AH4944

Schlumberger

DUAL INDUCTION-SFL-SONIC
WITH LINEAR CORRELATION LOG

COUNTY OFFSHORE
FIELD CHARLOTTE HARBOR
LOCATION BLOCK 188
WELL OCS G 3909
WELL #1
COMPANY ODECO OIL AND GAS CO

COMPANY ODECO OIL AND GAS COMPANY

CONFIDENTIAL

WELL OCS G 3909 WELL #1

FIELD CHARLOTTE HARBOR BLOCK 188

COUNTY OFFSHORE STATE FLORIDA

LOCATION

API SERIAL NO. | SEC. | TWP. | RANGE

Other Services:
FDC
CNL

Permanent Datum MWL, Elev 0.0
Log Measured From KB 92.0 Ft Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 92.0
D.F. 91.0
MWL

ate	7/14/81	8/25/81		
un No.	ON	TWO		
epth Driller	5 0	11360		
epth - Logger	5 4	11334		
tm. Log Interval	5 1	11331		
op Log Interval	1 4	5391		
asing Driller	2 @ 1264	13 3/8 @ 5359	@	@
asing Logger	1 4	5353		
it Size	1 "	12 1/4"		
ype Fluid in Hole	SEAWTR. GEL	LIGNOSULF.		
Dens. | Visc.	8.40 | 70-80	9.00 | 32.0	|	|
pH | Fluid Loss	- | - ml	11.50 | 17.8 ml	| ml	| ml
ource of Sample	PIT	FLOWLINE		
Rm @ Meas. Temp.	0.25 @ 75 F	0.54 @ 72 F	@ F	@ F
Rmf @ Meas. Temp.	- @ - F	0.52 @ 72 F	@ F	@ F
Rmc @ Meas. Temp.	- @ - F	0.71 @ 79 F	@ F	@ F
Source: Rmf | Rmc	- | -	M | M	|	|
Rm @ BHT	0.19 @ 97 F	0.28 @ 139 F	@ F	@ F
Circulation Stopped	2100 7/13	0830 8/25		
Logger on Bottom	0100 7/14	1530 8/25		
ax. Rec. Temp.	97 F	139 F	F	F
quip. | Location	C4539 | PMOS	C4539 | PMOS	|	|
ecorded By	BRYAN	BRYAN		
itnessed By MR.	SFALS/ROGERS	HURLEY/CUPP		

RECEIVED
DEC 27 1988
BUREAU OF GEOLOGY

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

RUN NO.	ONE	TWO		
Service Order No.	106558	103821		
Fluid Level	92'	FULL		
Salinity, PPM Cl	-	-		
EQUIPMENT DATA				
Ind. Panel No.	524	524		
Mem. Panel No.	550	550		
Ind. Cart. No.	326	41		
Ind. Sonde No.	54	54		
Sonic Panel No.	-	-		
Oscil Panel No.	-	-		
Sonic Cart. No.	-	-		
Sonic Sonde No.	-	-		
G. R. Cart. No.	-	-		
G. R. Panel No.	550	550		
Caliper No.	-	-		
TTR No.	-	-		
DRE No.	-	-		
CPW No.	-	-		
Centralizer Device	RUBBER	RUBBER		
CALIBRATION DATA				
Surf. ILD S.E.	6.2	1.1		
Surf. ILM S.E.	7.4	7.4		
ILD S.E. Corrected	-	-		
ILM S.E. Corrected	-	-		
Depth ILD & ILM Zero Set	-	-		
G. R. BKGD CPS.	30	34		
G. R. Source CPS.	470	458		
G. R. Cal. Sens.	-	-		
G. R. T. C. CAL.	AUTO	AUTO		
LOGGING DATA				
G. R. Sens.-Log	-	-		
G. R. T. C.-Log	AUTO	AUTO		
Speed-F.P.M.	60	60		

SCALE CHANGES

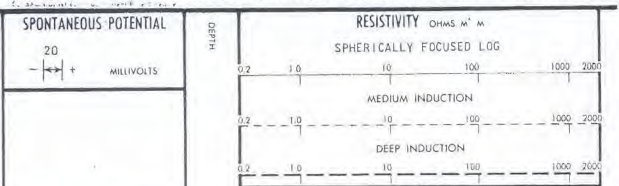
Type Log	Depth	Scale Up Hole	Scale Down Hole

