENTRALIZER 4-1/2 X 7-7/8	5	EA		
806.60004					
60	WIPER-ROTØ WALL CLEANER	20	EA		
806.71201					
80	FORM PKR SHOE FLAP VLV 4 1/2"	1	EA		
855.128					
82	FILL-UP UNIT	1	EA		
855.02549					
320	BASKET-CMT-4 1/2 CSG X 18"OD-	1	EA		
806.71415					
019-240	CASING SWIVEL W/WALL CLEANERS	1	EA		
504-130	CEMENT - 50/50 POZMIX STANDARD	100	SK		
504-316	CEMENT - HALL. LIGHT STANDARD	50	SK		
507-153	CFR-3	61	LB		
509-968	SALT	900	LB		
507-210	FLOCELE	25	LB		
508-291	GILSONITE BULK	500	LB		
500-207	BULK SERVICE CHARGE	175	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	315.2475	TMP		

JOB PURPOSE SUBTOTAL

RECEIVED  
KANSAS CORPORATION COMMISSION  
JUL 24 1998  
CONSERVATION DIVISION  
WICHITA, KS



\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

*Rob Long*

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



P.O. BOX 951046  
 DALLAS, TX 75395-1046  
 Corporate FIN 73-0271280

**HALLIBURTON ENERGY SERVICES**  
 A Division of Halliburton Company

INVOICE NO.	DATE
308097	12/09/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SNIDER 2-3		STAFFORD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
PRATT	STERLING DRILLING	SHOWN BELOW			12/09/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	V. L. THOMPSON			COMPANY TRUCK	34378

**ORIGINAL**

F G HOLL  
 P O BOX 158  
 BELPRE, KS 67519

DIRECT CORRESPONDENCE TO:  
 P O BOX 963  
 PRATT KS 67124  
 316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	90	MI		
		1	UNT		
000-119	MILEAGE FOR CREW	90	MI		
		1	UNT		
001-016	CEMENTING CASING	300	FT		
		1	UNT		
030-503	WOODEN PLUG	8	5/8 IN		
		1	EA		
504-136	CEMENT - 40/60 POZMIX STANDARD	235	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK		
500-207	BULK SERVICE CHARGE	247	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	446.42	TMI		

**RECEIVED**  
 KANSAS CORPORATION COMMISSION

JUL 24 1998

CONSERVATION DIVISION  
 WICHITA, KS

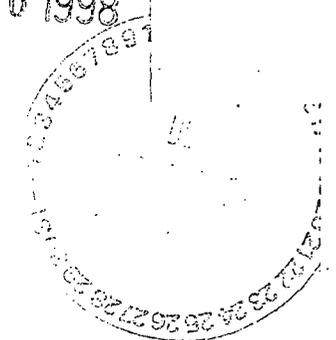
JOB PURPOSE SUBTOTAL

INVOICE SUBTOTAL

DISCOUNT-(BID)  
 INVOICE BID AMOUNT

- \*-KANSAS STATE SALES TAX
- \*-PRATT COUNTY SALES TAX

ENTD JAN 6 1998



**INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>**

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

1775 K.B.

Date 12-13-97 Location 1490 KAL. E 920<sup>W</sup> FEL 3-7<sup>W</sup> Elevation 1746 CL. County STAFFORD

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

Charts Mailed to 6427 East Kellogg P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Steering Drilling Rig #4

Length Drill Pipe 2510 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 540 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H.

Top Packer Depth 3071 Bottom Packer Depth 3076 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3076 TO 3155 ANCHOR LENGTH 79 TOTAL DEPTH 3155 Hole Size 7 7/8"

LEASE & WELL NO. SNIPPER# 2-3 FORMATION TESTED KANSAS CITY "A-H" TEST NO. 1

Mud Weight 9.3 Viscosity 46 Water Loss 9.4 Chlorides - Pits 5000 D.S.T. \_\_\_\_\_

Maximum Temp. \_\_\_\_\_ °F Initial Hydrostatic Pressure (A) 1531 P.S.I. Final Hydrostatic Pressure (H) 1519 P.S.I.

Tool Open I.F.P. from 7:10 P.m to 7:40 P.m 30 min

Tool Closed I.C.I.P. from 7:40 P.m to 8:40 P.m 60 min

Tool Open F.F.P. from 8:40 P.m to 9:25 P.m 45 min

Tool Closed F.C.I.P. from 9:25 P.m to 10:55 P.m 90 min

Initial Blow WEAK building blow built to 11 inches into the water

Final Blow Built to the bottom of a 5 Gallon bucket in 1 1/2 minutes BLEAD the blow of C.M.W

Total Feet ~~For~~ covered back as a weak building blow built to the bottom Gravity of Oil \_\_\_\_\_ Corrected

\_\_\_\_ Feet of of the bucket in 42 minutes % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

360 Feet of GAS in the pipe % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

75 Feet of Drill pipe mud in shows of oil % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

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

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

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

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\_\_\_\_ 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 3148 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47441 Depth 3153 Insurance NONE

