

ORIGINAL

SIDE ONE

NOV 08 1991

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

API NO. 15- 105-20,018-00-00  
County Lincoln FROM CONFIDENTIAL  
C NE NE Sec. 16 Twp. 11S Rge. 9 X East West

4620 Ft. North from Southeast Corner of Section  
660 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name Merrill Nielsen Well # 1

Field Name

Producing Formation

Elevation: Ground 1423' KB 1428'

Total Depth 4080' PBTD

Operator: License # 3818

Name: Charlie Kosarek

Address 1100 NW Loop 410, Suite #611

City/State/Zip San Antonio, TX 78213-2187

Purchaser:

Operator Contact Person: Charlie Kosarek

Phone (512) -377-3214

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Mike Bair

Designate Type of Completion  
X New Well Re-Entry Workover

Oil SWD Temp. Abd.  
Gas Inj Delayed Comp.  
X Dry Other (Core, Water Supply, etc)

If ~~OWO~~ old well info as follows:  
Operator:

Well Name:

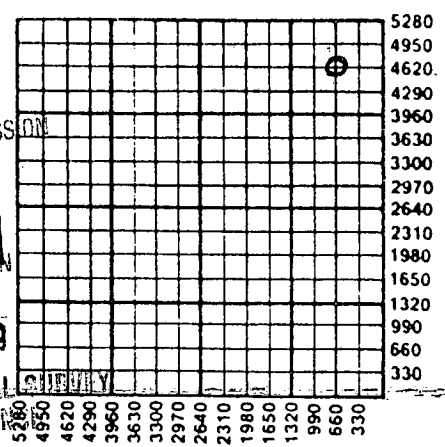
Comp. Date Old Total Depth

Drilling Method:  
X Mud Rotary Air Rotary Cable

10/27/89 11/6/89 11-6-89

Spud Date Date Reached TD Completion Date

RECEIVED  
NOV 27 1989  
NOV 28 1989  
STATE CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
Wichita, Kansas  
KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH



5280  
4950  
4620  
4290  
3960  
3630  
3300  
2970  
2640  
2310  
1980  
1650  
1320  
990  
660  
330  
N  
ALT I  
DFA

Amount of Surface Pipe Set and Cemented at 362 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from feet depth to w/ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Charles Kosarek

Title Owner Date 11-20-89

Subscribed and sworn to before me this 20 day of November, 1989.

Notary Public Kristi V. Hoffmann

Date Commission Expires 03/06/93

K.C.C. OFFICE USE ONLY  
Letter of Confidentiality Attached  
Wireline Log Received  
Drillers Timelog Received  
Distribution  
KEC SWD/Rep NGPA  
KGS Plug Other (Specify)



**SIDE TWO**

Operator Name Charlie Kosarek Lease Name Merrill Nielsen Well # 1  
 Sec. 16 Twp. 11S Rge. 9  East County Lincoln  
 West

**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.)

\* See Geol. report

111081991

**Formation Description**

Log  FROM CONFIDENTIAL Sample

Name	Top	Bottom
Tarkio	2012	
Lansing	2597	
BKC		2920
Miss.	3103	
Viola	3333	
Arbuckle	3632	
Reagan	4044	

**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 1/4	8 5/8	28	362	60/40	175	3% CaCl, 2% gel

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

15-105-20018-00-00

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 10-31-1989 Location C-NE-NE 16-11<sup>S</sup> 9<sup>W</sup> Elevation 14286.6 County LINCOLN

Company CHARLIE KOSAREK Number of Copies 5

Charts Mailed to 1100 Northwest Loop 410 Suite 611 San Antonio TEXAS 78213-2187

Drilling Contractor Emphasis Drilling Rig #5

Length Drill Pipe 2600 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X. N

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

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 2614 Bottom Packer Depth 2619 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2619 TO 2640 ANCHOR LENGTH 21 TOTAL DEPTH 2640 Hole Size 7 7/8

LEASE & WELL NO. Merrill Nielsen #1 FORMATION TESTED KANSAS C. IV TEST NO. 1

Mud Weight 9.7 Viscosity 42 Water Loss 10.8 Chlorides - Pits 11000 D.S.T. \_\_\_\_\_

Maximum Temp. 96 °F Initial Hydrostatic Pressure (A) 1339 P.S.I. Final Hydrostatic Pressure (H) 1324 P.S.I.