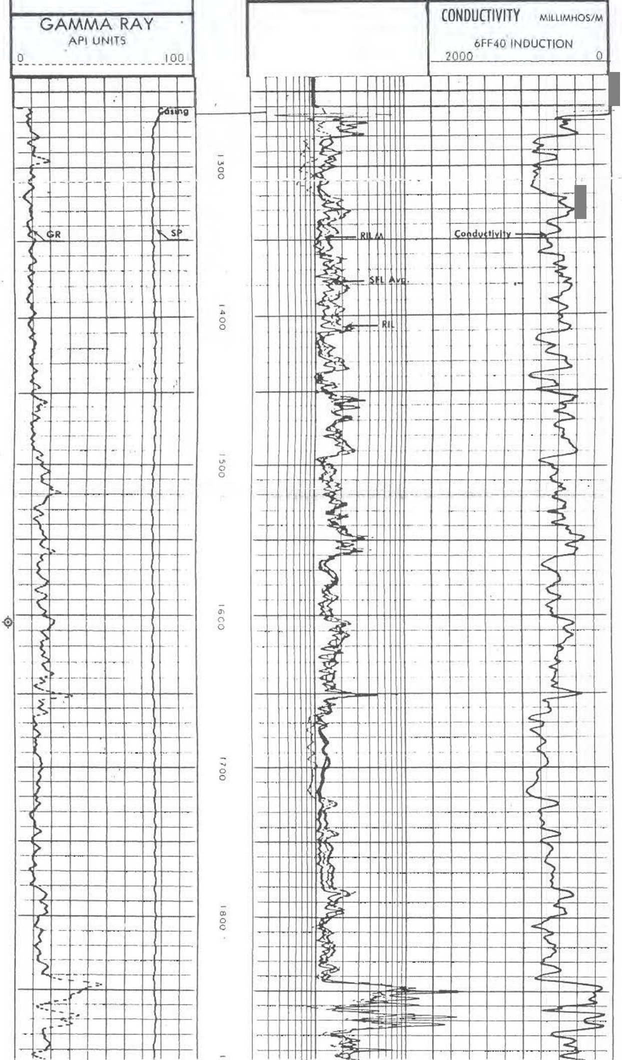
REMARKS:

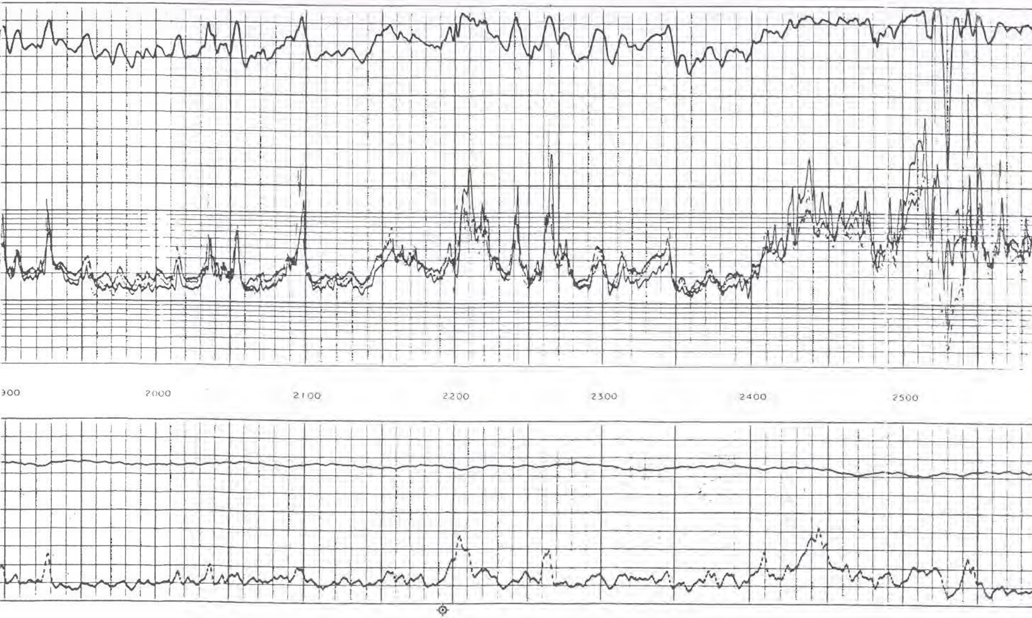
RUN 1: SONIC POOR QUALITY DUE TO OVERSIZED HOLE AND WASHOUTS. SP GREATLY INFLUENCED BY ZONES TAKING FLUID. 2' LINES NOT UNIFORM IN SPOTS DUE TO RECORDER MALFUNCTION.

