

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

Date 12 11 85 Location SW-NE SE 12 19-20 v Elevation 2296^{KB} County Rush

Company Energy Three, INC Number of Copies 5

Address PO BOX 1505 GREAT BEND KS 67530

Charts Mailed to PO Box 1505 GREAT BEND, KS 67530

Invoice Mailed to PO Box 1505 GREAT BEND, KS 67530

Lease R.L. YUNG Well No. 3 Formation Tested Chero^{K-P} Test No. 1

Depth 4367 Tested from 4347 to 4367 Packer Size 67 Anchor Length 20

Top Packer Depth 4342 ft. Bottom Packer Depth 4347 ft. Dual Packers yes

Tool Joint Size 4 1/2 X H Tool Size 5 1/2 OD Hole Size 7 7/8 Did Packer Hold yes

Drilling Contractor Big Three

Length Drill Pipe 4336 I.D. Drill Pipe 3.75 Tool Joint Size 4 1/2 X H

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Tool Open I.F.P. from 445 P m to 515 m 30 min

Tool Closed I.C.I.P. from 515 m to 600 m 45 min

Tool Open F.F.P. from 600 m to 630 m 30 min

Tool Closed F.C.I.P. from 630 m to 715 m 45 min

from [B]	<u>36</u>	P.S.I. to [C]	<u>36</u>	P.S.I.
[D]	<u>274</u>			P.S.I.
from [E]	<u>54</u>	P.S.I. to [F]	<u>54</u>	P.S.I.
[G]	<u>256</u>			P.S.I.

Initial Hydrostatic Pressure [A] 2283 P.S.I. Final Hydrostatic Pressure [H] 2264 P.S.I. Maximum Temp 908 °F

Initial Blow WEAK Building slowly 3" into Bucket

Final Blow VERY WEAK Building slowly 1" into Bucket

Gas to Surface NONE Min. Oil to Surface NONE Min. Mut Weight 10.0 Viscosity 42

Gas Guaged _____

Recovery 70' Slighty oil cut mud

60% mud 5% water 20% oil 15% GAS

Remarks _____

Extra Equipment-Jars 300⁰⁰ Safety Joint 65⁰⁰ Extra Packer none Straddle none Hook Wall none

Top Recorder No. 5463 Clock no. 23137 Depth 4361 Clr. Sub _____ Sampler NONE

Bottom Recorder No. 13208 Clock No. 20698 Depth 4364 Chlorides - pits 48,000 D.S.T. _____

