Superior Testers Enterprises, Inc.

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

Date 9-20-1988 Location NE-NE-NW 27-31-8 Elevation 1604 G.L. County Harper

Company Mohawk Petroleum Number of Copies

Charts Mailed to P.O. Box 2082, Hutchinson, Kansas 67504-2082

Drilling Contractor Duke Drilling Company Rig #2

Length Drill Pipe 3967 I.D. Drill Pipe 3.80 Tool Joint Size 4½" X.H.

Length Weight Pipe 315 I.D. Weight Pipe 2.75 Tool Joint Size 4½" X.H.

Length Drill Collars 123 I.D. Drill Collars 2.25 Tool Joint Size 4½" X.H.

Top Packer Depth 4420 Bottom Packer Depth 4425 Number of Packers 2 Packer Size 6¾"

TESTED FROM 4425 TO 4435 ANCHOR LENGTH 10 TOTAL DEPTH 4435 Hole Size 7⅞"

LEASE & WELL NO. Muir #1-27 FORMATION TESTED Mississippi TEST NO. 1

Mud Weight 9.3 Viscosity 48 Water Loss 10.4 Chlorides - Pits 7500 D.S.T.

Maximum Temp. 120 °F Initial Hydrostatic Pressure (A) 2253 P.S.I. Final Hydrostatic Pressure (H) 2198 P.S.I.

Tool Open I.F.P. from 11:45 Am to 12:15 pm 30 min

Tool Closed I.C.I.P. from 12:15 Am to 1:15 pm 60 min

Tool Open F.F.P. from 1:15 Am to 2:15 pm 60 min

Tool Closed F.C.I.P. from 2:15 Am to 3:45 pm 90 min

from [B]	44 P.S.I. to [C]	33	P.S.I.
[D]	276		P.S.I.
from [E]	65 P.S.I. to [F]	44	P.S.I
[G]	486		P.S.I.

Initial Blow Good blow - built to the bottom of a 7 gallon bucket in 15 min.

Final Blow Fair to good blow - built to the bottom of a 7 gallon bucket in 55 mins

Total Feet Recovered 25 Gravity of Oil Corrected

500 Feet of Gas in the Pipe	% Gas	% Oil	% Mud	% Water
25 Feet of Slightly Oil & Gas cut mud	0 % Gas	2 % Oil	75 % Mud	23 % Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water
Feet of	% Gas	% Oil	% Mud	% Water

