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

Date 12-2-85 Location 17 - 17S 12W Elevation _____ County Barton

Company Energy III Inc.

Address P.O. Box 1505 Great Bend Kansas 67530

Charts Mailed to P.O Box 1505 Great Bend Kansas 67530

Invoice Mailed to P.O. Box 1505 Great Bend Kansas 67530

Lease Klug Well No. #1 Formation Tested Arbuckle Test No. #1

Depth 3435' Tested from 3399' to 3435 Packer Size 6 3/4 Anchor Length 36'

Top Packer Depth 3394' ft. Bottom Packer Depth 3399' ft. Dual Packers yes

Tool Joint Size 4½ F.H. Tool Size 5½ O.D. Hole Size 7 7/8 Did Packer Hold yes

Drilling Contractor Big Three

Length Drill Pipe 3328' I.D. Drill Pipe 3.80 Tool Joint Size 4½ X.H.

Length Weight Pipe None I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars None I.D. Drill Collars — Tool Joint Size —

Tool Open I.F.P. from 2:05 Pm to 2:35 Pm 30 min

Tool Closed I.C.I.P. from 2:35 Pm to 3:20 Pm 45 min

Tool Open F.F.P. from 3:20 Pm to 3:50 Pm 30 min

Tool Closed F.C.I.P. from 3:50 Pm to 4:35 Pm 45 min

from [B]	42 P.S.I. to [C]	53	P.S.I.
[D]	918		P.S.I.
from [E]	53 P.S.I. to [F]	53	P.S.I
[G]	757		P.S.I.

Initial Hydrostatic Pressure [A] 1832 P.S.I. Final Hydrostatic Pressure [H] 1811 P.S.I Maximum Temp 98 °F

Initial Blow Weak Blow - Building very slowly 2" into water

Final Blow No Blow - Flushed Tool No Help

Gas to Surface None Min. Oil to Surface None Min. Mut Weight 9.7 Viscosity 45

Gas Guaged None

Recovery 60' Mud

Remarks Tool slid 4' To Bottom

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

Top Recorder No. 3825 Clock no. 27440 Depth 3429' Cir. Sub — Sampler None

Bottom Recorder No. 4333 Clock No. 8968 Depth 3432' Chlorides - pits _____ D.S.T. _____