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

Tool Operator Gene Ludwig

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

NO 12127

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

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

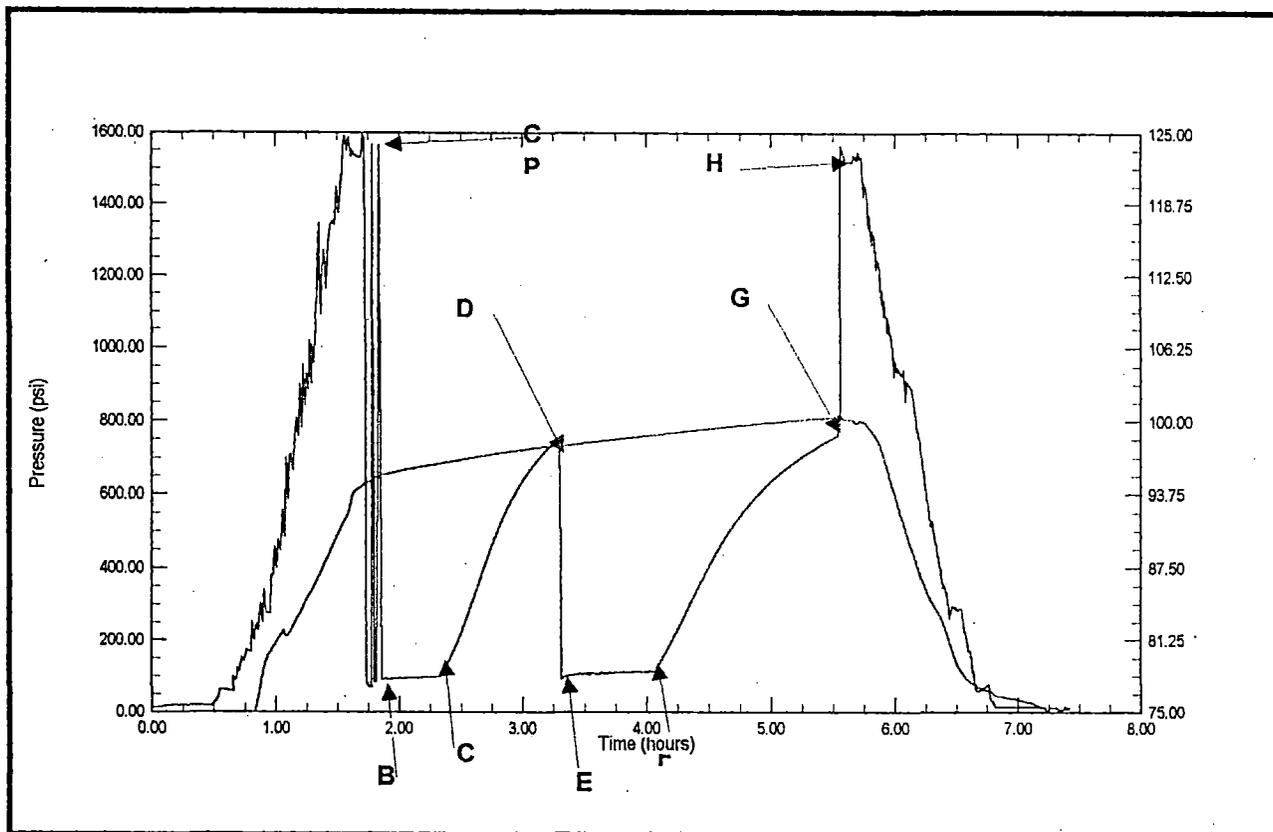
**CHART DATA**

(316) 792-6902

**SNIDER #2-3 KANSAS CITY "A-H"**

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

Test Date ..... December 13, 1997  
 Sec Town Range ..... 1490 FNL & 920 FEL 3  
 Report Number ..... 12127



**Field Reading**

**Office Reading**

	Field Reading	Office Reading
(A)	Initial Hydrostatic Pressure	1531 psi
(B)	Initial Flow Pressure	91 psi
(C)	Final Initial Flow Pressure	110 psi
(D)	Initial Shut-In Pressure	746 psi
(E)	Initial Final Flow Pressure	104 psi
(F)	Final Flow Pressure	112 psi
(G)	Final Shut-In Pressure	756 psi
(H)	Final Hydrostatic Pressure	1519 psi

**ELECTRONIC REECORDER DEPTH3148ft,RECORDER NUMBER78225**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. SNIDER #2-3 Test #: 1 Date: 12-12-1997  
 SEC. 3 TWP.21S RGE. 11W 15-185-23069

# SUPERIOR TESTERS ENTERPRISES INC. DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

## General Information

Test Company Name ..... SUPERIOR TESTERS ENTERPRISES INC.  
Company Name ..... F.G.HOLL COMPANY L.L.C.  
Lease and Well Number ..... SNIDER #2-3  
Formation Tested ..... KANSAS CITY "A-H"  
Test Number ..... 1  
State ..... KANSAS  
County ..... STAFFORD  
Field .....  
Test Date ..... 13-Dec-97  
Section Town Range ..... 1490 FNL & 920 FEL 3-21S-11W  
Report Number ..... 12127  
Elevation Ground Level ..... 1766  
Elevation Kelly Bushings ..... 1775  
Company Representative ..... FRANK GREENBAUM  
Testing Engineer ..... GENE BUDIG

## Extra Equipment

Jars ..... YES  
Safety Joint ..... YES  
Extra Paces ..... No  
Straddle ..... No  
Hook Wall ..... No  
Sampler ..... No  
Circulating Sub ..... No  
Electronic Recorder ..... YES

## Well Information

Drilling Contractor ..... STERLING DRILLING RIG #4  
  
Drill Pipe Length ..... 2510  
Drill Pipe I.D. .... 3.8  
Tool Joint Size ..... 4 1/2 XH  
  
Weight Pipe Length .....  
Weight Pipe I.D. .... 2.76  
Tool Joint Size ..... 4 1/2 X.H.  
  
Drill Collar Length ..... 540  
Drill Collar I.D. .... 2.25  
Tool Joint Size ..... 4 1/2 X.H.  
  
Mud Weight #/gal ..... 9.30  
Viscosity ..... 46.00  
Water Loss ..... 9.6  
Chlorides - Pits ..... 5,000  
Chlorides - DST .....

