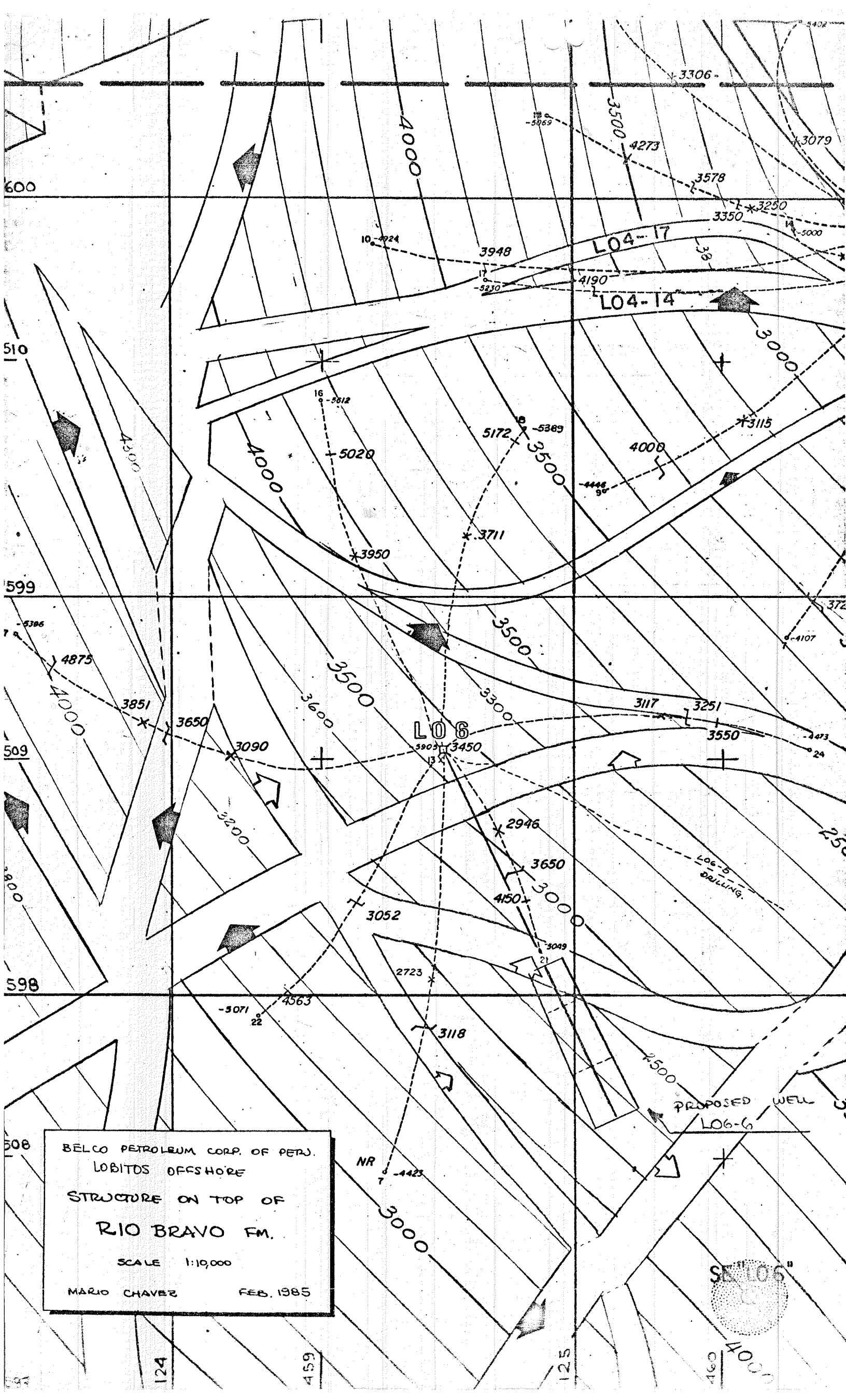


<div style="display: inline-block; border: 1px solid black; border-radius: 50%; padding: 2px 5px; font-weight: bold;">BELCO</div> <div style="display: inline-block; margin-left: 10px; font-size: 1.2em; font-weight: bold;">GEOLOGIC PROGNOSIS</div>		DISTRIBUTION			
LOBITOS OFFSHORE AREA		Z2 A-21-610-D-L06 OFFICIAL WELL NUMBER	L06-6 BELCONº	TYPE OF WELL DEVELOPMENT	RIG Nº III
OBJECTIVE		PRIMARY: Río Bravo Massive sands SECONDARY: -----			
SURFACE COORDINATES			TARGET COORDINATES		
N	9'509,030.94 1'598,636.04	m, E	459,303.51 124,654.31	m	N 9'508,485 1'598,080 m, E 459,570 124,680 m
ELEVATIONS	K. B. 50 FT.	DIRECTION OF DEVIATED WELL S 25° E		DRILLED DEPTH TO TARGET 3500 FT.	
	<input checked="" type="checkbox"/> WATER DEPTH	(INITIAL) CONDUCTOR ANGLE FROM VERTICAL 15°		TRUE VERTICAL DEPTH TO TARGET 2800 FT.	
	<input type="checkbox"/> GROUND LEVEL 335 FT.	RECOMMENDED DEPTH OF K.O.P. 600 FT.		EST. DEVIATION (MAX. ANGLE) 42°	
ESTIMATED FINAL DRILLED DEPTH 5600 FT.		BUILD UP ANGLE AT. 4° PER 100 FT.		HORIZONTAL DRIFT TO TARGET 1980 FT.	