Tool Open I.F.P. from 7:00 A.M. to 7:30 A.M. 30 min

Tool Closed I.C.I.P. from 7:30 A.M. to 8:15 A.M. 45 min

Tool Open F.F.P. from 8:15 A.M. to 8:45 A.M. 30 min

Tool Closed F.C.I.P. from 8:45 A.M. to 9:30 A.M. 30 min

Initial Blow VERY WEAK blow through out

Final Blow No Blow

Total Feet Recovered 15 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

15 Feet of Drilling mud % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

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

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

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

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

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

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

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

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

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

Remarks T59077

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

Top Recorder No. 906 Clock No. 47441 Depth 2636 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 2639 Insurance NONE

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

Tool Operator Gene Budig

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

No 10715

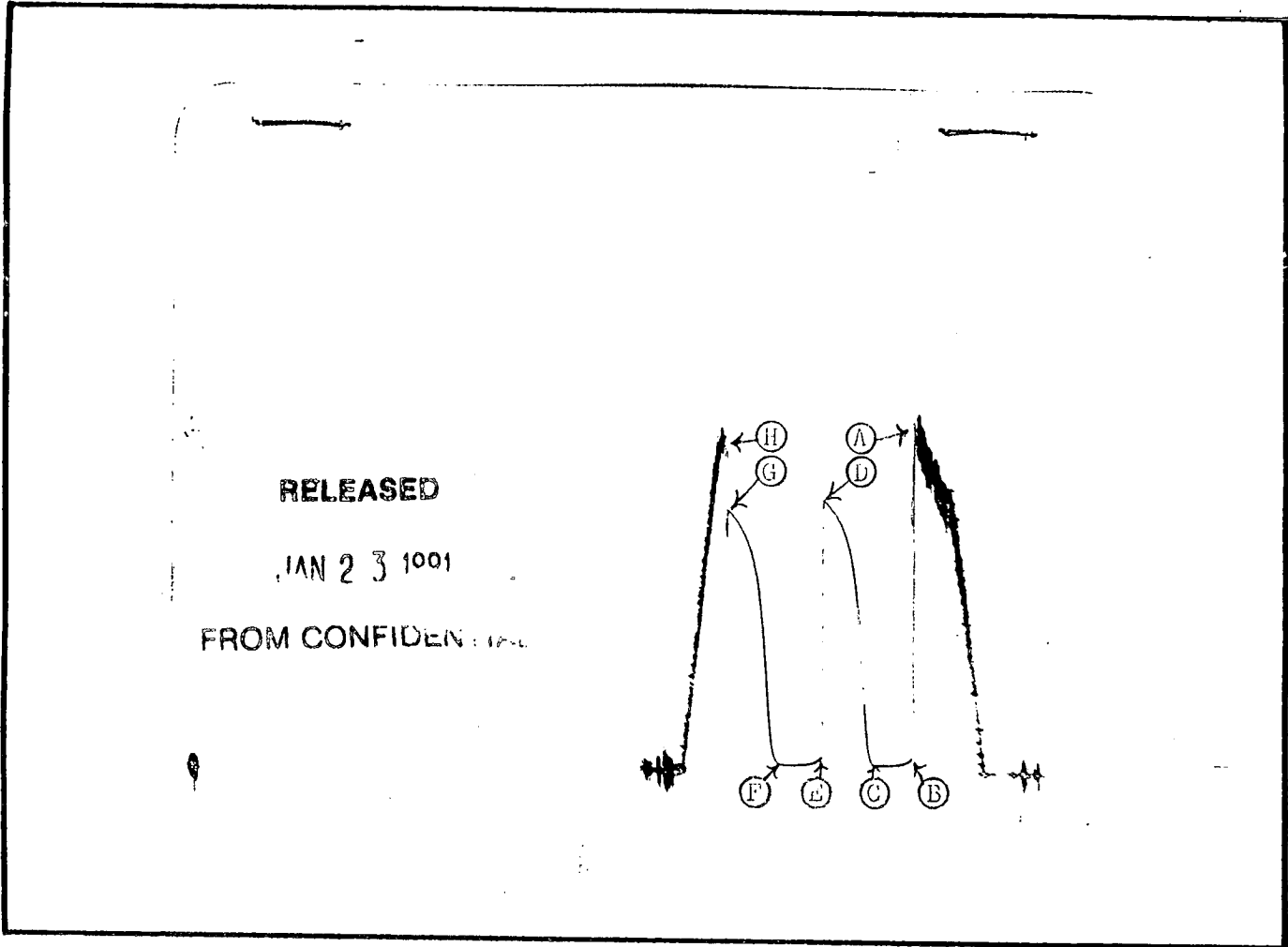
from [B]	<u>50</u>	P.S.I. to [C]	<u>43</u>	P.S.I.
[D]	<u>1080</u>			P.S.I.
from [E]	<u>50</u>	P.S.I. to [F]	<u>43</u>	P.S.I.
[G]	<u>1022</u>			P.S.I.