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

### Tool Setting Information

Top Packer Depth ..... 3071  
Bottom packer Depth ..... 3076  
Number of Packers ..... 2  
Packer Size ..... 6 3/4

Test Interval (from ) ..... 3076  
Test Interval (to) ..... 3155.00  
Anchor Length ..... 79  
Total Depth (ft) ..... 3155  
Hole Size (in) ..... 7 7/8

### Pressure Readings

	<i>Field Reading</i>	<i>Office Reading</i>
Maximum Temp .....	100	
Initial Hydrostatic Pressure .....	1531	
Initial Flow Pressure .....	91	
Final Initial Flow Pressure .....	110	
Initial Shut-In Pressure .....	746	
Initial Final Flow Pressure .....	104	
Final Flow Pressure .....	112	
Final Shut-In Pressure .....	756	
Final Hydrostatic Pressure .....	1519	
Electronic Recorder Depth .....	3148	
Recorder Number .....	78225	
Mechanical Recorder Depth .....	3152	
Recorder Number .....	13561	

### Comments

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

### Flow Times

*Initial Open*

Tool Open (from) ..... 7:10  
 Tool Open (to) ..... 7:40  
 Duration (min) ..... 30

*Initial Shut-in*

Tool Closed (from) ..... 7:40  
 Tool Closed (to) ..... 8:40  
 Duration (min) ..... 60

*Final Open*

Tool Open (from) ..... 8:40  
 Tool Open (to) ..... 9:25  
 Duration (min) ..... 45

*Final Shut-in*

Tool Closed (from) ..... 9:25  
 Tool Closed (to) ..... 10:55  
 Duration (min) ..... 90

### Recovery Description

Initial Blow ..... WEAK BUILDING BLOW BUILT TO 11 INCHES INTO THE WATER

Final Blow ..... GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 1/2 MINUTES BLEAD THE BLOW OFF CAME BACK AS A WEAK BUILDING BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 42 MINUTES

Description	Feet of Recovery	% Gas	% Oil	% Mud	% Water
1) GAS IN THE PIPE	360				
2) GASSY DRILLING MUD NO SHOWS OF OIL	75				
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>Total</b>	435				

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 12-14-1997 Location 1490/ENL E 920/SEL 3-27-11<sup>W</sup> Elevation 1775 LB County Stafford

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

Charts Mailed to 6427 East Kellogg P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 2689 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 33540 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3245 Bottom Packer Depth 3250 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3250 TO 3285 ANCHOR LENGTH 35 TOTAL DEPTH 3285 Hole Size 7 7/8"

LEASE & WELL NO. SWIDER #23 FORMATION TESTED Kansas City TEST NO. 2

Mud Weight 9.4 Viscosity 49 Water Loss 10.4 Chlorides - Pits 12000 D.S.T. 1591

Maximum Temp. 98 °F Initial Hydrostatic Pressure (A) 1616 P.S.I. Final Hydrostatic Pressure (H) \_\_\_\_\_ P.S.I.

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

from [B] <u>41</u> P.S.I. to [C] <u>46</u> P.S.I.
[D] <u>81</u> P.S.I.
from [E] <u>-0-</u> P.S.I. to [F] <u>-0-</u> P.S.I.
[G] <u>-0-</u> P.S.I.

Tool Closed I.C.I.P. from 3:45 P.m. to 4:15 P.m. 30 min

Tool Open F.F.P. from NONE m to TAKEN m 0 min

Tool Closed F.C.I.P. from NONE m to TAKEN m 0 min

Initial Blow WEAK SURFACE BLOW DECREASING

Final Blow NONE TAKEN

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

<u>5</u> Feet of <u>Drilling Mud</u>	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water

Remarks \_\_\_\_\_

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

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 3278 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47441 Depth 3282 Insurance NONE

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

Tool Operator Jane Ludwig

Approved By \_\_\_\_\_  
No 12128

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**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

