Schlumberger

DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY
FIELD
LOCATION
WELL
COMPANY

COMPANY COMISION FEDRAL DE ELECTRICIDAD
WELL M-91
FIELD CERRO PRIETO
COUNTY BAJA CALIF. STATE MEXICO

LOCATION 30 MILES SOUTH OF MEXICIALI BAJA

Other Services: ML

API SERIAL NO	SEC	TWP	RANGE

Permanent Datum: GL ; Elev.:
Log Measured From RT Ft. Above Perm. Datum
Drilling Measured From RT

Elev.: K.B.
D.F.
G.L.

Date	4-5-77			
Run No.	ONE			
Depth - Driller	3280			
Depth - Logger	3309			
Btm. Log Interval	3303			
Top Log Interval	970			
Casing - Driller	16" @ 968	@	@	@
Casing - Logger	970			
Bit Size	17½			
Type Fluid in Hole	GEL			
Dens. | Visc.	1.2 | 48	|	|	|
pH | Fluid Loss	– | 6cc ml	| ml	| ml	| ml
Source of Sample	CIRC			
Rm @ Meas. Temp.	3.25 @ 65 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.0 @ 66 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.5 @ 66 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	|	|	|
Rm @ BHT	1.01 @ 210 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2000			
TIME Logger on Bottom	2400			
Max. Rec. Temp.	210 °F	°F	°F	°F
Equip. | Location	7816 | 4404	|	|	|
Recorded By	LOCKWOOD			
Witnessed By	DE LEON			

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE			
Service Order No.	SWR 0 27			
Fluid Level	SURF			
Salinity - PPM CL.	1350			
Speed - F.P.M.	100			

EQUIPMENT DATA

Panel No.	DC 419			
Cart No.	B 354			
Sonde No.	DB 327			
Mem. Panel No.	BA 413			
G.R. Panel No.	/			
G.R. Cart. No.	/			
Tape Recorder - (TTR)	/			
Depth Encoder - (DRE)	/			
Pressure Wheel (CPW)	/			
Type Centralizers	STANDOFF			
Stand Off - Inches	1.5'			

CALIBRATION DATA

Sonde Error - ILM	4.0			
Sonde Error - ILD	5.3			
G.R. BKG. - CPS.	/			
G.R. Source - CPS	/			

LOGGING DATA

S.E. Log - ILM	SAME			
S.E. Log - ILD				
S.E. - Set in Hole - Depth	/			
S.E. Corr. - Hole Size	/			
G.R. Scale per 100 Div.	/			
G.R. - T.C.	/			
G.R. Sens.	/			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