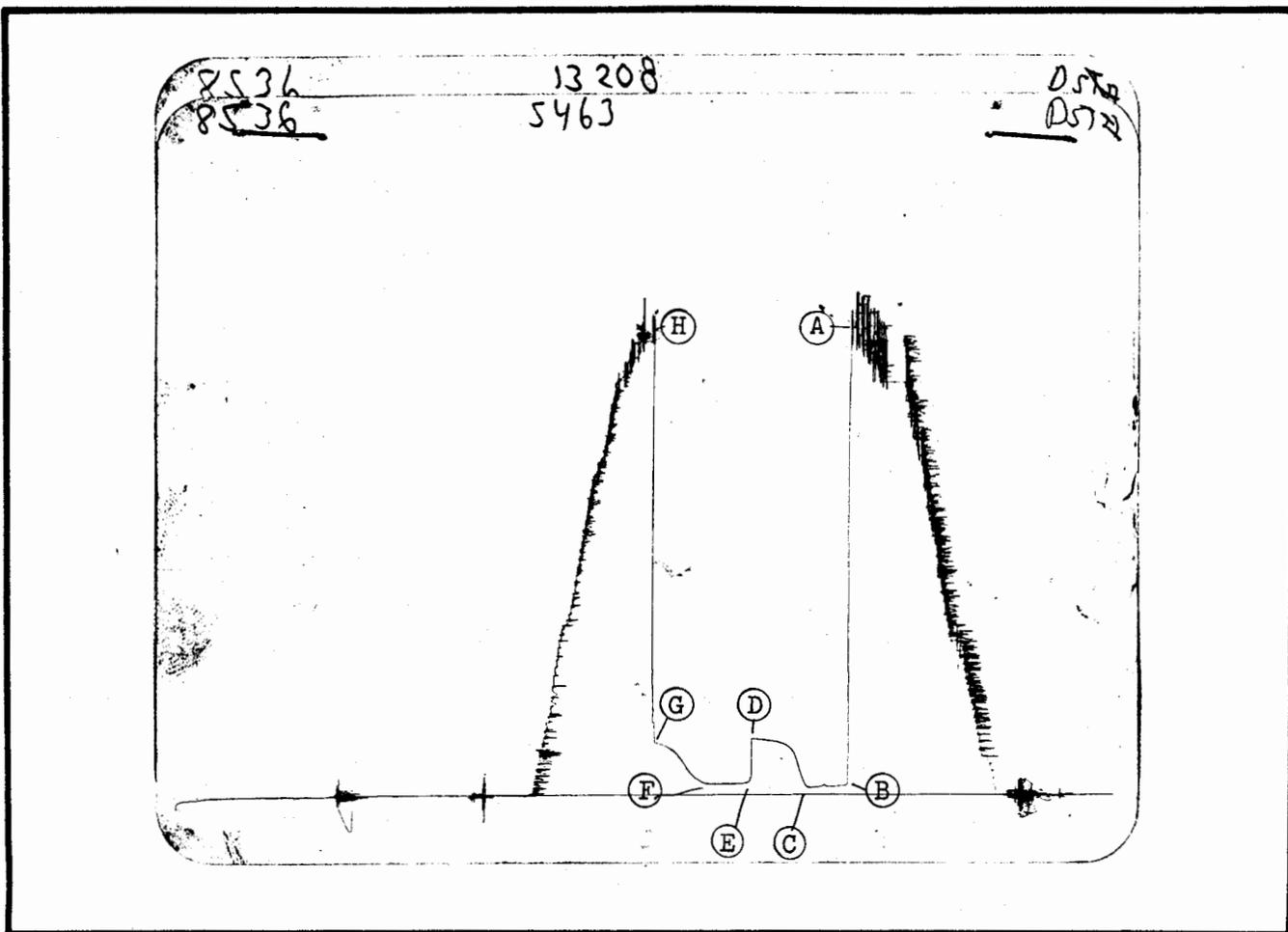
Price of Job _____

Tool Operator Pat Johnson

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 No 8536



POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2283	2356	P.S.I.
(B) First Initial Flow Pressure	36	44	P.S.I.
(C) First Final Flow Pressure	36	31	P.S.I.
(D) Initial Closed-in Pressure	274	265	P.S.I.
(E) Second Initial Flow Pressure	54	64	P.S.I.
(F) Second Final Flow Pressure	54	47	P.S.I.
(G) Final Closed-in Pressure	256	245	P.S.I.
(H) Final Hydrostatic Mud	2264	2337	P.S.I.

SUPERIOR TESTERS ENTERPRISES, INC.

WELL IDENTIFICATION DATA

COMPANY : ENERGY THREE INC. WELL NAME : RL YOUNG
ADDRESS : BOX 1505, GREAT BEND LOCATION : 12-19S-20W
STATE & COUNTY : KANSAS, RUSH FIELD :
ELEV. (GR) : (KB) : 2296 TEST DATE : 12-11-85

EQUIPMENT AND HOLE DATA

FORMATION TESTED : CHEROKEE DRILL PIPE LENGTH(ft) : 4336
TEST INT. KB : 4347 to 4367 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 20 WEIGHT PIPE LENGTH(ft) : NONE
TYPE OF TEST : Conventional WEIGHT PIPE ID : NONE
TOTAL DEPTH(ft-*kb*) : 4367 DRILL COLLAR LENGTH(ft) : NONE
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : NONE
MUD WEIGHT : 10.0 TOP PACKER DEPTH(*kb*) : 4342
MUD VISCOSITY : 42 BOTTOM PACKER DEPTH(*kb*) : 4347
MUD CHLORIDES : 48000 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) : 108 TEST TICKET NUMBER : 8536

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 5463
RANGE : 0 - 3650 CLOCK RANGE : 12 HOURS
CAL. EQU. : 922.07 * De-fl. - 2.47

SURFACE BLOW

1st Opening : WEAK BUILT SLOWLY 3" INTO BUCKET
2nd Opening : VERY WEAK BUILT SLOWLY 1" INTO BUCKET