RELEASED

JAN 23 1991

FROM CONFIDENTIAL

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.



RELEASED  
 JAN 23 1991  
 FROM CONFIDENTIAL

This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	1339	1303	P.S.I.
(B) First Initial Flow Pressure .....	50	55	P.S.I.
(C) First Final Flow Pressure .....	43	25	P.S.I.
(D) Initial Closed-In Pressure .....	1080	1068	P.S.I.
(E) Second Initial Flow Pressure .....	50	55	P.S.I.
(F) Second Final Flow Pressure .....	43	23	P.S.I.
(G) Final Closed-In Pressure .....	1022	1030	P.S.I.
(H) Final Hydrostatic Mud .....	1324	1297	P.S.I.

15-105-20018-00-00

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

OWNER : CHARLIE KOSAREK WELL NAME : HERRILL HILFSEN #1  
ADDRESS : 1100 NW LOOP 410 SUITE 611 LOCATION : C-NE-NE 16-118-9W  
STATE & COUNTY : KANSAS, LINCOLN FIELD :  
ELEV. (GR) : 1423 (KB) : 1428 TEST DATE : 10-31-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY  
TEST INT. KB : 2619 to 2640 DRILL PIPE LENGTH (FE) : 2600  
MUDUR LENGTH (FE) : 21 DRILL PIPE O.D. (in) : 3.42  
TYPE OF TEST : Conventional WEIGHT PIPE LENGTH (FE) :  
HOLE DEPTH (FE-KB) : 2640 WEIGHT PIPE ID : 2.75  
HOLE HOPE SIZE (in) : 7 7/8 DRILL COLLAR LENGTH (FE) :  
HOLE WEIGHT : 9.2 DRILL COLLAR I.D. (in) : 2.259  
MUD VISCOSITY : 42 TOP PACKER DEPTH (KB) : 2614  
MUD CHLORIDES : 11000 BOTTOM PACKER DEPTH (KB) : 2619  
SURFACE CHISEL : 3/4 DUAL PACKERS :  
BOTTOM CHISEL (in) : 3/4 PACKER SIZE (in) : 6 3/4  
HOLE SIZE (O.D.) : 5 1/2 PACKER HOLD : yes  
HOLE HOPE SIZE (F.I.L.) : 4 1/2 TOOL JOBS : No  
RESERVOIR TEMPERATURE (F) : 96 REVERSED OUT : No  
TEST LOGSHEET NUMBER : 10 15

EXTRA EQUIPMENT :

HERRILL SERIAL NO. : 906  
RANGE : 0 20/5 CLOCK RANGE : 12  
CAL. EQU. : 720.06 \* Defl. + 3.83

SURFACE BLUR

1st Opening : VERY WEAK BLUR THROUGH OUT  
2nd Opening : NO BLUR

REMARKS :

For over 15 feet of DRILLING HOLE

REMARKS :

PREPARED BY : MIKE BAIR WELL OPERATOR : GENE PUGH

INTERPRETED BY : SUPERIOR TESTERS ENTERPRISES INC.