EST. DRILLING TIME TO T.D. 20 DAYS		HORIZONTAL DRIFT TO TOTAL DEPTH 3380 FT.			
EXPECTED STRATIGRAPHIC SEQUENCE	FORMATION / MEMBER		DRILLED TOP	SUBSEA TOP	OBSERVATIONS / POSSIBLE PROBLEMS
	TALARA		At surface		
	CHACRA		2400	1950	Faulted Top
	RIO BRAVO SANDY		3500	2750	Faulted Top
	Mid. Massive sands		4050	3200	Pay Zone
	Rio Bravo Shaly		5400	4150	
	TD.		5600	4300	
CONTROL	TARGET LIMITS	TOP	LEFT 150	RIGHT 150	OBSERVATIONS
		BASE	200	200	
	BIT SAMPLES TO BE TAKEN:	EVERY 30 FT. FROM SURF TO	2500 AND		
	EVERY 10 FT. FROM	2500 TO TOTAL DEPTH			
LOGGING	RECOMMEND. FOR PALEO-PALYNOLOGY From 2500				
	RECOMMENDED OPEN HOLE DLL-MSFL-GR; FDC-CNL-GR				
	RECOMMENDED AFTER CASING GR-CCL				
	NEARBY WELLS FOR CORRELATION L06-7; L06-21; L06-5				
EVALUATION	SIDEWALL CORES Not considered				
	CONVENTIONAL OR ◇ CORES None				
	GAS LOGGER None				
	FORMATION TESTING None <i>M. Chávez Cerna</i>				
PREPARED BY: Mario Chávez Cerna		APPROVED <i>M. Chávez Cerna</i>		DATE Feb 13/85	
February 07, 1985		DATE		DATE	



BELCO PETROLEUM CORP. OF PERU.
LOBITOS OFFSHORE

STRUCTURE ON TOP OF
RIO BRAVO FM.