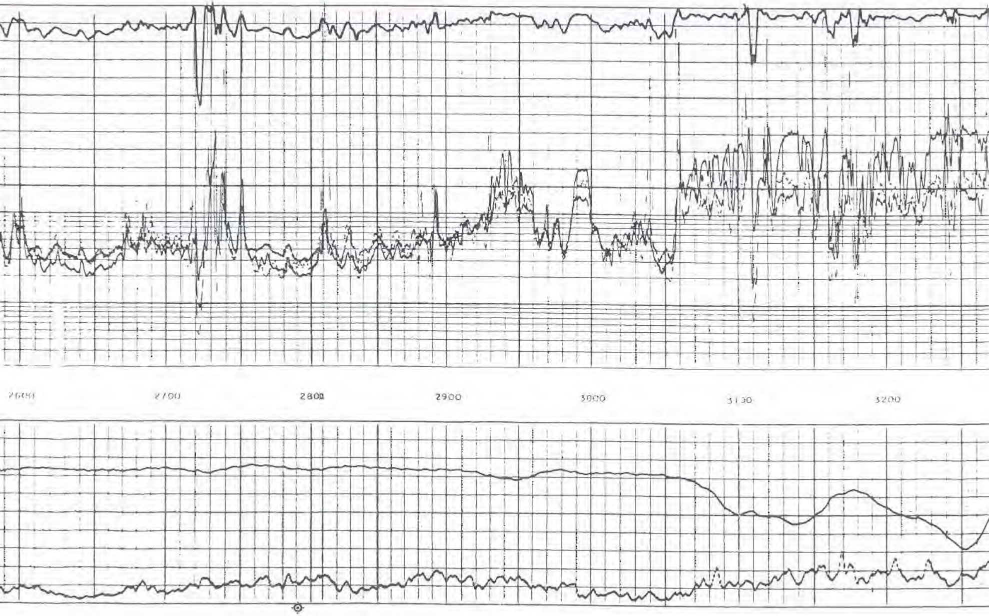
SRH

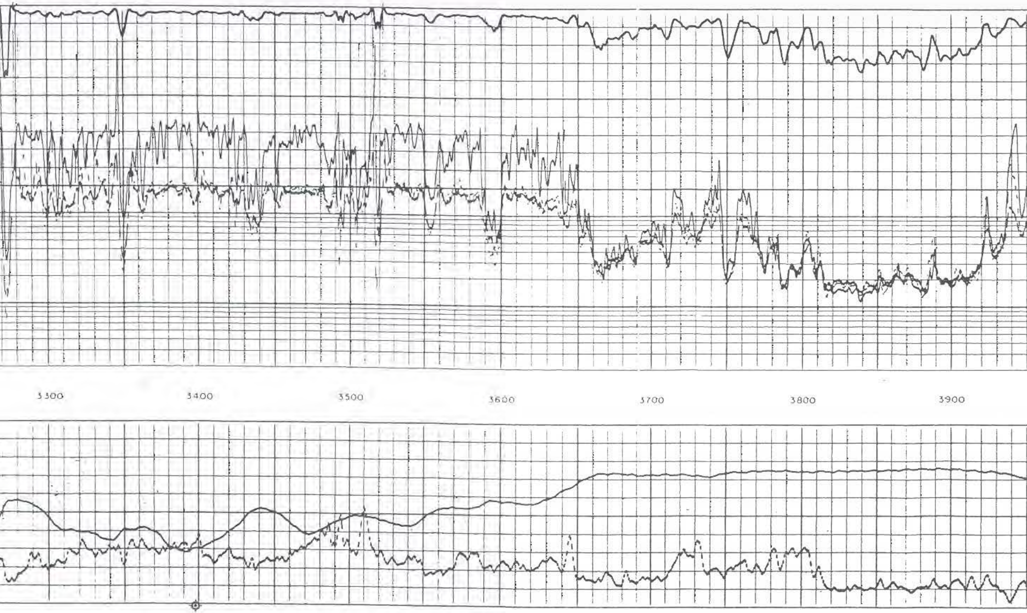
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 our General Terms and Conditions as set out in our current Price Schedule.

