

SUPERIOR TESTERS

RR #1, Box 295B, Great Bend, Kansas

Date 10-2-85 Location C.M.N.S.W. 20-225-21^N Elevation 2207KB County Hodgeman

Company Energy Three Inc. Number of Copies 5

Address P.O. Box 1505 Gt. Bend Ks. 67530

Charts Mailed to P.O. Box 1505 Gt. Bend Ks. 67530

Invoice Mailed to P.O. Box 1505 Gt. Bend Ks. 67530

Lease Salmons Well No. #1 Formation Tested Mississippi Test No. 1

Depth 4434 Tested from 4415 to 4434 Packer Size 6 3/4 Anchor Length 19'

Top Packer Depth 4410 ft. Bottom Packer Depth 4415 ft. Dual Packers YES

Tool Joint Size 4 1/2" F.H. Tool Size 5 1/2" O.D. Hole Size 7 7/8 Did Packer Hold YES

Drilling Contractor Big Three Drig. Rig #1

Length Drill Pipe 4394' I.D. Drill Pipe 3.80" Tool Joint Size 4 1/2" X hole

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars — I.D. Drill Collars — Tool Joint Size —

Tool Open I.F.P. from <u>5:00 a m</u> to <u>5:30 a m</u> <u>30</u> min	from [B] <u>77</u> P.S.I. to [C] <u>44</u> P.S.I.
Tool Closed I.C.I.P. from <u>5:30 a m</u> to <u>6:15 a m</u> <u>45</u> min	[D] <u>1265</u> P.S.I.
Tool Open F.F.P. from <u>6:15 a m</u> to <u>6:45 a m</u> <u>30</u> min	from [E] <u>99</u> P.S.I. to [F] <u>77</u> P.S.I.
Tool Closed F.C.I.P. from <u>6:45 a m</u> to <u>7:30 a m</u> <u>45</u> min	[G] <u>1210</u> P.S.I.

Initial Hydrostatic Pressure [A] 2318 P.S.I. Final Hydrostatic Pressure [H] 2296 P.S.I. Maximum Temp 149 °F

Initial Blow Strong built to bottom of bucket in 12 min.

Final Blow Strong built to bottom of bucket in 10 min.

Gas to Surface — Min. Oil to Surface — Min. Mut Weight 9.8 Viscosity 42

Gas Guaged —

Recovery 900' Gas in Pipe
135' ~~Gas~~ Heavy Gas Cut Muddy Oil (Fraggy)
(43% Gas 32% Oil, 25% Mud)
45' Free Run Gassy Oil 35% Gas, 65% Oil
 Remarks 180' Total Fluid Recovery

Extra Equipment-Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —

Top Recorder No. 11087 Clock no. 23914 Depth 4428 Clr. Sub — Sampler —

Bottom Recorder No. 11084 Clock No. 25851 Depth 4431 Chlorides - pits 66,000 D.S.T. —

