

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

API NO. 15- 095-21,650-0000 ORIGINAL

County Kingman
C - SW - SE Sec. 21 Twp. 27S Rge. 10 X W

Operator: License # 30510

660 Feet from Q/M (circle one) Line of Section

Name: SUNRISE OPERATING COMPANY

1980 Feet from Q/W (circle one) Line of Section

Address 8150 North Central Expressway
Suite 645

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

City/State/Zip Dallas, TX 75206

Lease Name McNamee Well # 1-21

Purchaser: _____

Field Name wildcat

Operator Contact Person: Edwin H. Bittner

Producing Formation Mississippian

Phone (214) 696-6916

Elevation: Ground 1718 KB 1727

Contractor: Name: Sterling Drilling Company

Total Depth 4151 PBDT _____

License: 5142

Amount of Surface Pipe Set and Cemented at 270 Feet

Wellsite Geologist: Steve McClain

Multiple Stage Cementing Collar Used? Yes X No _____

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGU
 Dry Other (Core, HSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ ex cat.

If Workover/Re-Entry: old well info as follows:

Drilling Fluid Management Plan ALT 1 8/7 7-15-94
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 33,000 ppm Fluid volume 0 bbls

Well Name: _____

Dewatering method used None

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back _____ PBDT _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name _____

7/2/91 7/8/91 7/25/91
Spud Date Date Reached TD Completion Date

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Ed Bittner

Title President Date 7/16/92

Subscribed and sworn to before me this 16th day of July AUG
19 92.

Notary Public Mary A. Kline

Date Commission Expires 11-7-93

RECEIVED STATE CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
3 1992
Distribution
KCC _____ SWD/Rep _____ NGPA
XGS _____ Plug _____ Other (Specify)

P1

Operator Name Sunrise Operating Company Lease Name McNamee Well # 1-21

Sec. 21 Twp. 27S Rge. 10 East West County Kingman

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	3333	-1606
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Brown Limestone	3496	-1769
List All E.Logs Run:	DUAL INDUCTION	Lansing	3523	-1796
<i>KCC</i>	COMPENSATED DENSITY	BKC	3896	-2169
<i>JH</i>	CEMENT BOND	Miss Chert	4004	-2277
	FORMATION EVALUATION	Miss Limestone Shale	4076	-2349
		Kinderhook Shale	4092	-2365
		TD	4151	-2424

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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 5/8 O.D.	28#/ft.	270 KB	60-40 poz.	225	2% gel, 3%cd
Production	7 7/8"	4 1/2 O.D.	10.5#/ft.	4145 KB	50-50 poz	125	10% salt 5% halad 322 5# Gilsonite

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
3	4006-4020	2000 gm 7.5% mca	4006-4020
		frac with 10,000 # 100 mesh, 50,000 # 10/20 Sandy 20/40 w/ 1000 bgn	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2 3/8	4111	n/a	n/a	

Date of First, Resumed Production, SWD on [in]. 8/22/91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3.34	10	77		34

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Conspinged

Production Interval: _____

Superior Testers Enterprises, Inc.

ORIGINAL

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

(316) 792-6902

Date 7-8-1991 Location C-SW-SE 21-27-10^SW Elevation 1727 KB County KINGMAN

Company SUNRISE OPERATING COMPANY INC. Number of Copies 5

Charts Mailed to 8150 North EXPRESSWAY - Suite 645 - DALLAS TEXAS 75206

Drilling Contractor STERLING Drilling COMPANY Rig #2

Length Drill Pipe 3675 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 333 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4021 Bottom Packer Depth 4026 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4026 TO 4150 ANCHOR LENGTH 124 TOTAL DEPTH 4150 Hole Size 7 1/8

LEASE & WELL NO. McNAMEE # 1-21 FORMATION TESTED Lower Mississippi TEST NO. 2

Mud Weight 9.3 Viscosity 52 Water Loss 10.4 Chlorides - Pits 10000 D.S.T. 33000

Maximum Temp. 128 °F Initial Hydrostatic Pressure (A) 2192 P.S.I. Final Hydrostatic Pressure (H) 2077 P.S.I.

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

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

Tool Open F.F.P. from 8:15 P.m to 9:15 P.m 60 min

Tool Closed F.C.I.P. from 9:15 P.m to 10:45 P.m 90 min

Initial Blow WEAK building blow - built to 8 inches into the water

Final Blow WEAK building blow - built to 6 inches into the water

Total Feet Recovered 160 Gravity of Oil _____ Corrected

350 Feet of Gas in the pipe % Gas _____ % Oil _____ % Mud _____ % Water _____

100 Feet of VERY slightly oil cut mud 0% Gas 2% Oil 50% Mud 48% Water

30 Feet of muddy water with a show of oil 0% Gas 1% Oil 20% Mud 79% Water

30 Feet of muddy water with a trace of oil 0% Gas TRACE% Oil 25% Mud 75% 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 184 _____ % Gas _____ % Oil _____ % Mud _____ % Water

Remarks _____

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

Top Recorder No. 906 Clock No. 47441 Depth 4144 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4147 Insurance NONE

