

BELCO

M E M O R A N D U M

TEC. 84-1035/03

November 22nd, 1984

TO : CHIEF RESERVOIR ENGINEER *June*
FROM : JULIO MEGO C.
REF. : INITIAL PRESSURE AT WELL L06-22

Attached please find the results of the initial bottom hole pressure recorded in subject well after shooting the interval (5010'-3644'). The results are as follows:

Date	: October 18, 1984
Interval	: 5608'-3644'MD
Formation	: Rio Bravo Sds.
Wellhead pressure	: 0 psig
Pressure at bomb depth	: 2023 psig (4545'VD or 5322'MD)
Pressure at MPP	: 1754 psig (3940'VD or 4626'MD)
Fluid level	: Liquid at surface
Average fluid gradient	: 0.445 psi/ft (liquid)
Formation gradient	: 0.445 psi/ft

The pressure recorded remained stabilized during 1 hour that the bomb was into the bottom hole, however, reservoir pressure may be lower than here reported since the wellhead pressure was zero.

Pressure recorded referred at MPP is equal to initial pressure measured in well L06-21 and is within the expected range of the original pressure in the Rio Bravo formation in the area.

Eng. Julio Mego C.
ENG. JULIO MEGO C.

JMC/rmr.

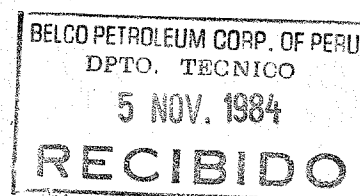
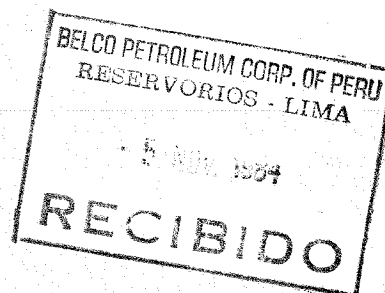
cc: Engg. Supt.
Prod. Supt.
Well File
GE-2201.89

LOBITOS OFFSHORE
LO6-22

STATIC GRADIENT

84-10-18

RMP
Final



1. BASIC DATA

SUBSURFACE PRESSURE MEASUREMENTS

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COMPANY Belco Petroleum Corp. of Peru Inc. WELL NAME Lobitos Offshore
 ADDRESS Negritos LOCATION L06-22
 FIELD and POOL Lobitos STATUS: OIL ☒ GAS ☐ OTHER SPECIFY _____
 TYPE OF TEST Static Gradient DATE OF TEST 84 10 18 TO
 PRODUCING INTERVAL (CF) 5307 - 5608 FT. PERF. ☒ OH ☐ PRODUCING THROUGH: _____ IN. TUBING 5.5 IN. CASING ☒
 ELEVATION (CF) _____ FT. (KB) _____ FT. (KB) to CF _____ FT. MID-POINT OF PRODUCING (MPP) INTERVAL (CF) 5322.50 FT.
 POOL DATUM _____ FT. (subsea) DATUM DEPTH OF WELL (FROM CF) _____ FT.
 ELEMENT SERIAL NO. 12782N RANGE 0 - 3250 PSI. CLOCK RANGE 3 h ☒ S ☐ D ☐ # 31881 I.H. # 5862
 CALIBRATION EQUATION PC + 1626.15 D + (-2.91) DATE OF LAST CALIBRATION 84 06 13

2. STATIC TEST

PRESSURE (GAUGE): TUBING _____ PSI. GAUGE ☐ DWG ☐ SHUT-IN DATE @ New Well h
 CASING 20 PSI. GAUGE ☒ DWG ☐ DATE ON BOTTOM 84 10 18 @ 13:34 h
 RUN DEPTH (FROM CF) 4546.60 (5322.50' MD) FT. DATE OFF BOTTOM 84 10 18 @ 14:34 PSI.
 B.H. TEMP _____ °C SURFACE TEMP _____ F MPP PRESSURE (GAUGE) 2073 PSI.
 R.D. PRESSURE (GAUGE) 2023 PSI. GRADIENT 0.4449 PSI/FT. DATUM PRESSURE (GAUGE) _____ PSI.

3. ACOUSTIC WELL SOUNDER TEST

DEPTH OF TUBING _____ FT. SHUT-IN DATE @ _____ 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 = 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
 TEST OIL _____ BBL/D GAS _____ MCF WATER _____ BBL/D
 TOTAL PRODUCTION - DURING ☐ PRIOR TO ☐

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	10	18	Surface	Surface	12:23	0.0000			0	0.0000
			500	500.00	12:30	0.1270			206	0.4122
			999	1000.00	12:37	0.2660			432	0.4520
			1475	1500.00	12:44	0.3980			645	0.4587
			1985	2000.00	12:51	0.5140			832	0.4388
			2281.80	2500.00	12:58	0.6200			1003	0.4379
			2635.60	3000.00	13:05	0.7190			1164	0.4533
			3002.50	3500.00	13:12	0.8220			1331	0.4547
			3401.50	4000.00	13:19	0.9320			1509	0.4467
84	10	18	3832.20	4500.00	13:26	1.0510			1702	0.4493

REMARKS

T.V.D. Perf.: 4533.30 - 4791.40ft. MPP.: 4662.35 FT. T.V.D

SURVEY COMPANY Go Well Services TEST BY O. Garcia COMPUTED BY _____ CHECKED BY _____

COMPANY Belco Petroleum Corp. of Peru Inc.

WELL NAME & UNIQUE IDENTIFIER Lobitos Offshore

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY Belco Petroleum Corp. of Peru WELL NAME Lobitos Offshore
DATE OF TEST 84 10 18 TO LOCATION LO6-22

CHART READINGS AND CALCULATIONS

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DATE			DEPTH BELOW CFFT.	ACC. TIME h	TIME h	DEFLECTION IN.	CALCULATED PRESSURE PSIG	CORRECTION DEVIATION PSI	CORRECTED PRESSURE PSIG	GRADIENT PSI/FT
YR	MO	DAY								
84	10	18	4267.60	5000.00	13:33	1.1740			1902	0.4593
			4546.60	5322.50	13:34	1.2480			2023	0.4319
			4546.60	5322.50	14:34	1.2480			2023	
MPP.: 4662.35 FT.C.F. 115.75ft. x 0.4319psi/ft = 50 psi = 2073 psig.										

4 0.242

20 X 20 TO THE
KEUFFEL & ESSER
1.7 X 10 INCHES
MADE IN U.S.A.