REMARKS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL

10
– |↔| + MILLIVOLTS

CONDUCTIVITY MILLIMHOS/M = 1000 / OHMS M²/M

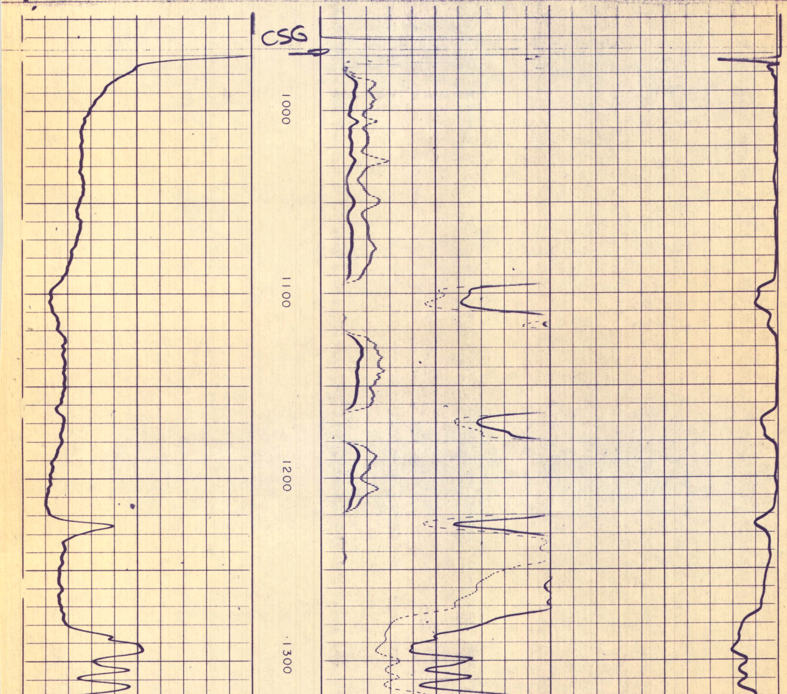