Price of Job _____

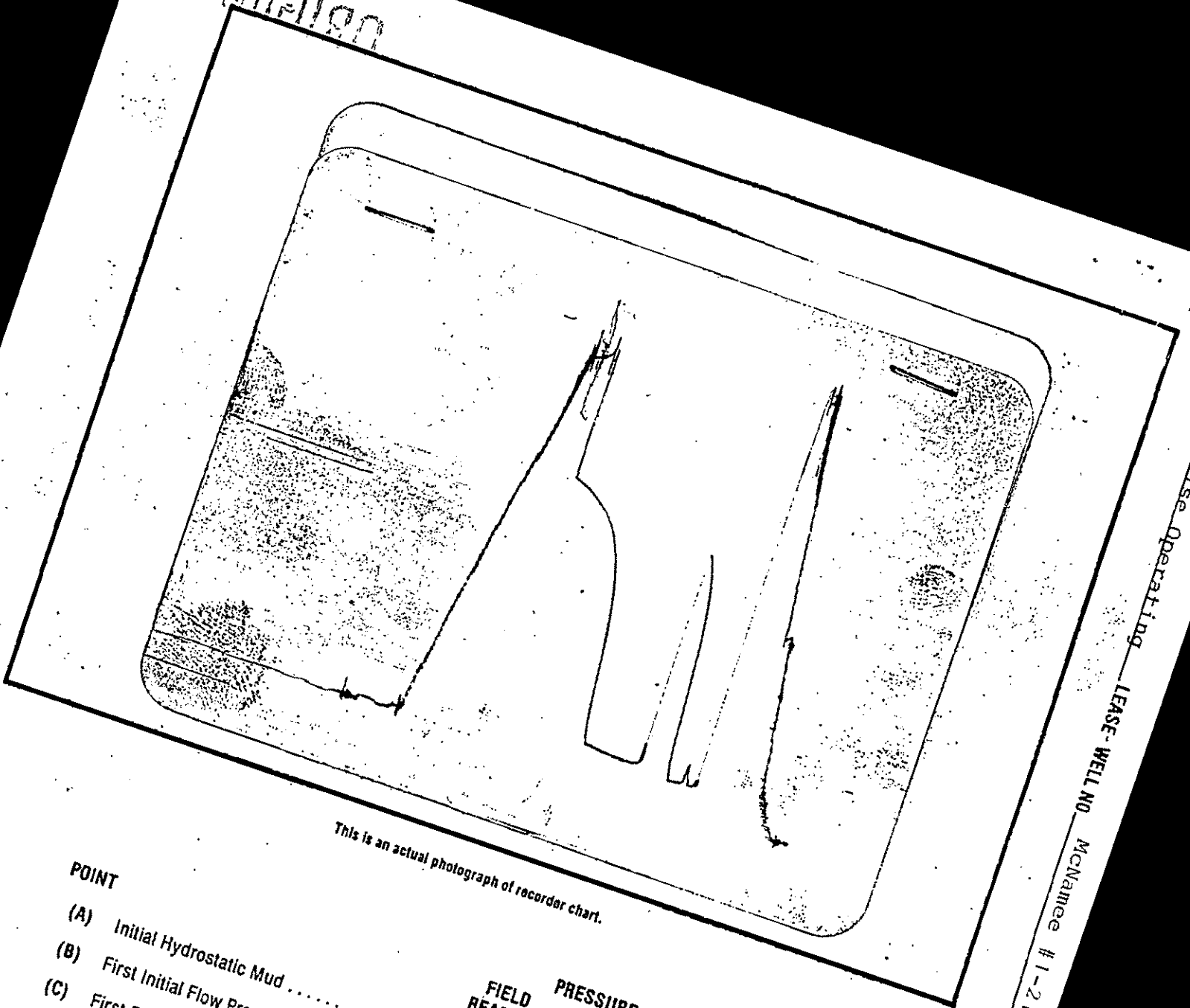
Tool Operator Gene Audy

Approved By _____

No 10914

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.

ORIGINAL



This is an actual photograph of recorder chart.

POINT	FIELD READING	PRESSURE OFFICE READING	P.S.I.
(A) Initial Hydrostatic Mud	2192	2246	P.S.I.
(B) First Initial Flow Pressure	130	126	P.S.I.
(C) First Final Flow Pressure	115	108	P.S.I.
(D) Initial Closed-in Pressure	1288	1277	P.S.I.
(E) Second Initial Flow Pressure	144	141	P.S.I.
(F) Second Final Flow Pressure	159	146	P.S.I.
(G) Final Closed-in Pressure	1432	1419	P.S.I.
(H) Final Hydrostatic Mud	2077	2060	P.S.I.

COMPANY

Surprise Operating

LEASE - WELL NO

McNamee #1-21

SEC

21

TWP

27th RGE

10th

TEST NO

2

DATE

7-8-1951

WELL IDENTIFICATION DATA

ORIGINAL

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 ADDRESS : 8150 N.EXPRESSWAY,DALLAS LOCATION : C-SW-SE 21-27S-10W
 STATE & COUNTY : KANSAS,KINGMAN FIELD :
 ELEV.(GR) : 1718 (KB) : 1727 TEST DATE : 7-8-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI	DRILL PIPE LENGTH(ft) : 3675
TEST INT. KB : 4026 to 4150	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 124	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 4150	DRILL COLLAR LENGTH(ft) : 333
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2	TOP PACKER DEPTH(kb) : 4021
MUD VISCOSITY : 52	BOTTOM PACKER DEPTH(kb) : 4026
MUD CHLORIDES : 10000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 128	TEST TICKET NUMBER : 10914

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
 RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
 CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 8 INCHES INTO THE WATER
 2nd Opening : WEAK BLOW BUILT TO 6 INCHES INTO THE WATER

RECOVERY

Recovered 350 feet of GAS IN THE PIPE
 Recovered 100 feet of VERY SLIGHTLY OIL CUT MUD
 Recovered 30 feet of MUDDY WATER WITH A SHOW OF OIL
 Recovered 30 feet of MUDDY WATER WITH A TRACE OF OIL

REMARKS :

WITNESSED BY : STEVE McCLAIN

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

14110170
SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DEPTH : 4144.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:2					
Depth : 4144.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.115	2246.81	-.40	2246.41
-7:15 1ST FLOW	0.0	.174	129.12	-2.85	126.27
- 7:20	5.0	.167	124.08	-2.89	121.19
- 7:25	10.0	.169	125.52	-2.88	122.64
- 7:30	15.0	.160	119.04	-2.93	116.11
- 7:35	20.0	.153	114.00	-2.97	111.03
- 7:40	25.0	.150	111.84	-2.99	108.85
- 7:45	30.0	.150	111.84	-2.99	108.85
-7:45 END FLOW	0.0	.150	111.84	-2.99	108.85
- 7:48	3.0	.241	177.37	-2.48	174.89
- 7:51	6.0	.447	325.70	-1.31	324.38
- 7:54	9.0	.759	550.36	.44	550.80
- 7:57	12.0	1.062	768.53	2.15	770.68
- 8:00	15.0	1.256	908.22	3.24	911.47
- 8:03	18.0	1.411	1019.83	3.88	1023.71
- 8:06	21.0	1.524	1101.20	3.69	1104.89
- 8:09	24.0	1.614	1166.00	3.54	1169.54
- 8:12	27.0	1.685	1217.13	3.42	1220.55
- 8:15	30.0	1.739	1256.01	3.33	1259.34
- 8:17	32.0	1.764	1274.01	3.29	1277.30
-8:17 1ST SHUT-IN	0.0	1.764	1274.01	3.29	1277.30
-8:17 2ND FLOW	0.0	.195	144.24	-2.73	141.51
- 8:22	5.0	.188	139.20	-2.77	136.43
- 8:27	10.0	.182	134.88	-2.81	132.08
- 8:32	15.0	.178	132.00	-2.83	129.17
- 8:37	20.0	.178	132.00	-2.83	129.17
- 8:42	25.0	.179	132.72	-2.82	129.90
- 8:47	30.0	.180	133.44	-2.82	130.62
- 8:52	35.0	.183	135.60	-2.80	132.80
- 8:57	40.0	.185	137.04	-2.79	134.25
- 9:02	45.0	.188	139.20	-2.77	136.43
- 9:07	50.0	.192	142.08	-2.75	139.33
- 9:12	55.0	.197	145.68	-2.72	142.96
- 9:16	59.0	.202	149.28	-2.69	146.59
-9:16 END FLOW	0.0	.202	149.28	-2.69	146.59
- 9:19	3.0	.291	213.37	-2.19	211.18
- 9:22	6.0	.443	322.82	-1.34	321.48
- 9:25	9.0	.630	457.47	-.28	457.18
- 9:28	12.0	.834	604.36	.87	605.22
- 9:31	15.0	1.008	729.65	1.85	731.49

SUPERIOR TESTERS ENTERPRISES INC.