**CHART DATA**  
**SNIDER #2-3 KANSAS CITY**

(316) 792-6902

State ..... KANSAS

Test Date ..... December 14, 1997

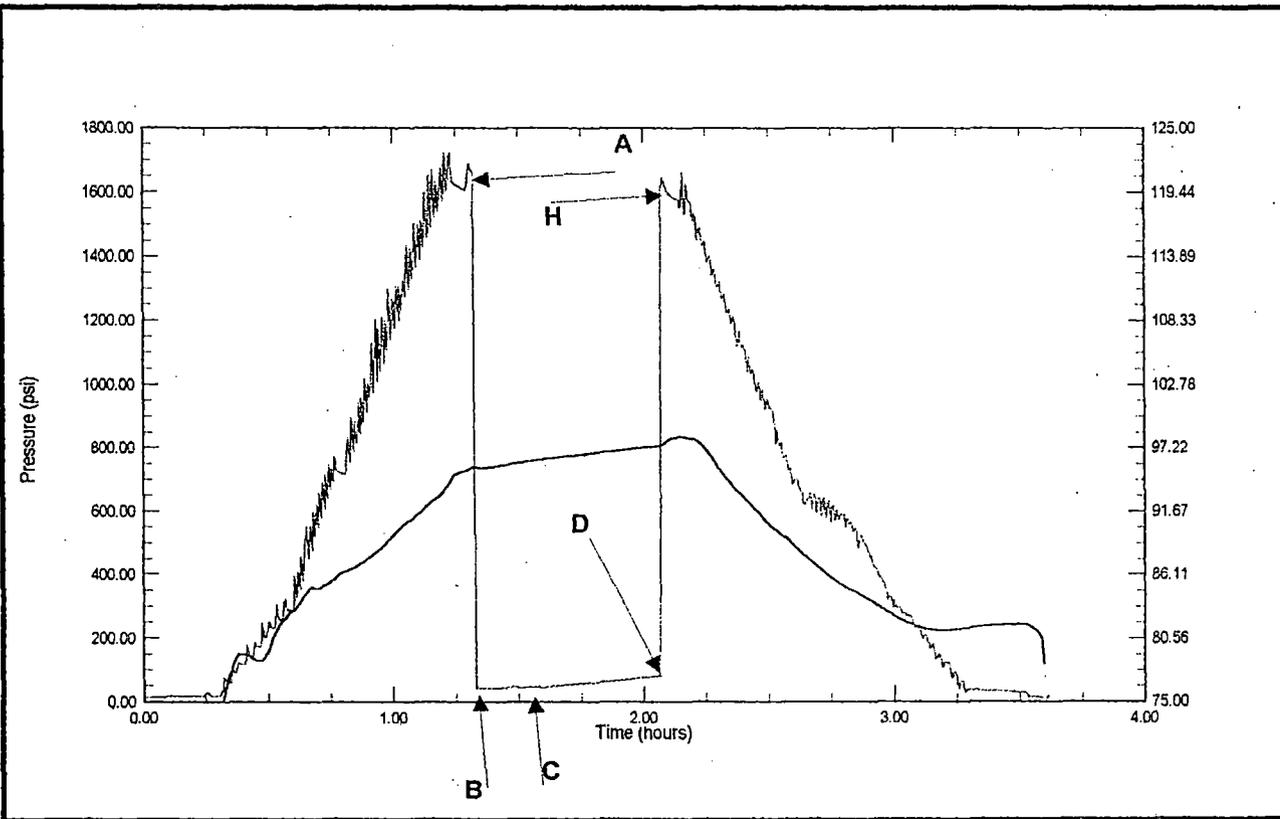
County .....

Sec Town Range ..... January 3, 1900

Field .....

Report Number ..... 21S

Company: **F.G.HOLL COMPANY L.L.C.** Lease & Well No. **SNIDER #2-3** Test #: **2** Date: **12-14-1997**  
 SEC. 3 TWP. 21S RGE. 11W



**Field Reading**

**Office Reading**

(A)	Initial Hydrostatic Pressure	1616	psi
(B)	Initial Flow Pressure	41	psi
(C)	Final Initial Flow Pressure	46	psi
(D)	Initial Shut-In Pressure	81	psi
(E)	Initial Final Flow Pressure	NONE TAKEN	psi
(F)	Final Flow Pressure	NONE TAKEN	psi
(G)	Final Shut-In Pressure	NONE TAKEN	psi
(H)	Final Hydrostatic Pressure	1591	psi

**ELECTRONIC RECORDER DEPTH 3278ft, RECORDER NUMBER 78225**

15-185-23069

# **SUPERIOR TESTERS ENTERPRISES INC.**

## **DRILL STEM TEST REPORT**

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

### **General Information**

Test Company Name ..... SUPERIOR TESTERS ENTERPRISES INC.  
Company Name ..... F.G.HOLL COMPANY L.L.C.  
Lease and Well Number ..... SNIDER #2-3  
Formation Tested ..... KANSAS CITY  
Test Number ..... 2  
State ..... KANSAS  
County ..... STAFFORD  
Field .....  
Test Date ..... 14-Dec-97  
Section Town Range ..... 3-Jan-00  
Report Number ..... 21S  
Elevation Ground Level ..... 11W  
Elevation Kelly Bushings ..... 1775  
Company Representative ..... 1766  
Testing Engineer ..... GENE BUDIG

### **Extra Equipment**

Jars ..... NO  
Safety Joint ..... YES  
Extra Packes ..... No  
Straddle ..... No  
Hook Wall ..... No  
Sampler ..... No  
Circulating Sub ..... No  
Electronic Recorder ..... YES

### **Well Information**

Drilling Contractor ..... STERLING DRILLING RIG #4

Drill Pipe Length ..... 2689  
Drill Pipe I.D. .... 3.8  
Tool Joint Size ..... 4 1/2 XH

Weight Pipe Length .....  
Weight Pipe I.D. .... 2.76  
Tool Joint Size ..... 4 1/2 X.H.

Drill Collar Length ..... 540  
Drill Collar I.D. .... 2.25  
Tool Joint Size ..... 4 1/2 X.H.

Mud Weight #/gal ..... 9.10  
Viscosity ..... 49.00  
Water Loss ..... 10.4  
Chlorides - Pits ..... 12,000  
Chlorides - DST .....

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

### Tool Setting Information

Top Packer Depth ..... 3245  
Bottom packer Depth ..... 3250  
Number of Packers ..... 2  
Packer Size ..... 6 3/4

Test Interval (from ) ..... 3250  
Test Interval (to) ..... 3285.00  
Anchor Length ..... 35  
Total Depth (ft) ..... 3285  
Hole Size (in) ..... 7 7/8

### Pressure Readings

	<i>Field Reading</i>	<i>Office Reading</i>
Maximum Temp .....	98	
Initial Hydrostatic Pressure .....	1616	
Initial Flow Pressure .....	41	
Final Initial Flow Pressure .....	46	
Initial Shut-In Pressure .....	81	
Initial Final Flow Pressure .....	NONE TAKEN	
Final Flow Pressure .....	NONE TAKEN	
Final Shut-In Pressure .....	NONE TAKEN	
Final Hydrostatic Pressure .....	1591	
Electronic Recorder Depth .....	3278	
Recorder Number .....	78225	
Mechanical Recorder Depth .....	3282	
Recorder Number .....	13561	