DEEP INDUCTION
2000 0

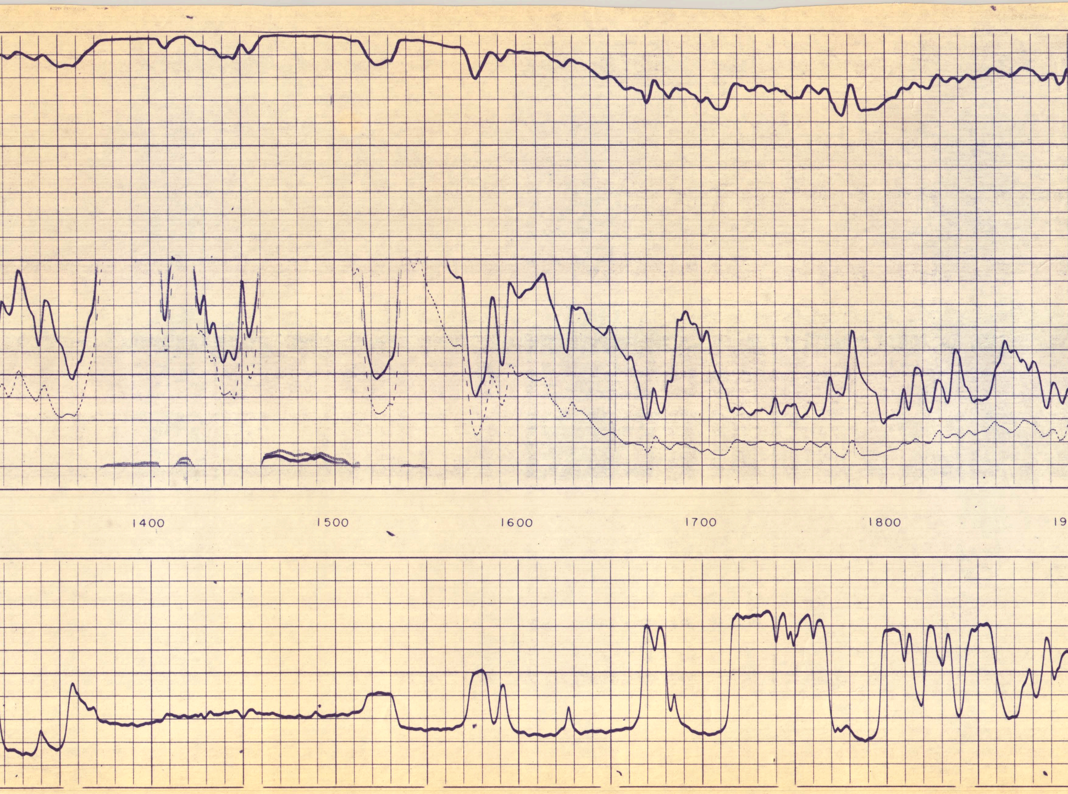
RESISTIVITY OHMS M²/M

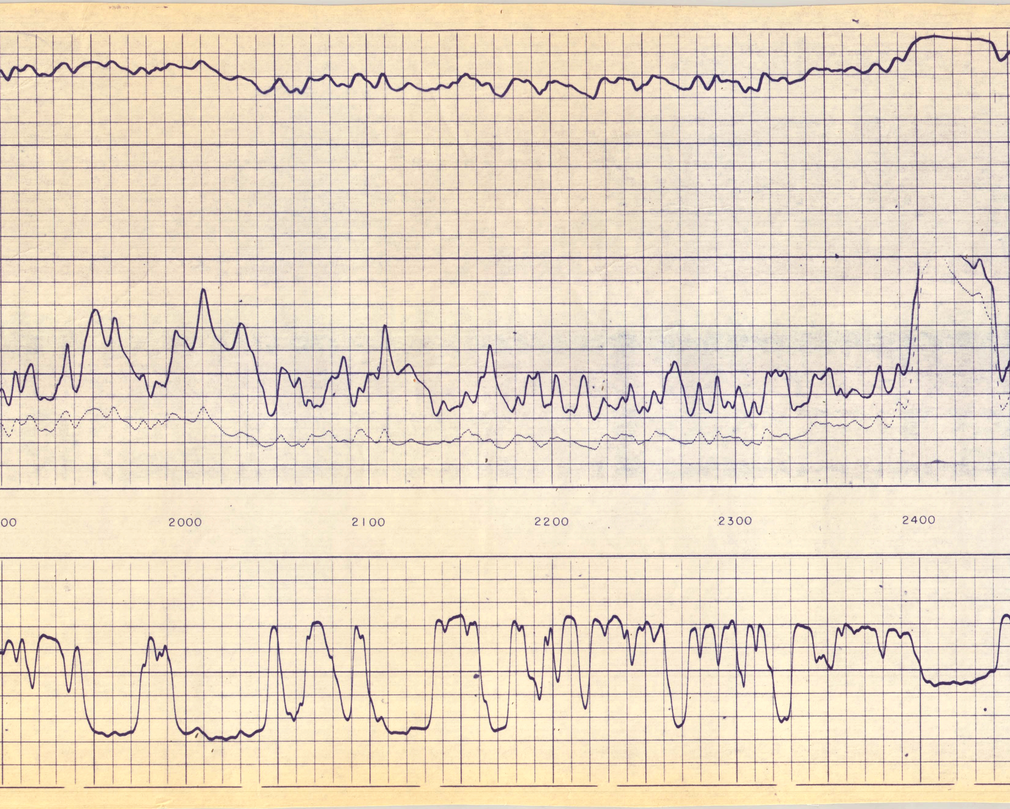
DEEP INDUCTION
0 10
0 100