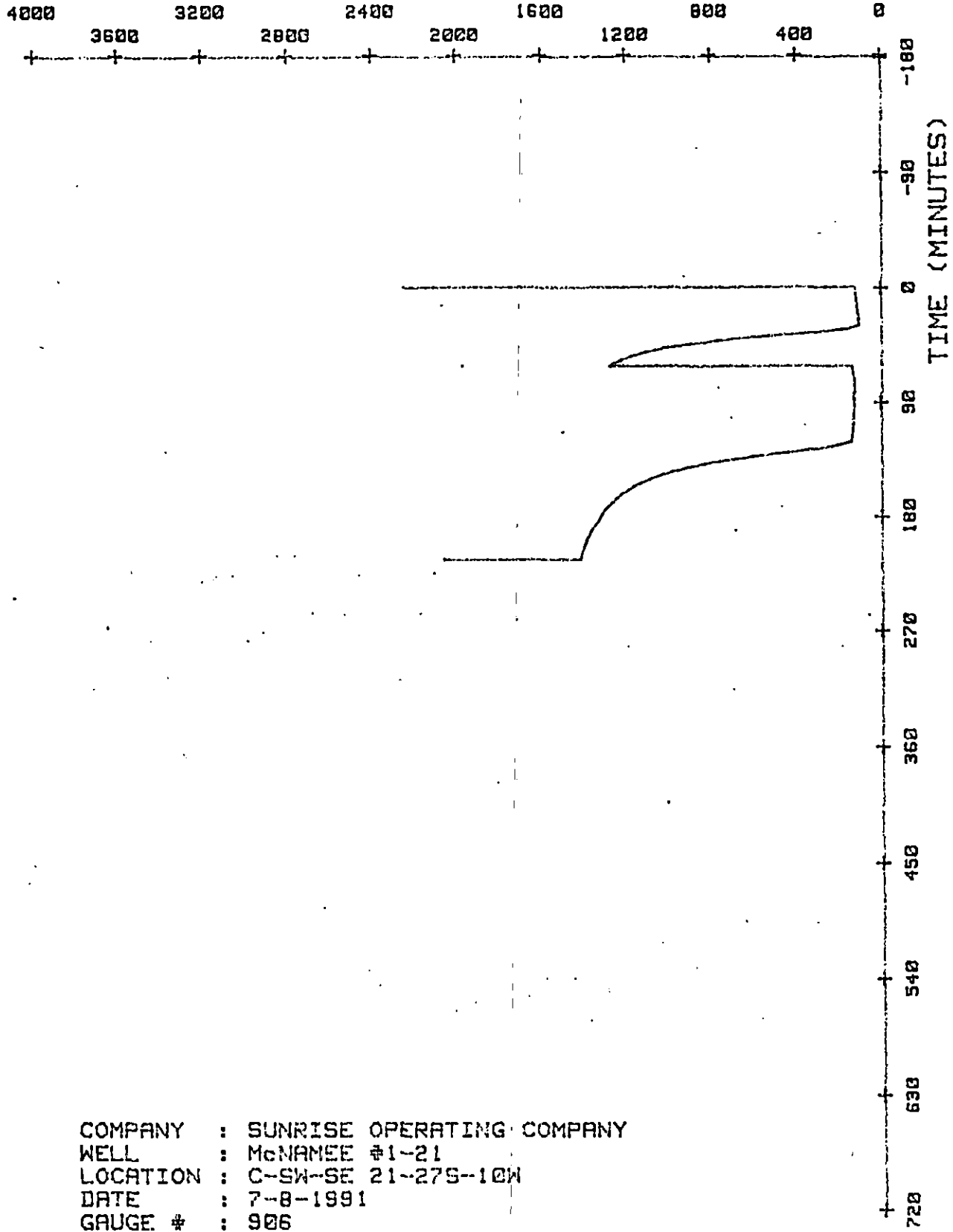
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DEPTH : 4144.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
- 9:34	18.0	1.146	829.02	2.62	831.64
- 9:37	21.0	1.269	917.58	3.32	920.90
- 9:40	24.0	1.356	980.23	3.81	984.03
- 9:43	27.0	1.433	1035.67	3.84	1039.51
- 9:46	30.0	1.500	1083.92	3.73	1087.64
- 9:49	33.0	1.560	1127.12	3.63	1130.75
- 9:52	36.0	1.609	1162.40	3.55	1165.95
- 9:55	39.0	1.651	1192.64	3.48	1196.12
- 9:58	42.0	1.691	1221.45	3.41	1224.86
- 10:01	45.0	1.720	1242.33	3.36	1245.69
- 10:04	48.0	1.746	1261.05	3.32	1264.37
- 10:07	51.0	1.774	1281.21	3.27	1284.48
- 10:10	54.0	1.797	1297.77	3.23	1301.01
- 10:13	57.0	1.815	1310.73	3.20	1313.94
- 10:16	60.0	1.833	1323.69	3.17	1326.87
- 10:19	63.0	1.846	1333.06	3.15	1336.21
- 10:22	66.0	1.864	1346.02	3.12	1349.14
- 10:25	69.0	1.880	1357.54	3.09	1360.63
- 10:28	72.0	1.895	1368.34	3.07	1371.41
- 10:30	74.0	1.901	1372.66	3.06	1375.72
- 10:31	75.0	1.907	1376.98	3.05	1380.03
- 10:34	78.0	1.919	1385.62	3.03	1388.65
- 10:37	81.0	1.928	1392.10	3.01	1395.11
- 10:40	84.0	1.937	1398.58	3.00	1401.58
- 10:43	87.0	1.944	1403.62	2.99	1406.61
- 10:46	90.0	1.952	1409.38	2.97	1412.36
- 10:49	93.0	1.962	1416.58	2.96	1419.54
-10:49 2ND SHUT-IN	0.0	1.962	1416.58	2.96	1419.54
-2ND HYDROSTATIC	0.0	2.856	2060.31	.03	2060.34

ORIGIN

PRESSURE (P S I G)

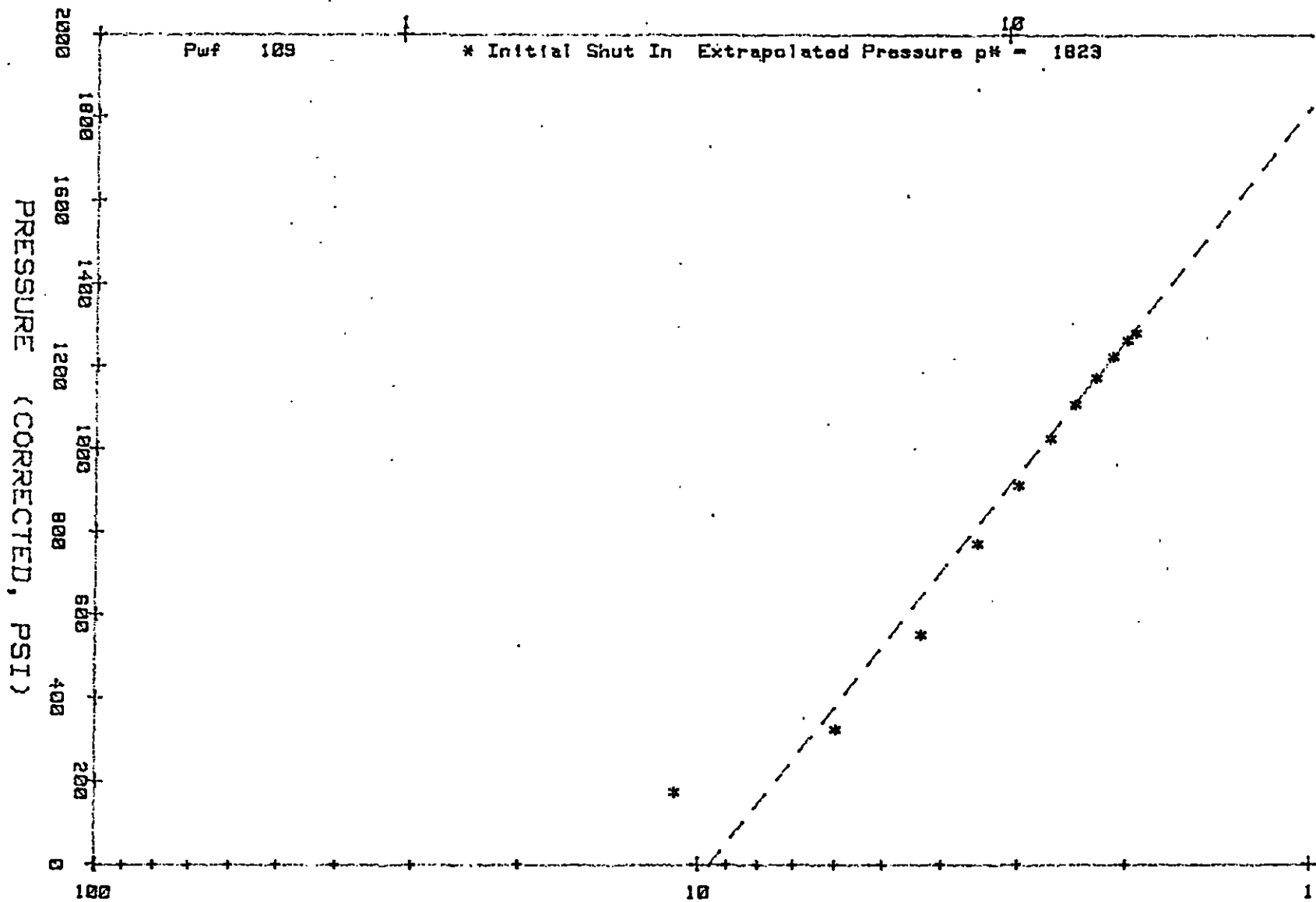


COMPANY : SUNRISE OPERATING COMPANY
WELL : McNAMEE #1-21
LOCATION : C-SW-SE 21-27S-10W
DATE : 7-8-1991
GAUGE # : 906

LOCATION : C-SW-SE 21-27S-10W

DATE : 7-8-1991

GAUGE # : 906



TIME (MINUTES) : (T+dt)/dt - (Semilog scale)