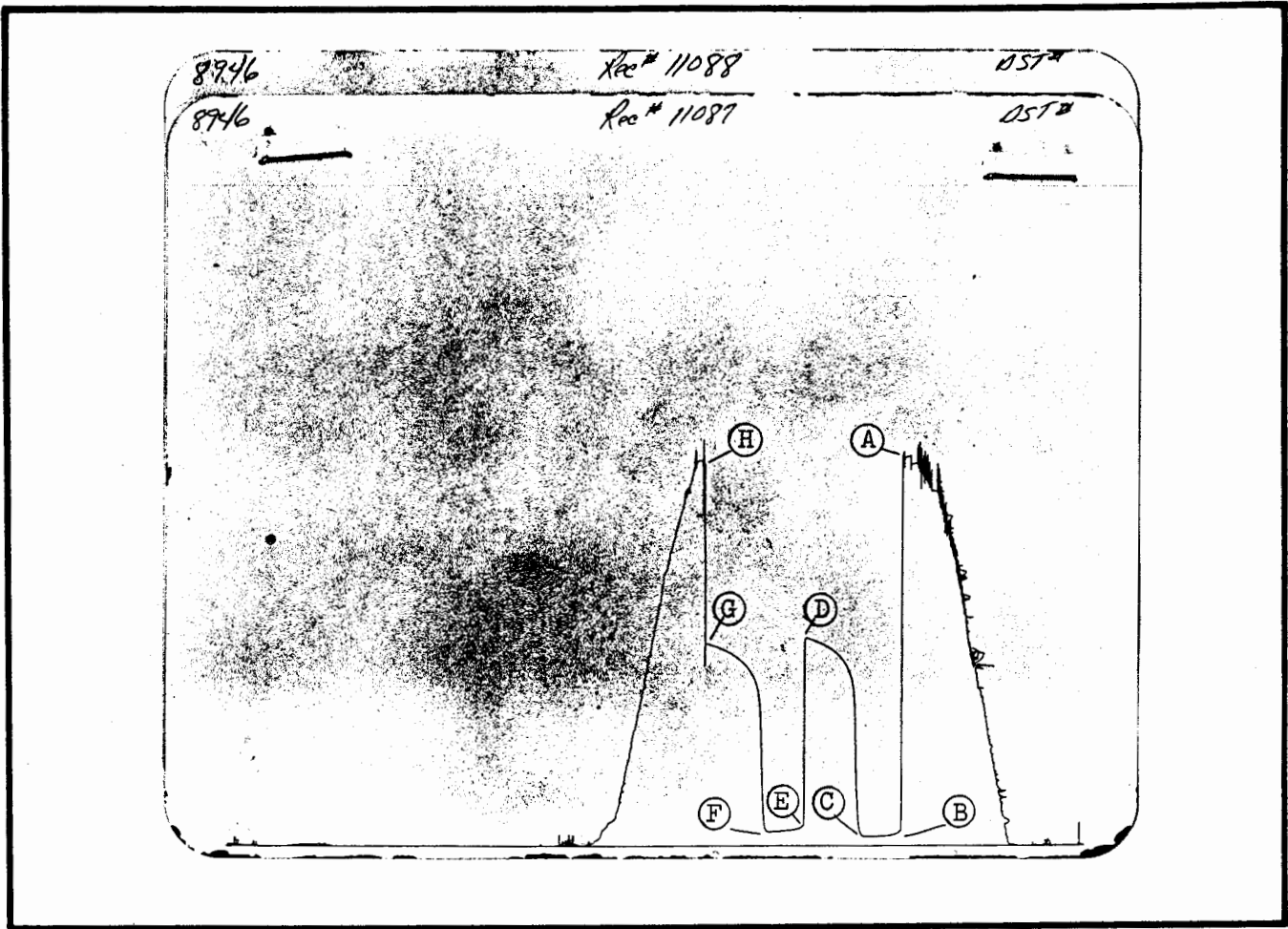
Price of Job —

Tool Operator [Signature]

Approved By [Signature]

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONEL 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.

Ticket N° 8946



POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2318	2346	P.S.I.
(B) First Initial Flow Pressure	77	93	P.S.I.
(C) First Final Flow Pressure	44	62	P.S.I.
(D) Initial Closed-in Pressure	1265	1259	P.S.I.
(E) Second Initial Flow Pressure	99	127	P.S.I.
(F) Second Final Flow Pressure	77	91	P.S.I.
(G) Final Closed-in Pressure	1210	1226	P.S.I.
(H) Final Hydrostatic Mud	2296	2326	P.S.I.

SUPERIOR TESTERS ENTERPRISES, INC.

WELL IDENTIFICATION DATA

COMPANY : ENERGY THREE INC. WELL NAME : SALMANS #1
ADDRESS : BOX 1505, GREAT BEND LOCATION : 20-22S-21W
STATE & COUNTY : KANSAS, HODGEMAN FIELD :
ELEV.(GR) : (KB) : 2207 TEST DATE : 10-2-85

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 4394
TEST INT. KB : 4415 to 4434 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 19 WEIGHT PIPE LENGTH(ft) : NONE
TYPE OF TEST : Conventional WEIGHT PIPE ID : NONE
TOTAL DEPTH(ft-kb) : 4434 DRILL COLLAR LENGTH(ft) : NONE
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : NONE
MUD WEIGHT : 9.8 TOP PACKER DEPTH(kb) : 4410
MUD VISCOSITY : 42 BOTTOM PACKER DEPTH(kb) : 4415
MUD CHLORIDES : 61000 DUAL PACKERS : YES
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) : 149 TEST TICKET NUMBER : 8946

EXTRA EQUIPMENT :

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

SURFACE BLOW

1st Opening : STRONG BUILT TO BOTTOM OF BUCKET IN 12 MIN.
2nd Opening : STRONG BUILT TO BOTTOM OF BUCKET IN 10 MIN.

RECOVERY

Recovered 900 feet of GAS IN PIPE
Recovered 135 feet of HEAVY GAS CUT MUDDY OIL (FROGGY)
Recovered 45 feet of FREE CLEAN GASSY OIL

REMARKS :

WITNESSED BY : CHRIS PETERS

TOOL OPERATOR : DAN OCHS

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DEPTH : 4428.0

WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4428.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.135	2341.26	4.81	2346.07
-05:00 1ST FLOW	0.0	.085	98.07	-4.46	93.61
- 5:04	4.0	.071	82.75	-4.56	78.19
- 5:09	9.0	.063	74.00	-4.62	69.38
- 5:13	13.0	.059	69.62	-4.64	64.98
- 5:17	17.0	.057	67.43	-4.66	62.78
- 5:21	21.0	.057	67.43	-4.66	62.78
- 5:26	26.0	.057	67.43	-4.66	62.78
- 5:29	29.0	.057	67.43	-4.66	62.78
-05:29 END FLOW	0.0	.057	67.43	-4.66	62.78
- 5:32	3.0	.094	107.92	-4.40	103.52
- 5:34	5.0	.362	401.18	-2.50	398.68
- 5:38	9.0	.901	990.97	1.32	992.29
- 5:40	11.0	.966	1062.09	1.64	1063.74
- 5:43	14.0	1.003	1102.58	1.81	1104.40
- 5:46	17.0	1.035	1137.60	1.96	1139.56
- 5:49	20.0	1.056	1160.58	2.06	1162.64
- 5:52	23.0	1.070	1175.89	2.13	1178.02
- 5:54	25.0	1.087	1194.50	2.21	1196.70
- 5:58	29.0	1.100	1208.72	2.27	1210.99
- 6:00	31.0	1.110	1219.66	2.31	1221.98
- 6:03	34.0	1.119	1229.51	2.36	1231.87
- 6:06	37.0	1.127	1238.27	2.39	1240.66
- 6:09	40.0	1.134	1245.93	2.43	1248.35
- 6:12	43.0	1.141	1253.59	2.46	1256.04
- 6:13	44.0	1.144	1256.87	2.47	1259.34
-06:13 1ST SHUT-IN	0.0	1.144	1256.87	2.47	1259.34
-06:13 2ND FLOW	0.0	.116	131.99	-4.24	127.75
- 6:17	4.0	.099	113.39	-4.36	109.03
- 6:22	9.0	.092	105.73	-4.41	101.32
- 6:26	13.0	.089	102.45	-4.43	98.02
- 6:30	17.0	.087	100.26	-4.45	95.81
- 6:34	21.0	.084	96.98	-4.47	92.51
- 6:39	26.0	.083	95.88	-4.47	91.41
- 6:41	28.0	.083	95.88	-4.47	91.41
-06:41 END FLOW	0.0	.083	95.88	-4.47	91.41
- 6:44	3.0	.135	152.78	-4.10	148.68
- 6:47	6.0	.769	846.53	.39	846.92
- 6:50	9.0	.891	980.03	1.25	981.28
- 6:52	11.0	.935	1028.17	1.50	1029.67

