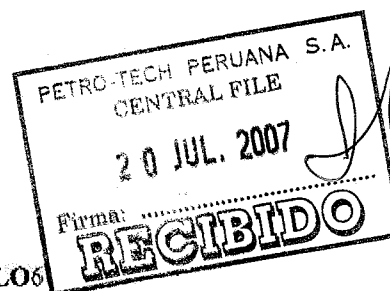


*will file***PETROTECH PERUANA S.A.****INTEROFFICE MEMORANDUM****PTP - ENG - 131 - 05****DATE:** APRIL 01TH, 2005**TO:** DRILLING DEPT. - G. RUESTA**CC:** PROD, CRONO, AND WELL FILE**FROM:** ENGINEERING DEPT. - OSCAR NIETO F.**SUBJECT:** WELL SERVICE PROGRAM Z-2B-24-079-D-LO6
LO6-25ST (LOBITOS OFFSHORE)

Attached you will find the Well Service program for LO6-25ST well to redesign the current installation.

In April 2001 drilling Lower Basal Salina fm. at 9790' the well came flowing with 1800 psi, attempted killed it with mud but was negative, left well on production. In July 2001 after performed sidetrack at 5992' drilled to 9494' and ran casing 5 1/2" to continue drilling with bit 4 3/4" at 9803'. In September 2001 ran tubing 3 1/2" with packer RTTS to evaluate Lower Basal Salina fm., it reached an initial production flowing of 710 BOPD x 333 BWPD x 740 psi with choke 3/8". Currently the well is producing flowing 90 BOPD x 30 BWPD x 120 psi x choke 7/16" with a cumulative production of 496 MBO, the well production has declined drastically.

Therefore, we recommend pulling the present installation, clean the well and run conventional gas lift installation. We expect to recover an increase of $\pm$ 50 BOPD.

The well service expenses (approximately \$ 16,500) will be charged to account # 960-43-01-XXX-85225.

Proposed by: **Luis Yáñez A.**
Operations Engineer

Approved by: **Oscar Nieto F.**
Engineering Chief

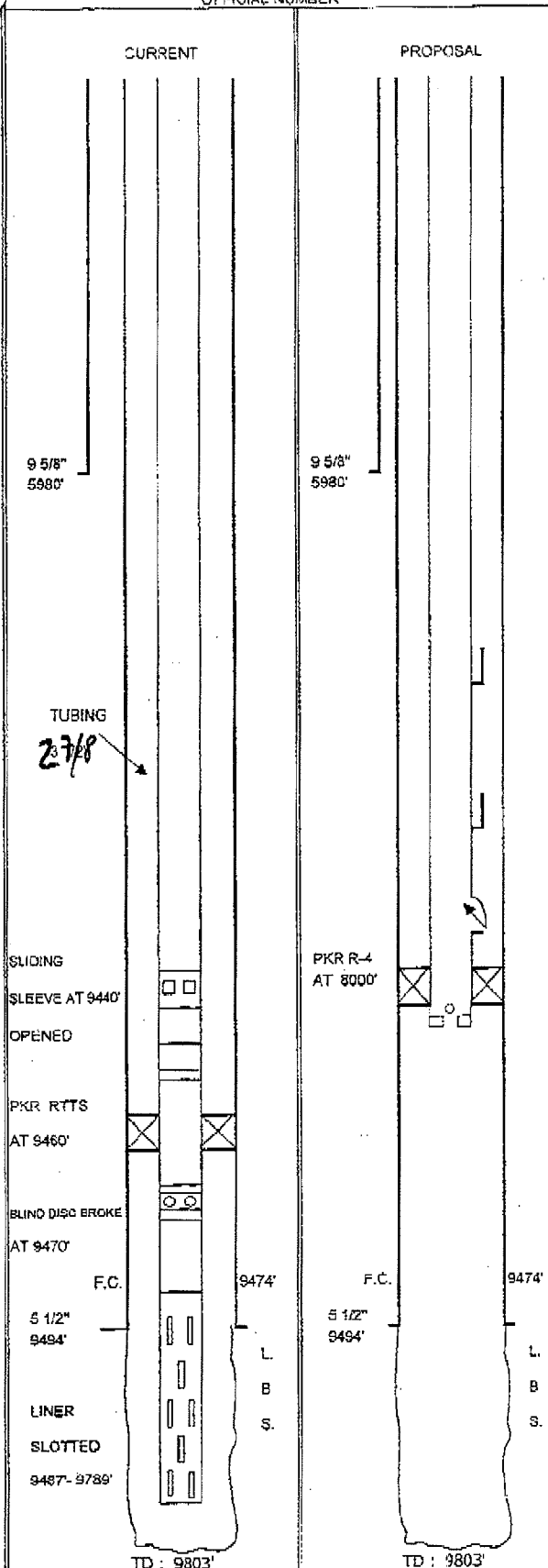
RO-TECH PERUANA S.A.
Operations Engineering

