

Superior Testers Enterprises, Inc.

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

(316) 792-6902

1718 G.L.

Date 7-8-1991 Location C-SW-SE 21-27-10^N Elevation 1727 K.F. 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 RIG #5

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 9.7 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

from [B] 50 P.S.I. to [C] 43 P.S.I.

[D] 1044 P.S.I.

from [E] 72 P.S.I. to [F] 79 P.S.I.

[G] 1195 P.S.I.

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 TRACE % 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. 47741 Depth 4018 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47742 Depth 4013 Insurance NONE

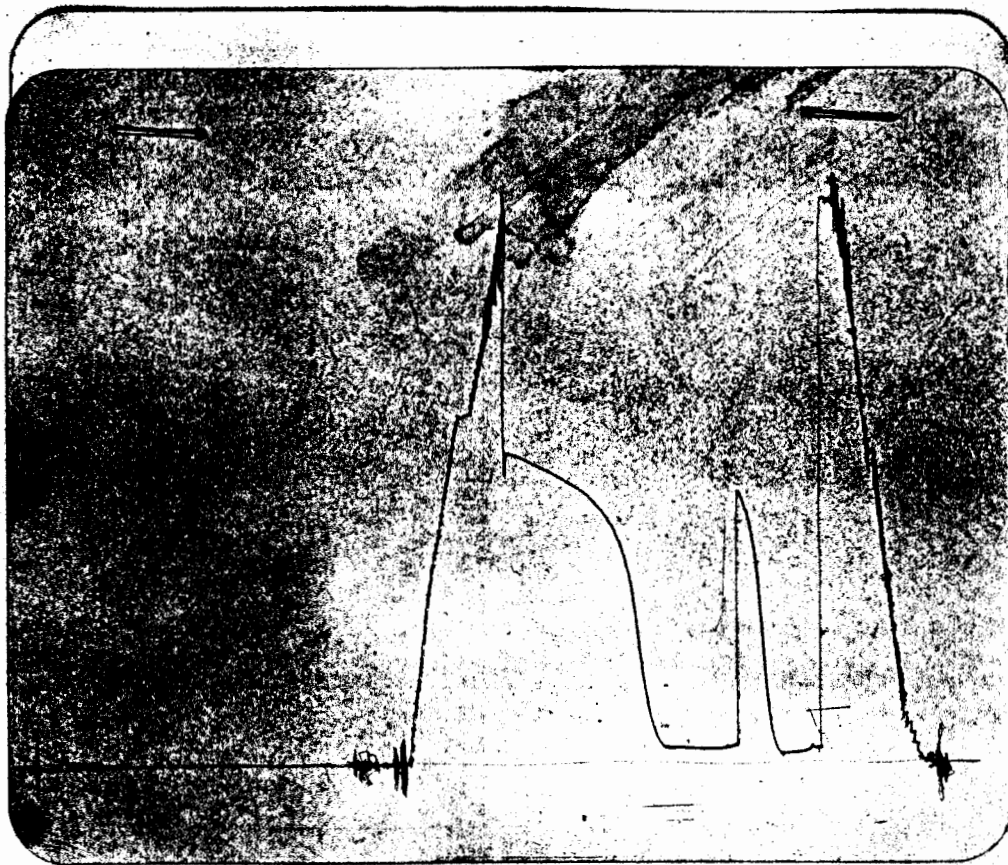
Price of Job 350 4333 - 18861 - 4147

Tool Operator Sam Budy

Approved By _____

No. 10913

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.

KCC

JUL 21 1994

POINT	PRESSURE		
	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 PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 128	TEST TICKET NUMBER : 10913