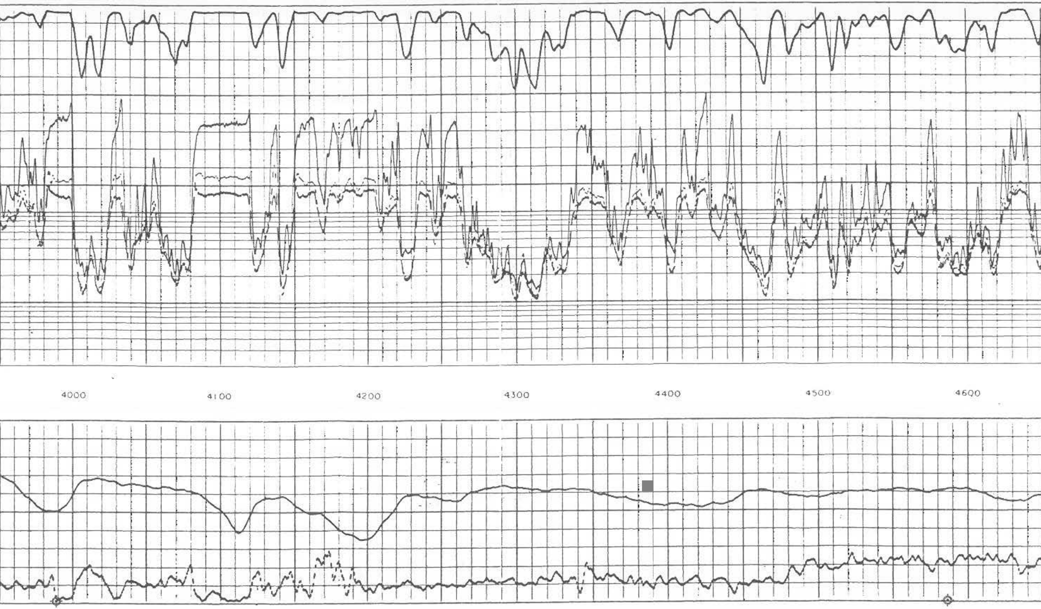


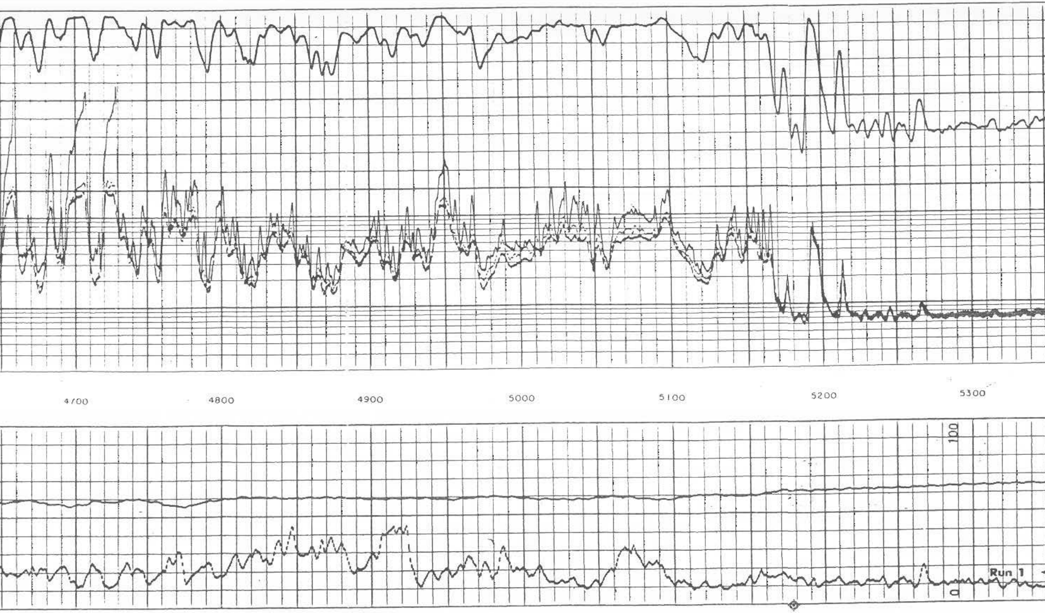


