

LOBITOS COSTA AFUERA
LO6 - 2
GRADIENTE ESTATICO
ENERO 20, 1988

SUBSURFACE PRESSURE MEASUREMENTS

1. BASIC DATA

PAGE 01 OF 02

COMPANY	Petromar S.A.	WELL NAME	Lobitos Costa Afuera
ADDRESS	Negritos	LOCATION	L06 - 2
FIELD and POOL	Lobitos	STATUS: OIL ☐ GAS ☐ OTHER SPECIFY	
TYPE OF TEST	Gradiente Estatico	DATE OF TEST	88 01 20 TO 88 02 01
PRODUCING INTERVAL (CF)	3830.36-5031.12	PRODUCING THROUGH	IN. TUBING ☐ IN. CASING ☐
ELEVATION (CF)	FT. (KB)	MID-POINT OF PRODUCING (MPP) INTERVAL (CF)	4430.74
POOL DATUM	FT. (Subsea)	DATUM DEPTH OF WELL (FROM CF)	
ELEMENT SERIAL NO.	12446	CLOCK RANGE	3 h S ☐ D ☐ #
CALIBRATION EQUATION	P = D * 1007.75 + -3.71	DATE OF LAST CALIBRATION	88 02 01

2. STATIC TEST

PRESSURE (GAUGE): TUBING	PSI. GAUGE ☐ DWG ☐	SHUT-IN DATE	
CASING	PSI. GAUGE ☐ DWG ☐	DATE ON BOTTOM	
RUN DEPTH (FROM CF)	4595.67	DATE OFF BOTTOM	
B.H. TEMP	°C SURFACE TEMP	F	
R.D. PRESSURE (GAUGE)	743	MPP PRESSURE (GAUGE)	691
PSI. GRADIENT	0.3151	DATUM PRESSURE (GAUGE)	

3. ACOUSTIC WELL SOUNDER TEST

DEPTH OF TUBING	FT.	SHUT-IN DATE	
AVERAGE TUBING JOINT LENGTH	FT.	CURRENT WATER CUT	%
NO. OF JOINTS TO LIQUID		CASING PRESSURE (GAUGE)	PSI.
LENGTH OF GAS COLUMN	FT.	GAS COLUMN PRESSURE (GAUGE)	PSI.
LENGTH OF LIQUID COLUMN	FT.	LIQUID COLUMN PRESSURE (GAUGE)	PSI.
GAS GRAVITY	GAS GRADIENT	MPP PRESSURE (GAUGE)	PSI.
OIL GRAVITY	OIL GRADIENT	DATUM DEPTH PRESSURE (GAUGE)	PSI.

4. BUILD UP OR DRAWDOWN TEST (Attach Forms 0-12A)

RESERVOIR/WELL PARAMETERS: POROSITY	% WELL RADIUS	FT. THICKNESS	FT. WATER SATURATION
B.H. TEMP	°F DATE AND DESCRIPTION OF LAST WELLBORE TREATMENT		
CASING I.D.	IN. TUBING I.D.	IN. TUBING WEIGHT MASS	LBS./FT.
COMPRESSIBILITY	μZ		
OIL VISCOSITY	CC	GAS VISCOSITY	μZ
BUBBLE POINT PRESSURE (GAUGE)	PSI.	Z at RESERVOIR CONDITIONS	
B ₀ = VOL. AT RES. COND.		RELATIVE DENSITY G	
WELL PRODUCING RATE DURING	PRIOR TO	TEST OIL	BBL/D GAS
TOTAL PRODUCTION DURING	PRIOR TO	TEST OIL	BBL/D GAS