Price of Job $550.00

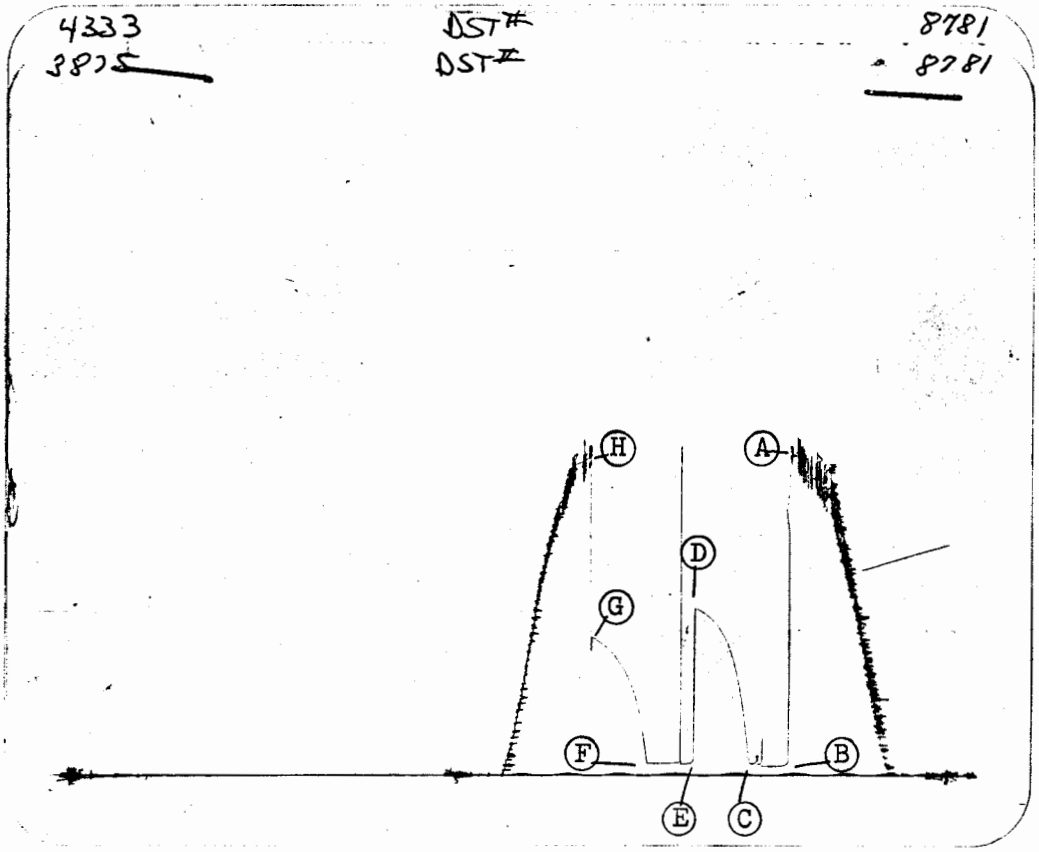
Tool Operator Dean Lippert

Approved By _____

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 № 8781

COMPANY ENERGY THREE INC. LEASE-WELL NO KLUG #1 SEC 17 TWP 17 RGE. 12W TEST NO. 1 DATE 12-2-85



POINT		PRESSURE FIELD READING	PRESSURE OFFICE READING	
(A)	Initial Hydrostatic Mud	1832	1808	P.S.I.
(B)	First Initial Flow Pressure	42	61	P.S.I.
(C)	First Final Flow Pressure	53	66	P.S.I.
(D)	Initial Closed-in Pressure	918	918	P.S.I.
(E)	Second Initial Flow Pressure	53	77	P.S.I.
(F)	Second Final Flow Pressure	53	67	P.S.I.
(G)	Final Closed-in Pressure	757	760	P.S.I.
(H)	Final Hydrostatic Mud	1811	1770	P.S.I.

SUPERIOR TESTERS ENTERPRISES, INC.

WELL IDENTIFICATION DATA

COMPANY : ENERGY THREE INC.
ADDRESS : BOX 1505, GREAT BEND KS
STATE & COUNTY : KANSAS, BARTON
ELEV.(GR) : (KB) :

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
FIELD :
TEST DATE : 12-2-85

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE
TEST INT. KB : 3399 to 3435
ANCHOR LENGTH(ft) : 36
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kb) : 3435
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.7
MUD VISCOSITY : 45
MUD CHLORIDES :
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) : 98

DRILL PIPE LENGTH(ft) : 3378
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : NONE
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) : NONE
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3394
BOTTOM PACKER DEPTH(kb) : 3399
DUAL PACKERS : YES
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 8781

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 3875
RANGE : 0 - 4225 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1060.93 * Defl. + 4.92

SURFACE BLOW

1st Opening : WEAK BUILT VERY SLOWLY 2" INTO WATER
2nd Opening : NO BLOW-FLUSHED TOOL- NO HELP

RECOVERY

Recovered 60 feet of MUD

REMARKS :