RECOVERY

Recovered 70 feet of SLIGHTLY OIL CUT MUD

REMARKS :

WITNESSED BY : TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES, INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 12-11-85
 DEPTH : 4361.0

WELL NAME : RL YOUNG
 LOCATION : 12-19S-20W
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4361.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.559	2357.11	-.63	2356.48
-16:45 1ST FLOW	0.0	.049	42.71	2.24	44.95
- 16:49	4.0	.044	38.10	2.26	40.37
- 16:54	9.0	.041	35.34	2.28	37.61
- 16:58	13.0	.040	34.42	2.28	36.70
- 17:02	17.0	.042	36.26	2.27	38.53
- 17:03	18.0	.045	39.03	2.26	41.28
- 17:07	22.0	.038	32.57	2.29	34.86
- 17:11	26.0	.034	28.88	2.31	31.19
- 17:15	30.0	.034	28.88	2.31	31.19
-17:15 END FLOW	0.0	.034	28.88	2.31	31.19
- 17:18	3.0	.046	39.95	2.25	42.20
- 17:21	6.0	.080	71.30	2.10	73.39
- 17:24	9.0	.151	136.77	1.77	138.53
- 17:27	12.0	.212	193.01	1.48	194.50
- 17:29	14.0	.237	216.06	1.37	217.43
- 17:32	17.0	.251	228.97	1.30	230.28
- 17:35	20.0	.262	239.12	1.25	240.37
- 17:38	23.0	.269	245.57	1.22	246.79
- 17:41	26.0	.274	250.18	1.20	251.38
- 17:44	29.0	.277	252.95	1.18	254.13
- 17:47	32.0	.280	255.71	1.17	256.88
- 17:50	35.0	.284	259.40	1.15	260.55
- 17:53	38.0	.286	261.25	1.14	262.39
- 17:56	41.0	.287	262.17	1.14	263.30
- 17:58	43.0	.288	263.09	1.13	264.22
- 18:00	45.0	.289	264.01	1.13	265.14
-18:00 1ST SHUT-IN	0.0	.289	264.01	1.13	265.14
-18:00 2ND FLOW	0.0	.070	62.08	2.14	64.22
- 18:04	4.0	.057	50.09	2.20	52.29
- 18:09	9.0	.054	47.33	2.22	49.54
- 18:13	13.0	.053	46.40	2.22	48.62
- 18:17	17.0	.053	46.40	2.22	48.62
- 18:22	22.0	.053	46.40	2.22	48.62
- 18:26	26.0	.053	46.40	2.22	48.62
- 18:30	30.0	.053	46.40	2.22	48.62
- 18:30	30.0	.053	46.40	2.22	48.62
-18:30 END FLOW	0.0	.052	45.48	2.23	47.71
- 18:33	3.0	.053	46.40	2.22	48.62
- 18:36	6.0	.054	47.33	2.22	49.54

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SUBSURFACE PRESSURE MEASUREMENTS

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 DEPTH : 4361.0

WELL NAME : RL YOUNG
 LOCATION : 12-19S-20W
 SERIAL NO. : 5463

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
- 18:39	9.0	.063	55.62	2.17	57.80
- 18:42	12.0	.076	67.61	2.11	69.72
- 18:44	14.0	.092	82.36	2.04	84.40
- 18:47	17.0	.119	107.26	1.91	109.17
- 18:50	20.0	.147	133.08	1.78	134.86
- 18:53	23.0	.175	158.90	1.65	160.55
- 18:56	26.0	.204	185.64	1.52	187.16
- 18:59	29.0	.221	201.31	1.44	202.75
- 19:02	32.0	.237	216.06	1.37	217.43
- 19:05	35.0	.246	224.36	1.33	225.69
- 19:08	38.0	.254	231.74	1.29	233.03
- 19:11	41.0	.262	239.12	1.25	240.37
- 19:14	44.0	.268	244.65	1.22	245.87
-19:44 2ND SHUT-IN	0.0	.268	244.65	1.22	245.87
-2ND HYDROSTATIC	0.0	2.539	2338.67	-.71	2337.96

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-11-85

WELL NAME : RL YOUNG
LOCATION : 12-19S-20W

RECOVERY INFORMATION

LIQUID RECOVERY Total Fluid Recovered : 70
Recovered 70 feet of SLIGHTLY OIL CUT 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	.8	7.7E-6	.20
Gas			.15
Water	.45	3.1E-6	.05