PRODUCTION STRING

WELL : Z-2B-24-079-D-LO6
OFFICIAL NUMBER

LO6-25
PETRO-TECH NUMBER

LOBITOS - OFFSHORE
AREA



GAS LIFT CONVENTIONAL

INSTALLATION TYPE

WELL DATA

ZERO POINT	PRODUCTION CASING	WELL HEAD
50' CHF	5 1/2" X N-80 X 17.3 20 #/R	13 3/8" X 9 5/8" X 5 1/2"
F. C.	LAST SAND TOP	AVERAGE ANGLE
9474'	9803' AUG 01. W/BIT	25°
PRODUCTIVE SAND	INTERVAL	FORMATION
	9803' - 9494'	LW. BASAL SALINA (OPEN HOLE)

PRESENT INST: TBG 3 1/2" AT 9789', SLIDING SLEEVE @ 9440', PKR @ 9460', LINER SLOTTED @ 9487'

LAST WELL SERVICE: SEPT 01. R/H TBG. 3 1/2" W/SLOTTED, SAFETY JOINT, SLIDING SLEEVE

AT 1750'. FILLING UP W/9.5#, DOWN 6950'. WELL FLOWED. BLIND DISK BROKE. CIRCULATED ANNULAR-

TBG. MUD TO 12.#, RAISED TO 2516', CIRCULATING. FLOWPETROL OPENED SLIDING SLEEVE. CIRC.

SET RTTS PACKER AT 9460', W/8000#, LINER SLOTTED SHOE @ 9789', CIRCULATING W/MUD AN-TBG

DISPLACED MUD W/ WATER, WELL CAME IN & FLOWING TO RIG TANK. WELL ON PRODUCTION.

LAST TEST	DATE	BOPD	BWPD	GOR	STATUS
					FLOW
					FLOW

OTHERS BLIND DISK WAS BROKEN.

PROGRAM JOB

- 1) MOVE WELL SERVICE UNIT TO LO6-25 WELL.
- 2) KILL AND CIRCULATE THE WELL WITH TREATED WATER BY ANNULUS.
- 3) REMOVE X-TREE AND INSTALL BOP. POOH THE PRESENT INSTALLATION
- 4) RUN 2 7/8" DRILL TBG. W/ BIT TO ATTEMPTED CLEAN OPEN HOLE TO BOTTOM. THEN POOH.
- 5) RUN 2 7/8" TUBING WITH SCRAPER AT 9000'. THEN POOH.
- 6) R/H GAS LIFT INSTALLATION ACCORDING ATTACHED DESIGN.
- 7) REMOVE BOP, INSTALL X-TREE.
- 8) SWAB THE WELL AT 6500' MD.
- 9) KICK OFF WELL WITH GAS LIFT.
- 10) REPORT PRODUCTION TEST AND TAKE OUT PRESSURE RECORD.

INITIAL JOB TO RECOVERY INST → R/H 6

STRING WILL BE DOWN

+- 8030 FEET OF 2 7/8" TUBING WITH SEAT NIPPLE AND STANDING VALVE OF 2" @ 8030'.

PACKER R-4 AT 8000' WITH THE FOLLOWING MANDRELS:

MANDREL	VALVE	PORT SIZE	M.D.	V.D.	TROP
KBMG-2	BK-1	5/16"	7970	8256	500
B	J-40	5/16"	7120	5458	650
B	J-41	5/16"	6270	4861	750

REMARKS

NOTE : ACCORDING THE RESULTS OF STATIC GRADIENT THE DEPTHS OF THE VALVES

COULD BE REDESIGNED.

- CHECK THE LINER SLOTTED.

L. Yáñez

DATE : APRIL 2005

LOG-25

SLIDING
SLAVE

SOLAR
SOLAR

Blind
disc

Lower
9782' - 9789'

OIL @ 5596'

WATER @ 7604'

9440'

9450'

2 TRS
9460'

9494'