TOOL SLID 7 FT. TO BOTTOM

WITNESSED BY : TOOL OPERATOR : IVAN SUPPES

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-2-85
DEPTH : 3429.0

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
SERIAL NO. : 3875

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3429.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.696	1804.26	4.25	1808.51
-14:05 1ST FLOW	0.0	.058	66.45	-4.49	61.97
- 14:09	4.0	.051	59.03	-4.54	54.49
- 14:14	9.0	.050	57.96	-4.55	53.42
- 14:18	13.0	.050	57.96	-4.55	53.42
- 14:23	18.0	.050	57.96	-4.55	53.42
- 14:24	19.0	.050	57.96	-4.55	53.42
- 14:24	19.0	.196	212.86	-3.46	209.40
- 14:25	20.0	.062	70.70	-4.46	66.24
- 14:28	23.0	.060	68.57	-4.47	64.10
- 14:28	23.0	.105	116.32	-4.14	112.18
- 14:28	23.0	.075	84.49	-4.36	80.13
- 14:29	24.0	.072	81.31	-4.38	76.92
- 14:33	28.0	.062	70.70	-4.46	66.24
-14:33 END FLOW	0.0	.062	70.70	-4.46	66.24
- 14:36	3.0	.159	173.61	-3.73	169.87
- 14:39	6.0	.327	351.84	-2.48	349.36
- 14:42	9.0	.442	473.85	-1.63	472.22
- 14:45	12.0	.536	573.58	-.93	572.65
- 14:48	15.0	.616	658.45	-.33	658.12
- 14:51	18.0	.665	710.44	.03	710.47
- 14:54	21.0	.713	761.36	.39	761.75
- 14:57	24.0	.746	796.37	.63	797.01
- 14:59	26.0	.775	827.14	.85	827.99
- 15:02	29.0	.797	850.48	1.01	851.50
- 15:05	32.0	.815	869.58	1.15	870.73
- 15:08	35.0	.832	887.61	1.28	888.89
- 15:11	38.0	.844	900.34	1.36	901.71
- 15:14	41.0	.855	912.02	1.45	913.46
- 15:16	43.0	.859	916.26	1.48	917.74
- 15:16	43.0	.859	916.26	1.48	917.74
- 15:16	43.0	.859	916.26	1.48	917.74
-15:16 1ST SHUT-IN	0.0	.860	917.32	1.48	918.80
-15:16 2ND FLOW	0.0	.073	82.37	-4.37	77.99
- 15:20	4.0	.063	71.76	-4.45	67.31
- 15:25	9.0	.062	70.70	-4.46	66.24
- 15:25	9.0	.062	70.70	-4.46	66.24
- 15:26	10.0	1.724	1833.97	4.33	1838.30
- 15:26	10.0	.069	78.12	-4.40	73.72
- 15:29	13.0	.067	76.00	-4.42	71.58

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-2-85
DEPTH : 3429.0

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
SERIAL NO. : 3875

COMMENTS	TIME min	DEFL in	PRESSURE PSIG CALC	CORR	CORRECTED
TEST NO.:1					
- 15:34	18.0	.066	74.94	-4.43	70.51
- 15:38	22.0	.064	72.82	-4.44	68.38
- 15:42	26.0	.063	71.76	-4.45	67.31
- 15:47	31.0	.063	71.76	-4.45	67.31
- 15:51	35.0	.063	71.76	-4.45	67.31
-15:51 END FLOW	0.0	.063	71.76	-4.45	67.31
- 15:54	3.0	.187	203.31	-3.53	199.79
- 15:57	6.0	.309	332.75	-2.62	330.13
- 16:00	9.0	.378	405.95	-2.10	403.85
- 16:03	12.0	.444	475.97	-1.61	474.36
- 16:06	15.0	.493	527.96	-1.25	526.71
- 16:09	18.0	.531	568.27	-.97	567.31
- 16:12	21.0	.563	602.22	-.73	601.50
- 16:15	24.0	.594	635.11	-.50	634.62
- 16:17	26.0	.621	663.76	-.30	663.46
- 16:20	29.0	.641	684.98	-.15	684.83
- 16:23	32.0	.658	703.01	-.02	702.99
- 16:26	35.0	.675	721.05	.11	721.15
- 16:29	38.0	.689	735.90	.21	736.11
- 16:32	41.0	.704	751.81	.32	752.14
- 16:35	44.0	.712	760.30	.38	760.68
-16:35 2ND SHUT-IN	0.0	.712	760.30	.38	760.68
-2ND HYDROSTATIC	0.0	1.660	1766.07	4.15	1770.21

SUPERIOR TESTERS ENTERPRISES, INC.