CALCULATED RECOVERY ANALYSIS

DST Number: 1

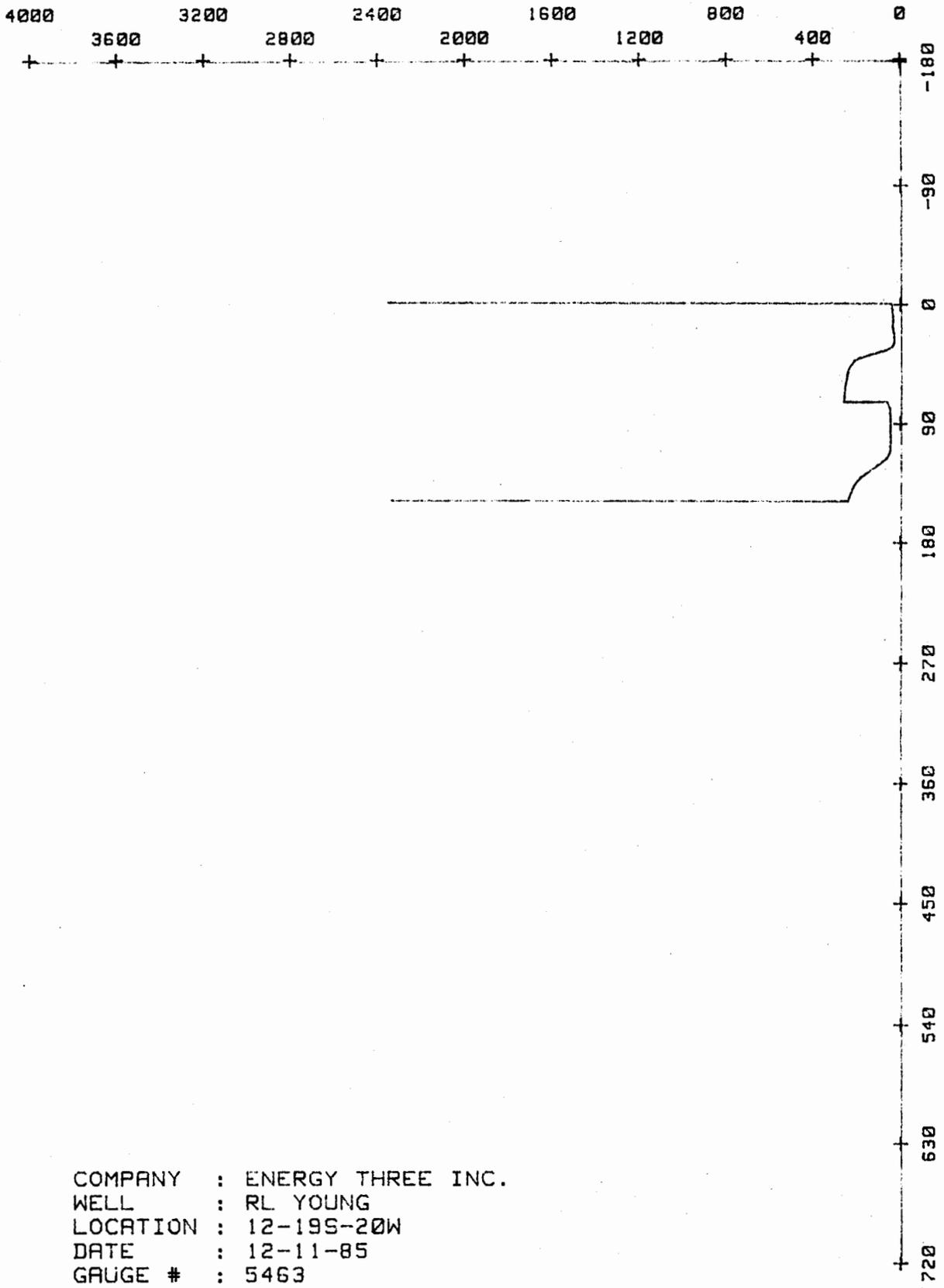
Test ticket number: 8536

Sample #	Total Feet	***** Gas ****		***** Oil ****		***** Mud ****	
		%	Feet	%	Feet	%	Feet
1	70	15.00	10.50	20.00	14.00	60.00	42.00
TOTAL	70	15.00	10.50	20.00	14.00	60.00	42.00

Sample #	Total Feet	**** WATER ****		Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
		%	Feet			
1	70	5.00	3.50	0.00	0.00	0.00
TOTAL	70	5.00	3.50			

INTERPRETATION BY : SUPERIOR TESTERS INC.

