



LOBITOS COSTA AFUERA

LO16-22

HCH V RJ V

GRADIENTE DE TEMPERATURA

04-06-90

ARCHIVO P52

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY	PETROMAR S.A.	WELL NAME	LOBITOS COSTA AFUERA
ADDRESS	NEGRITOS	LOCATION	L016-22
FIELD and POOL	LOBITOS	STATUS: OIL ☐ GAS ☐ OTHER SPECIFY	
TYPE OF TEST	GRADIENTE DE TEMPERATURA	DATE OF TEST	90 06 04 TO 90 06 04
PRODUCING INTERVAL (CF)	FT. PERF. ☐ OH ☐	PRODUCING THROUGH:	IN. TUBING ☐ IN. CASING ☐
ELEVATION (CF)	FT. (KB) FT. (KB) to CF FT.	MID-POINT OF PRODUCING (MPP) INTERVAL (CF)	FT.
POOL DATUM	FT. (subsea)	DATUM DEPTH OF WELL (FROM CF)	FT.
ELEMENT SERIAL NO.	KT # 8230 RANGE 60 - 160 °F.	CLOCK RANGE	03 h s ☒ d ☐ w 31881 I.H. # 14519
CALIBRATION EQUATION		DATE OF LAST CALIBRATION	90 06 04

2. STATIC TEST

PRESSURE (GAUGE): TUBING	PSI. GAUGE ☐ DWG ☐	SHUT-IN DATE	90 06 04 @ 19:13
CASING	PSI. GAUGE ☐ DWG ☐	DATE ON BOTTOM	90 06 04 @ 19:18
RUN DEPTH (FROM CF)	7630 FT.	DATE OFF BOTTOM	90 06 04 @ 19:18
B.H. TEMP	°C SURFACE TEMP	F	
R.D. PRESSURE (GAUGE)	PSI. GRADIENT	PSI/FT.	

3. ACOUSTIC WELL SOUNDER TEST

DEPTH OF TUBING	FT.	SHUT-IN DATE	90 06 04 @
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	PSI/FT.	
OIL GRAVITY	OIL GRADIENT	PSI/FT.	

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 _s = VOL. AT RES. COND.	RELATIVE DENSITY G		
WELL PRODUCING RATE DURING	PRIOR TO TEST OIL	BBL/D GAS	MCF/D WATER
TOTAL PRODUCTION DURING	PRIOR TO TEST OIL	BBL/D GAS	MCF WATER

5. CHART READINGS AND CALCULATIONS

DATE			DEPTH BELOW CF FT.	ACC. TIME h	TIME h	DEFLECTION IN	CALCULATED PRESSURE PSIG	CORRECTION DEVIATION PSI	TEMPERAT °F.	GRADIENT PSI/FT.
YR	MO	DAY								
90	06	04	Superficie		17:30	0.3360			74.70	
			1000		17:37	0.6360			86.58	
			2000		17:44	0.7880			94.15	
			2500		17:55	0.8530			97.53	
			3000		18:01	0.9030			100.11	
			3400		18:07	0.9900			104.58	
			3800		18:18	1.0710			108.62	
			4200		18:24	1.1390			111.98	
			4600		18:30	1.1800			114.01	
90	06	04	5000		18:41	1.2250			116.28	

REMARKS CORRIDA # 01

CEMENTACION TERMINO A LAS 08:30HRS. DEL 04-06-90

ZAPATO A 7660' IFV. A 7623'

SURVEY COMPANY

TEST BY

G. PRECIADO

COMPUTED BY

CHECKED BY

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY PETROMAR S.A.

DATE OF TEST TO
YR. MO. DAY YR. MO. DAY

WELL NAME LOBITOS COSTA AFUERA

LOCATION _____ L016-22

CHART READINGS AND CALCULATIONS

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[illegible]

LOBITOS COSTA AFUERA

LO16-22

Superficie

GRADIENTE DE TEMPERATURA

04-06-90

CORRIDA # 01

1000

2000

3000

4000

5000

6000

7000

8000

PROFUNDIDAD (PIES)

TEMPERATURA (°F.)

50

60

70

80

90

100

110

120

130

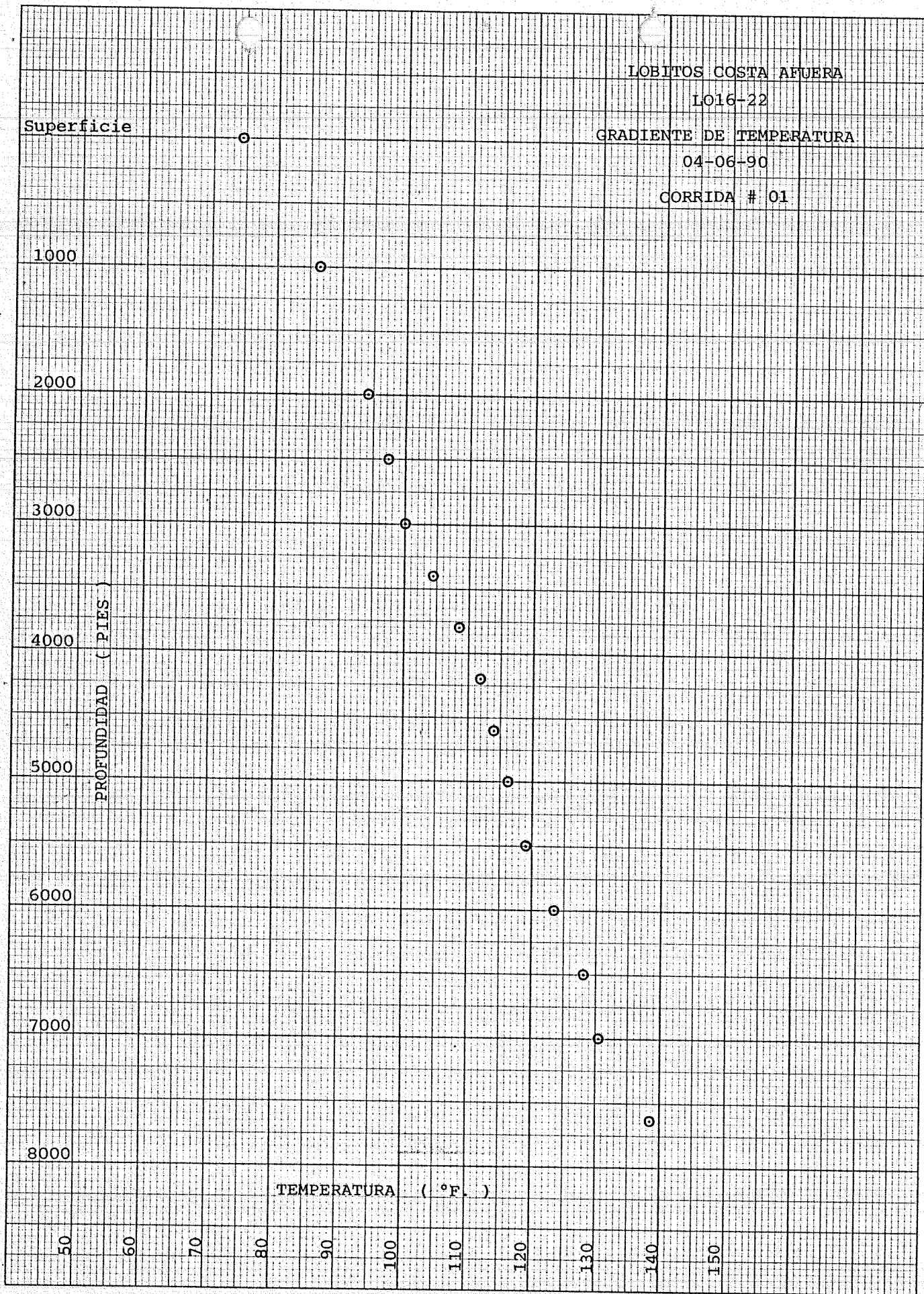
140

150

46 1242

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

K&E



SUBSURFACE PRESSURE MEASUREMENT

COMPANY PETROMAR S.A. WELL NAME LOBITOS COSTA AFUERA
 ADDRESS NEGRITOS LOCATION LO16-22
 FIELD and POOL LOBITOS STATUS: OIL ☐ GAS ☐ OTHER SPECIFY
 TYPE OF TEST GRADIENTE DE TEMPERATURA DATE OF TEST 90 06 04 TO
 PRODUCING INTERVAL (CF) FT. PERF. ☐ OH ☐ PRODUCING THROUGH: IN. TUBING ☐ IN. CASING ☐
 ELEVATION (CF) FT. (KB) FT. (KB) to CF FT. MID-POINT OF PRODUCING (MPP) INTERVAL (CF) FT.
 POOL DATUM DATUM DEPTH OF WELL (FROM CF) FT.
 ELEMENT SERIAL NO. KT # 8230 RANGE 60 - 160 °F. CLOCK RANGE 03 h s ☒ d ☐ 31881 I.H. # 14519
 CALIBRATION EQUATION DATE OF LAST CALIBRATION

2. STATIC TEST

PRESSURE (GAUGE): TUBING PSI. GAUGE ☐ DWG ☐ SHUT-IN DATE @
 CASING PSI. GAUGE ☐ DWG ☐ DATE ON BOTTOM 90 06 04 @ 20:37
 RUN DEPTH (FROM CF) 6000 FT. DATE OFF BOTTOM 90 06 04 @ 20:47
 B.H. TEMP °C SURFACE TEMP F MPP PRESSURE (GAUGE) PSI.
 R.D. PRESSURE (GAUGE) PSI. GRADIENT PSI/FT. DATUM PRESSURE (GAUGE) PSI.

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 FT. 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 PSI/FT. MPP PRESSURE (GAUGE) PSI.