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DEPTH : 4428.0

WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:1					
- 6:55	14.0	.971	1067.57	1.67	1069.23
- 6:58	17.0	.996	1094.92	1.78	1096.70
- 7:01	20.0	1.015	1115.71	1.87	1117.58
- 7:04	23.0	1.032	1134.31	1.95	1136.26
- 7:06	25.0	1.047	1150.73	2.02	1152.75
- 7:09	28.0	1.059	1163.86	2.08	1165.93
- 7:12	31.0	1.070	1175.89	2.13	1178.02
- 7:15	34.0	1.080	1186.84	2.17	1189.01
- 7:18	37.0	1.089	1196.69	2.22	1198.90
- 7:21	40.0	1.098	1206.53	2.26	1208.79
- 7:23	42.0	1.104	1213.10	2.29	1215.38
- 7:26	45.0	1.110	1219.66	2.31	1221.98
- 7:28	47.0	1.114	1224.04	2.33	1226.37
-07:29 2ND SHUT-IN	0.0	1.114	1224.04	2.33	1226.37
-2ND HYDROSTATIC	0.0	2.117	2321.56	4.86	2326.42

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W

RECOVERY INFORMATION

LIQUID RECOVERY

Total Fluid Recovered : 180

Recovered 900 feet of GAS IN PIPE
Recovered 135 feet of HEAVY GAS CUT MUDDY OIL (FROGGY)
Recovered 45 feet of FREE CLEAN GASSY OIL

GAS RECOVERY

Measured With :

Riser :

Time (min.)

()

Reading

Surface Choke (in.)

Cubic feet/day

FLUID PROPERTIES

	Viscosity (cp)	Compressibility (psi ⁻¹)	Pore Space Saturation
Oil	.8	7.7E-6	.40
Gas			.41
Water			

CALCULATED RECOVERY ANALYSIS

DST Number:1

Test ticket number:8946

Sample #	Total Feet	***** Gas ****		***** Oil ****		***** Mud ****	
		%	Feet	%	Feet	%	Feet
1	135	43.00	58.05	32.00	43.20	25.00	33.75
2	45	35.00	15.75	65.00	29.25	0.00	0.00
TOTAL	180	41.00	73.80	40.25	72.45	18.75	33.75

Sample #	Total Feet	**** WATER ****		Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
		%	Feet			
1	135	0.00	0.00	0.00	0.00	0.00
2	45	0.00	0.00	0.00	0.00	0.00
TOTAL	180	0.00	0.00			

INTERPRETATION BY : SUPERIOR TESTERS INC.

PRESSURE (P S I G)

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

-180

-90

0

90

180

270

360

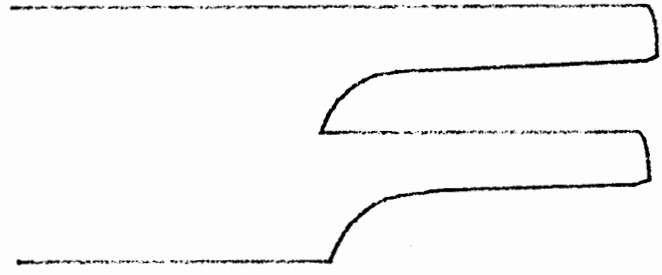
450

540

630

720

TIME (MINUTES)