15-105-20018-00-00

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : CHARLIE KOSAREK  
 DATE OF TEST : 10-31-1989  
 DEPTH : 2636.0

WELL NAME : HERRILL NIELSEN #1  
 LOCATION : C-NE-NE 16-11S-09  
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	CALC	PRESSURE PAIG CORR	CORRECTED
TEST NO. #1					
Depth : 2636.0 ft-kb					
7:00 HYDROSTATIC	0.0	1.808	1305.69	3.21	1308.91
7:00 1ST FLOW	0.0	.077	59.28	-3.40	55.88
7:05	5.0	.056	44.16	-3.52	40.64
7:10	10.0	.041	33.36	-3.60	29.75
7:15	15.0	.036	29.75	-3.63	26.12
7:20	20.0	.036	29.75	-3.63	26.12
7:25	25.0	.034	28.31	-3.64	24.67
7:32	32.0	.034	28.31	-3.64	24.67
7:32 END FLOW	0.0	.035	29.03	-3.64	25.40
7:33	3.0	.086	65.76	-3.33	62.44
7:38	6.0	.255	187.45	-2.40	185.05
7:41	9.0	.562	408.50	-1.67	407.84
7:44	12.0	.796	577.00	.65	577.65
7:47	15.0	1.023	740.45	1.93	742.38
7:50	18.0	1.153	834.06	2.66	836.72
7:53	21.0	1.237	894.54	3.14	897.68
7:56	24.0	1.292	934.14	3.45	937.59
7:59	27.0	1.344	971.59	3.74	975.33
8:02	30.0	1.381	998.23	3.93	1002.16
8:05	33.0	1.412	1020.55	3.97	1024.43
8:08	36.0	1.437	1038.55	3.83	1042.39
8:11	39.0	1.459	1054.39	3.80	1058.19
8:14	42.0	1.473	1064.47	3.77	1068.25
8:14 1ST SHUT-IN	0.0	1.473	1064.47	3.77	1068.25
8:14	0.0	.080	61.44	-3.38	58.06
8:14 2ND FLOW	0.0	.077	59.28	-3.40	55.88
8:19	5.0	.063	49.20	-3.48	45.72
8:24	10.0	.046	36.96	-3.57	33.39
8:27	15.0	.039	31.91	-3.61	28.30
8:34	20.0	.031	26.15	-3.66	22.50
8:39	25.0	.031	26.15	-3.66	22.50
8:44	30.0	.032	26.87	-3.65	23.22
8:47	33.0	.032	26.87	-3.65	23.22
8:47 END FLOW	0.0	.032	26.87	-3.65	23.22
8:50	3.0	.097	73.68	-3.27	70.39
8:53	6.0	.236	173.77	-2.50	171.26
8:56	9.0	.479	348.74	-1.13	347.61
8:59	12.0	.765	554.68	.48	555.15
9:02	15.0	.972	703.73	1.64	705.37
9:05	18.0	1.086	785.81	2.29	788.10

15-105-20018-00-00

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : CHARLIE KOSAREK  
DATE OF TEST : 10-31-1989  
DEPTH : 2636.0

WELL NAME : MERRILL NIELSEN #1  
LOCATION : C-NE-NE 16-11S-9W  
SERIAL NO. : 906 /

COMMENTS	TIME min	DEFL. in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 1					
- 9:08	21.0	1.178	852.06	2.80	854.86
- 9:11	24.0	1.244	877.58	3.18	902.76
- 9:14	27.0	1.290	932.70	3.45	936.14
- 9:17	30.0	1.331	962.23	3.67	965.90
- 9:20	33.0	1.363	985.27	3.85	989.11
- 9:23	36.0	1.390	1004.71	3.91	1008.62
- 9:26	39.0	1.415	1022.71	3.87	1026.58
- 9:29	41.0	1.421	1027.03	3.86	1030.89
9:29 ZND SHUT-IN	0.0	1.421	1027.03	3.86	1030.89
ZND HYDROSTATIC	0.0	1.792	1294.17	3.24	1297.41

15-105-20018-00-00  
**Superior Testers Enterprises, Inc.**

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

Date 10-31-1989 Location C-NE-NE 16-11-9" Elevation 1428Kb. County LINCOLN

Company Charlie Kosarek Number of Copies 5

Charts Mailed to 1100 Northwest Loop 410 Suite 611 San Antonio Texas 78213-2187

Drilling Contractor Emphasis Drilling Rig #5

Length Drill Pipe 2640 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/4"

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

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 2656 Bottom Packer Depth 2661 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2661 TO 2709 ANCHOR LENGTH 48 TOTAL DEPTH 2709 Hole Size 7 7/8"

LEASE & WELL NO. Merrill Nielsen #1 FORMATION TESTED KANSAS CITY TEST NO. 2

Mud Weight 9.7 Viscosity 40 Water Loss 12.4 Chlorides - Pits 11000 D.S.T. 67000

Maximum Temp. 106 °F Initial Hydrostatic Pressure (A) 1409 P.S.I. Final Hydrostatic Pressure (H) 1386 P.S.I.