SCALE 1:10,000

MARIO CHAVEZ

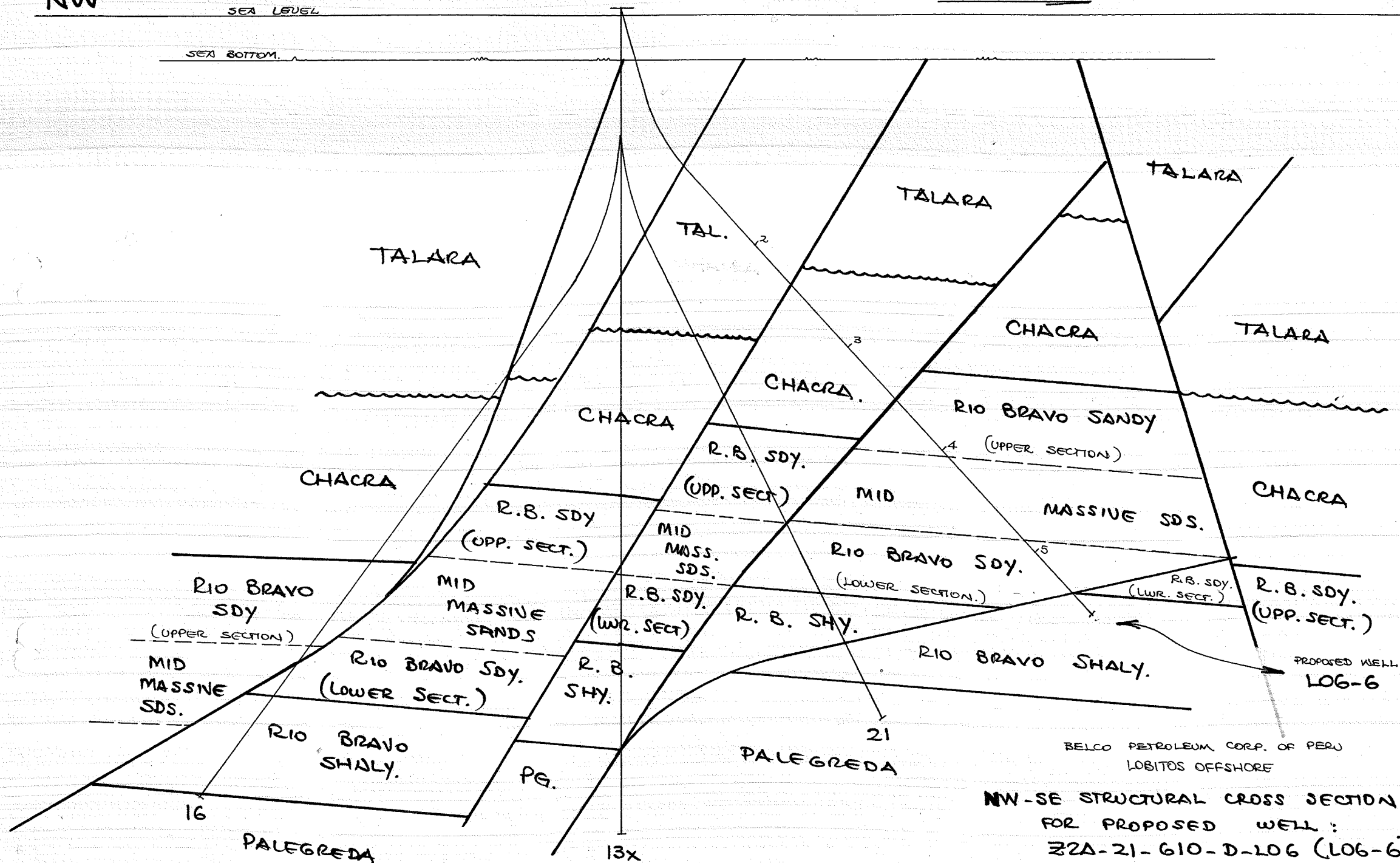
FEB. 1985

SE "L06"

SEA LEVEL

S 25° E

SE



BELCO PETROLEUM CORP. OF PERU
LOBITOS OFFSHORE

NW-SE STRUCTURAL CROSS SECTION
FOR PROPOSED WELL:
32A-21-610-D-LOG (LOG-6)

SCALE 1:10,000

FEB. 1985

MARIO CHAVEZ CERNA
INGENIERO GEOLOGO
Reg. del Colegio de Ingenieros No. 15474

BELGO PETROLEUM CORPORATION OF PERU
M E M O R A N D U M

A: Geology Manager

Fecha February 8th, 1985

DE: Eng. Mario Chávez

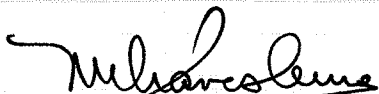
Asunto Geological Comments for proposed
Well L06-6

Reference well in order to drill the Mid Massive sands of the Río Bravo in an undrilled block of approx. 80 acres, located between wells L06-7, L06-21 & L06-5.

The expected production performance should be similar to well L06-22 which has very good correlation with well L06-7, however the production performance of this well does not agree with the quality of the reservoir, which could strongly indicate a failure during the completion,

The vertical angle is critical in order to keep spacing with well L06-21.

The logging program includes DLL-MSFL-GR and FDC-CNL-GR for complete evaluation of the Río Bravo sands.


Eng, Mario Chávez C.

MCHC/pm

BELCO PETROLEUM CORPORATION OF PERU
M E M O R A N D U M

A: Geology Manager

Fecha February 11th, 1985

DE: Chief Reservoir Engineer

Asunto WELL L06-6

The well of the reference is essentially a replacement of well L06-21, which did not encounter the main sands due to faulting. The main sands presence in the area have been proven in wells L06-22, 7 and partially in 5, which are located in the vicinity of the proposed well.

At the main sands level, the spacing is adequate with respect to the offsets. Logging program includes a complete set of logs not run in the offset wells. Target size is also in accordance with the guidelines.

It is important to build up the angle as specified. Failure to do so may result in a well not adequately spaced with respect to L06-21.


Jesús Castillo S.
Chief Reservoir Engineer

JCS/rmr.