5. CHART READINGS AND CALCULATIONS

DATE			DEPTH BELOW CF FT.	ACC. TIME h	TIME h	DEFLECTION IN	CALCULATED PRESSURE PSIG	CORRECTION DEVIATION PSI	CORRECTED PRESSURE PSIG	GRADIENT PSI/FT.
88	01	20	Surface	Surface	00:01	0.5026	502.8	-0.4	502.3	
			386.19	400	00:02	0.5032	503.4	-0.4	502.9	0.0000
			767.29	800	00:03	0.5000	500.2	-0.4	499.8	0.0000
			1142.10	1200	00:04	0.5130	513.3	-0.5	512.7	0.0346
			1522.54	1600	00:05	0.5010	501.2	-0.4	500.8	-0.0315
			1909.12	2000	00:06	0.5155	515.8	-0.6	515.2	0.0374
			2299.07	2400	00:07	0.5200	520.3	-0.6	519.7	0.0115
			2690.97	2800	00:08	0.5190	519.3	-0.6	518.7	0.0000
			3083.79	3200	00:09	0.5285	528.9	-0.7	528.2	0.0241
			3476.65	3600	00:10	0.5353	535.7	-0.8	535.0	0.0173

REMARKS

SURVEY COMPANY TEST BY COMPUTED BY G.W.S. CHECKED BY

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY Petromar S.A.

WELL NAME Lobitos Costa Afuera

DATE OF TEST 88 01 20 TO YR MO DAY YR MO DAY

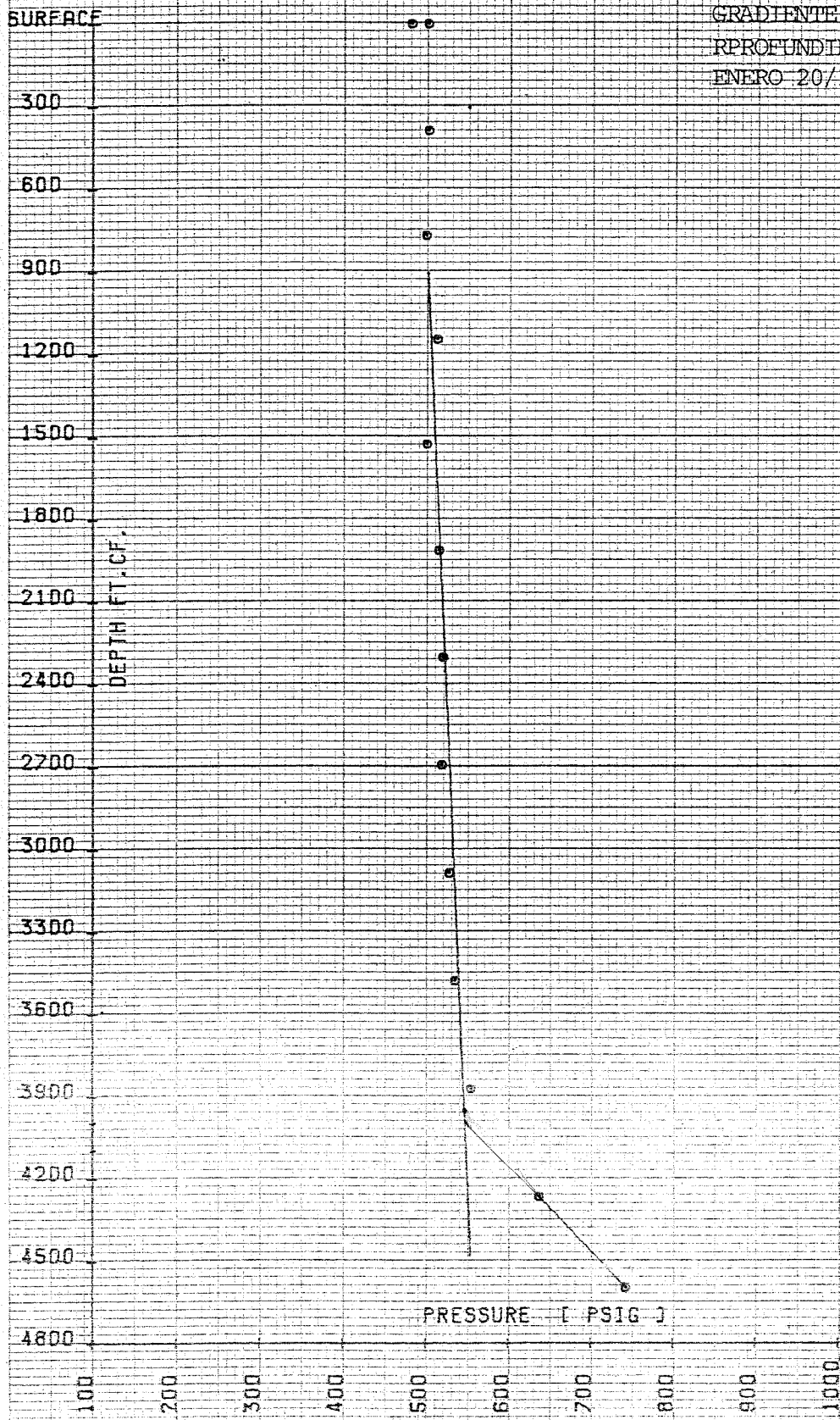
LOCATION L06 - 2

CHART READINGS AND CALCULATIONS

PAGE 02 of 02

[illegible]

ENERO 20/1988



46 1242

20 X 20 TO THE INCH • 7 X 10 INCHES
FEUFFEL & ESSER CO. MADE IN U.S.A.

Shut in Time,Hrs	Pressure,psi	Delta P	(T + t)/t
0.00	105.10	0.00	0
0.08	109.70	4.60	252,903
0.16	112.20	7.10	126,452
0.41 ↓	136.40	31.30 ↓	450,581
0.66	156.50	51.40	31,614
0.91	175.70	70.60	22,992
1.16	196.80	91.70	18,065
1.41	212.90	107.80	14,878
1.66	227.10	122.00	12,646
1.91	253.30	148.20	10,997
2.16	267.40	162.30	9,728
2.41	280.50	175.40	8,722
2.66	293.60	188.50	7,904
2.91	305.70	200.60	7,227
3.16	316.30	211.20	6,656
3.41	328.80	223.70	6,169
3.66	340.90	235.80	5,749
4.16	361.10	256.00	5,059
4.66	384.30	279.20	4,517
5.16	401.40	296.30	4,080
5.66	418.50	313.40	3,720
6.16	435.70	330.60	3,419
6.66	452.80	347.70	3,162
7.16	468.90	363.80	2,942
7.66	482.00	376.90	2,750
8.66	504.20	399.10	2,433
9.66	525.40	420.30	2,181
10.66	541.50	436.40	1,977
11.66	556.60	451.50	1,807
12.66	569.20	464.10	1,665
13.66	579.80	474.70	1,543
14.66	601.90	496.80	1,438
15.66	607.50	502.40	1,346
16.66	613.00	507.90	1,266
17.66	630.20	525.10	1,194
19.66	663.40	558.30	1,073
21.66	679.50	574.40	974
23.66	686.60	581.50	892
25.66	696.20	591.10	822
29.66	696.50	591.40	711
33.66	700.20	595.10	627
37.66	693.60	588.50	561
41.66	694.20	589.10	507
45.66	694.70	589.60	463
49.66	699.70	594.60	425
53.66	704.70	599.60	394
57.66	709.80	604.70	366
61.66	712.80	607.70	343
65.66	717.30	612.20	322
66.66	717.80	612.70	317
66.75	717.80	612.70	317