### Comments

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

### Flow Times

*Initial Open*  
 Tool Open (from) ..... 3:30  
 Tool Open (to) ..... 3:45  
 Duration (min) ..... 15

*Initial Shut-in*  
 Tool Closed (from) ..... 3:45  
 Tool Closed (to) ..... 4:15  
 Duration (min) ..... 30

*Final Open*  
 Tool Open (from) ..... 4:15  
 Tool Open (to) ..... 0:00  
 Duration (min) ..... 0

*Final Shut-in*  
 Tool Closed (from) ..... 0:00  
 Tool Closed (to) ..... 0:00  
 Duration (min) ..... 0

### Recovery Description

Initial Blow ..... WEAK SURFACE BLOW DECREASING

Final Blow ..... none taken

Description	Feet of Recovery	% Gas	% Oil	% Mud	% Water
1) DRILLING MUD	5				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>Total</b>	5				

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 12-14-97 Location 149<sup>th</sup> AVE 9<sup>th</sup> FEL 3-21<sup>S</sup>-11<sup>W</sup> Elevation 1775 K.B. County Stafford  
1766 G.C.

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

Charts Mailed to 6427 East Village Rd. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 2627 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 540 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3182 Bottom Packer Depth 3187 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3187 TO 3285 ANCHOR LENGTH 98 TOTAL DEPTH 3285 Hole Size 7 7/8"

LEASE & WELL NO. SWIDER #2-3 FORMATION TESTED Kansas Ch "H-K" TEST NO. 3

Mud Weight 94 Viscosity 49 Water Loss 10 1/4 Chlorides - Pits 12000 D.S.T. \_\_\_\_\_

Maximum Temp. 104 °F Initial Hydrostatic Pressure (A) 1619 P.S.I. Final Hydrostatic Pressure (H) 1586 P.S.I.

Tool Open I.F.P. from 7:00 p.m. to 7:30 p.m. 30 min  
 Tool Closed I.C.I.P. from 7:30 p.m. to 8:00 p.m. 60 min  
 Tool Open F.F.P. from 8:30 p.m. to 9:00 p.m. 30 min  
 Tool Closed F.C.I.P. from 9:00 p.m. to 10:00 p.m. 60 min

from [B]	<u>78</u>	P.S.I. to [C]	<u>87</u>	P.S.I.
[D]	<u>161</u>			P.S.I.
from [E]	<u>89</u>	P.S.I. to [F]	<u>89</u>	P.S.I.
[G]	<u>157</u>			P.S.I.

Initial Blow WEAK STEADY 1 inch blow

Final Blow WEAK blow built to 1/2 inch DECREASED to a VERY WEAK SURFACE BLOW

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

<u>15</u>	Feet of <u>Drilling Mud with a very slight show of oil between the tools</u>	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water
_____	Feet of _____	% Gas	% Oil	% Mud	% Water

Remarks \_\_\_\_\_

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

Top Recorder No. 7825 Clock No. Electronic Depth 3278 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 1356 Clock No. 4744 Depth 3282 Insurance NONE