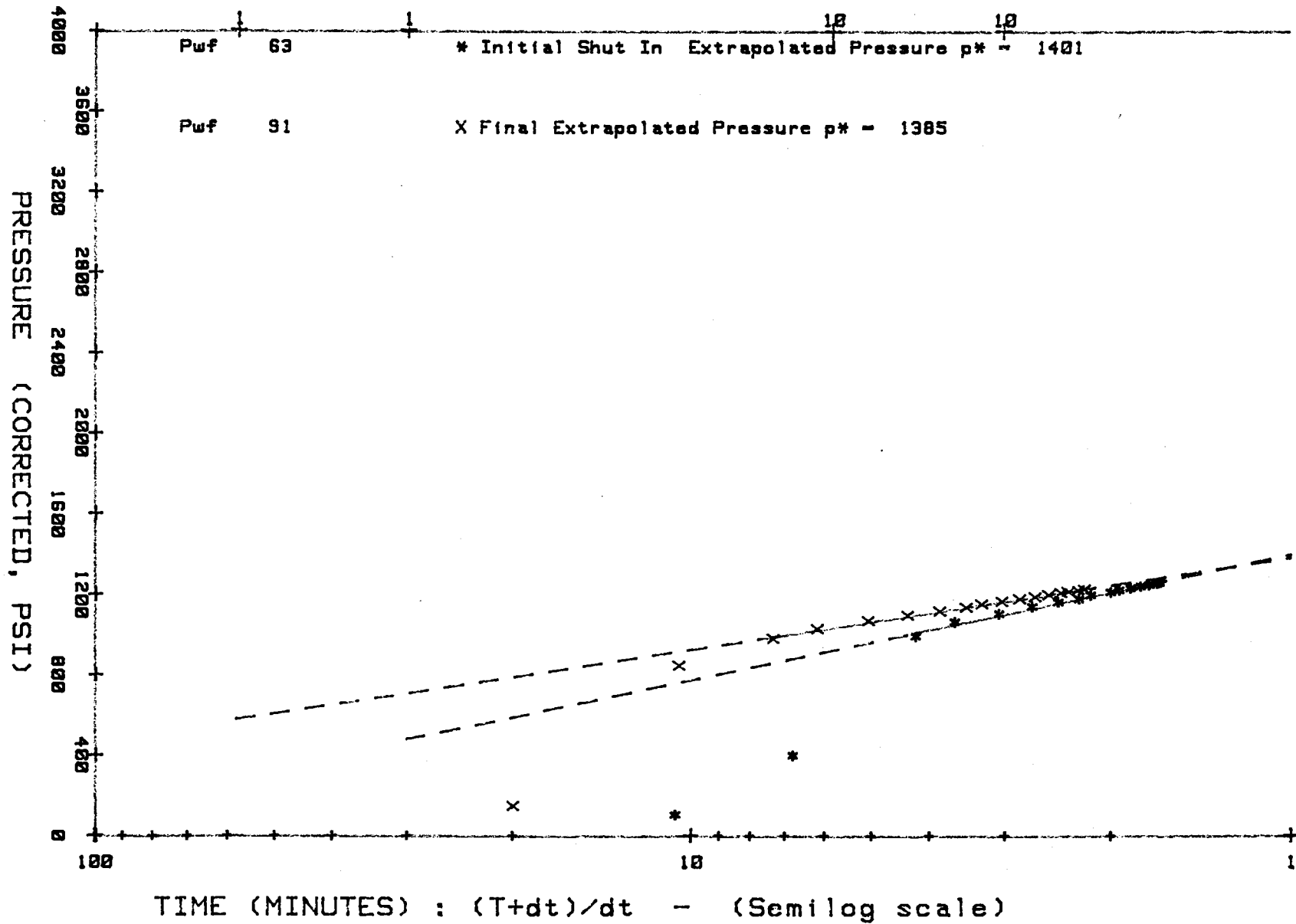


COMPANY : ENERGY THREE INC.
WELL : SALMANS #1
LOCATION : 20-225-21W
DATE : 10-2-85
GAUGE # : 11087

LOCATION : 20-22S-21W

DATE : 10-2-85

GAUGE # : 11087



SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 STATE & COUNTY : KANSAS, HODGEMAN
 DATE OF TEST : 10-2-85
 TEST INT. KB : 4415 to 4434
 TOTAL INTERVAL (ft) K.B. : 19.00
 ELEV.(GR) : (KB) : 2207
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4428.0 ft-kb		
-05:29 END FLOW	0.00	0.00	62.78
	3.00	10.67	103.52
	5.00	6.80	398.68
	9.00	4.22	992.29
	11.00	3.64	1063.88
	14.00	3.07	1104.63
	17.00	2.71	1139.87
	20.00	2.45	1163.00
	23.00	2.26	1178.41
	25.00	2.16	1197.14
	29.00	2.00	1211.45
	31.00	1.94	1222.47
	34.00	1.85	1232.38
	37.00	1.78	1241.19
	40.00	1.73	1248.90
	43.00	1.67	1256.61
	44.00	1.66	1259.91
-06:13 1ST SHUT-IN	0.00	0.00	1259.91

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC. WELL NAME : SALMANS #1
DATE OF TEST : 10-2-85 LOCATION : 20-22S-21W
DST. NO : 1 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1401.00
Slope of Build-up Curve (psi/log cycle): 622.73
Effective Producing Time (min): 29.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 STATE & COUNTY : KANSAS, HODGEMAN
 DATE OF TEST : 10-2-85
 TEST INT. KB : 4415 to 4434
 TOTAL INTERVAL (ft) K.B. : 19.00
 ELEV. (GR) : (KB) : 2207
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4428.0 ft-kb		
-06:41 END FLOW	0.00	0.00	91.41
	3.00	20.00	148.68
	6.00	10.50	846.92
	9.00	7.33	981.28
	11.00	6.18	1029.74
	14.00	5.07	1069.38
	17.00	4.35	1096.92
	20.00	3.85	1117.84
	23.00	3.48	1136.56
	25.00	3.28	1153.08
	28.00	3.04	1166.30
	31.00	2.84	1178.41
	34.00	2.68	1189.43
	37.00	2.54	1199.34
	40.00	2.42	1209.25
	42.00	2.36	1215.86
	45.00	2.27	1222.47
	47.00	2.21	1226.87
-07:29 2ND SHUT-IN	0.00	0.00	1226.87

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

D A T A S U M M A R Y

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85
DST. NO : 1

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1385.00
Slope of Build-up Curve (psi/log cycle):	456.65
Effective Producing Time (min):	57.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DST. NO : 1

WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 9.25
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):90
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 1.13

TOTAL COMPRESSIBILITY (psi-1): 3.56E-06

ESTIMATED DAMAGE RATIO:64

CALCULATED DAMAGE RATIO:72

Reservoir Temperature (F): 149.00

Formation Porosity :20

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : -1.25

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 18.81

PRODUCTIVITY INDEX (bbl/psi):02

Final Flow Pressure (psi): 91.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 39.61

Total Flowing Time (min): 57.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1385.00

Slope of Build-up Curve (psi/log cycle): 456.65

Effective Producing Time (min): 57.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS

RR #1, Box 295B, Great Bend, Kansas

Date 10.2.85 Location C. NW. SW. 20. 22. 21^W Elevation 2207^{KB} County Hodgeman

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Lease Salmons Well No. #1 Formation Tested Mississippi Test No. 2

Depth 4442 Tested from 4434 to 4442 Packer Size 6 3/4 Anchor Length 8'

Top Packer Depth 4429 ft. Bottom Packer Depth 4434 ft. Dual Packers YES

Tool Joint Size 4 1/2" F.H. Tool Size 5 1/2" O.D. Hole Size 7 7/8" Did Packer Hold YES

Drilling Contractor Dig Three Drilling #1

Length Drill Pipe 4409' I.D. Drill Pipe 3.80" Tool Joint Size 4 1/2" X Hole

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars — I.D. Drill Collars — Tool Joint Size —

Tool Open I.F.P. from 8:00 p m to 8:30 p m 30 min

Tool Closed I.C.I.P. from 8:30 p m to 9:30 p m 60 min

Tool Open F.F.P. from 9:30 p m to 10:15 p m 45 min

Tool Closed F.C.I.P. from 10:15 p m to 11:45 p m 90 min

from [B]	<u>132</u>	P.S.I. to [C]	<u>210</u>	P.S.I.
[D]	<u>1320</u>			P.S.I.
from [E]	<u>298</u>	P.S.I. to [F]	<u>453</u>	P.S.I.
[G]	<u>1309</u>			P.S.I.