ORIGINAL

441130

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY
WELL NAME : McNAMEE #1-21
LOCATION : C-SW-SE 21-27S-10W
STATE & COUNTY : KANSAS, KINGMAN
DATE OF TEST : 7-8-1991
TEST INT. KB : 4026 to 4150
TOTAL INTERVAL (ft) K.B. : 124.00
ELEV.(GR) : 1718 (KB) : 1727
FIELD :

ELEMENT SERIAL NO. : 906
LATEST CALIBRATION :

Table with 4 columns: COMMENTS, TIME (min), (T+dt)/dt (min), and PRESSURES CORR FSIG. It contains data for flow periods from -7:45 to -8:17.

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
DST. NO : 2 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

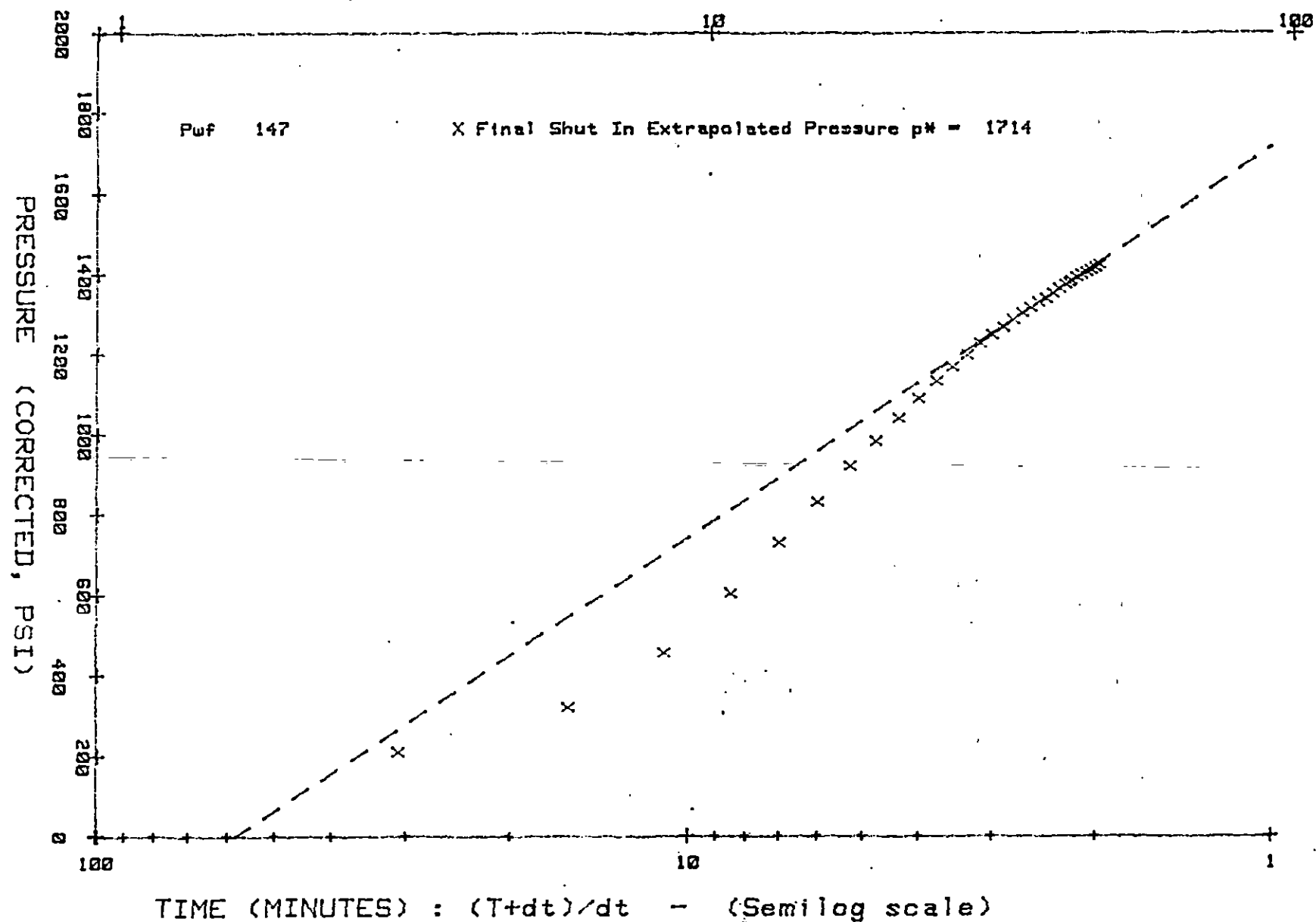
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1823.00
Slope of Build-up Curve (psi/log cycle):	1856.49
Effective Producing Time (min): ,	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

LOCATION : C-SW-SE 21-27S-10W

DATE : 7-8-1991

GAUGE # : 906



SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY
 WELL NAME : McNAMEE #1-21
 LOCATION : C-SW-SE 21-27S-10W
 STATE & COUNTY : KANSAS, KINGMAN
 DATE OF TEST : 7-8-1991
 TEST INT. KB : 4026 to 4150
 TOTAL INTERVAL (ft) K.B. : 124.00
 ELEV.(GR) : 1718 (KB) : 1727
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4144.0 ft-kb		
-9:16 END FLOW	0.00	0.00	146.59
	3.00	31.00	211.18
	6.00	16.00	321.48
	9.00	11.00	457.18
	12.00	8.50	605.22
	15.00	7.00	731.49
	18.00	6.00	831.64
	21.00	5.29	920.90
	24.00	4.75	984.03
	27.00	4.33	1039.91
	30.00	4.00	1088.53
	33.00	3.73	1132.08
	36.00	3.50	1167.63
	39.00	3.31	1198.11
	42.00	3.14	1227.14
	45.00	3.00	1248.19
	48.00	2.88	1267.05
	51.00	2.76	1287.37
	54.00	2.67	1304.06
	57.00	2.58	1317.13
	60.00	2.50	1330.19
	63.00	2.43	1339.62
	66.00	2.36	1352.69
	69.00	2.30	1364.30
	72.00	2.25	1375.18
	74.00	2.22	1379.54
	75.00	2.20	1383.89
	78.00	2.15	1392.60
	81.00	2.11	1399.13
	84.00	2.07	1405.66

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.
 HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 REFERENCE DEPTH : 4144.0 SERIAL NO. : 906

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
	87.00	2.03	1410.74
	90.00	2.00	1416.55
	93.00	1.97	1423.80
-10:49 2ND SHUT-IN	0.00	0.00	1423.80

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DST. NO : 2 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):03
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): 0.00
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 0.00

TOTAL COMPRESSIBILITY (psi⁻¹): 6.94E-06

ESTIMATED DAMAGE RATIO:35

CALCULATED DAMAGE RATIO: 1.23

Reservoir Temperature (F): 128.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

Reservoir Compressibility (psi⁻¹): 4.80E-07

Calculated Skin Factor :35

PRODUCTION WITH DAMAGE REMOVED (bbl/D):23

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 147.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 1.97

Total Flowing Time (min): 90.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1714.00

Slope of Build-up Curve (psi/log cycle): 971.52

Effective Producing Time (min): 90.00

Superior Testers Enterprises, Inc.