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JUL 21 1994

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

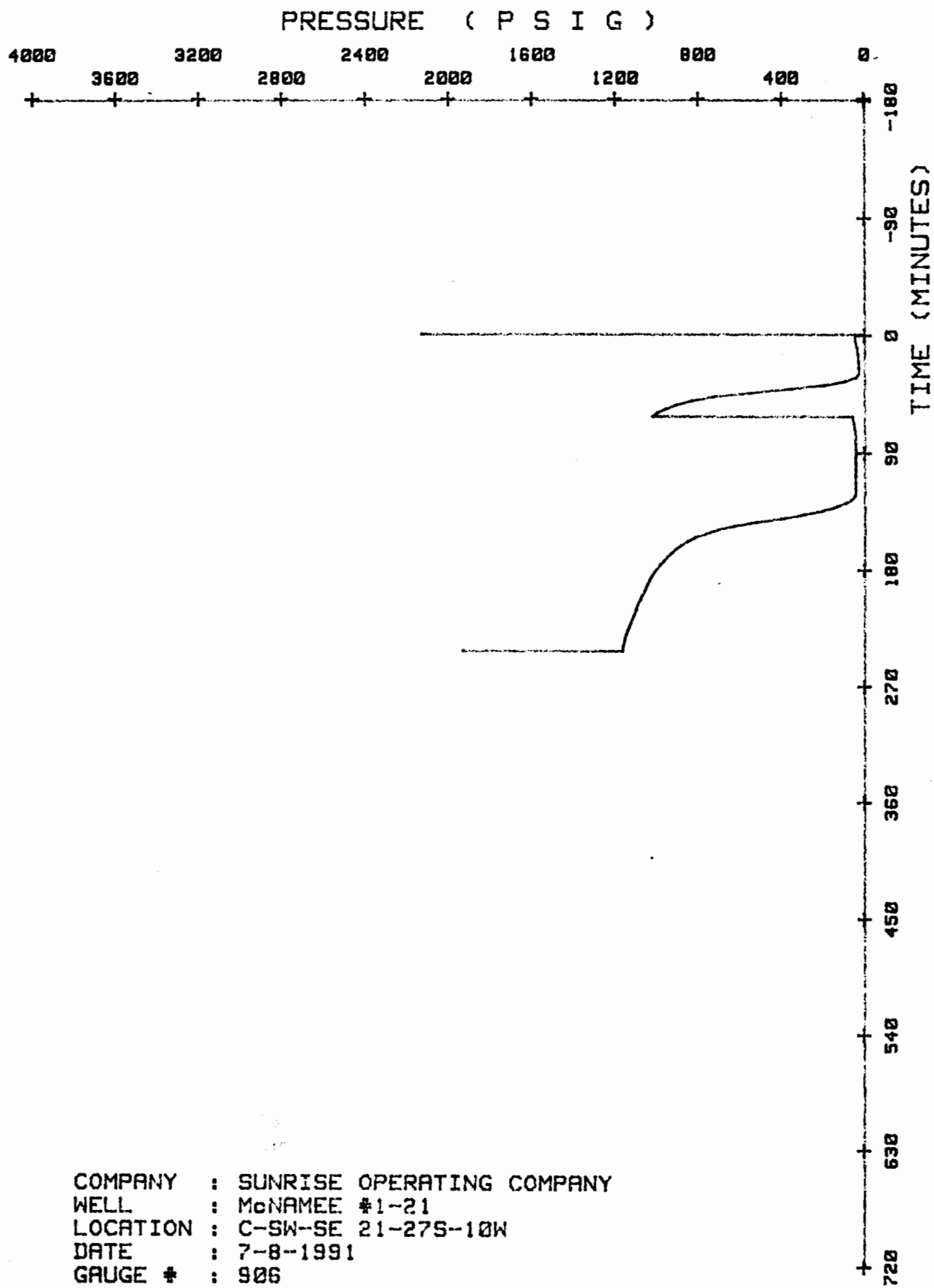
COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4018.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.958	2133.76	-.14	2133.62
- 0:00	0.0	.006	8.15	-3.80	4.35
-11:45 1ST FLOW	0.0	.066	51.36	-3.46	47.90
- 11:50	5.0	.066	51.36	-3.46	47.90
- 11:55	10.0	.051	40.56	-3.55	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