PRESSURE (P S I G)

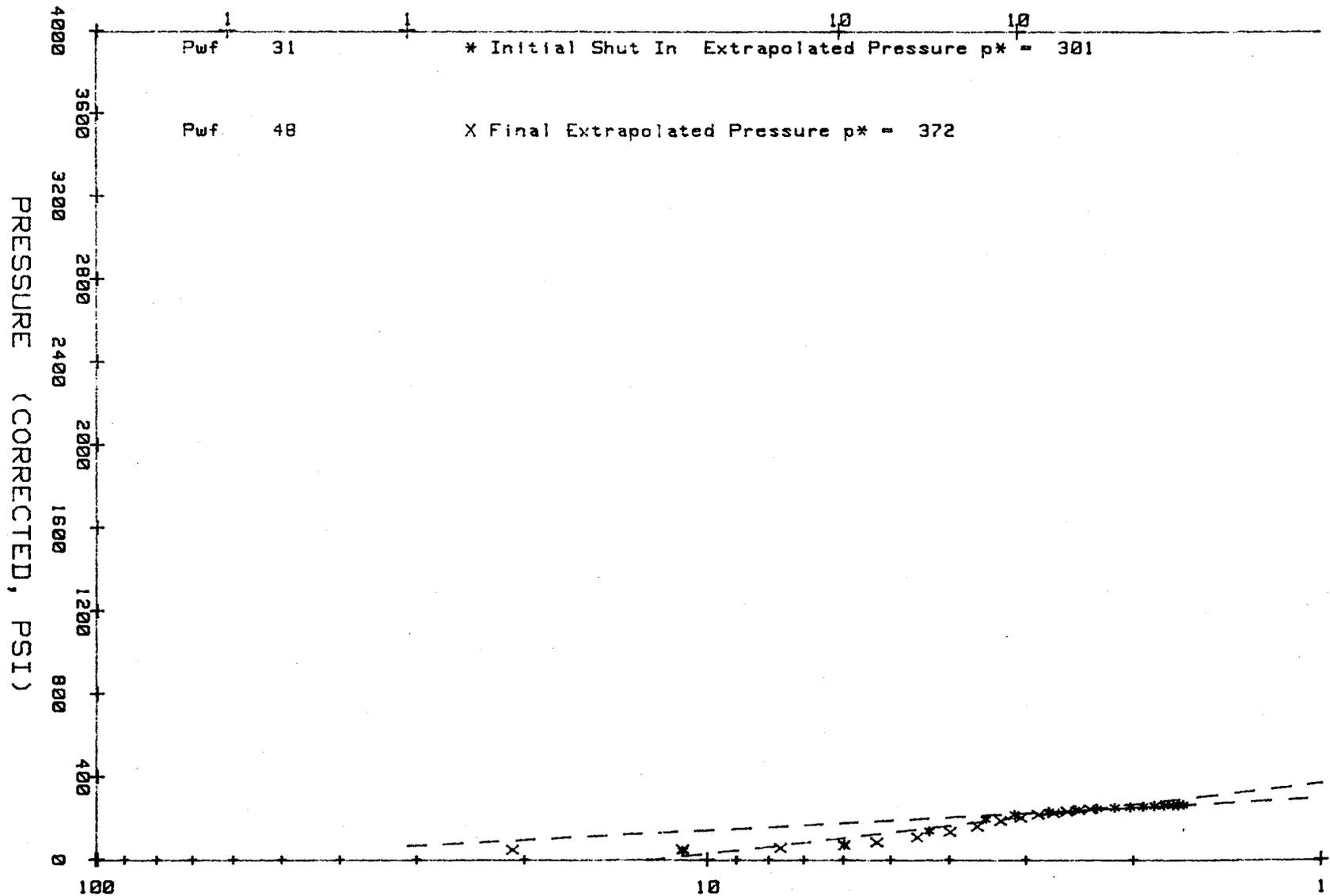


COMPANY : ENERGY THREE INC.
WELL : RL YOUNG
LOCATION : 12-19S-20W
DATE : 12-11-85
GAUGE # : 5463

LOCATION : 12-19S-20W

DATE : 12-11-85

GAUGE # : 5463



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

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : RL YOUNG
 LOCATION : 12-195-20W
 STATE & COUNTY : KANSAS, RUSH
 DATE OF TEST : 12-11-85
 TEST INT. KB : 4347 to 4367
 TOTAL INTERVAL (ft) K.B. : 20.00
 ELEV.(GR) : (KB) : 2296
 FIELD :

ELEMENT SERIAL NO. : 5463
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
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Refer. depth : 4361.0 ft-kb

-17:15 END FLOW	0.00	0.00	31.19	
	3.00	11.00	42.20	
	6.00	6.00	73.39	
	9.00	4.33	138.53	
	12.00	3.50	194.50	
	14.00	3.14	217.43	
	17.00	2.76	230.28	
	20.00	2.50	240.37	
	23.00	2.30	246.79	
	26.00	2.15	251.38	
	29.00	2.03	254.13	
	32.00	1.94	256.88	
	35.00	1.86	260.55	
	38.00	1.79	262.39	
	41.00	1.73	263.30	
	43.00	1.70	264.22	
	45.00	1.67	265.14	
-18:00 1ST SHUT-IN	0.00	0.00	265.14	

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-11-85
DST. NO : 1

WELL NAME : RL YOUNG
LOCATION : 12-195-20W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	301.00
Slope of Build-up Curve (psi/log cycle):	155.26
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNER ANALYSIS

COMPANY : ENERGY THREE INC.
 WELL NAME : RL YOUNG
 LOCATION : 12-19S-20W
 STATE & COUNTY : KANSAS, RUSH
 DATE OF TEST : 12-11-85
 TEST INT. KB : 4347 to 4367
 TOTAL INTERVAL (ft) K.B. : 20.00
 ELEV. (GR) : (KB) : 2296
 FIELD :

ELEMENT SERIAL NO. : 5463
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 4361.0 ft-kb			
