

BELCO

MEMORANDUM

TEC-85-775

October 2nd, 1985

TO : CHIEF RESERVOIR ENGINEER *June*

FROM : R. AHUMADA P.

REF : INITIAL PRESSURE IN L06-9X

Following please find a summary of results of a pressure survey run in well of the reference to determine the initial reservoir pressure:

Date	:	July 28th, 1985
Perforated intervals, ft	:	6380-6995
Formation opened	:	Mogollón
Bomb depth, ft. VD	:	5385
Middle point of perforating, ft VD	:	5383
Well head pressure, psig	:	0
Pressure at bomb depth, psig	:	2441
Pressure at MPP, psig	:	2441
Liquid level, ft	:	Close to surface
Avg. Fluid gradient, psi/ft	:	0.459
Formation gradient, psi/ft	:	0.453

Pressure was not stabilized during one (1) hour that bomb remained in the bottom of the hole; it was increasing at about 2 psi/hr, at end of the test. Therefore, the reservoir pressure may be higher than here recorded, although the wellhead pressure was zero (0) and well was full of treated sea water.

Pressure here reported is lower than the pressure recorded in Mogollón in A1-5X, but similar to that reported in A3-22X.

R. Ahumada P.
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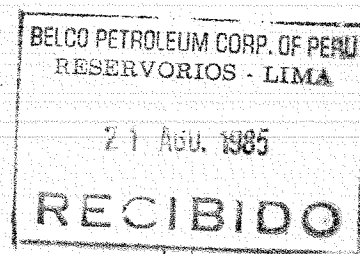
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Well File
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LOBITOS OFFSHORE
LO6-9X

RAA ✓

STATIC GRADIENT

85-07-28



1. BASIC DATA

SUBSURFACE PRESSURE MEASUREMENTS

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COMPANY Belco Petroleum Corp. of Peru Inc.		WELL NAME Lobitos Offshore	
ADDRESS Negritos.-		LOCATION L06-9X	
FIELD and POOL Lobitos		STATUS: OIL ☐ GAS ☐ OTHER SPECIFY	
TYPE OF TEST Static Gradient		DATE OF TEST 85 07 28 TO	
PRODUCING INTERVAL (CF) 6380 - 6995		PRODUCING THROUGH: IN TUBING ☐ IN CASING ☐	
ELEVATION (CF)	FT. (KB)	FT. (KB) to CF	FT
MID-POINT OF PRODUCING (MPP) INTERVAL (CF) 6687.5		FT	
POOL DATUM		DATUM DEPTH OF WELL (FROM CF)	
ELEMENT SERIAL NO. 7510N		RANGE 0 - 3250	
PSI		CLOCK RANGE 3	
CALIBRATION EQUATION PC= 1634.24 D + (1.64)		DATE OF LAST CALIBRATION 85 01 21	

2. STATIC TEST

PRESSURE (GAUGE) TUBING	PSI GAUGE ☐ DWG ☐	SHUT-IN DATE	New Well
CASING	PSI GAUGE ☐ DWG ☐	DATE ON BOTTOM	85 07 28 @ 01:44
RUN DEPTH (FROM CF) 5385.36	(6687.5' MD)	DATE OFF BOTTOM	85 07 28 @ 02:44
B.H. TEMP 80 °F	°C SURFACE TEMP	F	MPP PRESSURE (GAUGE)
R.D. PRESSURE (GAUGE) 2441	PSI GRADIENT	PSI/FT	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	PSI/FT	MPP PRESSURE (GAUGE)
OIL GRAVITY	OIL GRADIENT	PSI/FT	DATUM DEPTH PRESSURE (GAUGE)

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 WELLS ONLY:		GAS WELLS ONLY:					
OIL VISCOSITY	CC	GAS VISCOSITY					
BUBBLE POINT PRESSURE (GAUGE)	PSI	Z at RESERVOIR CONDITIONS					
B ₀ = 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	

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								
85	07	28	Surface	Surface	01:01	0.0000			0	0.0000
			943.03	1000.00	01:06	0.2470			406	0.4303
			1710.79	2000.00	01:11	0.4730			775	0.4813
			2139.97	2500.00	01:15	0.5800			950	0.4069
			2510.20	3000.00	01:19	0.6820			1117	0.4500
			2883.82	3500.00	01:23	0.7880			1290	0.4636
			3278.93	4000.00	01:27	0.9010			1474	0.4673
			3682.51	4500.00	01:31	1.0140			1659	0.4581
			4073.93	5000.00	01:35	1.1240			1839	0.4599
85	07	28	4465.83	5500.00	01:39	1.2340			2019	0.4592

REMARKS

T.V.D. Perf.: 5149.37 - 5617.43 MPP.: 5383.40 FT T.V.D.

SURVEY COMPANY Go Well Services TEST BY R. Saldarriaga COMPUTED BY G.W.S. CHECKED BY

COMPANY

Belco Petroleum Corp. of Peru Inc.

WELL NAME & UNIQUE IDENTIFIER

Lobitos Offshore L06-9X

LOCATION L06-9X

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