LOG-25

GRAB. G. 0.0122

5596' HD 3926' V

0.3532 psi/ft

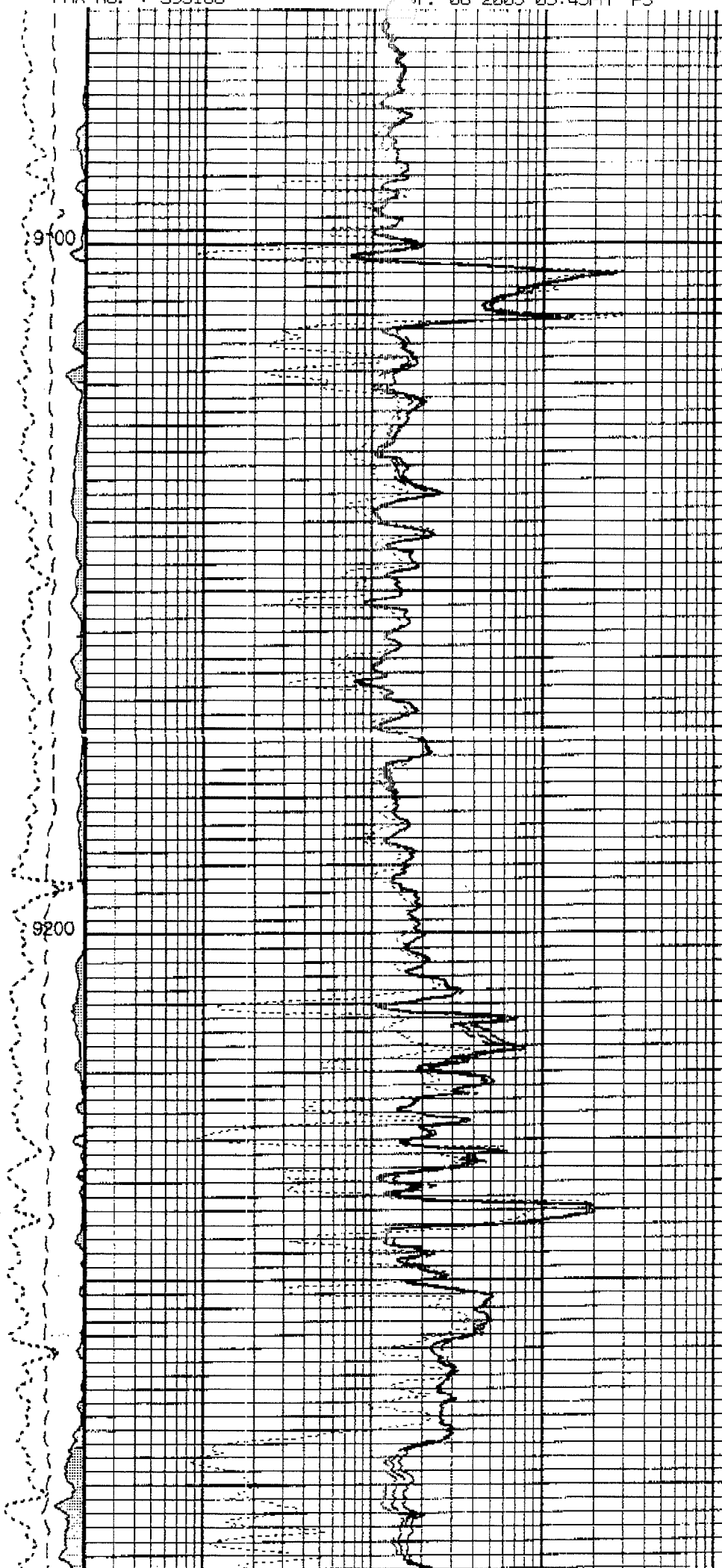
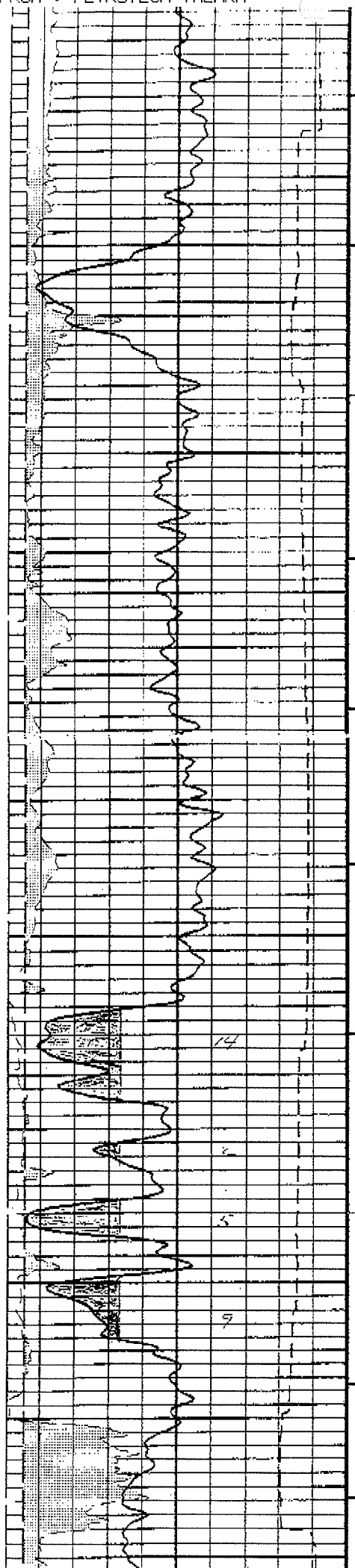
water 7604' HD 7414' V