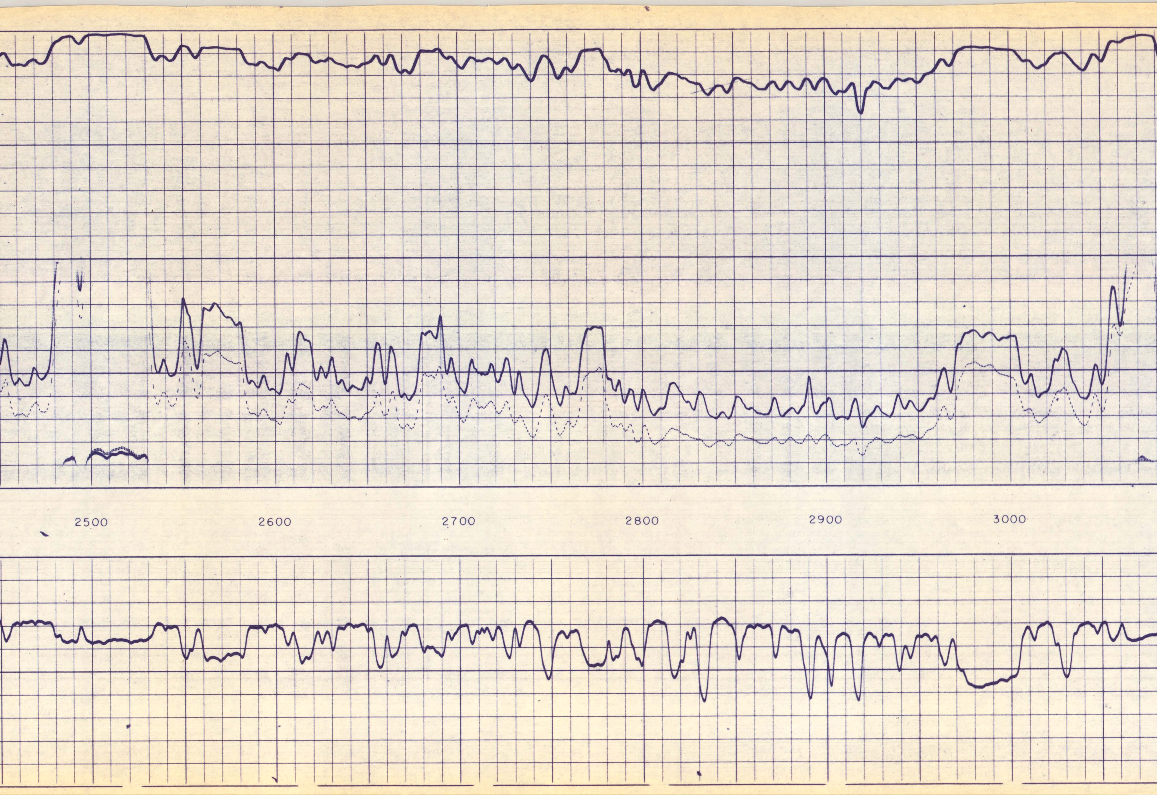
AVERAGED LATEROLOG-8
0 10
0 100

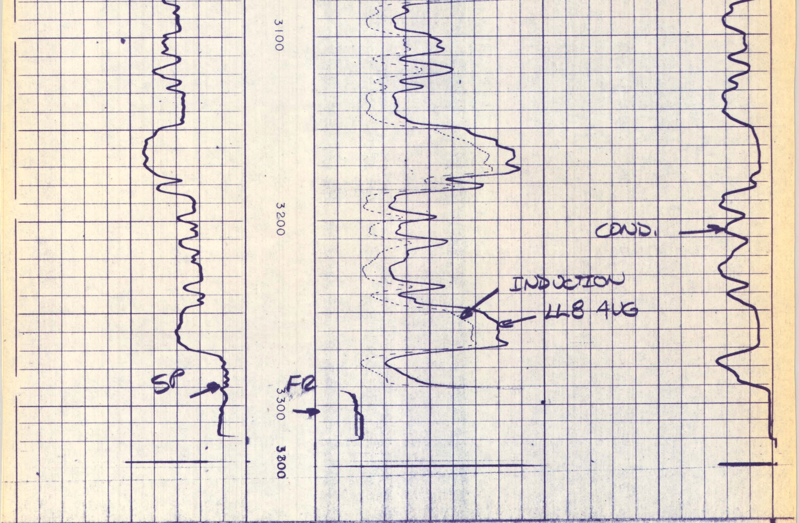
AMP. AVE. LATEROLOG – 8
0 2











SPONTANEOUS POTENTIAL