$$t_{\text{eq}} = \frac{Q}{q}$$

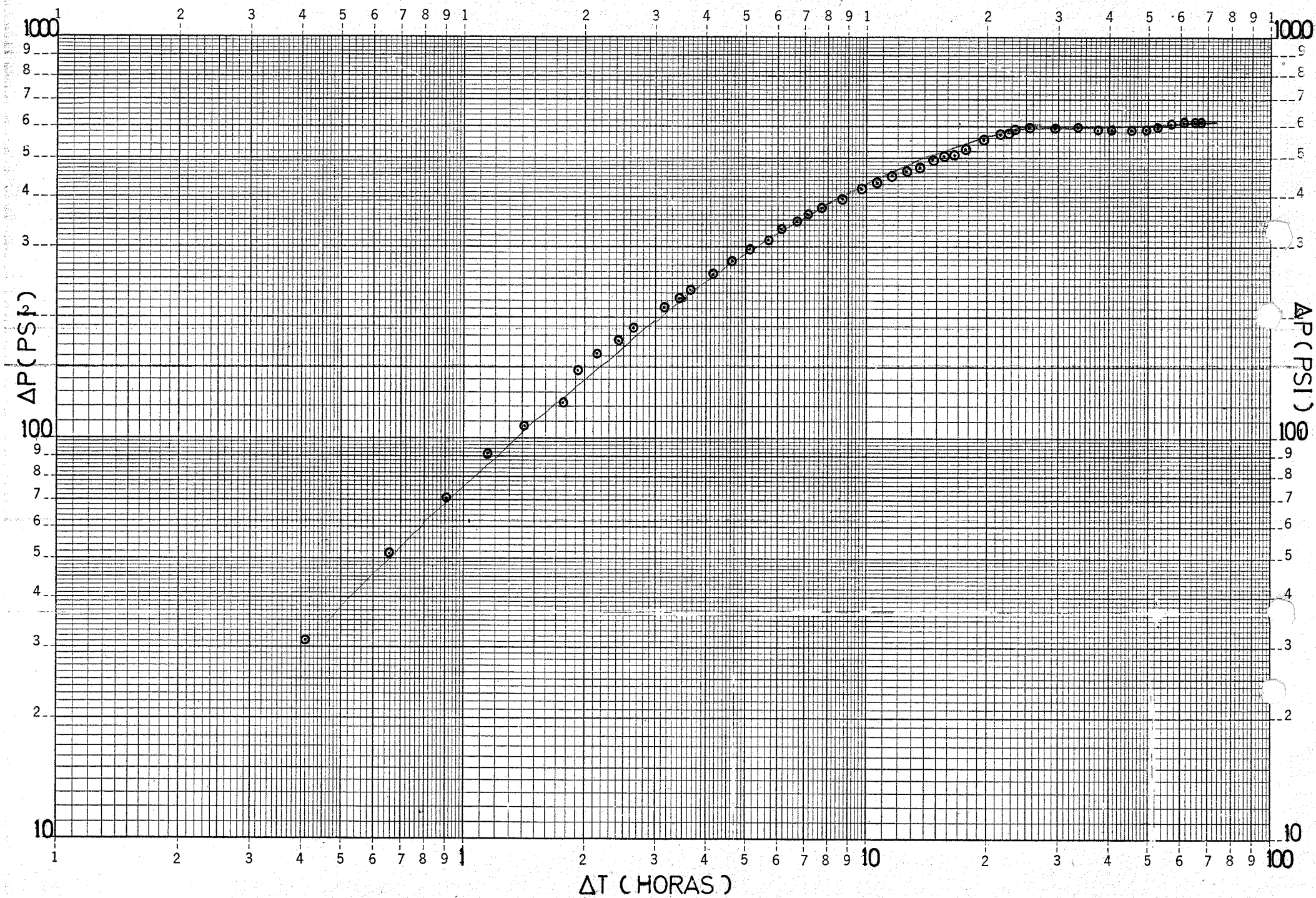
$$L_{\text{eq}} = \frac{Q}{q}$$

Horner time

21,075

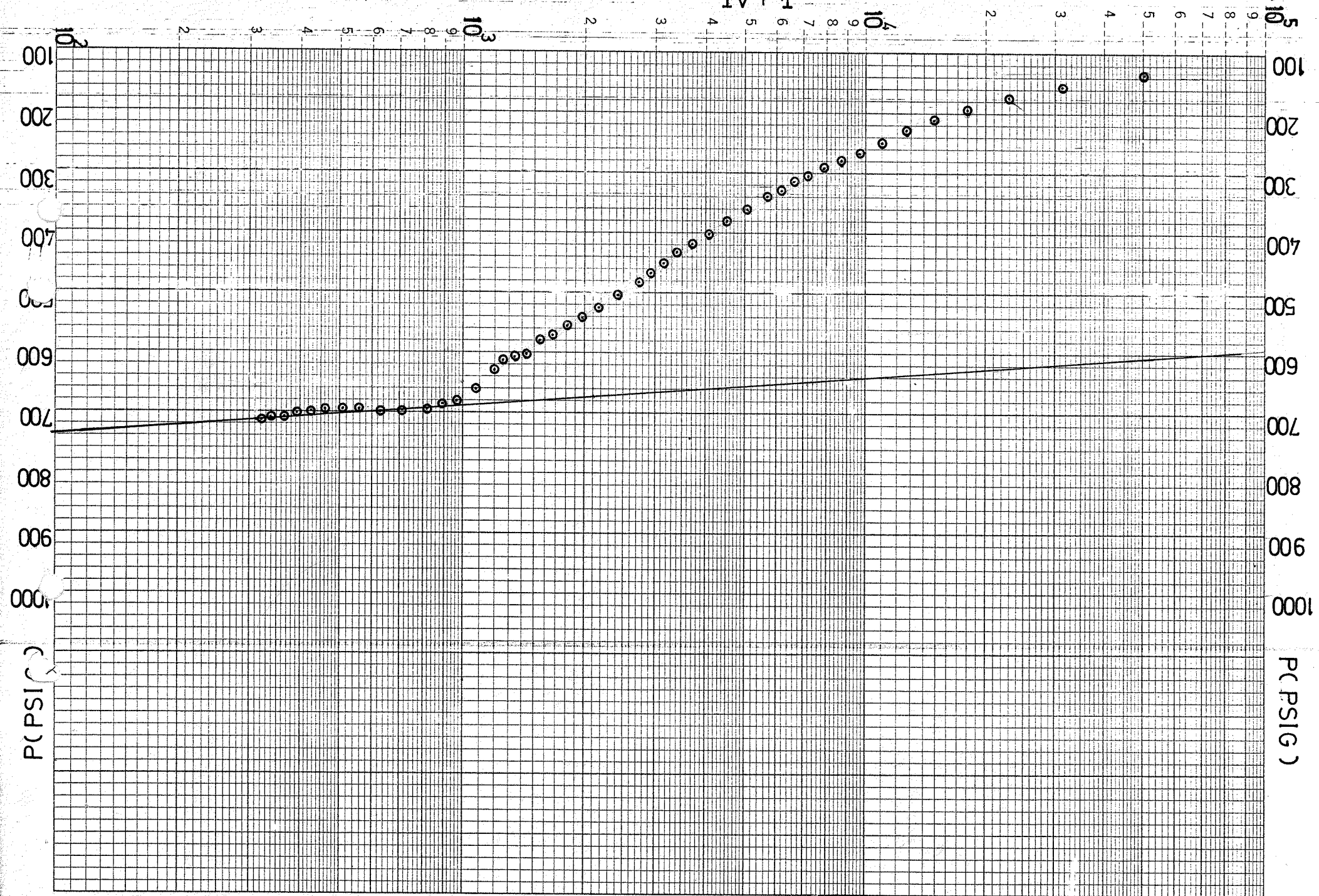
$$S' = 1.151 \left[\frac{116 - P_e}{P_e} - \log \left[\frac{K}{\phi \mu c_p} + 1.67 \right] \right]$$

$$m = 625 - 230 = 395$$



46,5493

$$\frac{\Delta T}{T_b + \Delta T}$$



non esiste di più