Remarks

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

Top Recorder No. 10817 Clock No. 10° 47441 Depth 4429 Cir. Sub none Sampler none

Bottom Recorder No. 906 Clock No. 47441 Depth 4433 Insurance yes

Price of Job

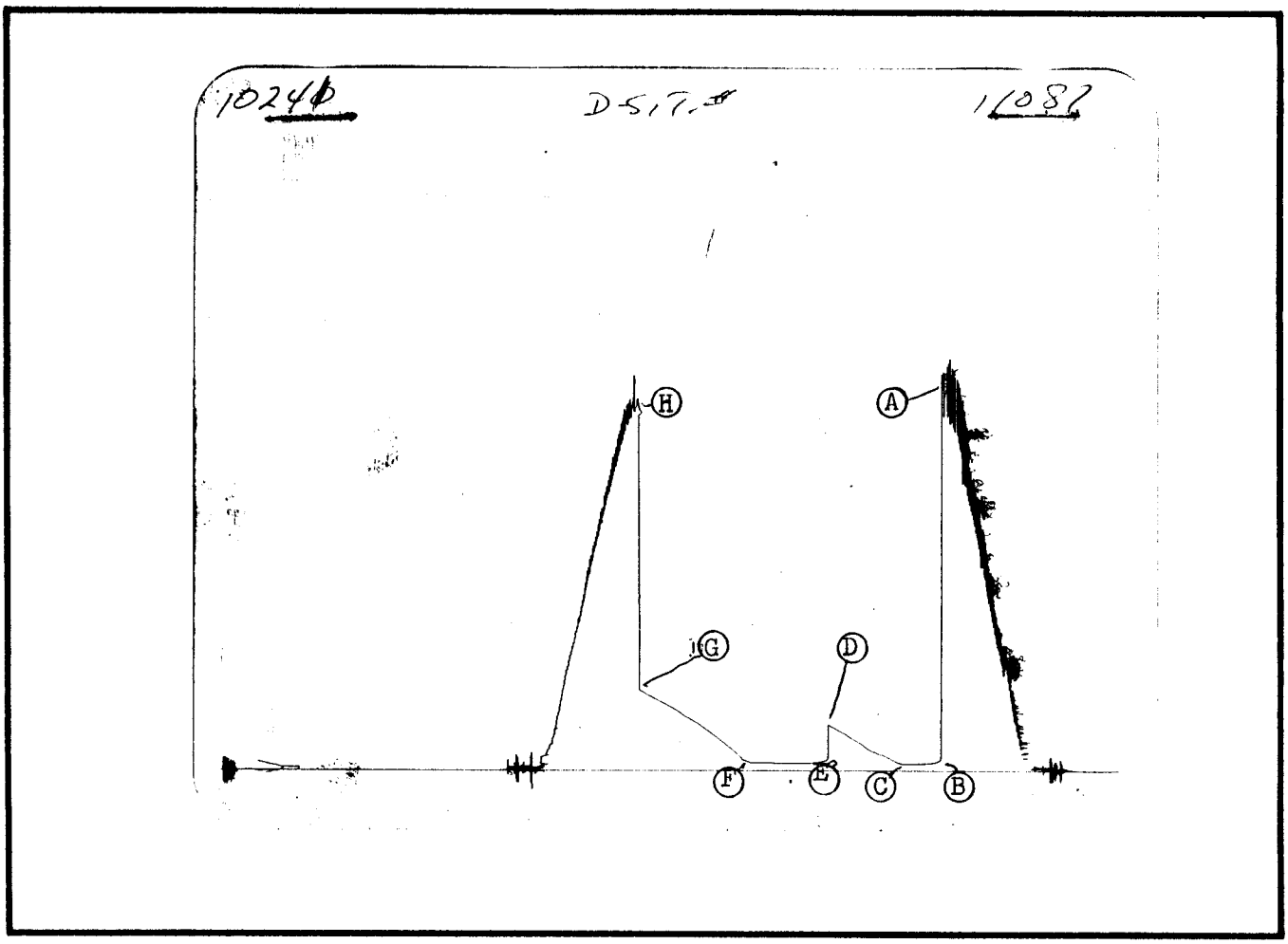
Tool Operator Gene Kulig

Approved By

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

№ 10241

COMPANY Mohawk Petroleum LEASE- WELL NO Muir # 1-27 SEC 27 TWP 31 RGE. 8W TEST NO. 1 DATE 9-20-1988



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2253	2259	P.S.I.
(B)	First Initial Flow Pressure	44	46	P.S.I.
(C)	First Final Flow Pressure	33	41	P.S.I.
(D)	Initial Closed-in Pressure	276	270	P.S.I.
(E)	Second Initial Flow Pressure	55	56	P.S.I.
(F)	Second Final Flow Pressure	44	46	P.S.I.
(G)	Final Closed-in Pressure	486	475	P.S.I.
(H)	Final Hydrostatic Mud	2198	2177	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MOHAWK PETROLEUM
ADDRESS : P.O.BOX 2082,HUTCHINSON
STATE & COUNTY : KANSAS,HARPER
ELEV.(GR) : 1604 (KB) : 1611

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
FIELD :
TEST DATE : 9-20-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI
TEST INT. KB : 4425 to 4435
ANCHOR LENGTH(ft) : 10
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4435
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.3
MUD VISCOSITY : 48
MUD CHLORIDES : 7500
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 120

DRILL PIPE LENGTH(ft) : 3967
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 315
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 123
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 4420
BOTTOM PACKER DEPTH(kb) : 4425
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10241

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : FAIR BLOW BUILT TO BOTTOM OF BUCKET IN 15 MIN.
2nd Opening : FAIR BLOW BUILT TO BOTTOM OF BUCKET IN 55 MIN.

RECOVERY

Recovered 500 feet of GAS IN THE PIPE
Recovered 25 feet of SLIGHTLY OIL AND GAS CUT MUD 2% OIL

REMARKS :

WITNESSED BY : DEAN PATTYSON TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MOHAWK PETROLEUM
DATE OF TEST : 9-20-1988
DEPTH : 4429.0