10

– |–| + MILLIVOLTS

RESISTIVITY OHMS. M²/M

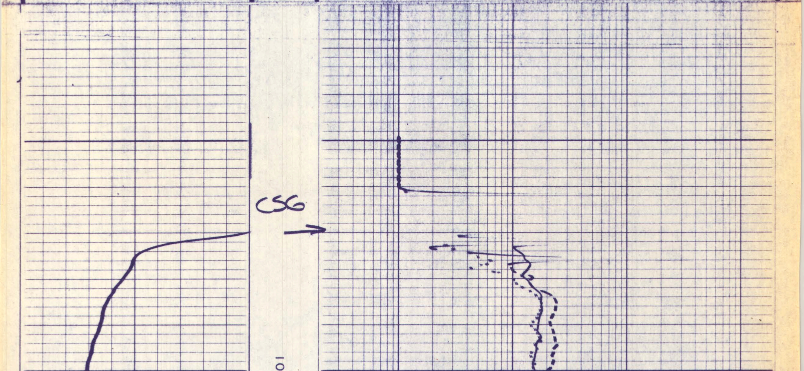
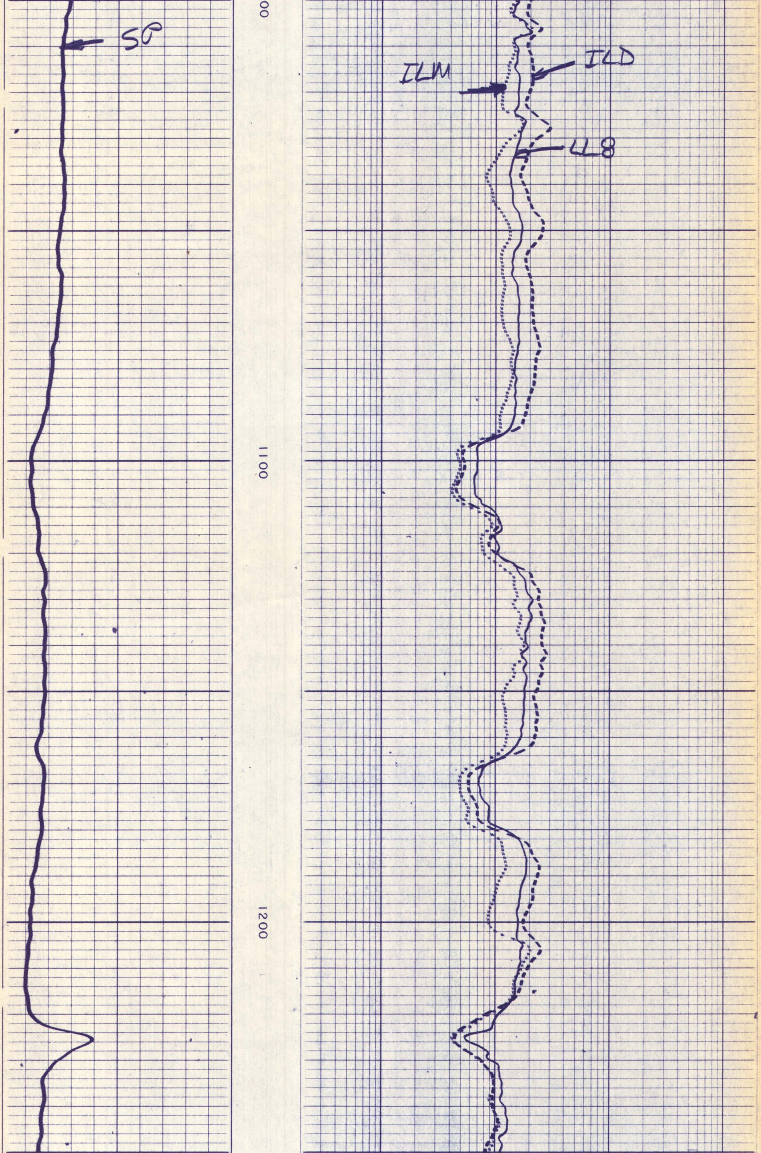
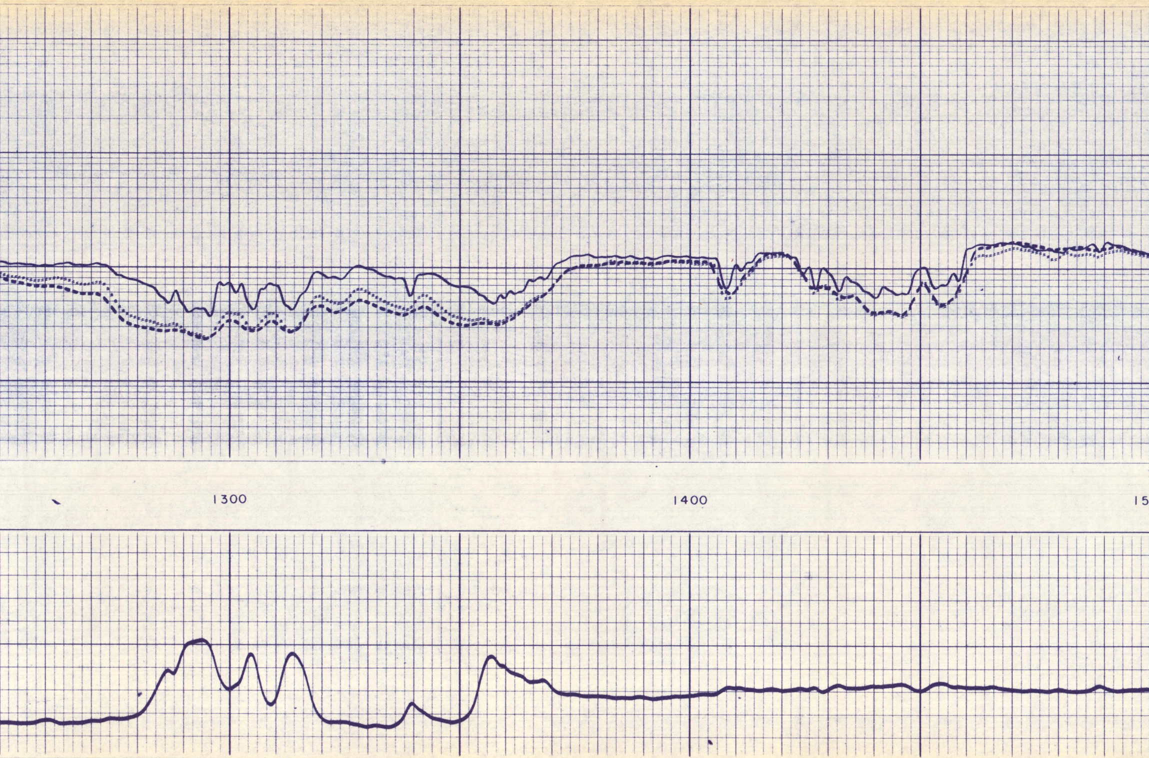