Tool Open I.F.P. from 8:40 P m to 9:10 P m 30 min

Tool Closed I.C.I.P. from 9:10 P m to 9:55 P m 45 min

Tool Open F.F.P. from 9:55 P m to 10:25 P m 30 min

Tool Closed F.C.I.P. from 10:25 P m to 11:25 P m 60 min

Initial Blow FAIR blow Built to the Bottom of a 5 Gallon Bucket in 2 min.

Final Blow FAIR blow Built to the Bottom of a 5 Gallon Bucket in 2 min.

Total Feet Recovered 1950 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

1950 Feet of Slightly muddy water % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

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

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

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

\_\_\_\_\_ Feet of \_\_\_\_\_ **JAN 23 1991** % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ **FROM CONFIDENTIAL** % 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 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 47441 Depth 2703 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 2706 Insurance NONE

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

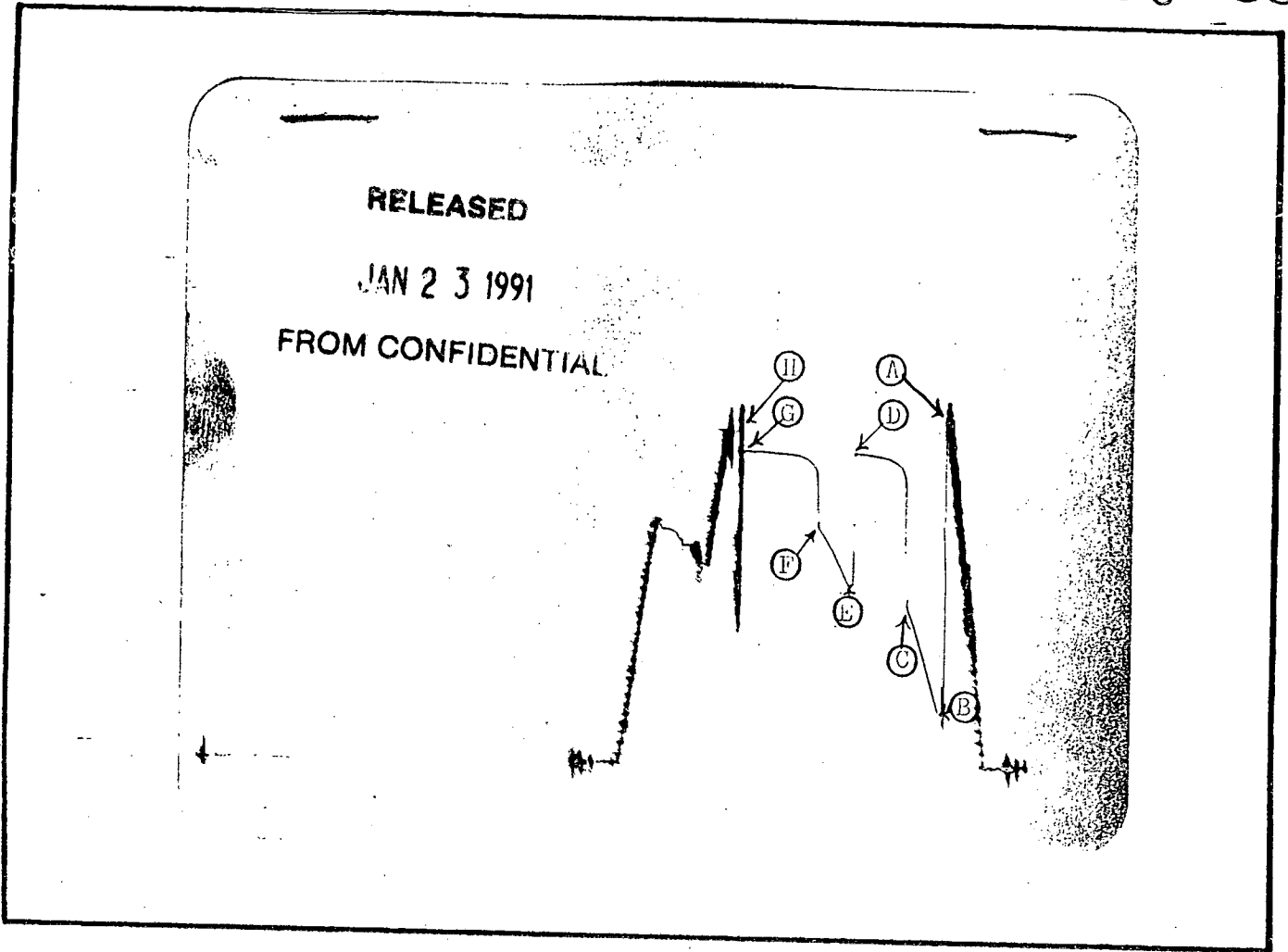
Tool Operator Aene Budig

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

No 10716

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.





RELEASED  
 JAN 23 1991  
 FROM CONFIDENTIAL

This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	1409	1339	P.S.I.
(B) First Initial Flow Pressure .....	159	203	P.S.I.
(C) First Final Flow Pressure .....	630	625	P.S.I.