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

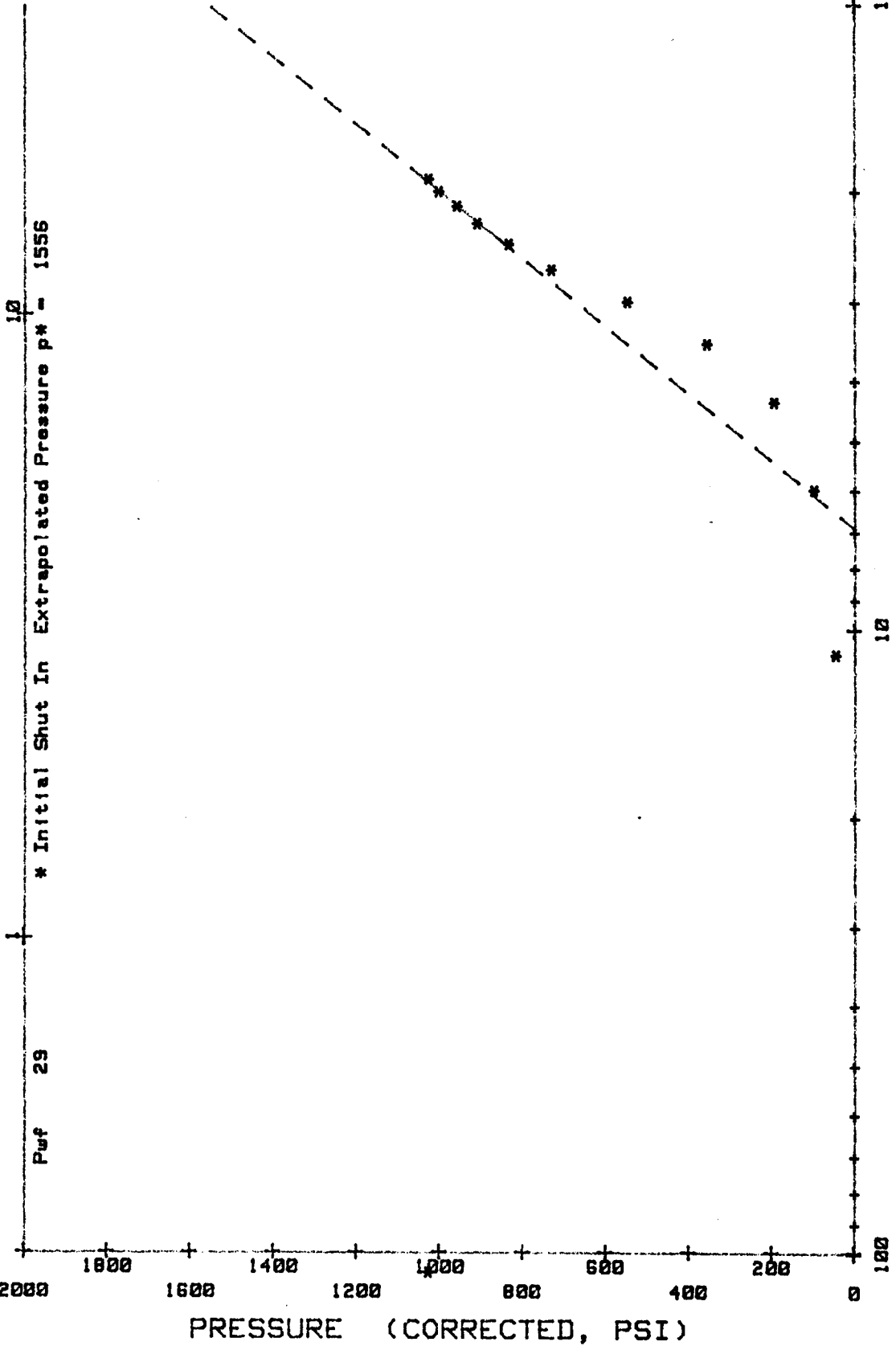


COMPANY : SUNRISE OPERATING COMPANY
 WELL : McNAMEE #1-21
 LOCATION : C-SW-SE 21-275-10W
 DATE : 7-8-1991
 GAUGE # : 906

GAUGE # : 906

DATE : 7-8-1991

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



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

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.

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 (OIL)