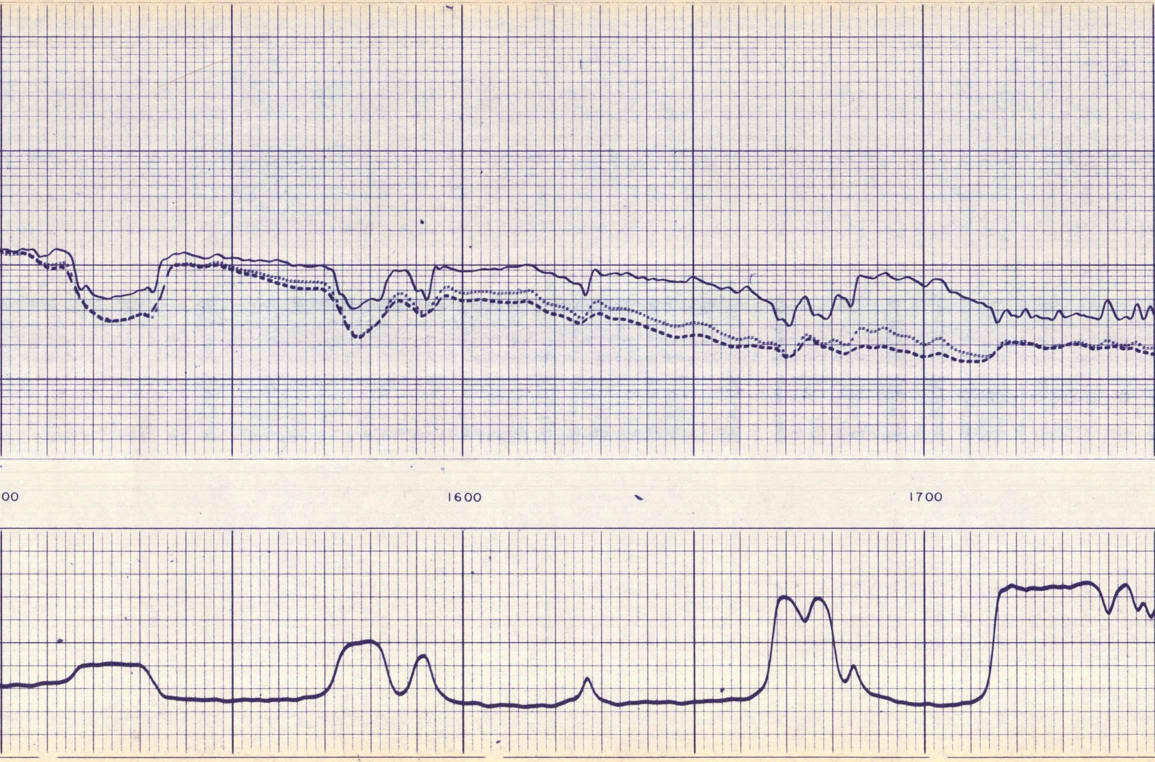
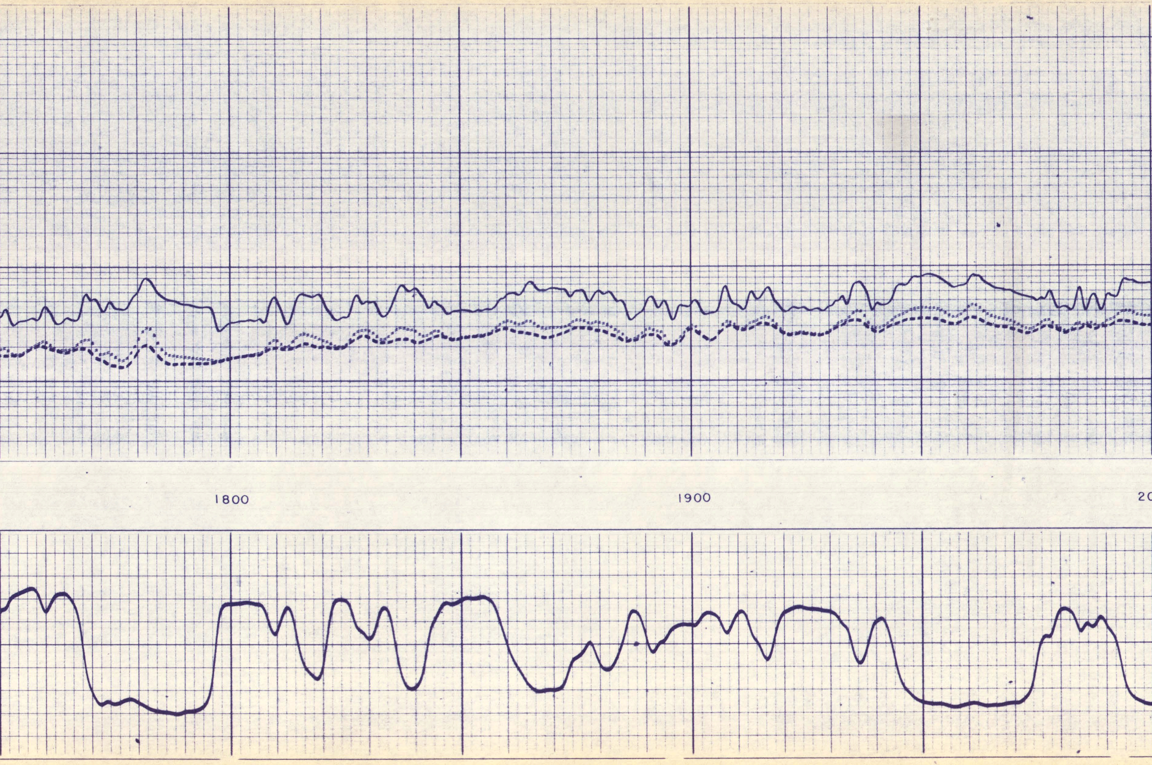
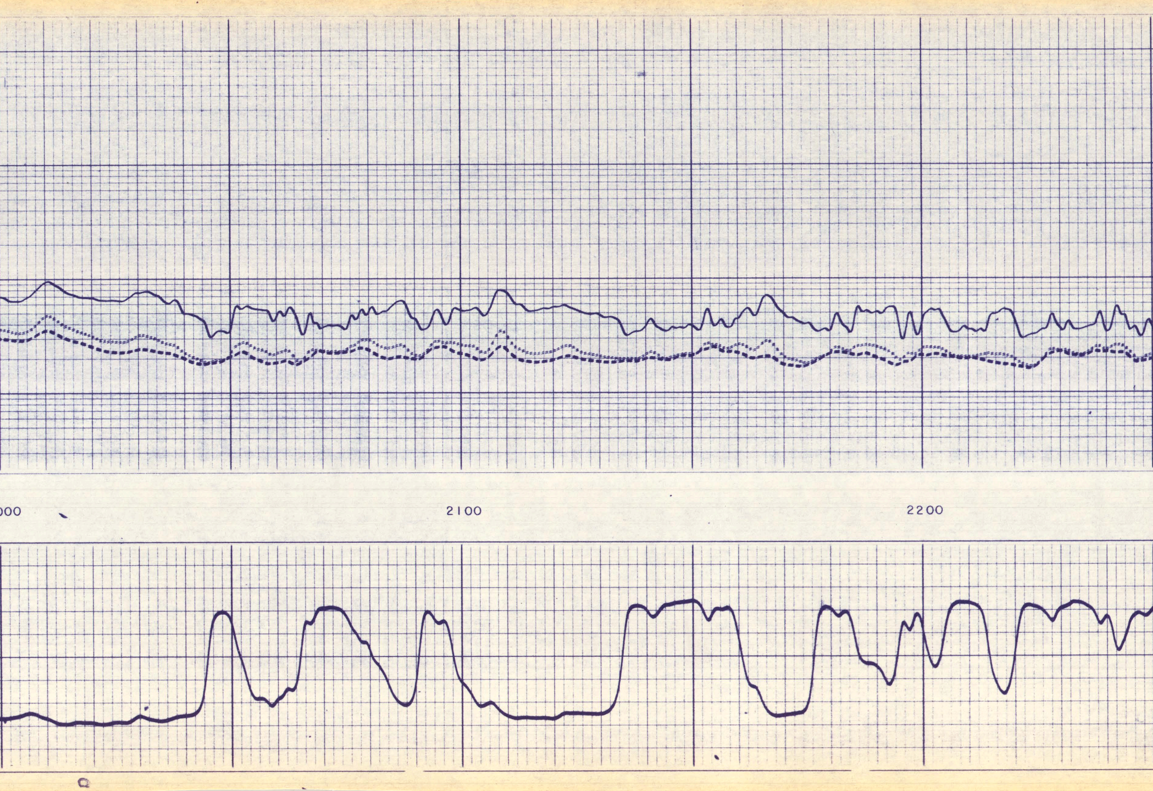
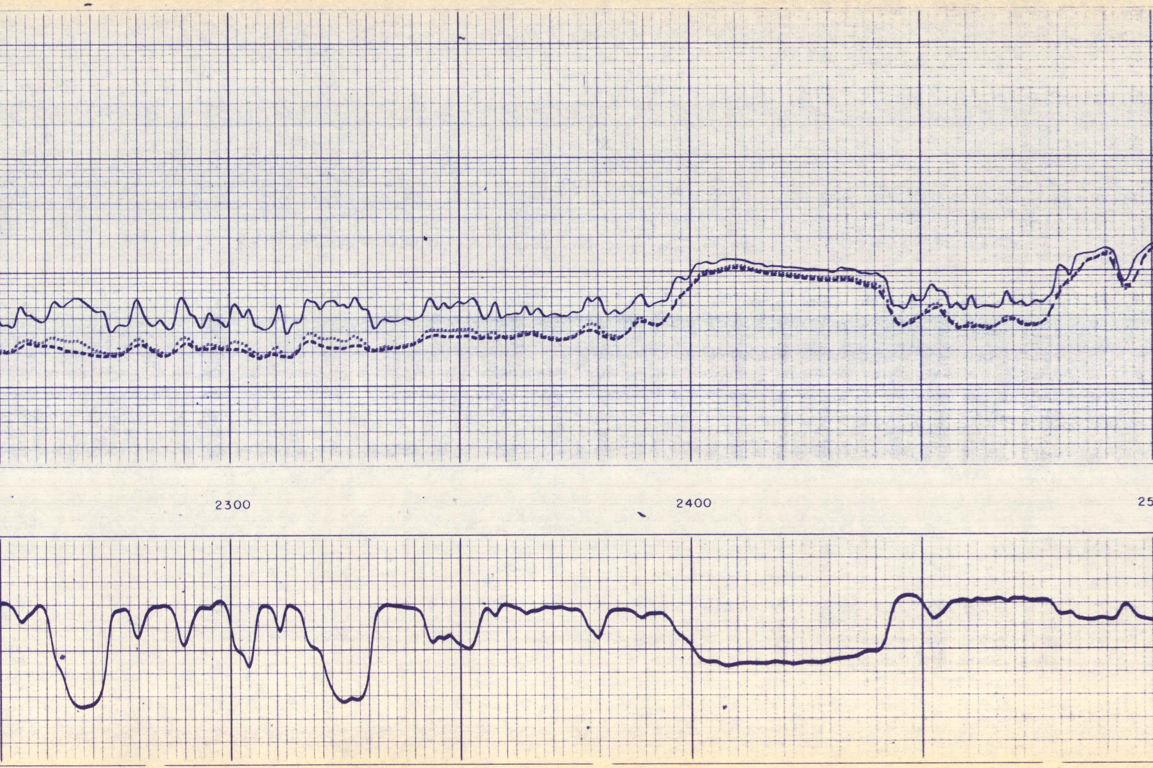