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

(316) 792-6902

1718 G.L.

ORIGINAL

Date 7-8-1991 Location C-SW-SE 21-27-10^W Elevation 1727 K.B. County KINGMAN

Company SUNRISE OPERATING COMPANY INC. Number of Copies 5

Charts Mailed to 8150 North EXPRESSWAY - SUITE 145 - DALLAS TEXAS 75206

Drilling Contractor STERLING DRILLING RIG #9

Length Drill Pipe 3663 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 333 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4008 Bottom Packer Depth 4026 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4008 TO 4026 ANCHOR LENGTH 18 TOTAL DEPTH 4150 Hole Size 7 7/8"

LEASE & WELL NO. McNamee #1-21 FORMATION TESTED Mississippi TEST NO. 1

Mud Weight 9.3 Viscosity 52 Water Loss 10.4 Chlorides - Pits 10000 D.S.T. 56000

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 2149 P.S.I. Final Hydrostatic Pressure (H) 2106 P.S.I.

Tool Open I.F.P. from 11:45 A.m to 12:15 A.m 30 min

Tool Closed I.C.I.P. from 12:15 A.m to 12:45 A.m 30 min

Tool Open F.F.P. from 12:45 A.m to 1:45 A.m 60 min

Tool Closed F.C.I.P. from 1:45 A.m to 3:45 A.m 120 min

Initial Blow WEAK building blow-built to 5 inches into the water

Final Blow WEAK building blow-built to 7 inches into the water

Total Feet Recovered 100 Gravity of Oil _____ Corrected

250 Feet of GAS in the Pipe % Gas _____ % Oil _____ % Mud _____ % Water _____

40 Feet of Slightly oil cut mud % Gas 0 % Oil 4 % Mud 60 % Water 36

30 Feet of Slightly muddy water with a trace of oil % Gas 0 % Oil TRAF % Mud 10 % Water 90

30 Feet of Very Slightly oil/mud cut water % Gas 0 % Oil 1 % Mud 29 % Water 70

_____ 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 YES Hook Wall NONE

Top Recorder No. 906 Clock No. 47441 Depth 4018 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4013 Insurance NONE

Price of Job 3 CD 4333 - 18861 - 4127

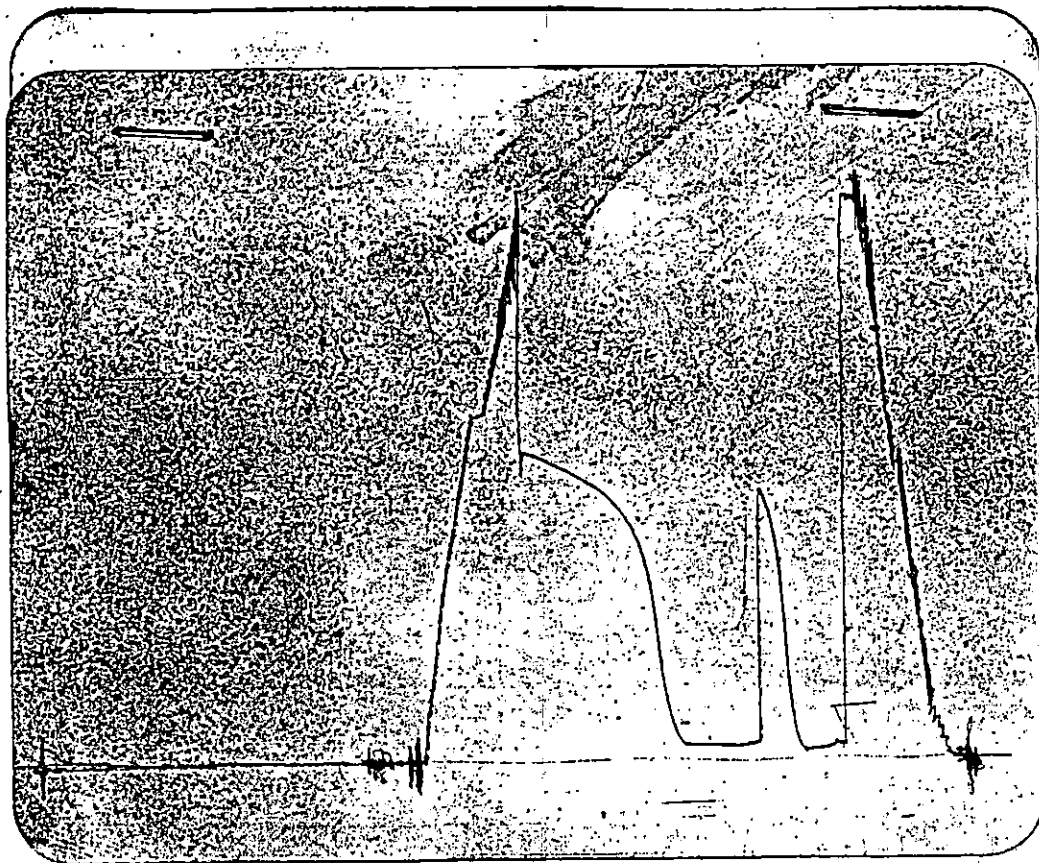
Tool Operator Sam Rudy

Approved By _____

No 10913

from [B] <u>50</u> P.S.I. to [C] <u>43</u> P.S.I.
[D] <u>1044</u> P.S.I.
from [E] <u>72</u> P.S.I. to [F] <u>79</u> P.S.I.
[G] <u>1195</u> P.S.I.

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



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2149	2133	P.S.I.
(B) First Initial Flow Pressure	50	48	P.S.I.
(C) First Final Flow Pressure	43	29	P.S.I.
(D) Initial Closed-in Pressure	1044	1026	P.S.I.
(E) Second Initial Flow Pressure	72	59	P.S.I.
(F) Second Final Flow Pressure	79	47	P.S.I.
(G) Final Closed-in Pressure	1195	1170	P.S.I.
(H) Final Hydrostatic Mud	2106	1934	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 ADDRESS : 8150 N.EXPRESSWAY,DALLAS LOCATION : C-SW-SE 21-27S-10W
 STATE & COUNTY : KANSAS,KINGMAN FIELD :
 ELEV.(GR) : 1718 (KB) : 1727 TEST DATE : 7-8-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI	DRILL PIPE LENGTH(ft) : 3663
TEST INT. KB : 4008 to 4026	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 18	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4150	DRILL COLLAR LENGTH(ft) : 333
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.2	TOP PACKER DEPTH(kb) : 4008
MUD VISCOSITY : 52	BOTTOM PACKER DEPTH(kb) : 4026
MUD CHLORIDES : 10000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL FLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 128	TEST TICKET NUMBER : 10913

EXTRA EQUIPMENT : -JARS -SAFETY JOINT
 -STRADDLE

ELEMENT SERIAL NO. : 906
 RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
 CAL. EQU. : 720.06 * Defl. + 3.83

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 5 INCHES INTO THE WATER
 2nd Opening : WEAK BLOW BUILT TO 7 INCHES INTO THE WATER