Initial Hydrostatic Pressure [A] 2329 P.S.I. Final Hydrostatic Pressure [H] 2307 P.S.I. Maximum Temp 143 °F

Initial Blow Strong off bottom of bucket in 3 min

Final Blow Strong off bottom of bucket in 7 min

Gas to Surface — Min. Oil to Surface — Min. Mut Weight 9.9 Viscosity 47

Gas Guaged —

Recovery 180' Gas in Pipe
180' Oil & Gas Cut Murky Water - 10% Gas, 35% oil, 45% Water, 10% M.O
360' Slightly Oil & Gas Cut Water - 10% Gas, 15% oil, 75% Water
480' Water

Remarks _____

Extra Equipment-Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —

Top Recorder No. 11087 Clock no. 23914 Depth 4436 Cir. Sub — Sampler —

Bottom Recorder No. 11088 Clock No. 25851 Depth 4439 Chlorides - pits 6,100 D.S.T. 29,000

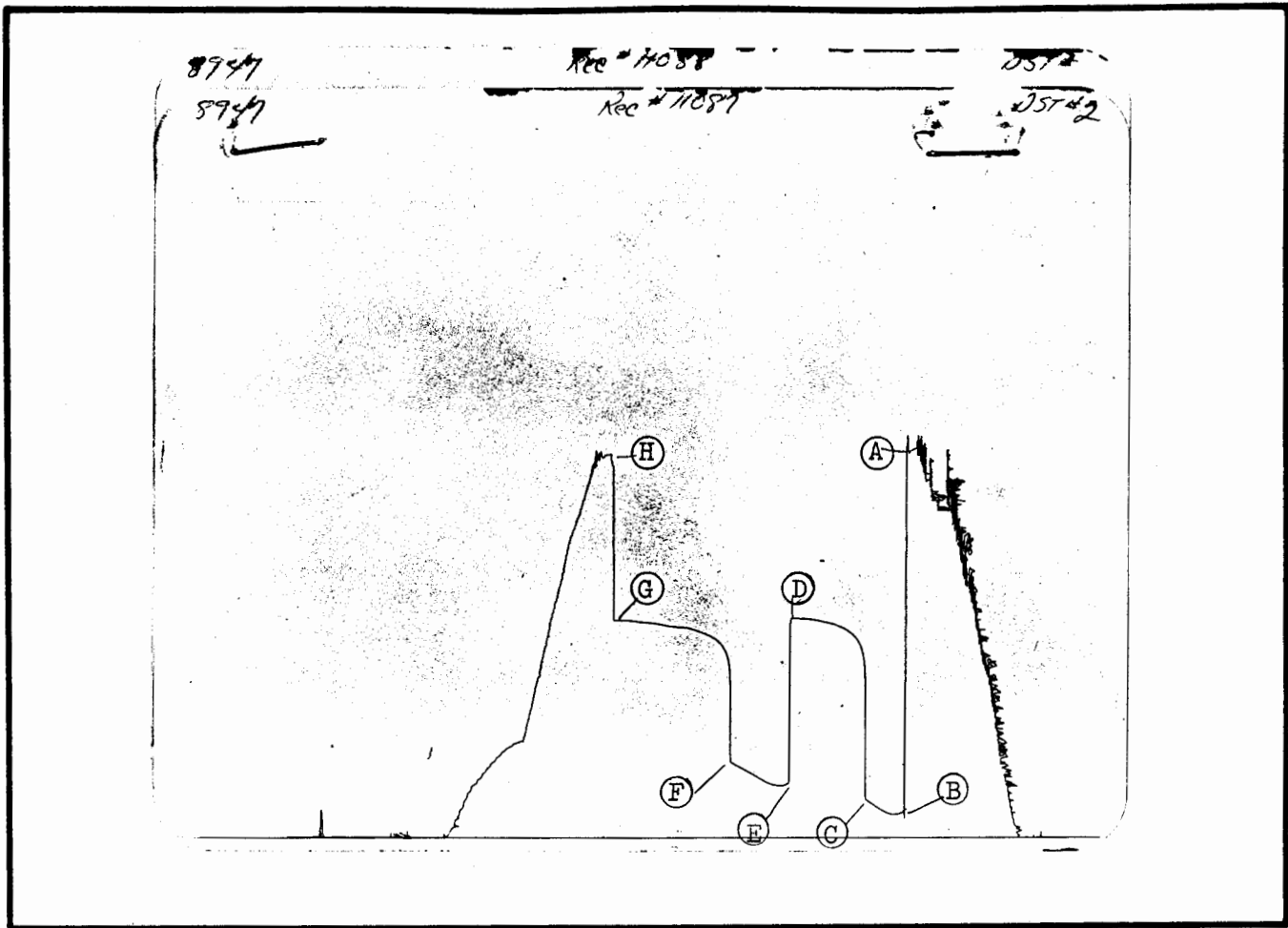
Price of Job _____

Tool Operator Stan Decker

Approved By _____

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Ticket N° 8947



POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2329	2344	P.S.I.
(B) First Initial Flow Pressure	132	149	P.S.I.
(C) First Final Flow Pressure	210	221	P.S.I.
(D) Initial Closed-in Pressure	1320	1321	P.S.I.
(E) Second Initial Flow Pressure	298	328	P.S.I.
(F) Second Final Flow Pressure	453	450	P.S.I.
(G) Final Closed-in Pressure	1309	1308	P.S.I.
(H) Final Hydrostatic Mud	2308	2312	P.S.I.