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

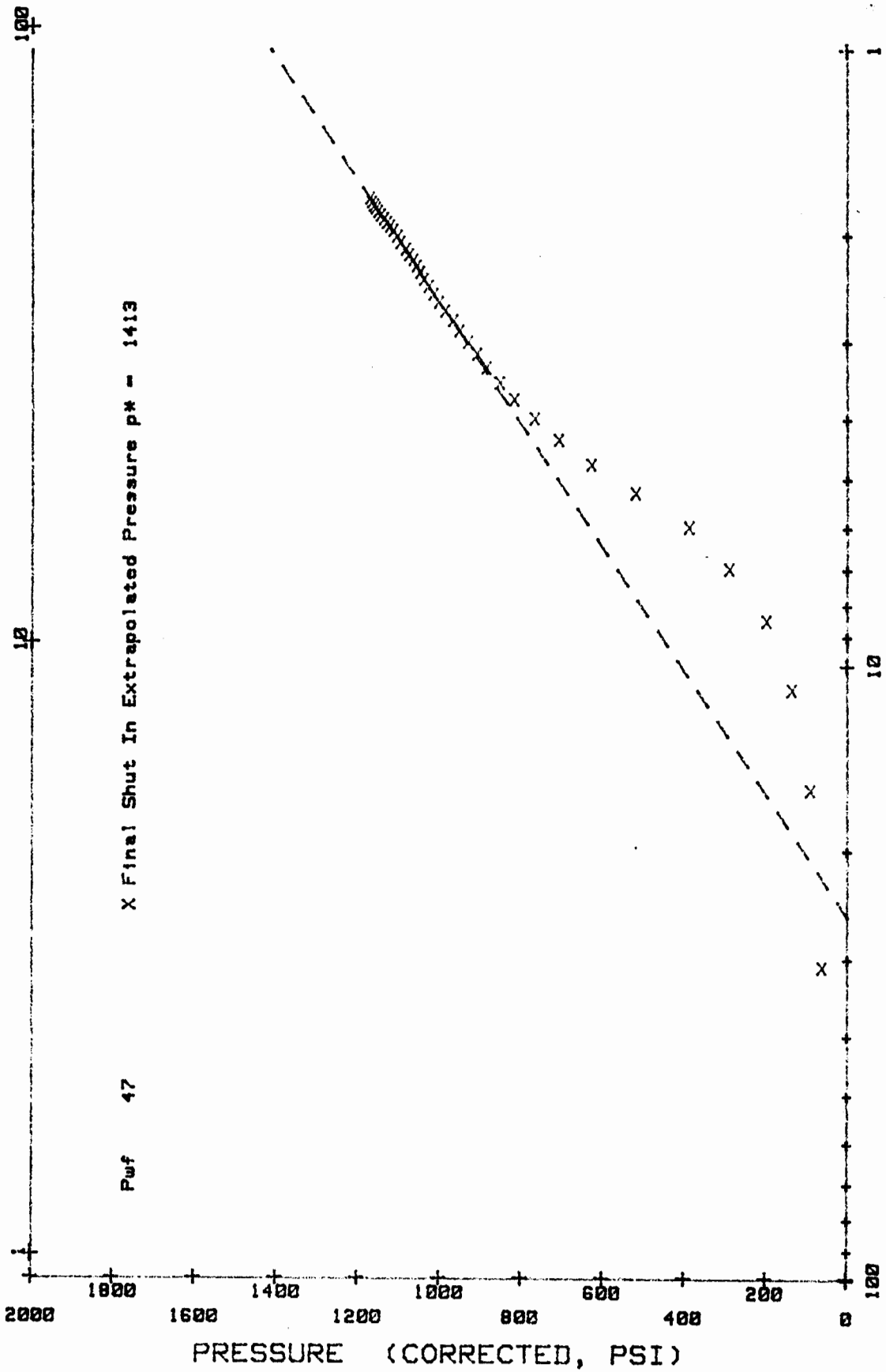
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 906

DATE : 7-8-1991

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

Pwf 47 X Final Shut In Extrapolated Pressure p* - 1413



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

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

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 : 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	

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 : 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
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TOTAL COMPRESSIBILITY (psi ⁻¹):	6.94E-06
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ESTIMATED DAMAGE RATIO:30
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CALCULATED DAMAGE RATIO:	1.12
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Reservoir Temperature (F):	128.00
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Formation Porosity :18
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Formation Thickness (ft):	10.00
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Wellbore Radius (in):	3.94
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Reservoir Compressibility (psi ⁻¹):	4.80E-07
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Calculated Skin Factor :17
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PRODUCTION WITH DAMAGE REMOVED (bbl/D):17
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PRODUCTIVITY INDEX (bbl/psi):	0.00
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Final Flow Pressure (psi):	47.00
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APPROXIMATE RADIUS OF INVESTIGATION (ft):	1.76
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Total Flowing Time (min):	90.00
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EXTRAPOLATED RESERVOIR PRESSURE (psi):	1413.00
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Slope of Build-up Curve (psi/log cycle):	1003.81
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Effective Producing Time (min):	90.00
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