D A T A S U M M A R Y

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-2-85

WELL NAME : KLUG #1
LOCATION : 17-17S-12W

RECOVERY INFORMATION

LIQUID RECOVERY Total Fluid Recovered : 60

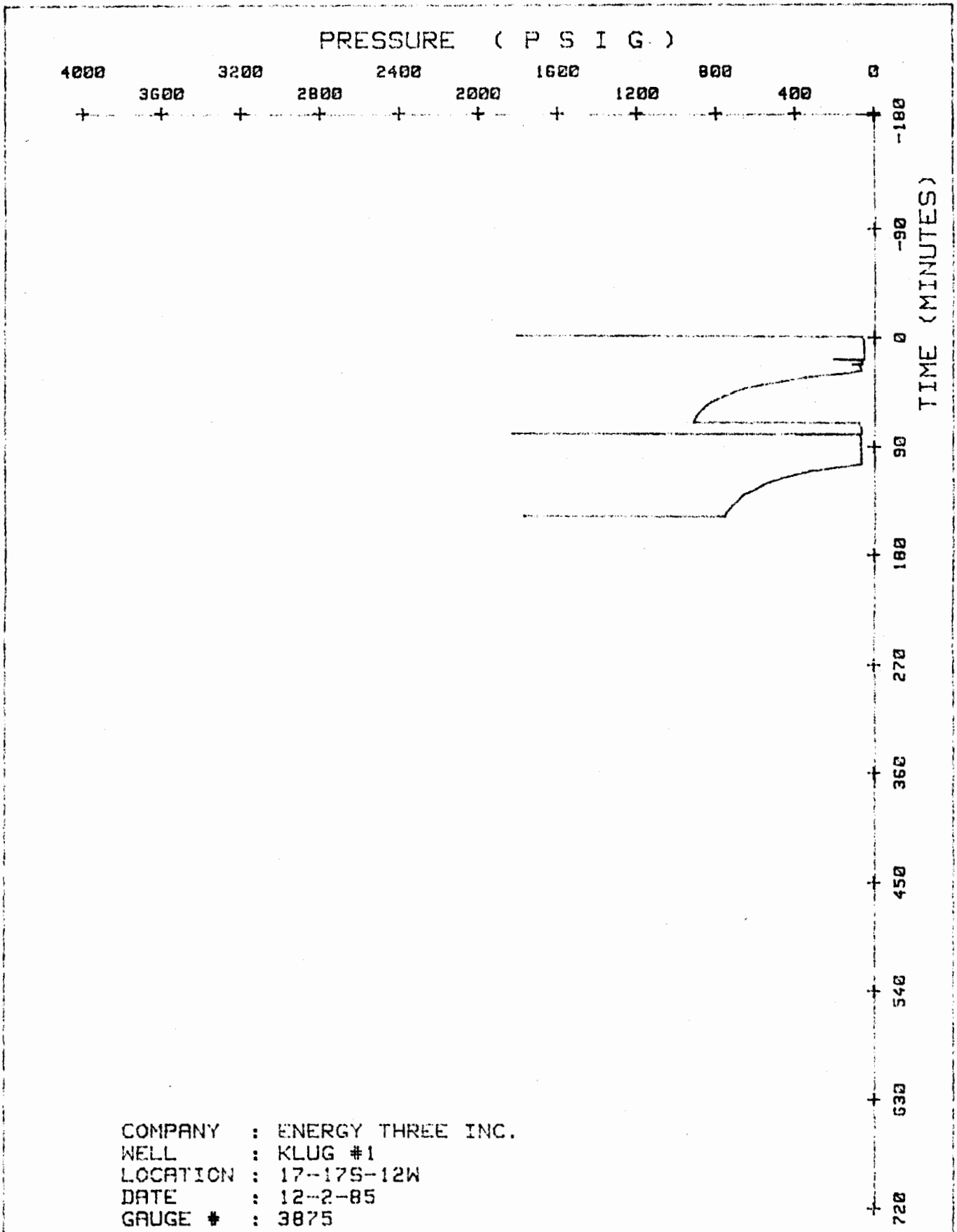
Recovered 60 feet of MUD

GAS RECOVERY Measured With : ( ) Riser :