(D) Initial Closed-In Pressure .....	1231	1232	P.S.I.
(E) Second Initial Flow Pressure .....	718	710	P.S.I.
(F) Second Final Flow Pressure .....	942	941	P.S.I.
(G) Final Closed-In Pressure .....	1231	1237	P.S.I.
(H) Final Hydrostatic Mud .....	1386	1314	P.S.I.

15-105-20018-00-00

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : CHARLIE KOSAREK WELL NAME : MERRILL HIELSEN #1
ADDRESS : 1100 HW LOOP 410 SUITE 611 LOCATION : O DE-HIE 16 118-9W
STATE & COUNTY : KANSAS, LINCOLN FIELD :
TEL. NO. : 1423 (KB) : 1428 TEST DATE : 10-31-1999

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 2649
TEST INT. ID : 2661 to 2707 DRILL PIPE O.D. (in) : 4.82
APPROX. LENGTH(ft) : 48 WEIGHT PIPE LENGTH(ft) :
TYPE OF USE : Conventional WEIGHT PIPE ID : 2.25
TOTAL DEPTH(ft-ks) : 2707 DRILL COLLAR LENGTH(ft) :
HOLE HOPE SIZE (in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.257
HOLE DEPTH : 272 TOP PACKER DEPTH(ks) : 2656
HOLE VELOCITY : 40 BOTTOM PACKER DEPTH(ks) : 2661
HOLE CHLORIDES : 11000 DUAL PACKERS :
SURFACE CHOSE : 3/4 PACKER SIZE (in) : 4 3/4
BOTTOM CHOSE (in) : 3/4 PACKER HOLD : Yes
TOOL SIZE (O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE (I.D.) : 4 1/2 REVERSE) OUT : YES
RESERVOIR TEMPERATURE (F) : 106 TEST TICKET NUMBER : 10176

EXTRA EQUIPMENT : -CIRC. SUB

ELEMENT SERIAL NO. : 706
RANGE : 1 2075 CLOCK RANGE : 12 HOURS
COR. FOU. : -20.06 \* 0.011 \* 1.83

BLEND AND BLOW

1st Opening : FAIR BLOW BOTTOM OF THE PUCKET IN 2 MIN.
2nd Opening : FAIR BLOW BOTTOM OF THE BUCKET IN 2 MIN.