-18:30 END FLOW	0.00	0.00	47.71
	3.00	21.00	48.62
	6.00	11.00	49.54
	9.00	7.67	57.80
	12.00	6.00	69.72
	14.00	5.29	84.40
	17.00	4.53	109.17
	20.00	4.00	134.86
	23.00	3.61	160.55
	26.00	3.31	187.16
	29.00	3.07	202.75
	32.00	2.88	217.43
	35.00	2.71	225.69
	38.00	2.58	233.03
	41.00	2.46	240.37
	44.00	2.36	245.87
-19:44 2ND SHUT-IN	0.00	0.00	245.87

INTERPRETATION BY : SUPERIOR TESTERS INC.

SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
DATE OF TEST : 12-11-85
DST. NO : 1

WELL NAME : RL YOUNG
LOCATION : 12-19S-20W
SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	372.00
Slope of Build-up Curve (psi/log cycle):	339.42
Effective Producing Time (min):	60.00

INTERPRETATION BY : SUPERIOR TESTERS INC.

DATA SUMMARY

COMPANY : ENERGY THREE INC.
 DATE OF TEST : 12-11-85
 DST. NO : 1

WELL NAME : RL YOUNG
 LOCATION : 12-19S-20W
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 2.29
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):22
 Gas (md): 0.00

TOTAL MOBILITY (md/cp):34

TOTAL COMPRESSIBILITY (psi⁻¹): 2.18E-06

ESTIMATED DAMAGE RATIO:22

CALCULATED DAMAGE RATIO:26

Reservoir Temperature (F): 108.00

Formation Porosity :20

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : -3.07

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 1.26

PRODUCTIVITY INDEX (bbl/psi):01

Final Flow Pressure (psi): 47.71

APPROXIMATE RADIUS OF INVESTIGATION (ft): 28.36

Total Flowing Time (min): 60.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 372.00

Slope of Build-up Curve (psi/log cycle): 339.42

Effective Producing Time (min): 60.00

INTERPRETATION BY : SUPERIOR TESTERS INC.