RECOVERY

Recovered 250 feet of GAS IN THE PIPE
 Recovered 40 feet of SLIGHTLY OIL CUT MUD
 Recovered 30 feet of SLIGHTLY MUDDY WATER WITH A TRACE OF OIL
 Recovered 30 feet of VERY SLIGHTLY OIL AND MUD CUT WATER

REMARKS :

WITNESSED BY : STEVE McCLAIN TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DEPTH : 4018.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:1					
Depth : 4018.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.958	2133.76	-.14	2133.62
- 0:00	0.0	.006	8.15	-3.80	4.35
-11:45 1ST FLOW	0.0	.066	51.36	-3.46	47.90
- 11:50	5.0	.066	51.36	-3.46	47.90
- 11:55	10.0	.051	40.56	-3.55	37.01
- 12:00	15.0	.046	36.96	-3.57	33.38
- 12:05	20.0	.041	33.36	-3.60	29.75
- 12:10	25.0	.040	32.63	-3.61	29.03
- 12:15	30.0	.040	32.63	-3.61	29.03
-12:15 END FLOW	0.0	.040	32.63	-3.61	29.03
- 12:18	3.0	.062	48.48	-3.48	44.99
- 12:21	6.0	.135	101.04	-3.07	97.97
- 12:24	9.0	.268	196.81	-2.32	194.48
- 12:27	12.0	.491	357.38	-1.07	356.31
- 12:30	15.0	.755	547.47	.42	547.90
- 12:33	18.0	1.007	728.93	1.84	730.77
- 12:36	21.0	1.149	831.18	2.64	833.82
- 12:39	24.0	1.253	906.06	3.23	909.29
- 12:42	27.0	1.320	954.31	3.60	957.91
- 12:45	30.0	1.381	998.23	3.93	1002.16
- 12:48	33.0	1.415	1022.71	3.87	1026.58
-12:48 1ST SHUT-IN	0.0	1.415	1022.71	3.87	1026.58
- 12:48	0.0	.082	62.88	-3.37	59.51
-12:48 2ND FLOW	0.0	.083	63.60	-3.37	60.23
- 12:53	5.0	.073	56.40	-3.42	52.98
- 12:58	10.0	.066	51.36	-3.46	47.90
- 13:03	15.0	.062	48.48	-3.48	44.99
- 13:08	20.0	.062	48.48	-3.48	44.99
- 13:13	25.0	.060	47.04	-3.49	43.54
- 13:18	30.0	.061	47.76	-3.49	44.27
- 13:23	35.0	.061	47.76	-3.49	44.27
- 13:28	40.0	.062	48.48	-3.48	44.99
- 13:33	45.0	.063	49.20	-3.48	45.72
- 13:38	50.0	.063	49.20	-3.48	45.72
- 13:43	55.0	.063	49.20	-3.48	45.72
- 13:48	60.0	.065	50.64	-3.47	47.17
-1:48 END FLOW	0.0	.065	50.64	-3.47	47.17
- 1:51	3.0	.087	66.48	-3.34	63.13
- 1:54	6.0	.126	94.56	-3.12	91.44
- 1:57	9.0	.189	139.92	-2.77	137.16

ORIGINAL

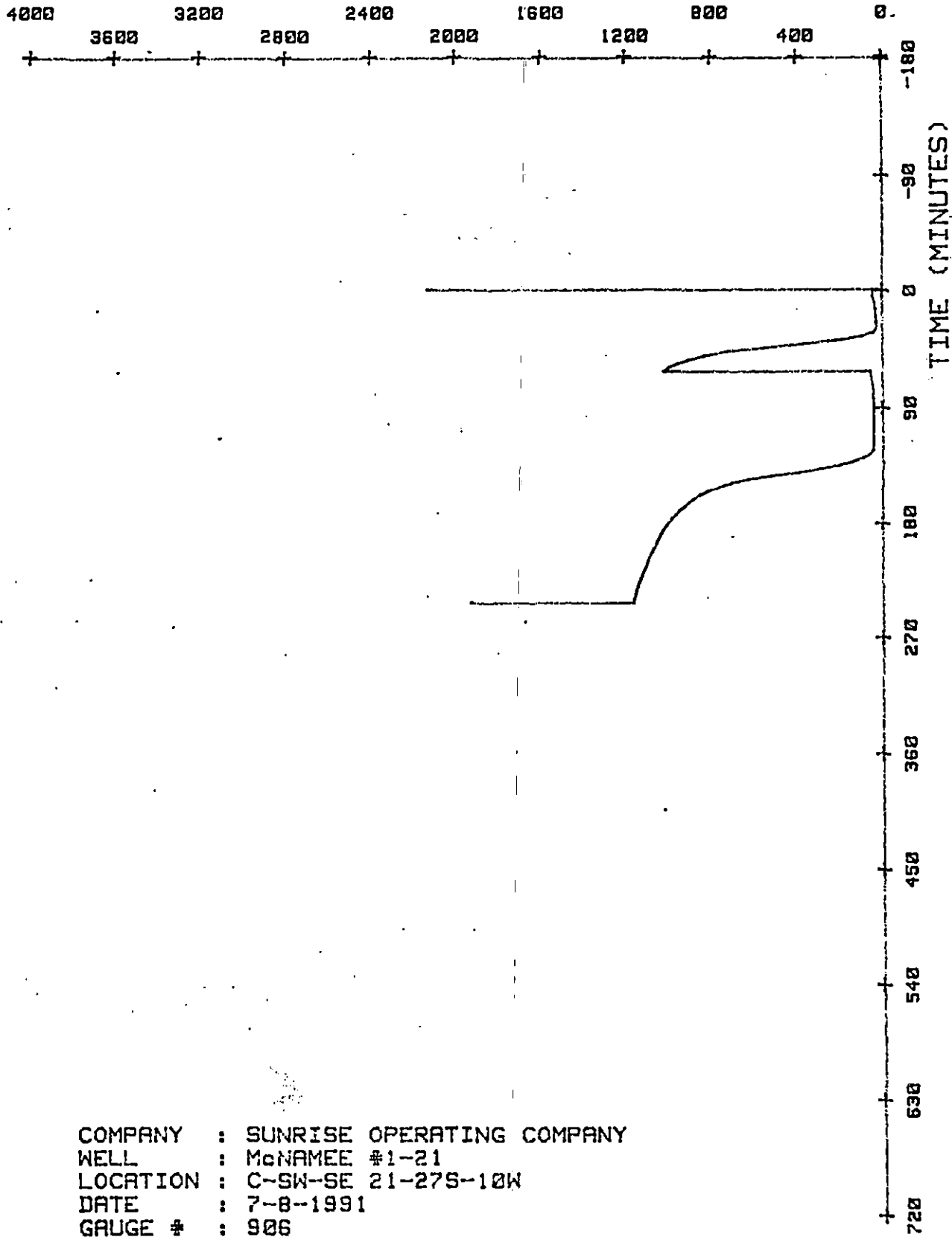
SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DEPTH : 4018.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
- 2:00	12.0	.275	201.85	-2.28	199.56
- 2:03	15.0	.401	292.58	-1.57	291.00
- 2:06	18.0	.537	390.50	-.81	389.70
- 2:09	21.0	.718	520.83	.21	521.04
- 2:12	24.0	.868	628.84	1.06	629.90
- 2:15	27.0	.978	708.05	1.68	709.72
- 2:18	30.0	1.059	766.37	2.13	768.51
- 2:21	33.0	1.128	816.06	2.52	818.58
- 2:24	36.0	1.177	851.34	2.80	854.14
- 2:27	39.0	1.222	883.74	3.05	886.79
- 2:30	42.0	1.254	906.78	3.23	910.01
- 2:33	45.0	1.285	929.10	3.41	932.51
- 2:36	48.0	1.314	949.99	3.57	953.56
- 2:39	51.0	1.335	965.11	3.69	968.80
- 2:42	54.0	1.362	984.55	3.84	988.39
- 2:45	57.0	1.383	999.67	3.92	1003.59
- 2:48	60.0	1.402	1013.35	3.89	1017.24
- 2:51	63.0	1.419	1025.59	3.86	1029.45
- 2:54	66.0	1.434	1036.39	3.84	1040.23
- 2:57	69.0	1.446	1045.03	3.82	1048.85
- 3:00	72.0	1.458	1053.67	3.80	1057.47
- 3:03	75.0	1.470	1062.31	3.78	1066.09
- 3:06	78.0	1.484	1072.40	3.75	1076.15
- 3:09	81.0	1.495	1080.32	3.74	1084.05
- 3:13	85.0	1.513	1093.28	3.71	1096.98
- 3:17	89.0	1.524	1101.20	3.69	1104.89
- 3:21	93.0	1.537	1110.56	3.67	1114.22
- 3:24	96.0	1.548	1118.48	3.65	1122.13
- 3:27	99.0	1.558	1125.68	3.63	1129.31
- 3:30	102.0	1.568	1132.88	3.61	1136.49
- 3:33	105.0	1.579	1140.80	3.60	1144.40
- 3:36	108.0	1.588	1147.28	3.58	1150.86
- 3:39	111.0	1.597	1153.76	3.57	1157.33
- 3:42	114.0	1.602	1157.36	3.56	1160.92
- 3:45	117.0	1.609	1162.40	3.55	1165.95
- 3:49	121.0	1.615	1166.72	3.54	1170.26
-3:49 2ND SHUT-IN	0.0	1.615	1166.72	3.54	1170.26
-2ND HYDROSTATIC	0.0	2.680	1933.58	.52	1934.10

