

BELCO		GEOLOGIC PROGNOSIS			DISTRIBUTION																		
LOBITOS OFFSHORE AREA		Z2 A-21-592-D-L06 OFFICIAL WELL NUMBER		L06-18 BELCONº		TYPE OF WELL DEVELOPMENT		RIG Nº III															
OBJECTIVE		PRIMARY: RIO BRAVO SANDS				SECONDARY: -----																	
SURFACE COORDINATES						TARGET COORDINATES																	
N 9'509,030.12 1'598,635.22						m, E 459,309.41 124,660.21						N 9'509,550 1'599,140						m, E 459,370 124,770					
ELEVATIONS	K.B.		50		FT.		DIRECTION OF DEVIATED WELL				N 12 ° E				DRILLED DEPTH TO TARGET		4250		FT.				
	<input checked="" type="checkbox"/> WATER DEPTH		335		FT.		(INITIAL) CONDUCTOR ANGLE FROM VERTICAL				VERTICAL °				TRUE VERTICAL DEPTH TO TARGET		3800		FT.				
	<input type="checkbox"/> GROUND LEVEL		-----		FT.		RECOMMENDED DEPTH OF K.O.P.				700				FT.		EST. DEVIATION (MAX. ANGLE)		33		°		
	ESTIMATED FINAL DRILLED DEPTH		6200		FT.		BUILD UP ANGLE AT.				4 ° PER 100 FT.				HORIZONTAL DRIFT TO TARGET		1750		FT.				
EST. DRILLING TIME TO T.D.		15		DAYS										HORIZONTAL DRIFT TO TOTAL DEPTH		2800		FT.					
EXPECTED STRATIGRAPHIC SEQUENCE	FORMATION / MEMBER				DRILLED TOP		SUBSEA TOP		OBSERVATIONS / POSSIBLE PROBLEMS														
	TALARA				A T		S U R F A C E																
	CHACRA				3000		2650																
	RIO BRAVO SDS.				4250		3750		PAY ZONE														
	RIO BRAVO SHY.				6000		5200																
	TD				6200		5350																
CONTROL	TARGET LIMITS		TOP		LEFT		RIGHT		OBSERVATIONS														
			BASE		200		200																
			300		300																		
BIT SAMPLES TO BE TAKEN:		EVERY 30		FT.FROM SURF TO		2500		AND															
		EVERY 10		FT.FROM		2500		TO TOTAL DEPTH															
RECOMMEND.FOR PALEO-PALYNOLOGY		At the request of Geology Supervisor.																					
LOGGING	RECOMMENDED OPEN HOLE		IEL-GR																				
	RECOMMENDED AFTER CASING		GR-CCL																				
	NEARBY WELLS FOR CORRELATION		L06-16; L04-9; L06-13X																				
EVALUATION	SIDEWALL CORES		Not considered																				
	CONVENTIONAL OR ♦ CORES		None																				
	GAS LOGGER		None																				
	FORMATION TESTING		None																				
PREPARED BY:				November 08/84				LIMA PERU		APPROVED													
Mario Chávez Cerna				DATE						Nbv 10/84													
										DATE													

SW

LOG

N12°E

NNE

SEA LEVEL.

SEA BOTTOM.