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4429.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.056	2254.81	5.01	2259.83
-11:45 1ST FLOW	0.0	.042	51.02	-4.76	46.26
- 11:50	5.0	.042	51.02	-4.76	46.26
- 11:55	10.0	.039	47.74	-4.79	42.95
- 12:00	15.0	.038	46.64	-4.79	41.85
- 12:05	20.0	.038	46.64	-4.79	41.85
- 12:10	25.0	.038	46.64	-4.79	41.85
- 12:16	31.0	.038	46.64	-4.79	41.85
-12:16	0.0	.038	46.64	-4.79	41.85
- 12:21	5.0	.049	58.68	-4.71	53.96
- 12:26	10.0	.065	76.19	-4.60	71.59
- 12:31	15.0	.081	93.69	-4.49	89.21
- 12:36	20.0	.093	106.83	-4.40	102.42
- 12:41	25.0	.106	121.05	-4.31	116.74
- 12:46	30.0	.136	153.88	-4.10	149.78
- 12:51	35.0	.156	175.76	-3.96	171.81
- 12:55	39.0	.170	191.08	-3.86	187.22
- 13:01	45.0	.196	219.53	-3.67	215.86
- 13:06	50.0	.214	239.23	-3.55	235.68
- 13:11	55.0	.238	265.49	-3.38	262.11
- 13:14	58.0	.246	274.24	-3.32	270.93
-1:14 1ST SHUT-IN	0.0	.246	274.24	-3.32	270.93
-1:14 2ND FLOW	0.0	.051	60.87	-4.70	56.17
- 1:19	5.0	.051	60.87	-4.70	56.17
- 1:24	10.0	.043	52.11	-4.76	47.36
- 1:29	15.0	.041	49.93	-4.77	45.15
- 1:34	20.0	.041	49.93	-4.77	45.15
- 1:39	25.0	.041	49.93	-4.77	45.15
- 1:44	30.0	.041	49.93	-4.77	45.15
- 1:49	35.0	.041	49.93	-4.77	45.15
- 1:54	40.0	.041	49.93	-4.77	45.15
- 1:59	45.0	.041	49.93	-4.77	45.15
- 2:04	50.0	.042	51.02	-4.76	46.26
- 2:09	55.0	.042	51.02	-4.76	46.26
- 2:13	59.0	.042	51.02	-4.76	46.26
- 2:15	61.0	.042	51.02	-4.76	46.26
-2:15 END FLOW	0.0	.042	51.02	-4.76	46.26
- 2:20	5.0	.053	63.06	-4.69	58.37
- 2:25	10.0	.083	95.88	-4.47	91.41
- 2:30	15.0	.116	131.99	-4.24	127.75

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MOHAWK PETROLEUM
DATE OF TEST : 9-20-1988
DEPTH : 4429.0

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:1					
- 2:35	20.0	.143	161.54	-4.05	157.49
- 2:40	25.0	.168	188.89	-3.87	185.02
- 2:45	30.0	.194	217.34	-3.69	213.66
- 2:50	35.0	.220	245.79	-3.50	242.29
- 2:55	40.0	.250	278.62	-3.29	275.33
- 3:00	45.0	.269	299.41	-3.16	296.26
- 3:05	50.0	.285	316.92	-3.04	313.88
- 3:10	55.0	.312	346.46	-2.85	343.61
- 3:15	60.0	.334	370.54	-2.70	367.84
- 3:20	65.0	.352	390.23	-2.57	387.67
- 3:25	70.0	.368	407.74	-2.45	405.29
- 3:30	75.0	.386	427.44	-2.33	425.11
- 3:35	80.0	.406	449.32	-2.18	447.14
- 3:40	85.0	.425	470.11	-2.05	468.06
-3:42 2ND SHUT-IN	87.0	.432	477.77	-2.00	475.77
-2ND HYDROSTATIC	0.0	1.981	2172.74	5.20	2177.95

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 9-22-1988 Location NE-NE-NW 27-31-8 Elevation 1611 K.B. 1604 G.L. County Harper

Company Mohawk Petroleum Number of Copies 5

Charts Mailed to P.O. Box 2082 Hutchinson Kansas 67504-2082

Drilling Contractor Duke Drilling Company Rig #2

Length Drill Pipe 3967 I.D. Drill Pipe 3.80 Tool Joint Size 4½" X.H.

Length Weight Pipe 315 I.D. Weight Pipe 2.75 Tool Joint Size 4½" X.H.

Length Drill Collars 123 I.D. Drill Collars 2.25 Tool Joint Size 4½" X.H.

Top Packer Depth 4420 Bottom Packer Depth 4425 Number of Packers 2 Packer Size 6¾

TESTED FROM 4425 TO 4446 ANCHOR LENGTH 21 TOTAL DEPTH 4446 Hole Size 7⅞

LEASE & WELL NO. Muir #1-27 FORMATION TESTED Mississippi TEST NO. 2

Mud Weight 9.3 Viscosity 48 Water Loss 10.4 Chlorides - Pits 7500 D.S.T.

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2351 P.S.I. Final Hydrostatic Pressure (H) 2318 P.S.I.

Tool Open I.F.P. from 2:30 AM to 3:00 AM 30 min

Tool Closed I.C.I.P. from 3:00 AM to 4:00 AM 60 min

Tool Open F.F.P. from 4:00 AM to 5:00 AM 60 min

Tool Closed F.C.I.P. from 5:00 AM to 6:30 AM 90 min

from [B]	110 P.S.I. to [C]	99	P.S.I.
[D]	1353		P.S.I.
from [E]	121 P.S.I. to [F]	154	P.S.I.
[G]	1353		P.S.I.

Initial Blow Strong blow - Gas to surface in 5 min.