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DEPTH : 4436.0

WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4436.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.134	2340.16	4.82	2344.98
- 0:00	0.0	.136	153.88	-4.10	149.78
- 0:04	4.0	.128	145.12	-4.15	140.97
- 0:09	9.0	.126	142.94	-4.17	138.77
- 0:13	13.0	.130	147.31	-4.14	143.17
- 0:17	17.0	.141	159.35	-4.06	155.29
- 0:22	22.0	.161	181.23	-3.92	177.31
- 0:26	26.0	.184	206.40	-3.76	202.64
- 0:30	30.0	.201	225.00	-3.64	221.37
-20:30 END FLOW	0.0	.201	225.00	-3.64	221.37
- 20:33	3.0	1.002	1101.49	1.81	1103.30
- 20:36	6.0	1.062	1167.14	2.09	1169.23
- 20:39	9.0	1.093	1201.06	2.23	1203.30
- 20:41	11.0	1.115	1225.14	2.34	1227.47
- 20:44	14.0	1.128	1239.36	2.40	1241.76
- 20:47	17.0	1.141	1253.59	2.46	1256.04
- 20:50	20.0	1.150	1263.43	2.50	1265.93
- 20:53	23.0	1.159	1273.28	2.54	1275.82
- 20:56	26.0	1.166	1280.94	2.58	1283.52
- 20:59	29.0	1.172	1287.51	2.60	1290.11
- 21:01	31.0	1.177	1292.98	2.63	1295.60
- 21:04	34.0	1.181	1297.35	2.65	1300.00
- 21:07	37.0	1.186	1302.83	2.67	1305.49
- 21:10	40.0	1.190	1307.20	2.69	1309.89
- 21:13	43.0	1.193	1310.49	2.70	1313.19
- 21:16	46.0	1.196	1313.77	2.72	1316.48
- 21:19	49.0	1.198	1315.96	2.72	1318.68
- 21:22	52.0	1.198	1315.96	2.72	1318.68
- 21:24	54.0	1.199	1317.05	2.73	1319.78
- 21:28	58.0	1.201	1319.24	2.74	1321.98
-21:28 1ST SHUT-IN	0.0	1.201	1319.24	2.74	1321.98
-21:28 2ND FLOW	0.0	.298	331.14	-2.95	328.19
- 21:32	4.0	.284	315.82	-3.05	312.78
- 21:37	9.0	.284	315.82	-3.05	312.78
- 21:41	13.0	.286	318.01	-3.04	314.98
- 21:45	17.0	.296	328.96	-2.96	325.99
- 21:49	21.0	.313	347.56	-2.84	344.71
- 21:54	26.0	.329	365.07	-2.73	362.33
- 21:58	30.0	.348	385.86	-2.60	383.26
- 22:02	34.0	.364	403.36	-2.48	400.88

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DEPTH : 4436.0

WELL NAME : SALMANS #1
 LOCATION : 20-225-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:2					
- 22:07	39.0	.380	420.87	-2.37	418.50
- 22:11	43.0	.396	438.38	-2.26	436.12
- 22:13	45.0	.409	452.60	-2.16	450.44
- 21:28	0.0	.400	442.76	-2.23	440.53
-22:13 END FLOW	0.0	.409	452.60	-2.16	450.44
- 22:16	3.0	.990	1088.36	1.75	1090.11
- 22:19	6.0	1.036	1138.69	1.97	1140.66
- 22:22	9.0	1.063	1168.24	2.09	1170.33
- 22:25	12.0	1.081	1187.93	2.18	1190.11
- 22:27	14.0	1.094	1202.16	2.24	1204.40
- 22:30	17.0	1.105	1214.19	2.29	1216.48
- 22:33	20.0	1.114	1224.04	2.33	1226.37
- 22:36	23.0	1.122	1232.79	2.37	1235.16
- 22:39	26.0	1.130	1241.55	2.41	1243.96
- 22:42	29.0	1.138	1250.30	2.44	1252.75
- 22:44	31.0	1.143	1255.77	2.47	1258.24
- 22:47	34.0	1.148	1261.25	2.49	1263.74
- 22:50	37.0	1.151	1264.53	2.51	1267.03
- 22:53	40.0	1.151	1264.53	2.51	1267.03
- 22:56	43.0	1.153	1266.72	2.51	1269.23
- 22:59	46.0	1.156	1270.00	2.53	1272.53
- 23:01	48.0	1.158	1272.19	2.54	1274.73
- 23:05	52.0	1.162	1276.56	2.56	1279.12
- 23:07	54.0	1.167	1282.04	2.58	1284.62
- 23:10	57.0	1.170	1285.32	2.59	1287.91
- 23:13	60.0	1.173	1288.60	2.61	1291.21
- 23:16	63.0	1.175	1290.79	2.62	1293.41
- 23:19	66.0	1.176	1291.88	2.62	1294.51
- 23:22	69.0	1.178	1294.07	2.63	1296.70
- 23:24	71.0	1.181	1297.35	2.65	1300.00
- 23:27	74.0	1.184	1300.64	2.66	1303.30
- 23:30	77.0	1.186	1302.83	2.67	1305.49
- 23:33	80.0	1.187	1303.92	2.67	1306.59
- 23:36	83.0	1.188	1305.01	2.68	1307.69
- 23:39	86.0	1.188	1305.01	2.68	1307.69
- 23:42	89.0	1.189	1306.11	2.68	1308.79
- 23:43	90.0	1.189	1306.11	2.68	1308.79
-23:43 2ND SHUT-IN	0.0	1.189	1306.11	2.68	1308.79
-2ND HYDROSTATIC	0.0	2.104	2307.34	4.89	2312.23