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

Tool Operator Steve Fralig

Approved By Steve Fralig No. 12129

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

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

**CHART DATA**

(316) 792-6902

**SNIDER #2-3 KANSAS CITY**

State ..... KANSAS

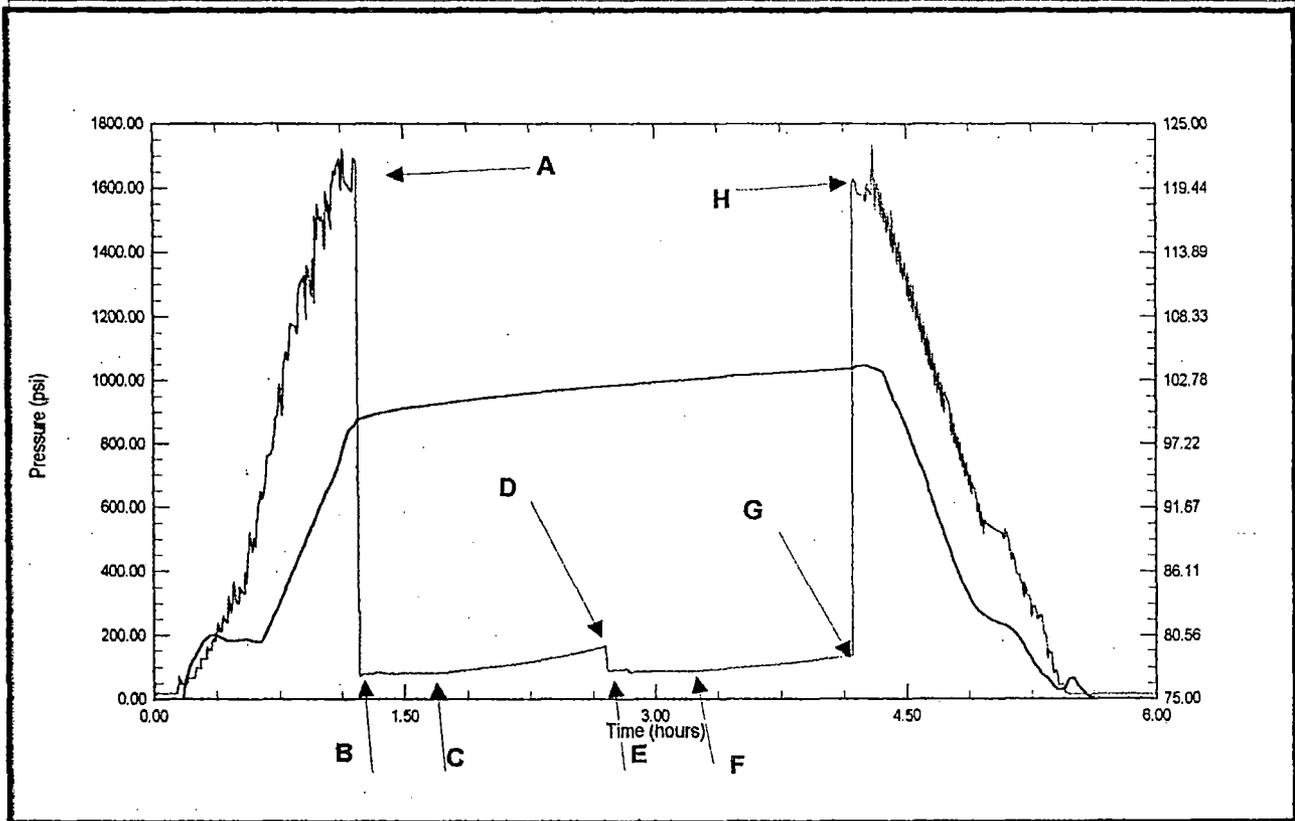
Test Date ..... December 14, 1997

County .....

Sec Town Range ..... 3-21S-11W

Field .....

Report Number ..... 12129



**Field Reading**

**Office Reading**

	Field Reading	Office Reading
(A)	Initial Hydrostatic Pressure	1619 psi
(B)	Initial Flow Pressure	78 psi
(C)	Final Initial Flow Pressure	87 psi
(D)	Initial Shut-In Pressure	161 psi
(E)	Initial Final Flow Pressure	89 psi
(F)	Final Flow Pressure	89 psi
(G)	Final Shut-In Pressure	137 psi
(H)	Final Hydrostatic Pressure	1586 psi

**ELECTRONIC RECORDER DEPTH 3278ft, RECORDER NUMBER 78225**

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. SNIDER #2-3 Test #: 3 Date: 12-14-1997  
 SEC. 3 TWP. 21S RGE. 11W 15-185-23069

# **SUPERIOR TESTERS ENTERPRISES INC.**

## **DRILL STEM TEST REPORT**

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

### **General Information**

Test Company Name ..... SUPERIOR TESTERS ENTERPRISES INC.  
Company Name ..... F.G.HOLL COMPANY L.L.C.  
Lease and Well Number ..... SNIDER #2-3  
Formation Tested ..... KANSAS CITY  
Test Number ..... 3  
State ..... KANSAS  
County ..... STAFFORD  
Field .....  
Test Date ..... 14-Dec-97  
Section Town Range ..... 3-21S-11W  
Report Number ..... 12129  
Elevation Ground Level ..... 11W  
Elevation Kelly Bushings ..... 1775  
Company Representative ..... 1766  
Testing Engineer ..... GENE BUDIG

### **Extra Equipment**

Jars ..... NO  
Safety Joint ..... YES  
Extra Packes ..... No  
Straddle ..... No  
Hook Wall ..... No  
Sampler ..... No  
Circulating Sub ..... No  
Electronic Recorder ..... YES

### **Well Information**

Drilling Contractor ..... STERLING DRILLING RIG #4  
  
Drill Pipe Length ..... 2627  
Drill Pipe I.D. .... 3.8  
Tool Joint Size ..... 4 1/2 XH  
  
Weight Pipe Length .....  
Weight Pipe I.D. .... 2.76  
Tool Joint Size ..... 4 1/2 X.H.  
  
Drill Collar Length ..... 540  
Drill Collar I.D. .... 2.25  
Tool Joint Size ..... 4 1/2 X.H.  
  
Mud Weight #/gal ..... 9.10  
Viscosity ..... 49.00  
Water Loss ..... 10.4  
Chlorides - Pits ..... 12,000  
Chlorides - DST .....

**SUPERIOR TESTERS ENTERPRISES INC.**  
**DRILL STEM TEST REPORT**

GREAT BEND, KANSAS (316)792-6902

**Tool Setting Information**

Top Packer Depth ..... 3182  
Bottom packer Depth ..... 3187  
Number of Packers ..... 2  
Packer Size ..... 6 3/4

Test Interval (from ) ..... 3187  
Test Interval (to) ..... 3285.00  
Anchor Length ..... 98  
Total Depth (ft) ..... 3285  
Hole Size (in) ..... 7 7/8

**Pressure Readings**

	<i>Field Reading</i>	<i>Office Reading</i>
Maximum Temp .....	104	
Initial Hydrostatic Pressure .....	1619	
Initial Flow Pressure .....	78	
Final Initial Flow Pressure .....	87	
Initial Shut-In Pressure .....	161	
Initial Final Flow Pressure .....	89	
Final Flow Pressure .....	89	
Final Shut-In Pressure .....	137	
Final Hydrostatic Pressure .....	1586	
Electronic Recorder Depth .....	3278	
Recorder Number .....	78225	
Mechanical Recorder Depth .....	3282	
Recorder Number .....	13561	

**Comments**

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316) 792-6902

### Flow Times

*Initial Open*

Tool Open (from) ..... 7:00  
 Tool Open (to) ..... 7:30  
 Duration (min) ..... 30

*Initial Shut-in*

Tool Closed (from) ..... 7:30  
 Tool Closed (to) ..... 8:30  
 Duration (min) ..... 60

*Final Open*

Tool Open (from) ..... 8:30  
 Tool Open (to) ..... 9:00  
 Duration (min) ..... 30

*Final Shut-in*

Tool Closed (from) ..... 9:00  
 Tool Closed (to) ..... 10:00  
 Duration (min) ..... 60