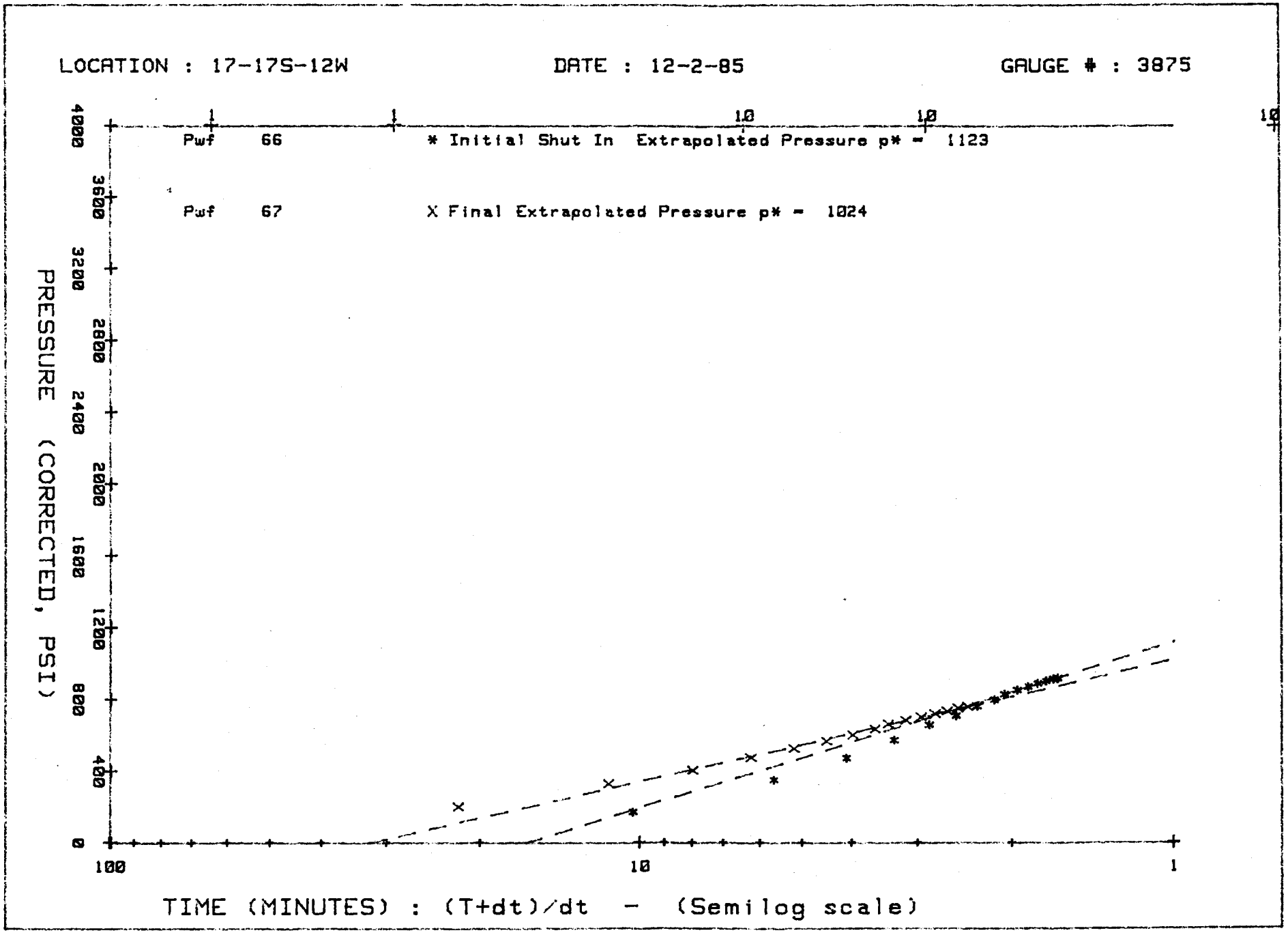
Time (min.)	Reading	Surface Choke (in.)	Cubic feet/day