PRESSURE (P S I G)

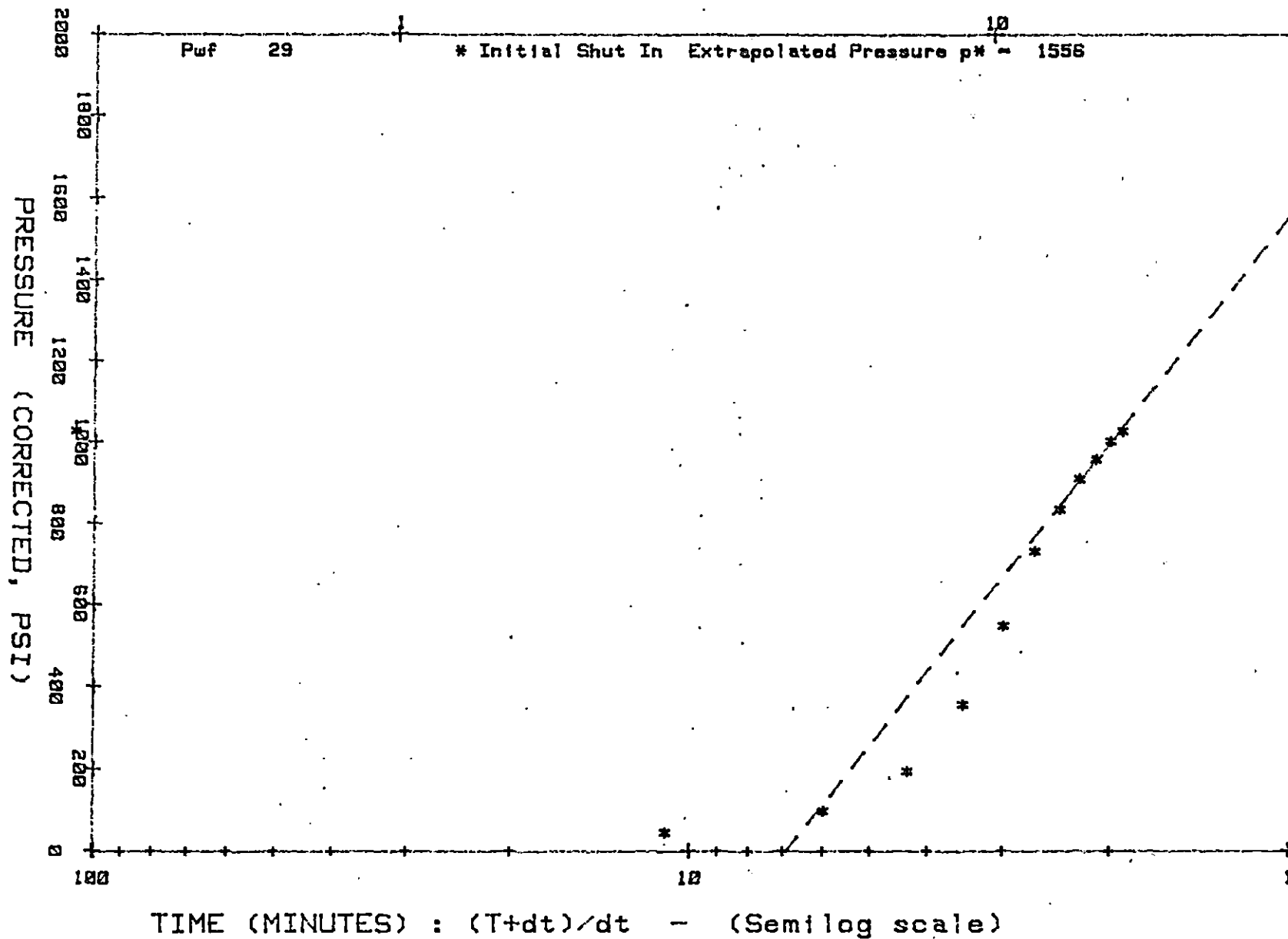


COMPANY : SUNRISE OPERATING COMPANY
WELL : McNAMEE #1-21
LOCATION : C-SW-SE 21-275-10W
DATE : 7-8-1991
GAUGE # : 906

LOCATION : C-SW-SE 21-27S-10W

DATE : 7-8-1991

GAUGE # : 906



ORIGINAL

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY
WELL NAME : McNAMEE #1-21
LOCATION : C-SW-SE 21-27S-10W
STATE & COUNTY : KANSAS, KINGMAN
DATE OF TEST : 7-8-1991
TEST INT. KB : 4008 to 4026
TOTAL INTERVAL (ft) K.B. : 18.00
ELEV.(GR) : 1718 (KB) : 1727
FIELD :

ELEMENT SERIAL NO. : 906
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth :	4018.0 ft-kb		
-12:15 END FLOW	0.00	0.00	29.03
	3.00	11.00	44.99
	6.00	6.00	97.97
	9.00	4.33	194.48
	12.00	3.50	356.31
	15.00	3.00	547.90
	18.00	2.67	730.77
	21.00	2.43	833.82
	24.00	2.25	909.29
	27.00	2.11	957.91
	30.00	2.00	1002.18
	33.00	1.91	1026.85
-12:48 1ST SHUT-IN	0.00	0.00	1026.85
	0.00	0.00	59.51