Final Blow Strong blow -

Total Feet Recovered 460 Gravity of Oil ____ Corrected

40	Feet of	Frothy Oil	12 %Gas	13 %Oil	75 %Mud	0 %Water
80	Feet of		28 %Gas	50 %Oil	15 %Mud	7 %Water
160	Feet of		49 %Gas	38 %Oil	8 %Mud	5 %Water
120	Feet of		63 %Gas	30 %Oil	2 %Mud	5 %Water
60	Feet of		62 %Gas	30 %Oil	3 %Mud	5 %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. 11087 Clock No. 47441 Depth 4440 Cir. Sub None Sampler None

Bottom Recorder No. 906 Clock No. 47442 Depth 4443 Insurance Yes

Price of Job ____

Tool Operator Dean Judy

Approved By ____

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

№ 10242

Superior Testers Enterprises, Inc.

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

GAS FLOW REPORT

Date 9-27-1988 Ticket # 10242 Company Mohawk Petroleum

Well Name and No Muir #1-27 DST No. 2 Interval Tested 4425-4426

County Harper State Kansas Sec. 27 Twp. 31 Rg. 8

Time Gauge Pre-Flow	Time Gauge in Min.	Inches of Water on Orfice Well Tester	Inches of Mercury on Orifice Well Tester	P.S.I. on Orifice Well Tester	P.S.I. on Pitot Tester	Choke Size	Gas Rate MCF
PRE FLOW							
Tool open at 2:30 A.M.							
2:35	5	28				1	137.
2:45	15	40				1	163.
2:55	25	46				1	173.
SECOND FLOW							
Tool open at 4:00 A.M							
4:10	10	36				1	155.
4:20	20	32				1	146.
4:30	30	30				1	141.
4:40	40	28				1	137
4:50	50	26				1	132
5:00	60	26				1	132

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____ Test Ticket # _____

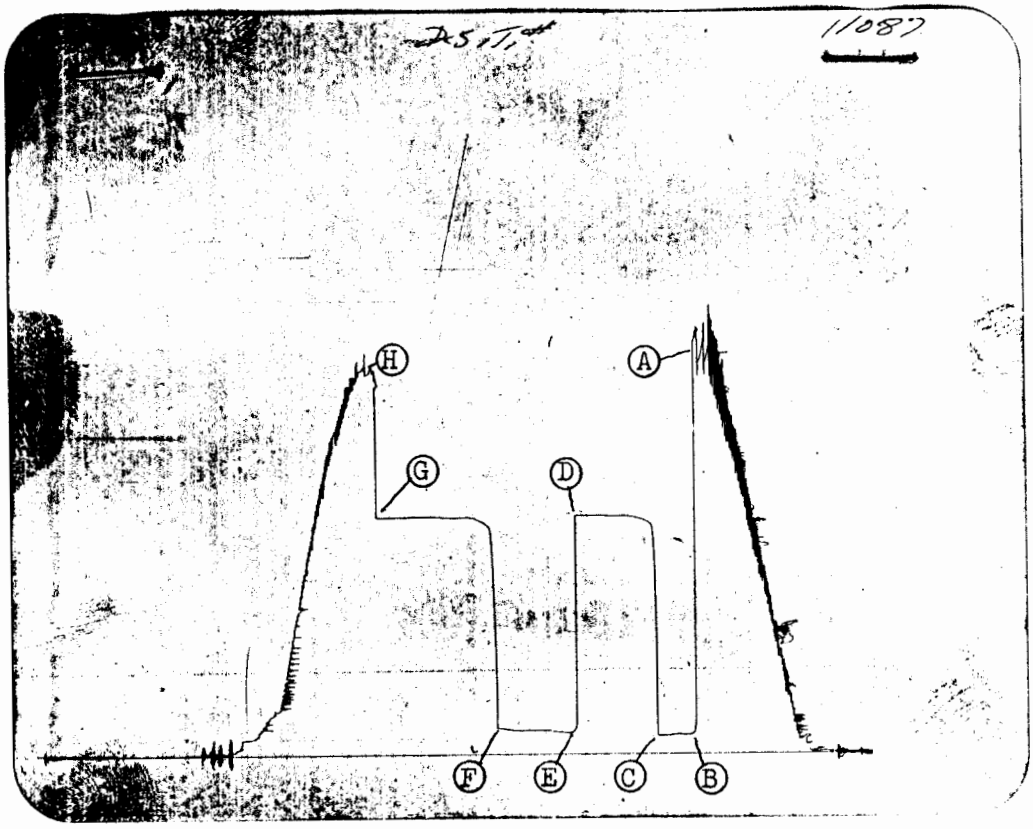
Requisition and Provisions for high pressure steel gas bottles. Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Superior Testers Enterprises, Inc. within thirty (30) days free of charge or be invoiced in the amount of $125.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

COMPANY Mohawk Petroleum LEASE- WELL NO Muir #1-27 SEC 27 TWP 31 RGE. 8 TEST NO. 2 DATE 9-21-1988



This is an actual photograph of recorder chart.

POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	2351	2264	P.S.I.
(B)	First Initial Flow Pressure	110	105	P.S.I.
(C)	First Final Flow Pressure	99	102	P.S.I.
(D)	Initial Closed-in Pressure	1353	1341	P.S.I.
(E)	Second Initial Flow Pressure	121	125	P.S.I.
(F)	Second Final Flow Pressure	154	145	P.S.I.
(G)	Final Closed-in Pressure	1353	1339	P.S.I.
(H)	Final Hydrostatic Mud	2318	2168	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : MOHAWK PETROLEUM
ADDRESS : P.O.BOX 2082,HUTCHINSON
STATE & COUNTY : KANSAS,HARPER
ELEV.(GR) : 1604 (KB) : 1611

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
FIELD :
TEST DATE : 9-21-1988

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI
TEST INT. KB : 4425 to 4446
ANCHOR LENGTH(ft) : 21
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 4446
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.3
MUD VISCOSITY : 48
MUD CHLORIDES : 7500
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 117

DRILL PIPE LENGTH(ft) : 3967
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 315
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : 123
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 4420
BOTTOM PACKER DEPTH(kb) : 4425
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 10242

EXTRA EQUIPMENT :
-INSURANCE

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : STRONG BLOW-GAS TO SURFACE IN 5 MIN.
2nd Opening : STRONG BLOW

RECOVERY

Recovered 460 feet of FROTHY OIL

REMARKS :

WITNESSED BY : DEAN PATTYSON TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : MOHAWK PETROLEUM
DATE OF TEST : 9-21-1988
DEPTH : 4440.0

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4440.0 ft-kb					
1ST HYDROSTATIC	0.0	2.060	2259.19	5.00	2264.19
2:30 1ST FLOW	0.0	.096	110.11	-4.38	105.73
- 2:35	5.0	.096	110.11	-4.38	105.73
- 2:40	10.0	.096	110.11	-4.38	105.73
- 2:45	15.0	.097	111.20	-4.37	106.83
- 2:50	20.0	.095	109.01	-4.39	104.63
- 2:55	25.0	.093	106.83	-4.40	102.42
- 2:59	29.0	.093	106.83	-4.40	102.42
2:59 END FLOW	0.0	.093	106.83	-4.40	102.42
- 3:02	3.0	1.162	1276.56	2.56	1279.12
- 3:05	6.0	1.186	1302.83	2.67	1305.49
- 3:08	9.0	1.197	1314.86	2.72	1317.58
- 3:11	12.0	1.204	1322.52	2.75	1325.27
- 3:14	15.0	1.200	1318.15	2.73	1320.88
- 3:17	18.0	1.214	1333.46	2.80	1336.26
- 3:20	21.0	1.217	1336.75	2.81	1339.56
- 3:23	24.0	1.218	1337.84	2.82	1340.66
- 3:26	27.0	1.218	1337.84	2.82	1340.66
- 3:29	30.0	1.218	1337.84	2.82	1340.66
- 3:32	33.0	1.218	1337.84	2.82	1340.66
- 3:35	36.0	1.218	1337.84	2.82	1340.66
- 3:38	39.0	1.218	1337.84	2.82	1340.66
- 3:41	42.0	1.219	1338.94	2.82	1341.76
- 3:44	45.0	1.219	1338.94	2.82	1341.76
- 3:47	48.0	1.219	1338.94	2.82	1341.76
- 3:50	51.0	1.219	1338.94	2.82	1341.76
- 3:53	54.0	1.219	1338.94	2.82	1341.76
- 3:56	57.0	1.219	1338.94	2.82	1341.76
- 3:59	60.0	1.219	1338.94	2.82	1341.76
3:59 1ST SHUT-IN	0.0	1.219	1338.94	2.82	1341.76
3:59 2ND FLOW	.1	.114	129.80	-4.25	125.55
- 4:04	5.0	.114	129.80	-4.25	125.55
- 4:09	10.0	.114	129.80	-4.25	125.55
- 4:14	15.0	.115	130.90	-4.25	126.65
- 4:19	20.0	.120	136.37	-4.21	132.16
- 4:24	25.0	.121	137.46	-4.20	133.26
- 4:29	30.0	.121	137.46	-4.20	133.26
- 4:34	35.0	.121	137.46	-4.20	133.26
- 4:39	40.0	.121	137.46	-4.20	133.26
- 4:44	45.0	.121	137.46	-4.20	133.26

JPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

NY : MOHAWK PETROLEUM
OF TEST : 9-21-1988
: 4440.0

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
NO.:2					
- 4:49	50.0	.125	141.84	-4.18	137.67
- 4:54	55.0	.129	146.22	-4.15	142.07
- 4:58	59.0	.132	149.50	-4.13	145.37
END FLOW	0.0	.132	149.50	-4.13	145.37
- 5:01	3.0	1.000	1099.30	1.80	1101.10
- 5:04	6.0	1.168	1283.13	2.58	1285.71
- 5:07	9.0	1.184	1300.64	2.66	1303.30
- 5:10	12.0	1.194	1311.58	2.71	1314.29
- 5:13	15.0	1.204	1322.52	2.75	1325.27
- 5:16	18.0	1.211	1330.18	2.78	1332.97
- 5:19	21.0	1.214	1333.46	2.80	1336.26
- 5:22	24.0	1.215	1334.56	2.80	1337.36
- 5:25	27.0	1.215	1334.56	2.80	1337.36
- 5:28	30.0	1.215	1334.56	2.80	1337.36
- 5:31	33.0	1.215	1334.56	2.80	1337.36
- 5:34	36.0	1.215	1334.56	2.80	1337.36
- 5:37	39.0	1.215	1334.56	2.80	1337.36
- 5:40	42.0	1.215	1334.56	2.80	1337.36
- 5:43	45.0	1.216	1335.65	2.81	1338.46
- 5:46	48.0	1.216	1335.65	2.81	1338.46
- 5:49	51.0	1.216	1335.65	2.81	1338.46
- 5:52	54.0	1.216	1335.65	2.81	1338.46
- 5:55	57.0	1.216	1335.65	2.81	1338.46
- 5:58	60.0	1.217	1336.75	2.81	1339.56
- 6:01	63.0	1.217	1336.75	2.81	1339.56
- 6:04	66.0	1.217	1336.75	2.81	1339.56
- 6:07	69.0	1.217	1336.75	2.81	1339.56
- 6:10	72.0	1.217	1336.75	2.81	1339.56
- 6:13	75.0	1.217	1336.75	2.81	1339.56
- 6:16	78.0	1.217	1336.75	2.81	1339.56
- 6:19	81.0	1.217	1336.75	2.81	1339.56
- 6:22	84.0	1.217	1336.75	2.81	1339.56
- 6:25	87.0	1.217	1336.75	2.81	1339.56
- 6:27	89.0	1.217	1336.75	2.81	1339.56
2ND SHUT-IN	0.0	1.217	1336.75	2.81	1339.56
HYDROSTATIC	0.0	1.972	2162.90	5.23	2168.12

CALCULATED RECOVERY ANALYSIS

Number: 2

Test ticket number: 10242

le #	Total Feet	***** Gas **** %	Gas **** Feet	***** Oil **** %	Oil **** Feet	***** Mud **** %	Mud **** Feet
1	40	12.00	4.80	13.00	5.20	75.00	30.00
2	80	28.00	22.40	50.00	40.00	15.00	12.00
3	160	49.00	78.40	38.00	60.80	8.00	12.80
4	120	63.00	75.60	30.00	36.00	2.00	2.40
5	60	62.00	37.20	30.00	18.00	3.00	1.80
L	460	47.48	218.40	34.78	160.00	12.83	59.00

le #	Total Feet	**** WATER **** %	WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	40	0.00	0.00	0.00	0.00	0.00
2	80	7.00	5.60	0.00	0.00	0.00
3	160	5.00	8.00	0.00	0.00	0.00
4	120	5.00	6.00	0.00	0.00	0.00
5	60	5.00	3.00	0.00	0.00	0.00
L	460	4.91	22.60			

ERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

PERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

Y : MOHAWK PETROLEUM
F TEST : 9-21-1988

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8

RECOVERY INFORMATION

ID RECOVERY Total Fluid Recovered :

