2-3

GEARHART

INDUCTION ELECTRICAL LOG

FILING NO.	
COMPANY	BELCO PETROLEUM CORP. OF PERU
WELL	Z2A-21-626-D-LOG (LO6-2)
FIELD	LOBITOS OFFSHORE
COUNTY	TALARA
STATE	PIURA
Location	N: 1'598,625.52 m. E: 124,657.40 m.
Other Services	G R
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'
G.L.	-335'

WORKING GEOSCIENCES FILE

WELL FILE

BELCO PETROLEUM CORP. OF PERU DPTO. TECNICO 21 MAYO 1985 RECIBIDO

PETRO-TECH PERUANA S.A. GEOLOGIST WELL FILE

LO6-2

Date	MAY-20-85		
Run No.	ONE		
Depth—Driller	5353'		
Depth—Logger	5332.5'		
Bottom Logged Interval	5334		
Top Logged Interval	1497'		
Casing—Driller	9 5/8" @ 1499'	@	@
Casing—Logger	1497		
Bit Size	7 7/8"		
Type Fluid in Hole	SALT SATURED POLYMER		
Density / Viscosity	10.5 / 48		
pH / Fluid Loss	11.5 / 3.2 cc	cc	cc
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	.07 @ 82 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.05 @ 82 °F	@ °F	@ °F
Rmc @ Meas. Temp.	.15 @ 80.5 °F	@ °F	@ °F
Source of Rmf / Rmc	M.P / M.P		
Rm @ BHT	.05 @ 115 °F	@ °F	@ °F
Time: End Circulation	22:00 (19)		
Time: Logger on bottom	03:10		
Max. Rec. Temp. Deg. F.	115 °F	°F	°F
Equip. No. / Location	SK-5 / TALARA		
Recorded By	F. AREVALO / J. CASTRO		
Witnessed By	A. GARRO		

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	5-91	GFF40	FREE	—	4564

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	4.49	192	400	13.1	632	10	17	472

Remarks:

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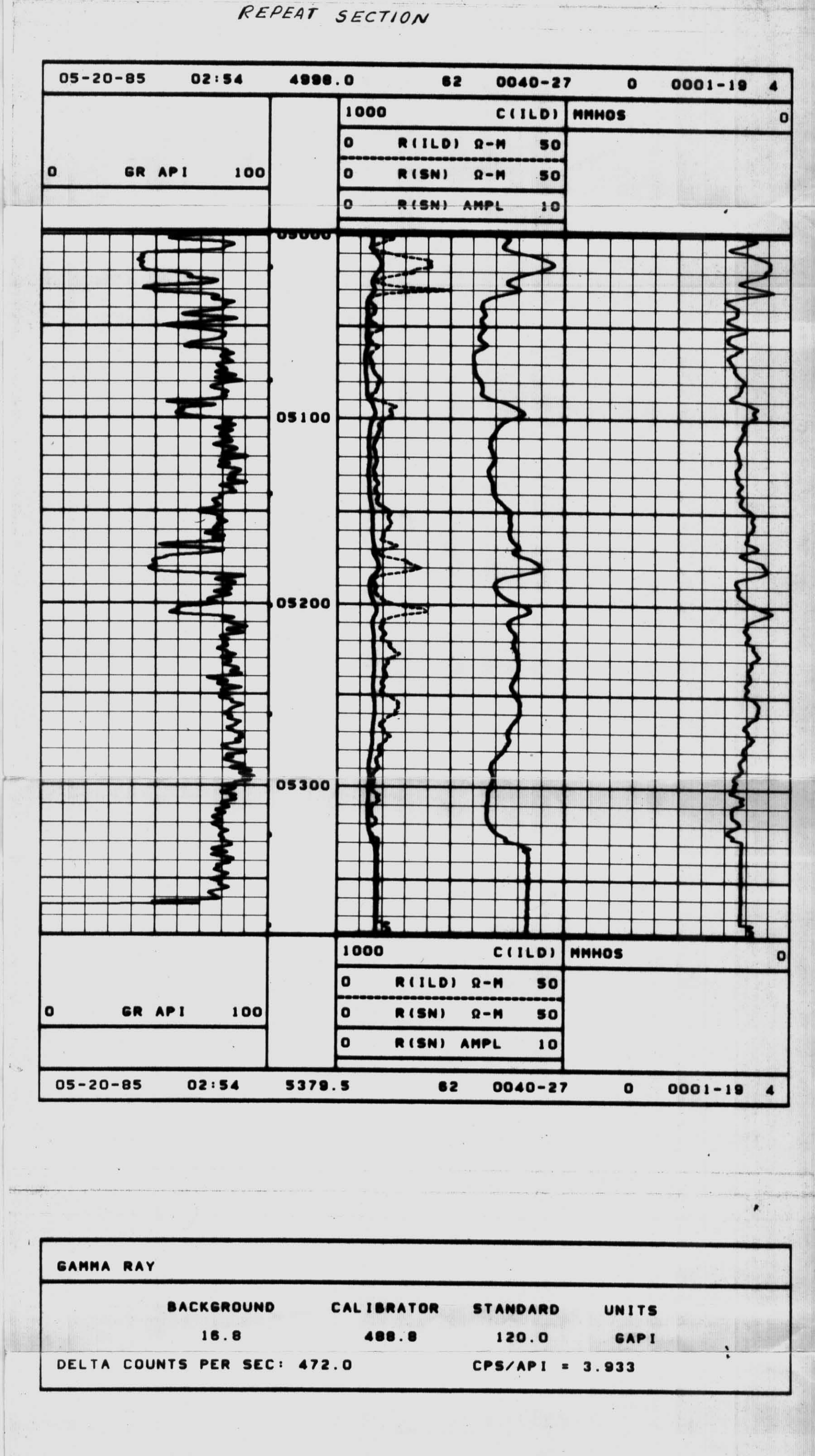
GEARHART INDUSTRIES, INC.

05-20-85 04:32 345.0 62 0040-27 0 0001-19 7

0 GR API 70

REPEAT SECTION



0 GR API 100	1000 C(ILD)	MMHOS 0
	0 R(ILD) Ω-M 50	
	0 R(SN) Ω-M 50	
	0 R(SN) AMPL 10	

05-20-85 02:54 5379.5 62 0040-27 0 0001-19 4

GAMMA RAY

	BACKGROUND	CALIBRATOR	STANDARD	UNITS
	16.8	488.8	120.0	GAPI

DELTA COUNTS PER SEC: 472.0 CPS/API = 3.933

INDUCTION SHOP CALIBRATION

DATE PERFORMED: 05-91-00

PRIMARY CALIBRATION DATA

	ZERO(AIR)	LOOP CAL	INT ZERO	INT CAL	UNITS
ILD	13	655	-2	640	MV

REFERENCE DATA

	LOOP STD	INTERNAL ZERO	INTERNAL CAL	CALIBRATED LOW	CALIBRATED HIGH	UNITS
ILD	400	-1.2	400.0	0.0	400.0	MM/M

ILD SONDE ERROR CORRECTION: -9.3 MM/M * ILD CONVR: 1.60 MV-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	15.9	OHM-M

ILD SONDE ERROR CORRECTION: -9.3 MM/M

PETRO—TECH PERUANA S.A. GEOLOGIST WELL FILE

INDUCTION BEFORE SURVEY CALIBRATION

RESISTIVITY

	MEASURED LOW	MEASURED HIGH	CALIBRATED LOW	CALIBRATED HIGH	UNITS
ILD	0.0	395.6	0.0	400.0	MM/M
SN	0.0	16.3 *	0.0	16.0	OHM-M

ILD SONDE ERROR CORRECTION: -9.3 MM/M