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
DST. NO : 1 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (DIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1556.00
Slope of Build-up Curve (psi/log cycle):	1856.80
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY
 WELL NAME : McNAMEE #1-21
 LOCATION : C-SW-SE 21-27S-10W
 STATE & COUNTY : KANSAS, KINGMAN
 DATE OF TEST : 7-8-1991
 TEST INT. KB : 4008 to 4026
 TOTAL INTERVAL (ft) K.B. : 18.00
 ELEV. (GR) : 1718 (KB) : 1727
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4018.0 ft-kb		
-1:48 END FLOW	0.00	0.00	47.17
	3.00	31.00	63.13
	6.00	16.00	91.44
	9.00	11.00	137.16
	12.00	8.50	199.56
	15.00	7.00	291.00
	18.00	6.00	389.70
	21.00	5.29	521.04
	24.00	4.75	629.90
	27.00	4.33	709.72
	30.00	4.00	768.51
	33.00	3.73	818.58
	36.00	3.50	854.14
	39.00	3.31	886.79
	42.00	3.14	910.01
	45.00	3.00	932.51
	48.00	2.88	953.56
	51.00	2.76	968.80
	54.00	2.67	988.39
	57.00	2.58	1003.63
	60.00	2.50	1017.42
	63.00	2.43	1029.75
	66.00	2.36	1040.64
	69.00	2.30	1049.35
	72.00	2.25	1058.06
	75.00	2.20	1066.76
	78.00	2.15	1076.92
	81.00	2.11	1084.91
	85.00	2.06	1097.97
	89.00	2.01	1105.95

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
REFERENCE DEPTH : 4018.0 SERIAL NO. : 906

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
	93.00	1.97	1115.38
	96.00	1.94	1123.37
	99.00	1.91	1130.62
	102.00	1.88	1137.88
	105.00	1.86	1145.86
	108.00	1.83	1152.39
	111.00	1.81	1158.93
	114.00	1.79	1162.55
	117.00	1.77	1167.63
	121.00	1.74	1171.99
-3:49 2ND SHUT-IN	0.00	0.00	1171.99
-2ND HYDROSTATIC	0.00	0.00	1944.85

DATA SUMMARY

COMPANY : SUNRISE OPERATING COMPANY WELL NAME : McNAMEE #1-21
 DATE OF TEST : 7-8-1991 LOCATION : C-SW-SE 21-27S-10W
 DST. NO : 1 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):02
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): 0.00
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 0.00

TOTAL COMPRESSIBILITY (psi-1): 6.94E-06

ESTIMATED DAMAGE RATIO:30

CALCULATED DAMAGE RATIO: 1.12

Reservoir Temperature (F): 128.00
 Formation Porosity :18
 Formation Thickness (ft): 10.00
 Wellbore Radius (in): 3.94
 Reservoir Compressibility (psi-1): 4.80E-07
 Calculated Skin Factor :17

PRODUCTION WITH DAMAGE REMOVED (bbl/D):17

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 47.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 1.76

Total Flowing Time (min): 90.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1413.00

Slope of Build-up Curve (psi/log cycle): 1003.81

Effective Producing Time (min): 90.00



HALLIBURTON SERVICES

Duncan, Oklahoma 73828

A Division of Halliburton Company

PULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND TICKET NO.

171118

DATE 7-2-91	CUSTOMER ORDER NO.	WELL NO. AND FARM McNamee	COUNTY Kingman	STATE Ks.
CHARGE TO sunrise Operating Company		OWNER Sunrise Oper.	CONTRACTOR Sterling Drlg.	No. B 978019
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 25520	PREPARED BY S.C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 3046-6608	RECEIVED BY <i>Jim B. ...</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
				225 40%pozmix/60%cement						
504-308	516.00261	1	B	standard Cement	135	sk			5.35	722.25
506-105	516.00286	1	B	pozmix A	90	sk			2.79	251.10
506-121	516.00259	1	B	4 Halliburton Gel 2% allowed						NC
509-406	890.50812	1	B	Calcium chloride 3M/225	6	sk			26.25	157.50
					Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
					SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET		
500-207		1	B	SERVICE CHARGE				237	1.15	272.55
500-306		1	B	Mileage Charge	20,217	TOTAL WEIGHT	STATE CORPORATION COMMISSION	222.39	.80	177.91
No. B 978019					RECEIVED AUG 3 1992 FORWARD TO INVOICE			SUB-TOTAL	1581.31	

THIS IS NOT AN INVOICE

HALLIBURTON SERVICES
JOB LOG

WELL NO. 1-21st LEASE McNamee TICKET NO. 17118
 CUSTOMER Sunrise Oper. Co. Inc. PAGE NO. 1
 JOB TYPE Surf-cc DATE 7-2-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							Colled out
	1020							On Location
	1145							Break circulation
	1157	6	0		✓	480		Start mixing cement
	1207	6	50.9		✓	350		Finish mixing
	1210		—			—		Release Plug
	1211	1	1		✓	100		Start displacement
	1215	6	16.2		✓	350		Plug down at 258'
								Circulated cement 20 SKS
	1230							Wash & Rack up
	1245							Job complete
								Thank You
								51936-P
								51870 - Jerry Bennett 88500 - Kevin Gordley

ORIGINAL

RECEIVED
STATE CORPORATION COMMISSION

AUG 3 1991

CUSTOMER

CONSERVATION DIVISION
Wichita, Kansas

WELL DATA
FIELD Wildcat SEC. 21 TWP. 27S RANG. 10W COUNTY Kingsman STATE Ks

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	28	8 5/8	KB	270	
LINER						
TUBING						
OPEN HOLE			12 1/4	270	274	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-2</u>	DATE <u>7-2</u>	DATE <u>7-2</u>	DATE <u>7-2</u>
TIME <u>0830</u>	TIME <u>1020</u>	TIME <u>1140</u>	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J Bennell</u>	<u>RCM-ABC</u>	
<u>K Gardley</u>	<u>51936</u>	<u>25520</u>
<u>J Street</u>		<u>25520</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS	<u>1</u>	
BOTTOM PLUG		
TOP PLUG	<u>Wood</u>	<u>Howco</u>
HEAD	<u>manifold</u>	<u>1</u>
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API _____
DISPL. FLUID _____ DENSITY _____ LB/GAL-API _____
PROP. TYPE _____ SIZE _____ LB. _____
PROP. TYPE _____ SIZE _____ LB. _____
ACID TYPE _____ GAL _____ % _____
ACID TYPE _____ GAL _____ % _____
ACID TYPE _____ GAL _____ % _____
SURFACTANT TYPE _____ GAL _____ IN _____
NE AGENT TYPE _____ GAL _____ IN _____
FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN _____
GELLING AGENT TYPE _____ GAL-LB _____ IN _____
FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN _____
BREAKER TYPE _____ GAL-LB _____ IN _____
BLOCKING AGENT TYPE _____ GAL-LB _____ IN _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT Cement
DESCRIPTION OF JOB Set 8 5/8 surface
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
CUSTOMER REPRESENTATIVE X
HALLIBURTON OPERATOR Jerry Bennell COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK	MIXED LBS./GAL
	<u>275</u>	<u>40-60</u>	<u>Pozmix</u>	<u>B</u>	<u>2% gel, 3% cc</u>	<u>1.27</u>	<u>14.3</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 15 REASON Request

PRESLUSH: BBL-GAL _____ TYPE _____
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL. BBL-GAL 16.2
CEMENT SLURRY 50.9
TOTAL VOLUME: BBL-GAL _____

REMARKS

Total Cement RECEIVED
TE CORPORATION COMMISSION
AUG 13 1992
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER Surface Operating Co I-21
WELL NO. 1-21
JOB TYPE Surface
DATE 7-2-91

WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO. 171118

DISTRICT Pratt, Ks

DATE 7-2-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Sunrise Operating Company Inc (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-21 LEASE McName SEC. 21 TWP. 27S RANGE 10W
FIELD Wildcat COUNTY Kingman STATE Ks OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		U	28	8 5/8	KB	270	
LINER							
TUBING							
OPEN HOLE				12 1/4	270	274	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Set 8 5/8 at 270' w/ 225 sks (40-60) Pozmix 2% gel, 3% cc

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- c) The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- d) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- e) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- f) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- g) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- h) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- i) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

RECEIVED
I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER

DATE 7-2-91

TIME 11:00 WICHITA, KANSAS

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER