

TEC. 85-04/01

January 2nd, 1985

TO : CHIEF RESERVOIR ENGINEER *JMC*
 FROM : JULIO MEGO C.
 REF. : INITIAL PRESSURE AT L06-17

Attached please find results of bottom hole pressure recorded at well of the reference, after shooting the first interval (6756'-6244') of Rio Bravo sands. The results are as follows:

Date	: November 19, 1984
Formation	: Rio Bravo
Interval	: 6756'-6244'MD
Wellhead pressure	: 0 psig
Pressure at bomb depth	: 2319 psig (6500'MD or 5163'VD)
Pressure at MPP	: 2319 psig (5163'VD)
Fluid level	: Liquid at surface
Average fluid gradient	: 0.45 psi/ft
Formation gradient	: 0.45 psi/ft

Initial pressure is stabilized, no pressure increased was observed during 63 minutes that the bomb remained in the well; however, reservoir pressure may be lower than here reported since the wellhead pressure was zero.

Pressure recorded referred at MPP is similar to initial pressure measured in well L06-22 and within the expected range of the original pressure in the Rio Bravo formation in the area.

[Signature]
 ENG. JULIO MEGO C.

JMC/rmr.

cc: Tech. Supt.
 Prod. Supt.
 Well File
 GE-2201.89

LOBITOS OFFSHORE
LO6-17

STATIC GRADIENT

84-11-19

AMP

BELCO PETROLEUM CORP. OF PERU
DPTO. TECNICO
03 DIC. 1984
RECIBIDO

BELCO PETROLEUM CORP. OF PERU
RESERVORIOS - LIMA
- 3 DIC. 1984
RECIBIDO

SUBSURFACE PRESSURE MEASUREMENTS

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1. BASIC DATA

COMPANY **Belco Petroleum Corp. of Peru Inc.** WELL NAME **Lobitos Offshore**
 ADDRESS **Negritos** LOCATION **L06-17**
 FIELD and POOL **Lobitos** STATUS: OIL ☒ GAS ☐ OTHER SPECIFY _____
 TYPE OF TEST **Static Gradient** DATE OF TEST **84 11 19** TO **84 11 19**
 PRODUCING INTERVAL (CF) **6244 - 6756** 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) **6500** FT.
 POOL DATUM _____ FT. (subsea) _____ FT. DATUM DEPTH OF WELL (FROM CF) _____ FT.
 ELEMENT SERIAL NO. **7510N** RANGE **3250** PSI. CLOCK RANGE **3** h S ☒ D ☐ # **2405** I.H.# **14356**
 CALIBRATION EQUATION **PC = 1634.4 D + (-3.31)** DATE OF LAST CALIBRATION **84 06 13**

2. STATIC TEST

PRESSURE (GAUGE): TUBING _____ PSI. GAUGE ☐ DWG ☐ SHUT-IN DATE **84 11 19** @ **New Well** h
 CASING _____ PSI. GAUGE ☒ DWG ☐ DATE ON BOTTOM **84 11 19** @ **12:24** h
 RUN DEPTH (FROM CF) **5164.72 (6500' MD)** FT. DATE OFF BOTTOM **84 11 19** @ **13:27** PSI.
 B.H. TEMP _____ °C SURFACE TEMP _____ F MPP PRESSURE (GAUGE) **2319** PSI.
 R.D. PRESSURE (GAUGE) **2319** PSI. GRADIENT **0.4490** PSI/FT. DATUM PRESSURE (GAUGE) _____ PSI.

3. ACOUSTIC WELL SOUNDER TEST

DEPTH OF TUBING _____ FT. SHUT-IN DATE **84 11 19** @ _____ h
 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. 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/MASS _____ 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 = $\frac{\text{VOL. AT RES. COND.}}{\text{VOL. AT ST. COND.}}$ RELATIVE DENSITY G _____
 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	CORRECTED PRESSURE PSIG	GRADIENT PSI/FT.
YR	MO	DAY								
84	11	19	Surface	Surface	10:58	0.0000			0	0.0000
			500	500.00	11:05	0.1300			211	0.4217
			993.91	1000.00	11:12	0.2640			428	0.4400
			1437.18	1500.00	11:19	0.3850			625	0.4442
			1820.46	2000.00	11:26	0.4930			801	0.4594
			2195.12	2500.00	11:33	0.5980			972	0.4569
			2569.08	3000.00	11:40	0.7010			1140	0.4495
			2937.77	3500.00	11:47	0.8040			1308	0.4560
			3299.34	4000.00	11:54	0.9040			1472	0.4514
84	11	19	3656.76	4500.00	12:01	1.0015			1631	0.4468

REMARKS

T.V.D. Perf.: 4961.14' - 5369.29' MPP.: 5165.22 FT. T.V.D.

SURVEY COMPANY **Go Well Services** TEST BY **G. Preciado** COMPUTED BY _____ CHECKED BY _____

Belco Petroleum Corp. of Peru Inc.

Lobitos Offshore L06-17

LOCATION L06-17

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