 OIL GRAVITY OIL GRADIENT PSI/FT. 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/ASS LBS./FT.
 COMPRESSIBILITY μ Z
 OIL WELLS ONLY: GAS WELLS ONLY:
 OIL VISCOSITY CC GAS VISCOSITY μ Z
 BUBBLE POINT PRESSURE (GAUGE) PSI. Z at RESERVOIR CONDITIONS
 B₀ = VOL. AT RES. COND. RELATIVE DENSITY G
 VOL. AT ST. COND.
 WELL PRODUCING RATE DURING ☐ PRIOR TO ☐ TEST OIL BBL/D GAS MCF/D WATER BBL/D
 TOTAL PRODUCTION DURING ☐ PRIOR TO ☐ TEST OIL BBL/D GAS MCF WATER BBL/D

5. CHART READINGS AND CALCULATIONS

DATE			DEPTH BELOW CF FT.	ACC. TIME h	TIME h	DEFLECTION IN	CALCULATED PRESSURE PSIG	CORRECTION DEVIATION PSI	TEMPERAT °F.	GRADIENT PSI/FT.
YR	MO	DAY								
90	06	04	Superficie		19:38	0.2810			72.54	
			1200		19:45	0.6710			88.12	
			2400		19:53	0.8040			95.01	
			3600		20:05	1.0570			107.92	
			4000		20:10	1.1280			111.44	
			4500		20:15	1.1780			113.91	
			4800		20:26	1.2510			117.60	
			5100		20:31	1.2620			118.16	
			5400		20:36	1.2870			119.44	
90	06	04	6000		20:47	1.3590			123.11	

REMARKS CORRIDA # 02

CEMENTACION TERMINO A LAS 08:30 HRS. DEL 04-06-90

ZAPATO A 7660' IFV. A 7623'

SURVEY COMPANY TEST BY G. PRECIADO COMPUTED BY CHECKED BY

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