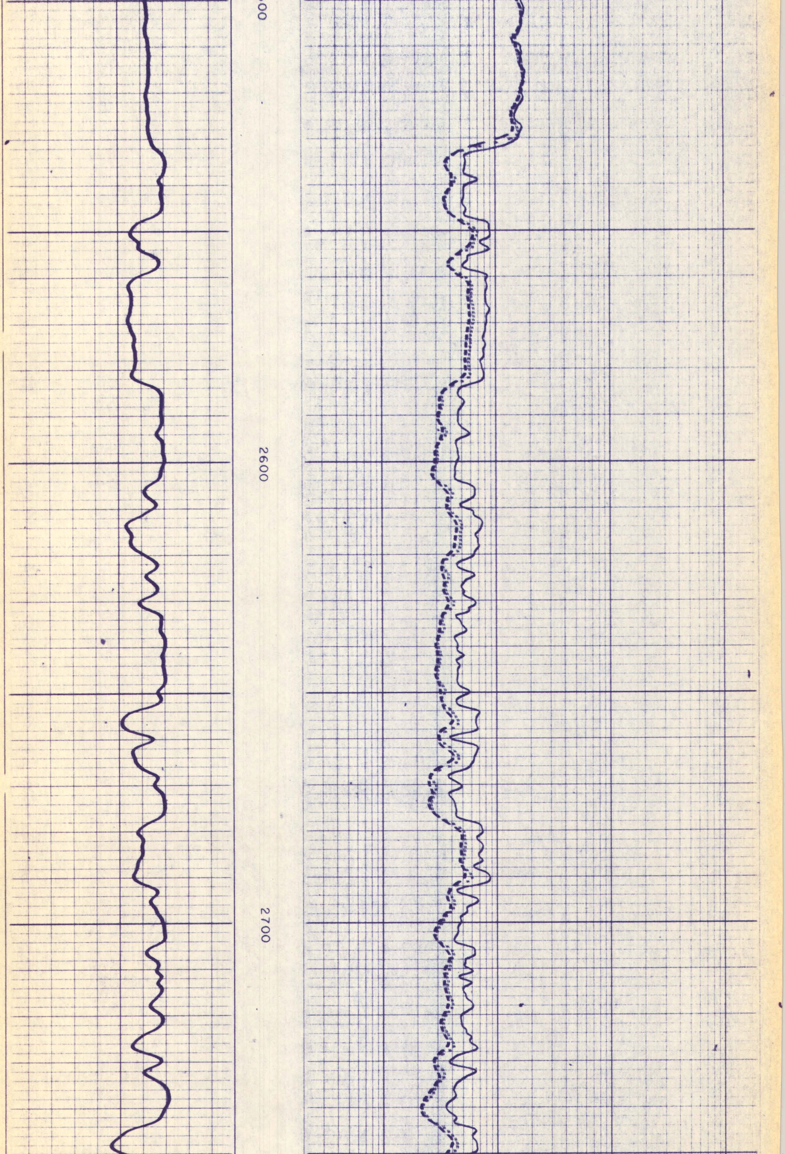
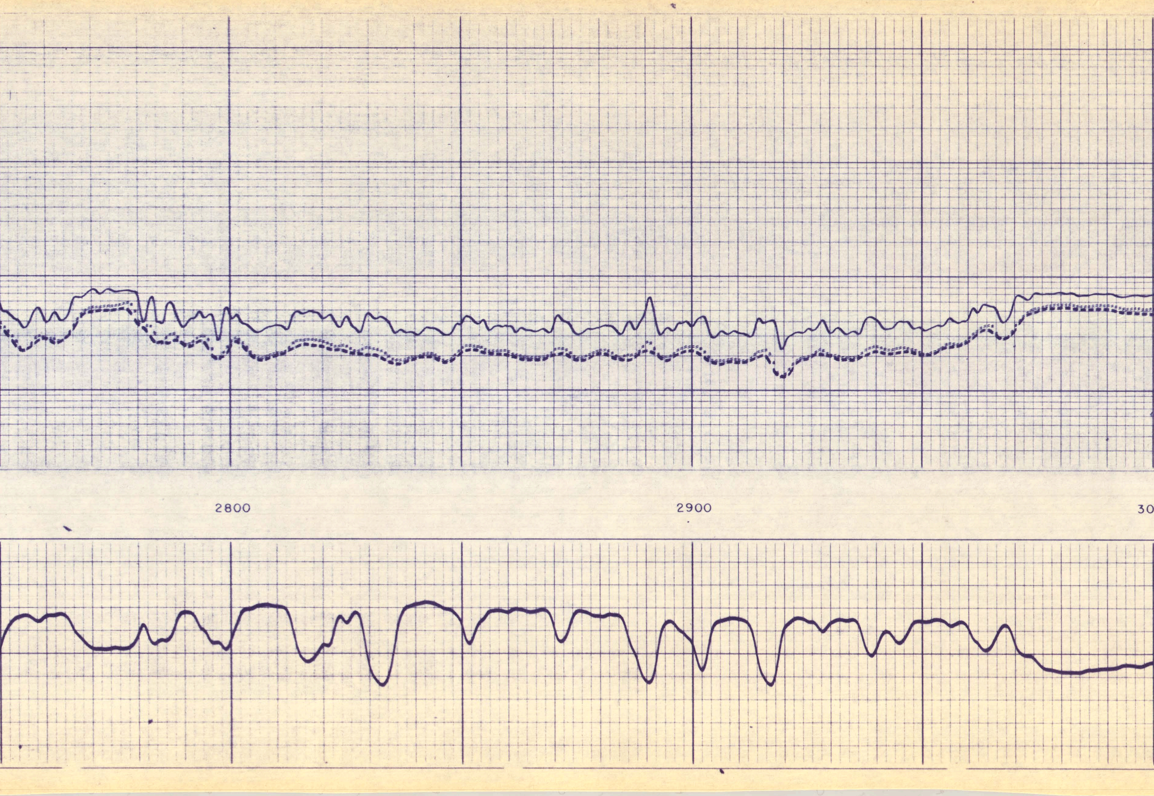
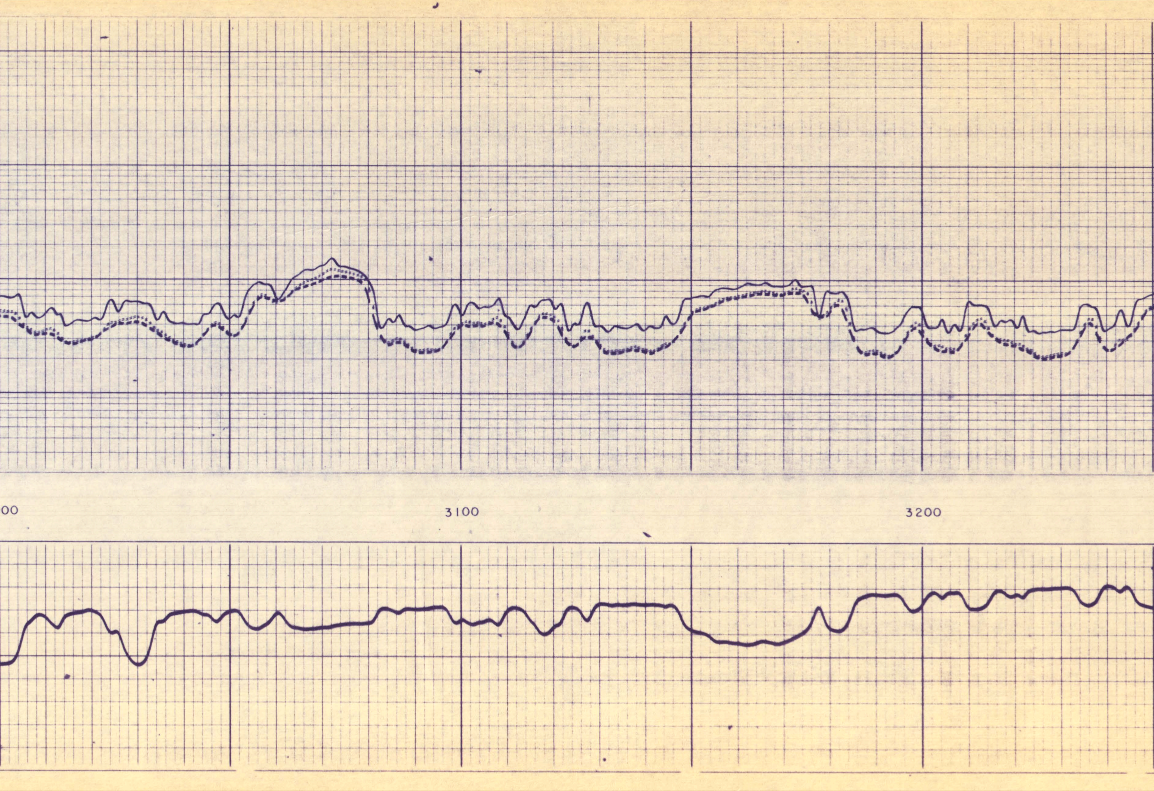
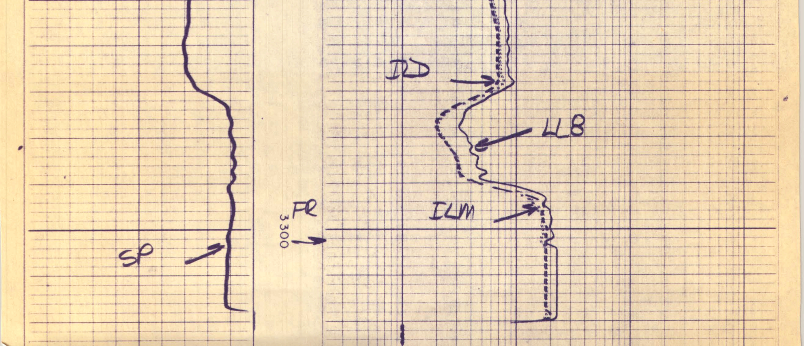
DEEP INDUCTION LOG

0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION LOG

0.2 1.0 10 100 1000 2000

LATEROLOG – 8

0.2 1.0 10 100 1000 2000