FLOWER

Recovered 1550 feet of SLUSHED : MUDDY WATER-CHLORIDES 67000

REMARKS :

INTERPRED BY : HIRE BAIR TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

15-105-20018-00-00

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : CHARLIE KOSAREK  
 DATE OF TEST : 10-31-1989  
 DEPTH : 2703.0

WELL NAME : HERRILL, NIELSEN #1  
 LOCATION : C-HE-NE 16-11S 9W  
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORP	CORRECTED
TEST NO. 22					
Depth : 2703.0 ft-kb					
1ST HYDROSTATIC	0.0	1.850	1335.94	3.14	1339.08
-8:40 1ST FLOW	0.0	.281	206.17	-2.25	203.92
- 8:45	5.0	.324	237.13	-2.01	235.12
- 8:50	10.0	.447	325.70	-1.31	324.39
- 8:55	15.0	.567	412.10	-.64	411.47
- 9:00	20.0	.686	497.79	.03	497.82
- 9:05	25.0	.790	572.68	.62	573.29
- 9:09	29.0	.862	624.52	1.02	625.54
-9:09 END FLOW	0.0	.862	624.52	1.02	625.54
- 9:12	3.0	1.596	1153.04	3.57	1156.61
- 9:15	6.0	1.636	1181.84	3.50	1185.34
- 9:18	9.0	1.653	1194.08	3.47	1197.56
- 9:21	12.0	1.663	1201.29	3.46	1204.74
- 9:24	15.0	1.672	1207.77	3.44	1211.21
- 9:27	18.0	1.678	1212.09	3.43	1215.52
- 9:30	21.0	1.684	1216.41	3.42	1219.83
- 9:33	24.0	1.687	1218.57	3.42	1221.98
- 9:36	27.0	1.690	1220.73	3.41	1224.14
- 9:39	30.0	1.692	1222.17	3.41	1225.57
- 9:42	33.0	1.693	1224.33	3.40	1227.73
- 9:45	36.0	1.699	1227.21	3.40	1230.60
- 9:48	39.0	1.700	1227.93	3.39	1231.32
- 9:51	42.0	1.701	1228.65	3.39	1232.04
- 9:53	44.0	1.702	1229.37	3.39	1232.76
-9:53 1ST SHUT-IN	0.0	1.702	1229.37	3.39	1232.76
-9:53 2ND FLOW	0.0	.979	708.77	1.68	710.45
- 9:58	5.0	1.013	733.25	1.87	735.12
- 10:03	10.0	1.084	784.37	2.27	786.65
- 10:08	15.0	1.158	837.66	2.69	840.35
- 10:13	20.0	1.215	878.70	3.01	881.71
- 10:18	25.0	1.271	919.02	3.33	922.35
- 10:21	28.0	1.297	937.75	3.47	941.22
-10:21 END FLOW	0.0	1.297	937.75	3.47	941.22
- 10:24	3.0	1.635	1181.12	3.50	1184.63
- 10:27	6.0	1.654	1194.80	3.47	1198.28
- 10:30	9.0	1.670	1206.33	3.44	1209.77
- 10:33	12.0	1.679	1212.81	3.43	1216.24
- 10:36	15.0	1.685	1217.13	3.42	1220.55
- 10:39	18.0	1.689	1220.01	3.41	1223.42
- 10:42	21.0	1.692	1222.17	3.41	1225.57

## SUPERIOR TESTERS ENTERPRISES INC.

## SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : CHARLIE KOSAREK  
 DATE OF TEST : 10-31-1989  
 DEPTH : 2703.0

WELL NAME : HERRILL NIELSEN #1  
 LOCATION : C-NE-NE 15-135-20  
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.: 2					
10:45	24.0	1.694	1223.61	3.40	1227.01
10:48	27.0	1.694	1223.61	3.40	1227.01
10:51	30.0	1.696	1225.05	3.40	1228.45
10:54	33.0	1.699	1227.21	3.40	1230.60
10:57	36.0	1.700	1227.93	3.39	1231.32
11:00	39.0	1.703	1230.09	3.39	1233.48
11:03	42.0	1.705	1231.53	3.39	1234.91
11:06	45.0	1.705	1231.53	3.39	1234.91
11:09	48.0	1.706	1232.25	3.39	1235.63
11:12	51.0	1.706	1232.25	3.38	1235.63
11:15	54.0	1.707	1232.97	3.38	1236.35
11:18	57.0	1.707	1232.97	3.38	1236.35
11:22	61.0	1.708	1233.69	3.38	1237.07
11:22 END SHUT-IN	0.0	1.708	1233.69	3.38	1237.07
END HYDROSTATIC	0.0	1.816	1311.45	3.70	1314.66