2-3
EDITADO

GEARHART

INDUCTION ELECTRICAL LOG

L06-3

FILING NO.	
COMPANY	BELCO PETROLEUM CORP. OF PERU
WELL	ZZA-21-615-D-L06 (L06-3)
FIELD	LOBITOS OFFSHORE
COUNTRY	PERU
STATE	PIURA
LOCATION:	N. 1'598,627.09 m. 124,654.85 m.
Other Services	
SEC	
TWP	
RGE	
Permanent Datum	SEA LEVEL
Elev.	0'
Log Measured from	K.B. , 50' Ft. Above Perm. Datum
Drilling Measured from	K.B.
Elev.: K.B.	50'
D.F.	49'
	335'

WORKING FILE
GEOSCIENCES

FIELD
PRINT

WELL FILE

PETRO-TECH PERUANA S.A.
GEOLOGIST WELL FILE

BELCO PETROLEUM CORP. OF PERU
DPTO. TECNICO
08 ABR. 1985
RECIBIDO

Date	APRIL 06,85			
Run No.	ONE			
Depth—Driller	5490'			
Depth—Logger	5472'			
Bottom Logged Interval	5470'			
Top Logged Interval	1702'			
Casing—Driller	9 5/8 @ 1701'	@	@	@
Casing—Logger	1702'			
Bit Size	7 7/8"			
Type Fluid in Hole	SALT MUD POLYMER			
Dens. Viscosity	10.3 50			
pH Fluid Loss	11.5 3.8 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	0.16 @ 68 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.1 @ 68 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	0.2 @ 68 °F	@ °F	@ °F	@ °F
Source of Rmf Rmc	M M			
Rm @ BHT	0.1 @ 106 °F	@ °F	@ °F	@ °F
Time End Circulation	18:00			
Time Logger on bottom	00:10			
Max. Rec. Temp. Deg. F.	106 °F	°F	°F	°F
Equip. No. Location	SK-7 TALARA			
Recorded By	A. PRADO			
Witnessed By	R. MORANTE			

FOLD HERE

Changes in Mud Type or Additional Samples		
Date Sample No.		
Depth-Driller		
Type Fluid in Hole		
Dens. Visc.		
pH Fluid Loss	cc	cc
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source Rmf Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	Tool No.	Tool Type	Tool Position	S.O.	Gamma Ray Tool No.
ONE	5-89	6FF40	CENT	1 1/2"	4436

CALIBRATION DATA

Run No.	S.N. Zero	S.N. Int. Cal.	Loop Cal.	Tool Zero	Int. Cal.	GAMMA RAY API SCALE	GAMMA RAY BKG. CPS.	GAMMA RAY STD. CPS.
1	16 -1.65	193	400	10.4	642	10	100	550

Remarks:

NOTICE: Gearhart Industries, Inc. cannot and does not guarantee the accuracy or correctness of any log data or of any interpretation thereof and shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by Customer resulting from any log data or interpretation made by Gearhart Industries, Inc. or any of its agents, servants or employees. Neither log data nor interpretation thereof should be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any other procedure. Unless there is presently in effect a master or other specific or general contract intended to extend and apply hereto, this Log is provided in accordance with Gearhart Industries, Inc.'s General Terms and Conditions as set out in its current price schedule.
GEARHART INDUSTRIES, INC.

Terebratula @ 2810

TALARA

CHACRA
3028 MD
-2574 SS
905 N
1139 E

RIO BRAVO SDY (UPPER SECTION)
3775 MD
-3170 SS
N: 1187
E: 1498
HD: 1977

3970' (-3337)
1993 HD

MID MASSIVE SDS
4043 MD
-3385 SS
N: 1268
E: 1638

Net Sand
164' MT.