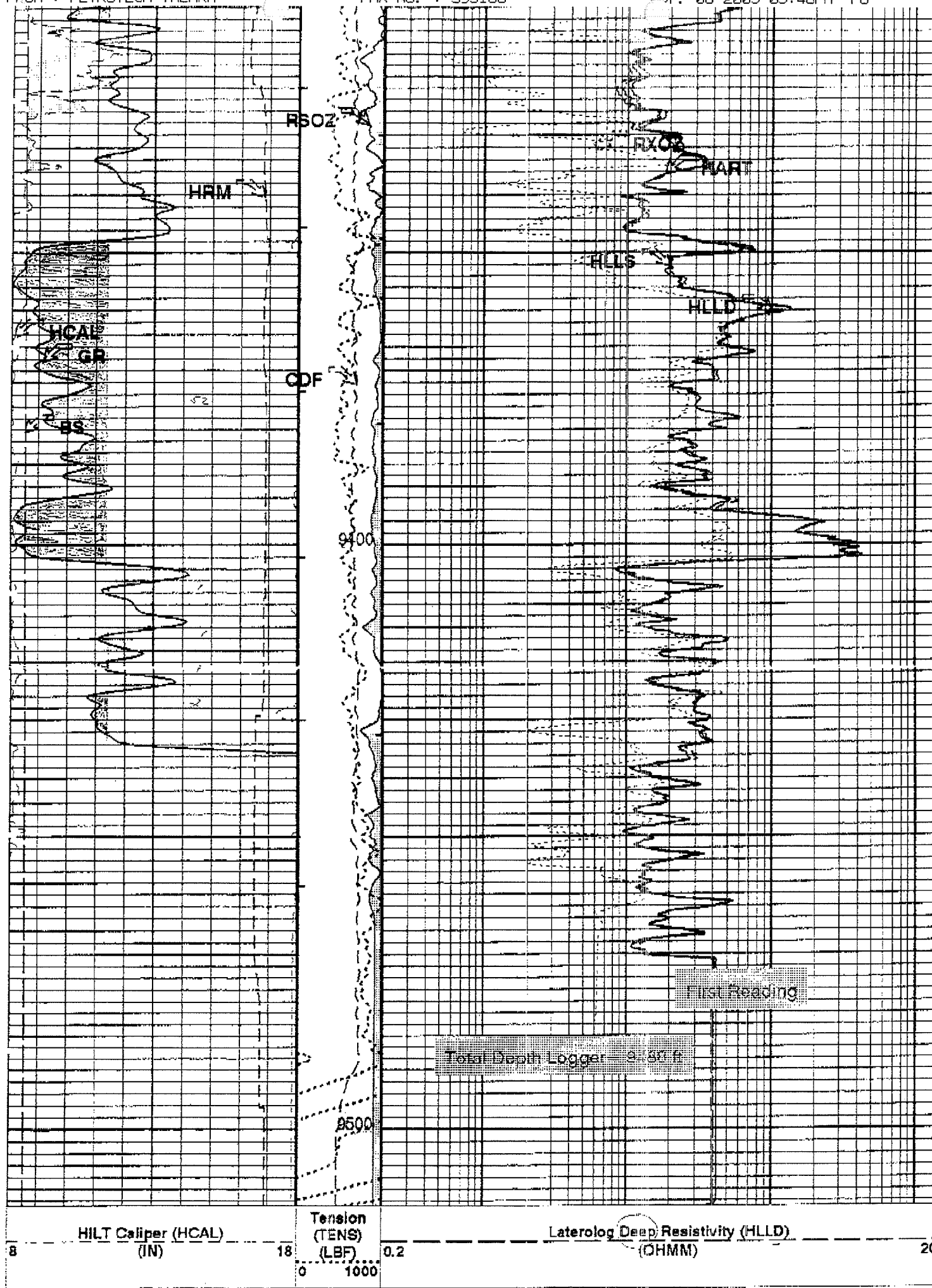
0.4311 psi/ft

9803'

520# THP / 485# CHP

NOM.: PETRO-TECH PERUANA S.A G. DE P. 4





Bit Size (BS)

6-ABR-2005 MIE 17:29

TEL: 51-1-4419423

Std. Res.
Resistivity

Laterolog Shallow Resistivity (HLLS)

NOM.: PETRO-TECH PERUANA S.A G. DE P. 6

WELL : Z - 2B - 24- 079 - D - LO6 [LO6 - 25 ST]

MECHANICAL STATUS