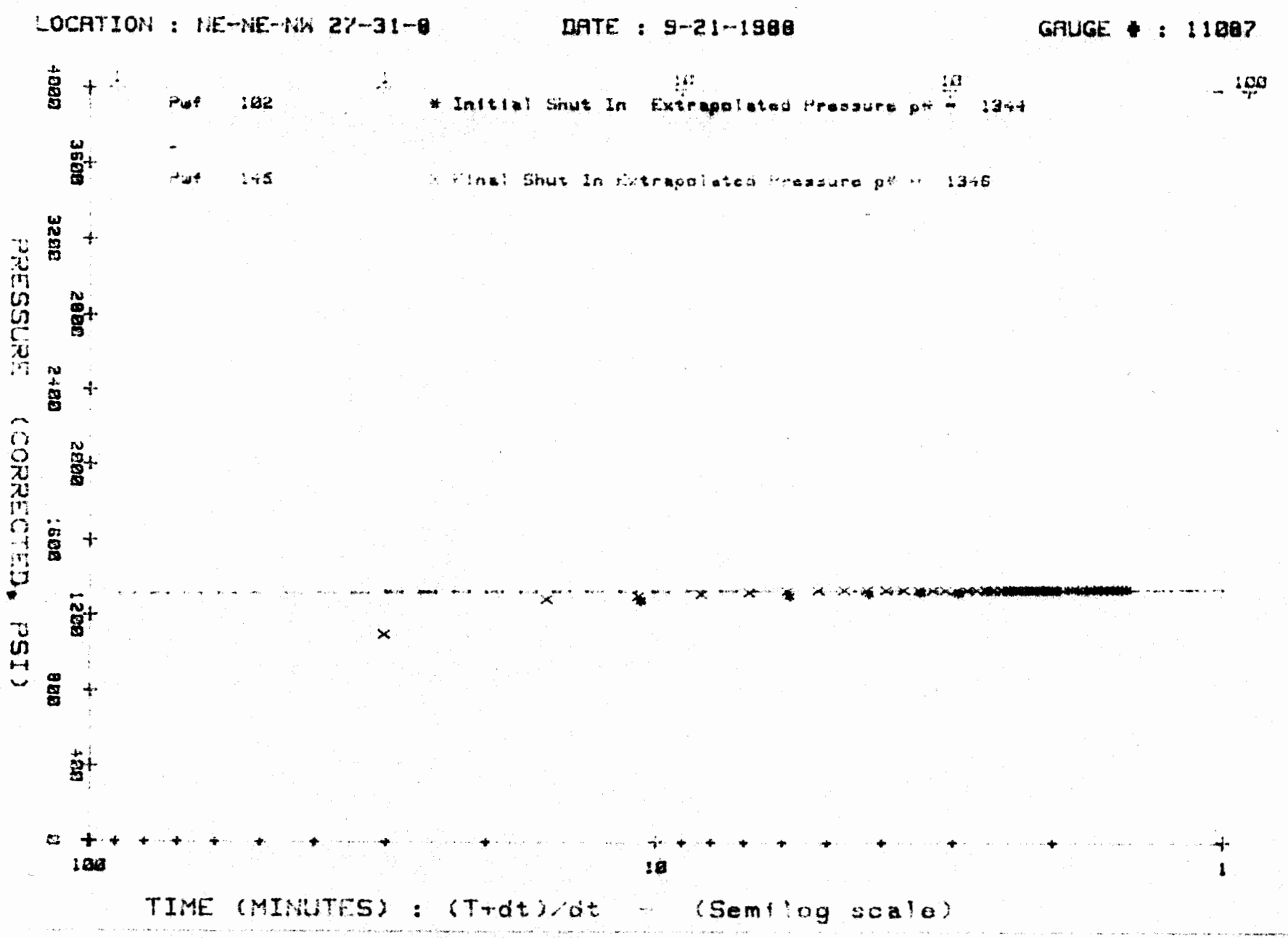
covered 460 feet of FROTHY OIL

ECOVERY Measured With : ORFICE TESTER (INCHES OF WATER) Riser : 2 INCH

ne (min.)	Reading	Surface Choke (in.)	Cubic feet/day
2:35	28.00	1.00	137000
2:45	40.00	1.00	163000
2:55	46.00	1.00	173000
4:10	36.00	1.00	155000
4:20	32.00	1.00	146000
4:30	30.00	1.00	141000
4:40	28.00	1.00	137000
4:50	26.00	1.00	132000
5:00	26.00	1.00	132000

PROPERTIES

	Viscosity (cp)	Compressibility (psi-1)	Pore Space Saturation
l	.8	7.7E-6	.45
s	.2	9.2E-6	.45
ter	.45	3.1E-6	.10


LOCATION : NE-NE-NW 27-31-8
DATE : 9-21-1988
GAUGE # : 11087
Pwf 102
* Initial Shut In Extrapolated Pressure pw* = 1344
Pwf 145
x Final Shut In Extrapolated Pressure pw* = 1346
PRESSURE (CORRECTED) PSI
4000
3600
3200
2800
2400
2000
1600
1200
800
400
0
100
10
1
TIME (MINUTES) : (T+dt)/dt - (Semi log scale)

JPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

NY : MOHAWK PETROLEUM
:F TEST : 9-21-1988
:0 : 2

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

OLATED RESERVOIR PRESSURE (psi):	1344.00
of Build-up Curve (psi/log cycle):	9.09
ive Producing Time (min):	29.00

RETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

JPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

NY : MOHAWK PETROLEUM
DF TEST : 9-21-1988
NO : 2

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

POLATED RESERVOIR PRESSURE (psi):	1344.00
of Build-up Curve (psi/log cycle):	9.09
tive Producing Time (min):	29.00

PRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

COMPANY : MOHAWK PETROLEUM
DATE OF TEST : 9-21-1988
DST. NO : 2

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (GAS)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1344.44
Slope of Build-up Curve (psi/log cycle):	27507.01
Effective Producing Time (min):	29.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MOHAWK PETROLEUM
WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
STATE & COUNTY : KANSAS,HARPER
DATE OF TEST : 9-21-1988
TEST INT. KB : 4425 to 4446
TOTAL INTERVAL (ft) K.B. : 21.00
ELEV.(GR) : 1604 (KB) : 1611
FIELD :