MARIMBA
4140 MD

April 8/85. Perf & Frac 3rd stg. 4241-4071, 25 shots

cf 380 psi

April 8/85 IPA: 1623 BOPD
April 9/85 1999 BOPD

ACC. Abril-92
312,000 BO

April 8/85. Perf & Frac 2nd stg. 4613-4273, 20 shots

BASE MID MASS. SDS
4516 MD
-3760 SS
N 1434
E 1876

Total Net Sd
350' MD
287' VD

April 8/85 Perf & Frac 1st stage 5083-4750, 19 shots

RIO BRAVO SHY.
5116 MD
-4250 SS
N: 1576
E: 2183
HD: 2647

HD

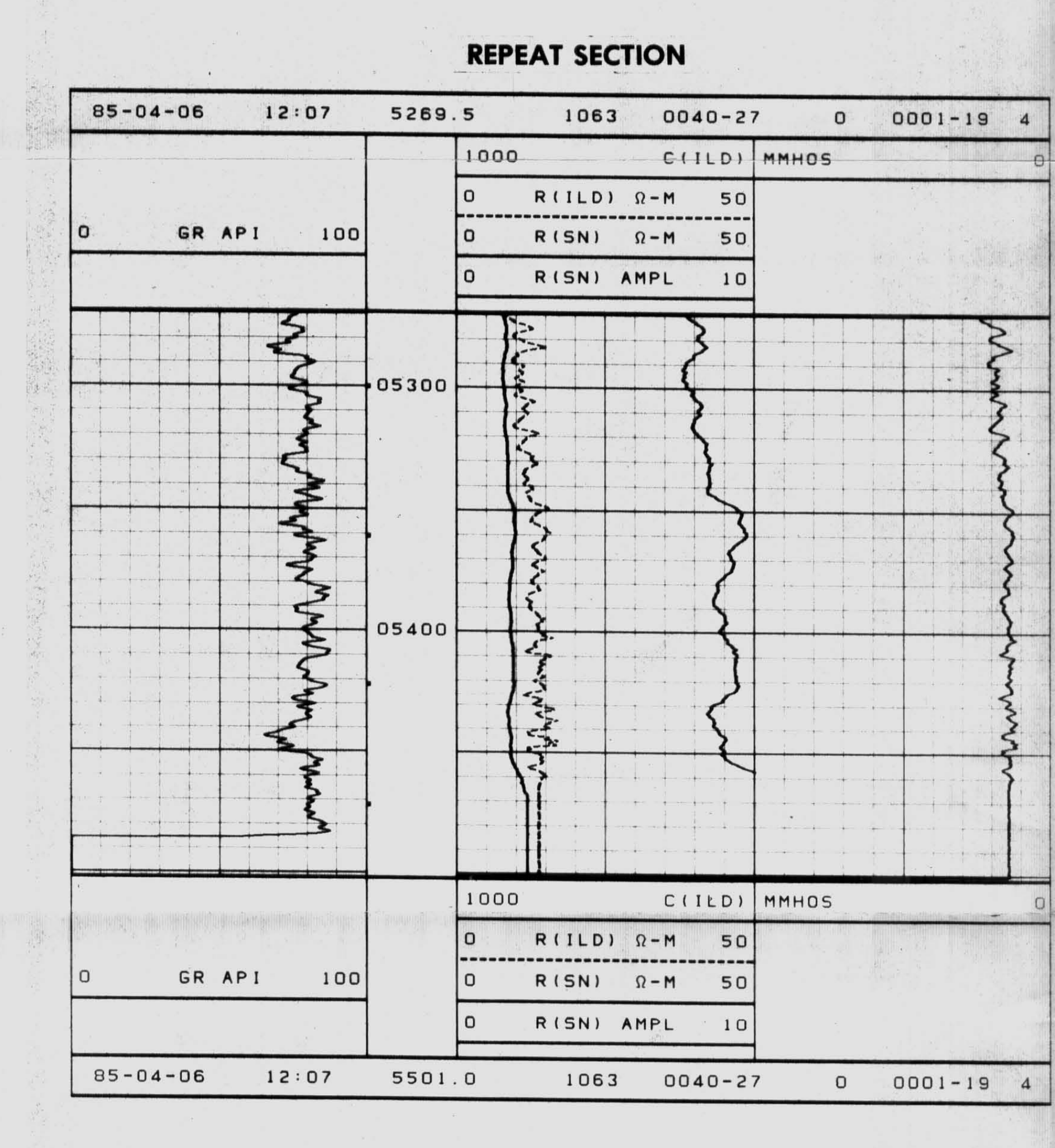
5 1/2 cgs
5224

TMD 5490
TSS -4566
N: 1625
E: 2381

L06-3

L06-3

REPEAT SECTION



INDUCTION BEFORE SURVEY CALIBRATION

RESISTIVITY

	MEASURED LOW	MEASURED HIGH	CALIBRATED LOW	CALIBRATED HIGH	UNITS
ILD	-0.6	403.1	0.0	400.0	MM/M
SN	0.0	16.1 *	0.0	16.0	OHM-M

ILD SONDE ERROR CORRECTION: -8.1 MM/M

INDUCTION AFTER SURVEY CALIBRATION

RESISTIVITY

	LOW BEFORE	LOW AFTER	HIGH BEFORE	HIGH AFTER	UNITS
ILD	0.0	0.0	400.0	400.0	MM/M
SN	0.0	0.0	16.0	16.0	OHM-M

ILD SONDE ERROR CORRECTION: -8.1 MM/M