E-7
EDITADO

GEARHART

INDUCTION ELECTRICAL LOG

FILING NO.

COMPANY BELCO PETROLEUM CORP. OF PERU
WELL Z2A-21-606-D-LO6 (LO6-5)
FIELD LOBITOS OFFSHORE
COUNTY TALARA STATE PIURA
LOCATION: N: 1'598,633.30 m. E: 124,652.63 m.
Other Services: GR
SEC ____ TWP ____ RGE ____

WORKING FILE GEOSCIENCES

WELL FILE

LO6-5

BELCO PETROLEUM CORP. OF PERU
DPTO. TECNICO
RECIBIDO
15 FEB. 1985

PETRO-TECH PERUANA S.A.
GEOLOGIST WELL FILE

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'

Date	FEB. 9. 1985
Run No.	ONE
Depth–Driller	5689'
Depth–Logger	5603'
Bottom Logged Interval	5602'
Top Logged Interval	1806'
Casing–Driller	9 5/8" @ 1805'
Casing–Logger	1806'
Bit Size	7 7/8"
Type Fluid in Hole	LIGNOSULPHONATE
Density / Viscosity	10.3 / 50
pH / Fluid Loss	10.5 / 3.2 cc
Source of Sample	M.P.
Rm @ Meas. Temp.	0.22 @ 80 °F
Rmf @ Meas. Temp.	0.14 @ 79 °F
Rmc @ Meas. Temp.	0.60 @ 81 °F
Source of Rmf / Rmc	M.P. / M.P.
Rm @ BHT	0.15 @ 120 °F
Time: End Circulation	06:00
Time: Logger on bottom	14:55
Max. Rec. Temp. Deg. F.	120 °F
Equip. No. / Location	SK-5 / TALARA
Recorded By	F. AREVALO
Witnessed By	R. MORANTE

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	-	-	4435

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.
01	-1.54	193	400	10.4	636	10	27.6	474.8

Remarks:

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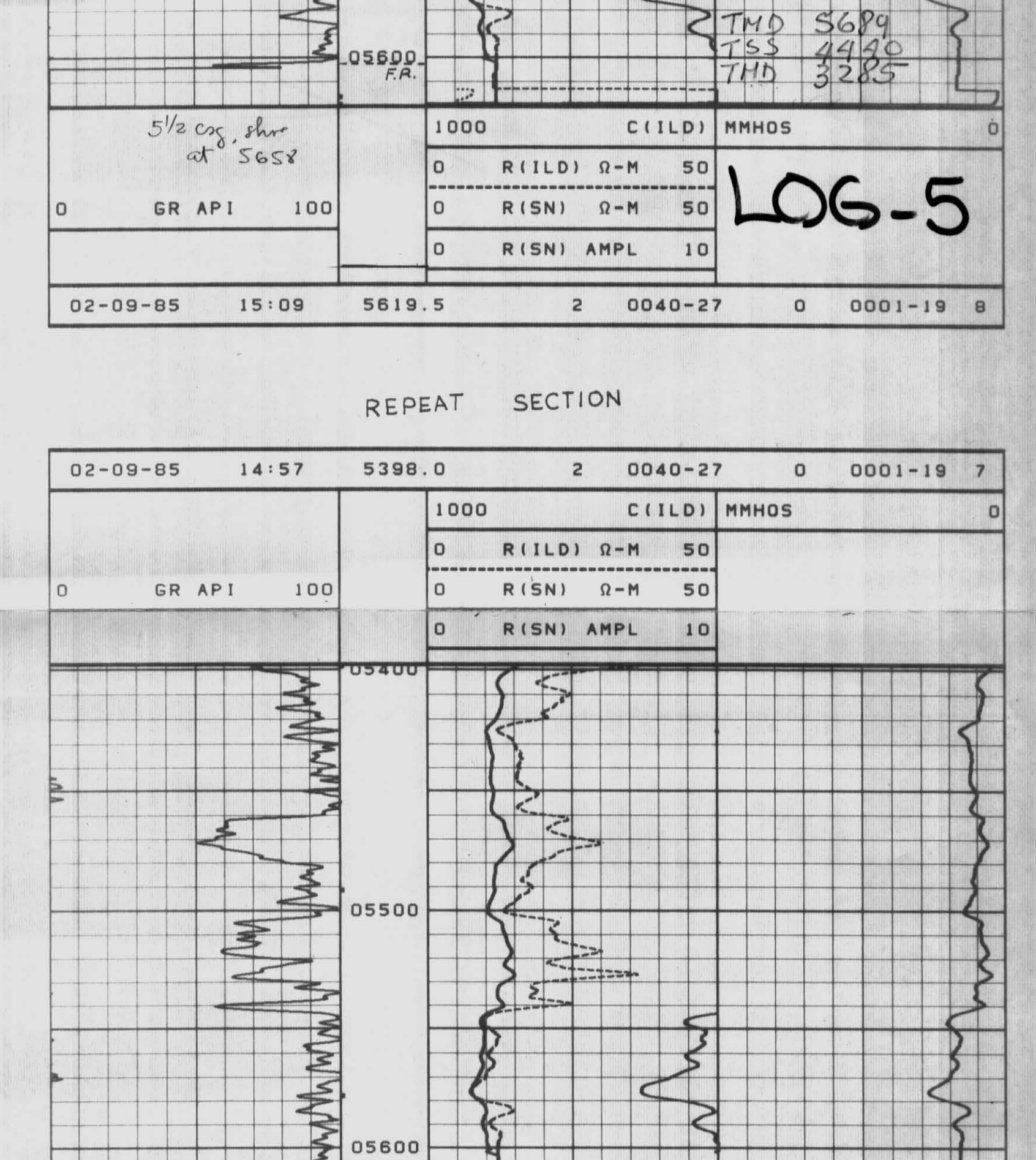
GEARHART INDUSTRIES, INC.

REPEAT SECTION



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

INDUCTION BEFORE SURVEY CALIBRATION

RESISTIVITY

	MEASURED LOW	MEASURED HIGH	CALIBRATED LOW	CALIBRATED HIGH	UNITS
ILD	-0.6	399.3	0.0	400.0	MM/M
SN	-0.1	16.0 *	0.0	16.0	OHM-M

ILD SONDE ERROR CORRECTION: -8.1 MM/M

GAMMA RAY

BACKGROUND	CALIBRATOR	STANDARD	UNITS
27.6	474.8	120.0	GAPI

DELTA COUNTS PER SEC: 447.2 CPS/API = 3.726

INDUCTION SHOP CALIBRATION
DATE PERFORMED: 05-89-00

PRIMARY CALIBRATION DATA

	ZERO(AIR)	LOOP CAL	INT ZERO	INT CAL	UNITS
ILD	11	648	-2	635	MV

REFERENCE DATA

	LOOP STD	INTERNAL ZERO	INTERNAL CAL	CALIBRATED LOW	CALIBRATED HIGH	UNITS
ILD	400	-1.2	399.3	0.0	400.0	MM/M

ILD SONDE ERROR CORRECTION: -8.1 MM/M * ILD CONVR: 1.59 MV-MM/M

PETRO-TECH PERUANA S.A.
GEOLOGIST WELL FILE