ELEMENT SERIAL NO. : 11087
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 4440.0 ft-kb			
-2:59 END FLOW	0.00	0.00	102.42
	3.00	10.67	1279.74
	6.00	5.83	1304.17
	9.00	4.22	1318.28
	12.00	3.42	1325.99
	15.00	2.93	1331.39
	18.00	2.61	1337.00
	21.00	2.38	1340.31
	24.00	2.21	1341.41
	27.00	2.07	1341.41
	30.00	1.97	1341.41
	33.00	1.88	1341.41
	36.00	1.81	1341.41
	39.00	1.74	1341.41
	42.00	1.69	1342.51
	45.00	1.64	1342.51
	48.00	1.60	1342.51
	51.00	1.57	1342.51
	54.00	1.54	1342.51
	57.00	1.51	1342.51
	60.00	1.48	1342.51
-3:59 1ST SHUT-IN	0.00	0.00	1342.51

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

MPANY : MOHAWK PETROLEUM
L NAME : MUIR #1-27
CATION : NE-NE-NW 27-31-8
TE & COUNTY : KANSAS,HARPER
E OF TEST : 9-21-1988
T INT. KB : 4425 to 4446
AL INTERVAL (ft) K.B. : 21.00
V.(GR) : 1604 (KB) : 1611
LD :

MENT SERIAL NO. : 11087
EST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	---- PRESSURES CORR PSIG ----
er. depth : 4440.0 ft-kb			
58 END FLOW	0.00	0.00	145.37
	3.00	30.33	1101.32
	6.00	15.67	1286.34
	9.00	10.78	1303.96
	12.00	8.33	1314.98
	15.00	6.87	1322.99
	18.00	5.89	1333.70
	21.00	5.19	1337.00
	24.00	4.67	1338.11
	27.00	4.26	1338.11
	30.00	3.93	1338.11
	33.00	3.67	1338.11
	36.00	3.44	1338.11
	39.00	3.26	1338.11
	42.00	3.10	1338.11
	45.00	2.96	1339.21
	48.00	2.83	1339.21
	51.00	2.73	1339.21
	54.00	2.63	1339.21
	57.00	2.54	1339.21
	60.00	2.47	1340.31
	63.00	2.40	1340.31
	66.00	2.33	1340.31
	69.00	2.28	1340.31
	72.00	2.22	1340.31
	75.00	2.17	1340.31
	78.00	2.13	1340.31
	81.00	2.09	1340.31
	84.00	2.05	1340.31
	87.00	2.01	1340.31

RPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

JPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

NY : MOHAWK PETROLEUM
OF TEST : 9-21-1988
NO : 2

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

NSMISSIBILITY
md.ft/cp): 126.25
md.ft/cp): 0.00

ECTIVE PERMEABILITY
md): 12.32
md): 0.00

MOBILITY (md/cp): 15.40

COMPRESSIBILITY (psi-1): 8.40E-06

IATED DAMAGE RATIO: 15.61

JLATED DAMAGE RATIO: 14.60

voir Temperature (F): 117.00
tion Porosity : ..... .18
tion Thickness (ft): 10.00
ore Radius (in): 3.94
voir Compressibility (psi-1): 4.80E-07
lated Skin Factor : 76.91

JCTION WITH DAMAGE REMOVED (bbl/D): 189.85

JCTIVITY INDEX (bbl/psi): ..... .01

Flow Pressure (psi): 145.00

JXIMATE RADIUS OF INVESTIGATION (ft): 124.79

Flowing Time (min): 88.00

APOLATED RESERVOIR PRESSURE (psi): 1346.00

of Build-up Curve (psi/log cycle): 16.74
ctive Producing Time (min): 88.00

PRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

D A T A S U M M A R Y

COMPANY : MOHAWK PETROLEUM
DATE OF TEST : 9-21-1988
DST. NO : 2

WELL NAME : MUIR #1-27
LOCATION : NE-NE-NW 27-31-8
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (GAS)

TRANSMISSIBILITY

Oil (md.ft/cp):	0.00
Gas (md.ft/cp):	2849.09

EFFECTIVE PERMEABILITY

Oil (md):	0.00
Gas (md):	48.43
TOTAL MOBILITY (md/cp):	242.17
TOTAL COMPRESSIBILITY (psi-1):	9.20E-04
ESTIMATED DAMAGE RATIO:	8.92
CALCULATED DAMAGE RATIO:	10.07
Reservoir Temperature (F):	117.00
Formation Porosity :	.18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi-1):	4.80E-07
Calculated Skin Factor :	42.46
PRODUCTION WITH DAMAGE REMOVED (MCF/D):	1329.00
PRODUCTIVITY INDEX (MCF/psi):	.11
Final Flow Pressure (psi):	145.00
APPROXIMATE RADIUS OF INVESTIGATION (ft):	47.26
Total Flowing Time (min):	88.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1346.29
Slope of Build-up Curve (psi/log cycle):	43736.53
Effective Producing Time (min):	88.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.