### Recovery Description

Initial Blow ..... WEAK STEADY 1 INCH BLOW

Final Blow ..... WEAK BLOW BUILT TO 1/2 INCH INTO THE WATER  
 AND DECREASED TO A VERY WEAK SURFACE BLOW  
 AT THE END OF THE FLOW PERIOD

Description	Feet of Recovery	% Gas	% Oil	% Mud	% Water
1) DRILLING MUD WITH A SLIGHT SHOW OF OIL	15				
2) BETWEEN THE SHUT-IN AND HYDROLIC TOOLS					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>Total</b>	<b>15</b>				

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 12-15-1997 Location 1775 N.E. 7th St 3-21-A Elevation 1766SL County Stafford

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

Charts Mailed to 6427 East Kempco P.O. Box 20167 Wichita Kansas 67278-0167

Drilling Contractor Steeling Drilling Co #4

Length Drill Pipe 2659 I.D. Drill Pipe 380mm Tool Joint Size 4 1/2" A.A.

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

Length Drill Collars 540 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" A.A.

Top Packer Depth 3315 Bottom Packer Depth 3320 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3320 TO 3380 ANCHOR LENGTH 60 TOTAL DEPTH 3380 Hole Size 7 7/8"

LEASE & WELL NO. SWIDER # 2-3 FORMATION TESTED Arbuckle TEST NO. 4

Mud Weight 9.3 Viscosity 47 Water Loss 11.4 Chlorides - Pits 12000 D.S.T.

Maximum Temp. 98 °F Initial Hydrostatic Pressure (A) 1705 P.S.I. Final Hydrostatic Pressure (H) 1630 P.S.I.

Tool Open I.F.P. from 2:30 pm to 2:45 pm 15 min from [B] 59 P.S.I. to [C] 60 P.S.I.

Tool Closed I.C.I.P. from 2:45 pm to 3:15 pm 30 min [D] 368 P.S.I.

Tool Open F.F.P. from 3:15 pm to 3:30 pm 15 min from [E] 64 P.S.I. to [F] 66 P.S.I.

Tool Closed F.C.I.P. from 3:30 pm to 4:00 pm 30 min [G] 232 P.S.I.

Initial Blow VERY WEAK SURFACE blow for 8 minutes & died

Final Blow No blow - FLUSHED tool Cool SURGE - No help

Total Feet Recovered 30 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

Feet of	% Gas	% Oil	% Mud	% Water
<u>30</u> Feet of <u>Drilling Mud</u>				
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water
_____ Feet of _____	% Gas	% Oil	% Mud	% Water

Remarks \_\_\_\_\_

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

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 3374 Cir. Sub. NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47141 Depth 3377 Insurance NONE

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

Tool Operator Gene Durig

Approved By \_\_\_\_\_ No. 12130

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

**SUPERIOR TESTERS ENTERPRISES INC.**

Great Bend, Kansas

**CHART DATA**

(316) 792-6902

**SNIDER #2-3 ARBUCKLE**

State ..... KANSAS

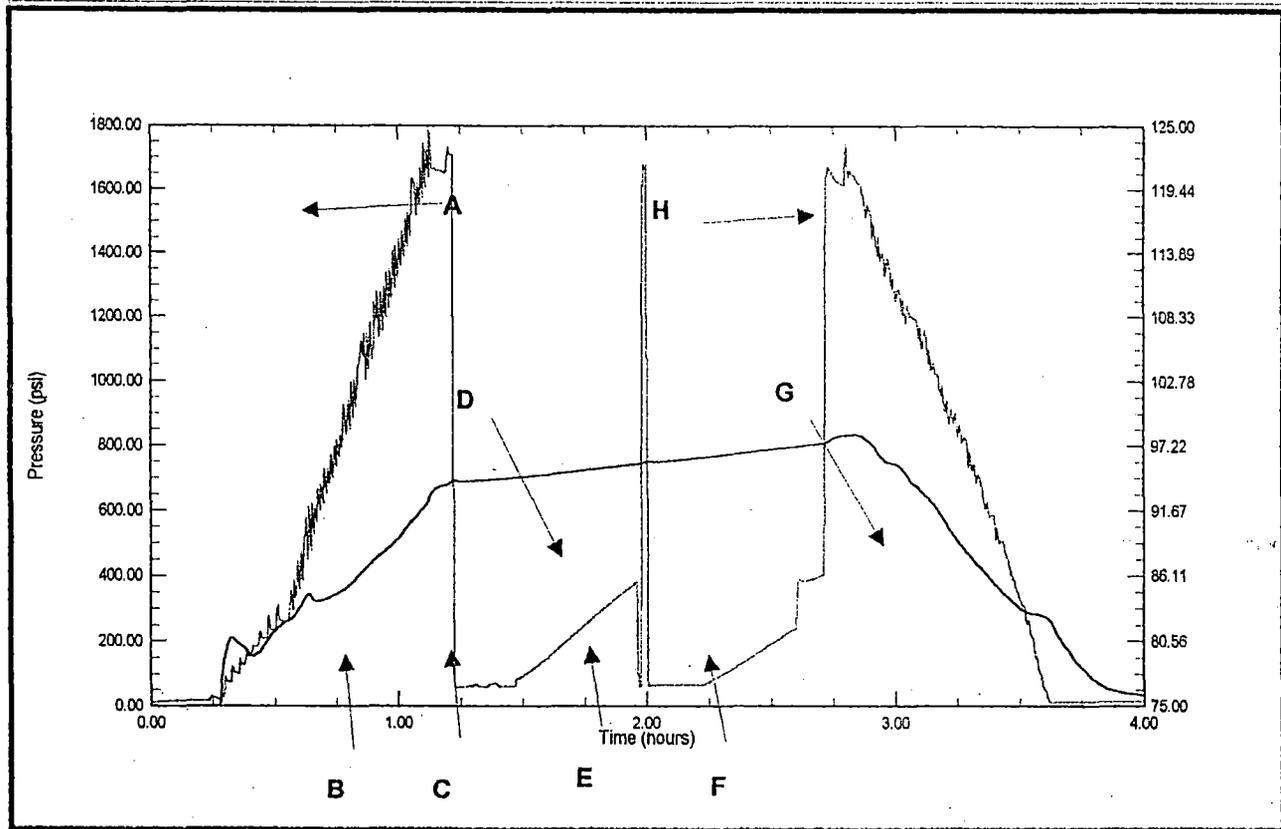
Test Date ..... December 15, 1997

County .....