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W

RECOVERY INFORMATION

LIQUID RECOVERY

Total Fluid Recovered : 1020

Recovered 180 feet of GAS IN PIPE
Recovered 180 feet of OIL & GAS CUT MUDDY WATER
Recovered 360 feet of SLIGHTLY OIL & GAS CUT WATER
Recovered 480 feet of WATER

GAS RECOVERY	Measured With :		Riser :
Time (min.)	()	
	Reading	Surface Choke (in.)	Cubic feet/day

FLUID PROPERTIES

	Viscosity (cp)	Compressibility (psi ⁻¹)	Pore Space Saturation
Oil	.8	7.7E-6	.11
Gas			.05
Water	.45	3.1E-6	.81

CALCULATED RECOVERY ANALYSIS

DST Number: 2

Test ticket number: 8947

Sample #	Total Feet	***** Gas ***** %	***** Gas ***** Feet	***** Oil ***** %	***** Oil ***** Feet	***** Mud ***** %	***** Mud ***** Feet
1	180	10.00	18.00	35.00	63.00	10.00	18.00
2	360	10.00	36.00	15.00	54.00	0.00	0.00
3	480	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	1020	5.29	54.00	11.47	117.00	1.76	18.00

Sample #	Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	180	45.00	81.00	0.00	0.00	0.00
2	360	75.00	270.00	0.00	0.00	0.00
3	480	100.00	480.00	0.00	0.00	0.00
TOTAL	1020	81.47	831.00			

INTERPRETATION BY : SUPERIOR TESTERS INC.

PRESSURE (P S I G)

4000 3600 3200 2800 2400 2000 1600 1200 800 400 0

-180

-90

0

90

180

270

360

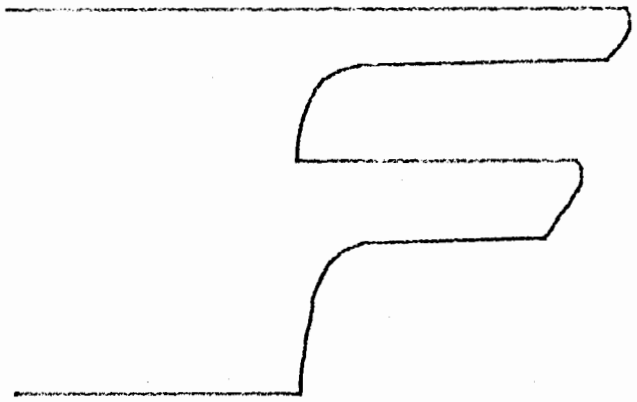
450

540

630

720

TIME (MINUTES)