FLUID PROPERTIES

	Viscosity (cp)	Compressibility (psi-1)	Pore Space Saturation
Oil			
Gas			
Water			



COMPANY : ENERGY THREE INC.
WELL : KLUG #1
LOCATION : 17-17S-12W
DATE : 12-2-85
GAUGE # : 3875


LOCATION : 17-17S-12W
DATE : 12-2-85
GAUGE # : 3875
Pwf 66
* Initial Shut In Extrapolated Pressure p* = 1123
Pwf 67
X Final Extrapolated Pressure p* = 1024
PRESSURE (CORRECTED, PSI)
4000
3600
3200
2800
2400
2000
1600
1200
800
400
0
100
10
1
TIME (MINUTES) : (T+dt)/dt - (Semilog scale)

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
WELL NAME : KLUG #1
LOCATION : 17-17S-12W
STATE & COUNTY : KANSAS, BARTON
DATE OF TEST : 12-2-85
TEST INT. KB : 3399 to 3435
TOTAL INTERVAL (ft) K.B. : 36.00
ELEV.(GR) : (KB) :
FIELD :

ELEMENT SERIAL NO. : 3875
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 3429.0 ft-kb			
-14:33 END FLOW	0.00	0.00	66.24
	3.00	10.33	169.87
	6.00	5.67	349.36
	9.00	4.11	472.22
	12.00	3.33	572.65
	15.00	2.87	658.12
	18.00	2.56	710.47
	21.00	2.33	761.75
	24.00	2.17	797.01
	26.00	2.08	827.99
	29.00	1.97	851.50
	32.00	1.88	870.73
	35.00	1.80	888.89
	38.00	1.74	901.71
	41.00	1.68	913.46
	43.00	1.65	917.74
	43.00	1.65	917.74
	43.00	1.65	917.74
-15:16 1ST SHUT-IN	0.00	0.00	918.80

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 : 12-2-85
DST. NO : 1

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1123.00
Slope of Build-up Curve (psi/log cycle):	924.01
Effective Producing Time (min):	28.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
WELL NAME : KLUG #1
LOCATION : 17-17S-12W
STATE & COUNTY : KANSAS, BARTON
DATE OF TEST : 12-2-85
TEST INT. KB : 3399 to 3435
TOTAL INTERVAL (ft) K.B. : 36.00
ELEV.(GR) : (KB) :
FIELD :

ELEMENT SERIAL NO. : 3875
LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 3429.0 ft-kb			
-15:51 END FLOW	0.00	0.00	67.31
	3.00	22.00	199.79
	6.00	11.50	330.13
	9.00	8.00	403.85
	12.00	6.25	474.36
	15.00	5.20	526.71
	18.00	4.50	567.31
	21.00	4.00	601.50
	24.00	3.63	634.62
	26.00	3.42	663.46
	29.00	3.17	684.83
	32.00	2.97	702.99
	35.00	2.80	721.15
	38.00	2.66	736.11
	41.00	2.54	752.14
	44.00	2.43	760.68
-16:35 2ND SHUT-IN	0.00	0.00	760.68

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 : 12-2-85
DST. NO : 1

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1024.00
Slope of Build-up Curve (psi/log cycle):	678.69
Effective Producing Time (min):	63.00

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 : 12-2-85
DST. NO : 1

WELL NAME : KLUG #1
LOCATION : 17-17S-12W
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):	0.00
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):	0.00E+00
ESTIMATED DAMAGE RATIO:	.32
CALCULATED DAMAGE RATIO:	0.00
Reservoir Temperature (F):	98.00
Formation Porosity :	0.00
Formation Thickness (ft):	0.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi-1):	0.00E+00
Calculated Skin Factor :	0.00
PRODUCTION WITH DAMAGE REMOVED (bbl/D):	0.00
PRODUCTIVITY INDEX (bbl/psi):	0.00
Final Flow Pressure (psi):	67.31
APPROXIMATE RADIUS OF INVESTIGATION (ft):	0.00
Total Flowing Time (min):	63.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1024.00
Slope of Build-up Curve (psi/log cycle):	678.69
Effective Producing Time (min):	63.00