Sec Town Range ..... 1490 FNL & 920 FEL 3-

Field .....

Report Number ..... 12130



**Field Reading**

**Office Reading**

	Field Reading	Office Reading
(A)	Initial Hydrostatic Pressure	1705 psi
(B)	Initial Flow Pressure	59 psi
(C)	Final Initial Flow Pressure	60 psi
(D)	Initial Shut-In Pressure	368 psi
(E)	Initial Final Flow Pressure	64 psi
(F)	Final Flow Pressure	66 psi
(G)	Final Shut-In Pressure	232 psi
(H)	Final Hydrostatic Pressure	1630 psi

**ELECTRONIC REECORDER DEPTH3374ft,RECORDER NUMBER78225**

Company: F.C.HOL COMPANY L.L.C Lease & Well No. SNIDE 2-3 Test #: 4 Date: 12-15-1997  
 SEC. 3 TWP. 21S RGE. 11W 15-185-23069

# **SUPERIOR TESTERS ENTERPRISES INC.**

## **DRILL STEM TEST REPORT**

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

### **General Information**

Test Company Name ..... SUPERIOR TESTERS ENTERPRISES INC.  
Company Name ..... F.G.HOLL COMPANY L.L.C.  
Lease and Well Number ..... SNIDER #2-3  
Formation Tested ..... ARBUCKLE  
Test Number ..... 4  
State ..... KANSAS  
County ..... STAFFORD  
Field .....  
Test Date ..... 15-Dec-97  
Section Town Range ..... 1490 FNL &920 FEL 3-21S-11W  
Report Number ..... 12130  
Elevation Ground Level ..... 1766  
Elevation Kelly Bushings ..... 1775  
Company Representative ..... FRANK GREENBAUM  
Testing Engineer ..... GENE BUDIG

### **Extra Equipment**

Jars ..... NO  
Safety Joint ..... YES  
Extra Packes ..... No  
Straddle ..... No  
Hook Wall ..... No  
Sampler ..... No  
Circulating Sub ..... No  
Electronic Recorder ..... YES

### **Well Information**

Drilling Contractor ..... STERLING DRILLING RIG #4  
  
Drill Pipe Length ..... 2659  
Drill Pipe I.D. .... 3.8  
Tool Joint Size ..... 4 1/2 XH  
  
Weight Pipe Length .....  
Weight Pipe I.D. .... 2.76  
Tool Joint Size ..... 4 1/2 X.H.  
  
Drill Collar Length ..... 540  
Drill Collar I.D. .... 2.25  
Tool Joint Size ..... 4 1/2 X.H.  
  
Mud Weight #/gal ..... 9.30  
Viscosity ..... 47.00  
Water Loss ..... 11.6  
Chlorides - Pits ..... 12,000  
Chlorides - DST .....

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

### Tool Setting Information

Top Packer Depth ..... 3315  
Bottom packer Depth ..... 3320  
Number of Packers ..... 2  
Packer Size ..... 6 3/4

Test Interval (from ) ..... 3320  
Test Interval (to) ..... 3380.00  
Anchor Length ..... 60  
Total Depth (ft) ..... 3380  
Hole Size (in) ..... 7 7/8

### Pressure Readings

	Field Reading	Office Reading
Maximum Temp .....	98	
Initial Hydrostatic Pressure .....	1705	
Initial Flow Pressure .....	59	
Final Initial Flow Pressure .....	60	
Initial Shut-In Pressure .....	368	
Initial Final Flow Pressure .....	64	
Final Flow Pressure .....	66	
Final Shut-In Pressure .....	232	
Final Hydrostatic Pressure .....	1630	
Electronic Recorder Depth .....	3374	
Recorder Number .....	78225	
Mechanical Recorder Depth .....	3377	
Recorder Number .....	5463	

### Comments

# SUPERIOR TESTERS ENTERPRISES INC.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316) 792-6902

### Flow Times

*Initial Open*

Tool Open (from) ..... 2:30  
 Tool Open (to) ..... 2:45  
 Duration (min) ..... 15

*Initial Shut-in*

Tool Closed (from) ..... 2:45  
 Tool Closed (to) ..... 3:15  
 Duration (min) ..... 30

*Final Open*

Tool Open (from) ..... 3:15  
 Tool Open (to) ..... 3:30  
 Duration (min) ..... 15

*Final Shut-in*

Tool Closed (from) ..... 3:30  
 Tool Closed (to) ..... 4:00  
 Duration (min) ..... 30

### Recovery Description

Initial Blow ..... VERY WEAK SURFACE BLOW FOR 8 MINUTES AND DIED

Final Blow ..... NO BLOW-FLUSHED TOOL-GOOD SURGE-NO HELP

Description	Feet of Recovery	% Gas	% Oil	% Mud	% Water
1) DRILLING MUD	30				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
<b>Total</b>	30				