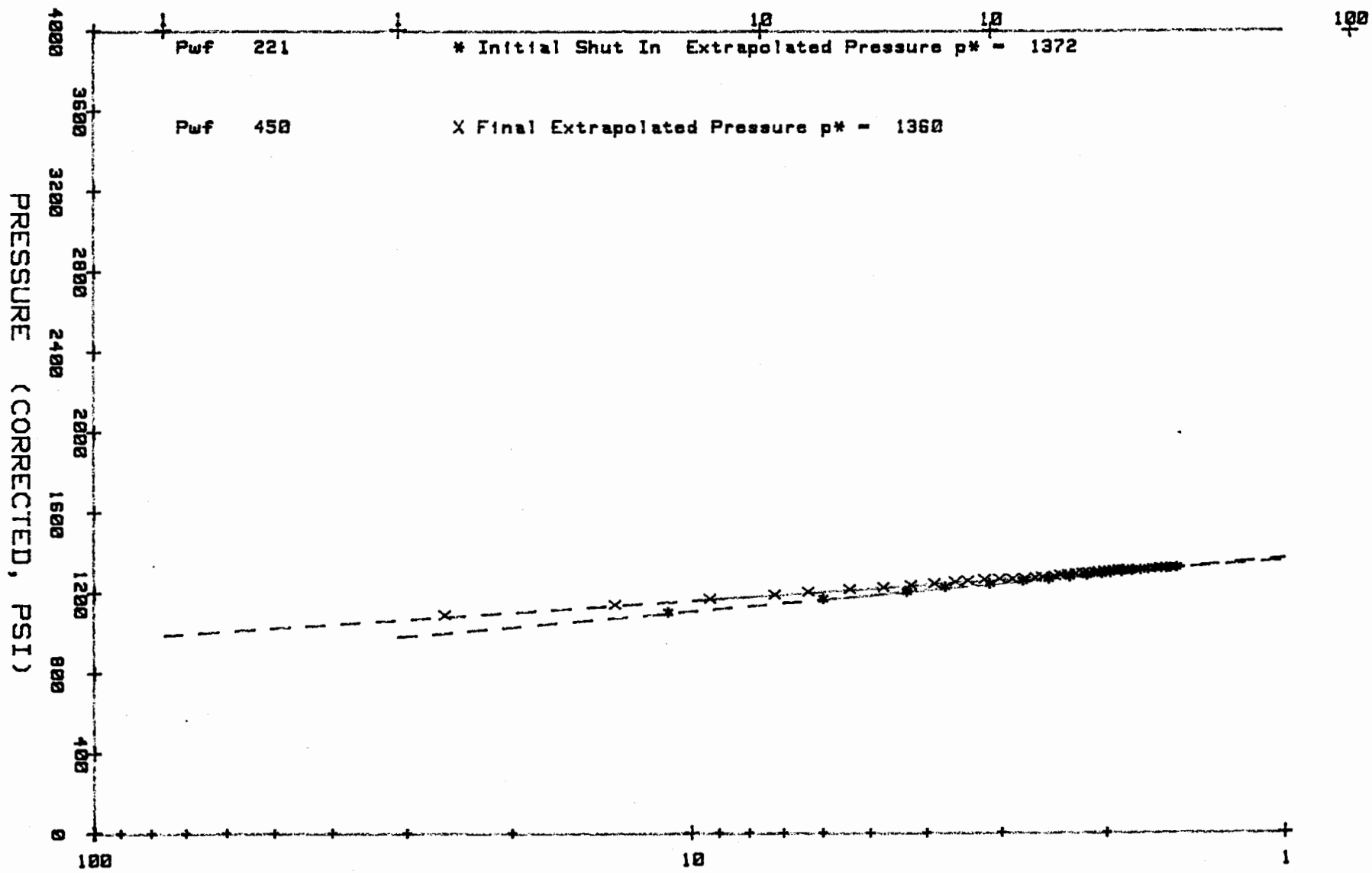


COMPANY : ENERGY THREE INC.
WELL : SALMANS #1
LOCATION : 20-22S-21W
DATE : 10-2-85
GAUGE # : 11087

LOCATION : 20-22S-21W

DATE : 10-2-85

GAUGE # : 11087



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

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 STATE & COUNTY : KANSAS, HODGEMAN
 DATE OF TEST : 10-2-85
 TEST INT. KB : 4434 to 4442
 TOTAL INTERVAL (ft) K.B. : 8.00
 ELEV. (GR) : (KB) : 2207
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
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Refer. depth : 4436.0 ft-kb

-20:30 END FLOW	0.00	0.00	221.37	
	3.00	11.00	1103.52	
	6.00	6.00	1169.60	
	9.00	4.33	1203.74	
	11.00	3.73	1227.97	
	14.00	3.14	1242.29	
	17.00	2.76	1256.61	
	20.00	2.50	1266.52	
	23.00	2.30	1276.43	
	26.00	2.15	1284.14	
	29.00	2.03	1290.75	
	31.00	1.97	1296.26	
	34.00	1.88	1300.66	
	37.00	1.81	1306.17	
	40.00	1.75	1310.57	
	43.00	1.70	1313.88	
	46.00	1.65	1317.18	
	49.00	1.61	1319.38	
	52.00	1.58	1319.38	
	54.00	1.56	1320.48	
	58.00	1.52	1322.69	
-21:28 1ST SHUT-IN	0.00	0.00	1322.69	

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

D A T A S U M M A R Y

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85
DST. NO : 2

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1372.00
Slope of Build-up Curve (psi/log cycle):	261.79
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 STATE & COUNTY : KANSAS, HODGEMAN
 DATE OF TEST : 10-2-85
 TEST INT. KB : 4434 to 4442
 TOTAL INTERVAL (ft) K.B. : 8.00
 ELEV.(GR) : (KB) : 2207
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
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Refer. depth : 4436.0 ft-kb

-22:13 END FLOW	0.00	0.00	450.44	
	3.00	26.00	1090.31	
	6.00	13.50	1140.97	
	9.00	9.33	1170.70	
	12.00	7.25	1190.53	
	14.00	6.36	1204.85	
	17.00	5.41	1216.96	
	20.00	4.75	1226.87	
	23.00	4.26	1235.68	
	26.00	3.88	1244.49	
	29.00	3.59	1253.30	
	31.00	3.42	1258.81	
	34.00	3.21	1264.32	
	37.00	3.03	1267.62	
	40.00	2.88	1267.62	
	43.00	2.74	1269.82	
	46.00	2.63	1273.13	
	48.00	2.56	1275.33	
	52.00	2.44	1279.74	
	54.00	2.39	1285.24	
	57.00	2.32	1288.55	
	60.00	2.25	1291.85	
	63.00	2.19	1294.05	
	66.00	2.14	1295.15	
	69.00	2.09	1297.36	
	71.00	2.06	1300.66	
	74.00	2.01	1303.96	
	77.00	1.97	1306.17	
	80.00	1.94	1307.27	
	83.00	1.90	1308.37	

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85
REFERENCE DEPTH : 4436.0

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W
SERIAL NO. : 11087

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
	86.00	1.87	1308.37	
	89.00	1.84	1309.47	
	90.00	1.83	1309.47	
-23:43 2ND SHUT-IN	0.00	0.00	1309.47	

SUPERIOR TESTERS ENTERPRISES, INC.

D A T A S U M M A R Y

COMPANY : ENERGY THREE INC.
DATE OF TEST : 10-2-85
DST. NO : 2

WELL NAME : SALMANS #1
LOCATION : 20-22S-21W
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1360.00
Slope of Build-up Curve (psi/log cycle):	197.07
Effective Producing Time (min):	75.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 10-2-85
 DST. NO : 2

WELL NAME : SALMANS #1
 LOCATION : 20-22S-21W
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 26.31
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md): 2.57
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 21.90

TOTAL COMPRESSIBILITY (psi⁻¹): 3.84E-06

ESTIMATED DAMAGE RATIO: 1.02

CALCULATED DAMAGE RATIO:87

Reservoir Temperature (F): 143.00

Formation Porosity :20

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : -.78

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 27.83

PRODUCTIVITY INDEX (bbl/psi):04

Final Flow Pressure (psi): 450.44

APPROXIMATE RADIUS OF INVESTIGATION (ft): 192.75

Total Flowing Time (min): 75.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1360.00

Slope of Build-up Curve (psi/log cycle): 197.07

Effective Producing Time (min): 75.00

INTERPRETATION BY : SUPERIOR TESTERS INC.