BELCO PETROLEUM CORP. OF PERU

LOBITOS OFFSHORE

SW-NNE STRUCTURAL CROSS SECTION
FOR PROPOSED WELL

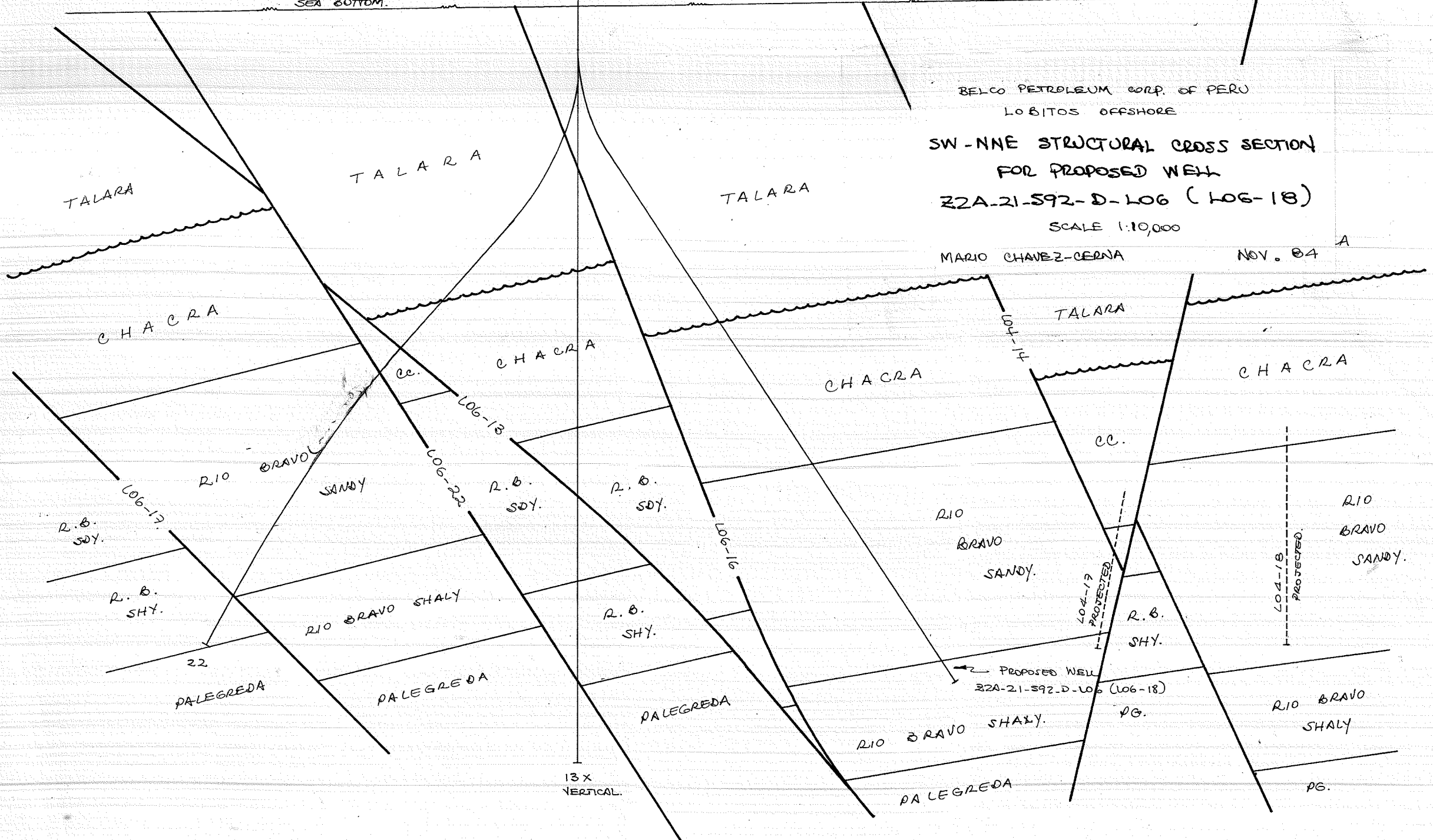
22A-21-592-D-LOG (LOG-18)

SCALE 1:10,000

MARIO CHAVEZ-CERNA

NOV. 84

A



BELCO PETROLEUM CORPORATION OF PERU**MEMORANDUM**


A: Geology Manager

Fecha Lima, November 8th, 1984

DE: Mario Chavez

Asunto GEOLOGICAL COMMENTS/L06-18 WELL

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- Drilling sequence has been altered in order to drill the Mid Massive sands which were faulted out in L06-16 well.
 - The L06-7 well, deviated to the South and originally scheduled, after the L06-17, was postponed and will be drilled in a near future.
 - Proposed location is in offset of L04-9 well which is producing at rate of 107 BOPD on G/L, with an accumulated of 182,569 BO in 868 days.
 - Proposed well is located in a large block of approx. 260 acres, the average net sand expected to be drilled is 600 feet, and the estimated IPR of 500 BOPD.
 - Logging program only includes the IEL-GR.
 - Target size is according to guidelines.



Eng. Mario Chavez C.
Area Geologist

MCHC/mom

cc: Well File.

BELCO PETROLEUM CORPORATION OF PERU

MEMORANDUM

A: GEOLOGY MANAGER

Fecha November 9th, 1984

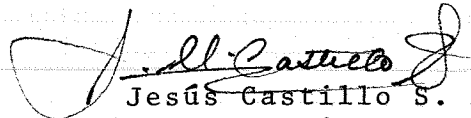
DE: CHIEF RESERVOIR ENGINEER

Asunto WELL L06-18

This well is a normal spacing well between wells L04-9 and L06-16. This has been agreed with FVM to be the next location after L06-17.

Logging program is limited to the IES log since offset wells have porosity logs. Also the target size shown is adequate for a single spacing offset.

Reservoir concurs with this location.


Jesús Castillo S.
Chief Reservoir Engineer

JCS/rmr.