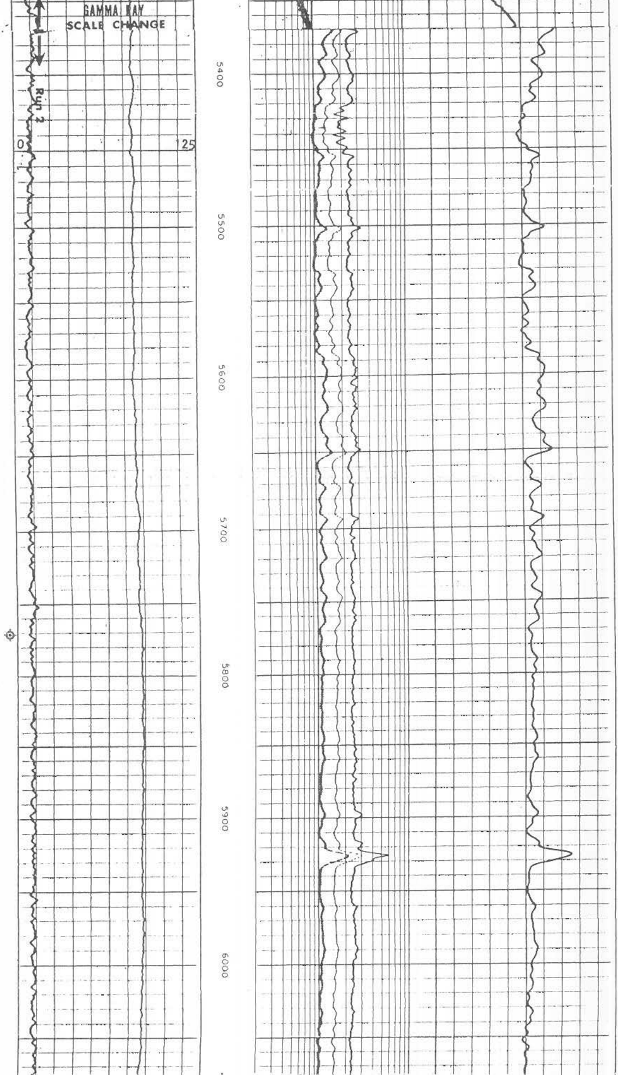


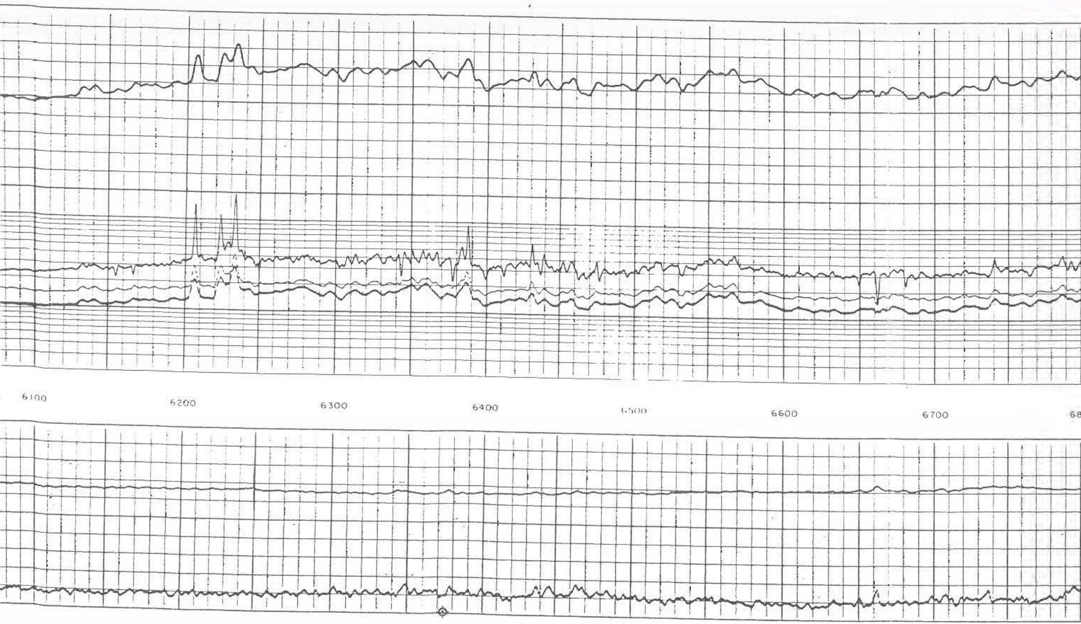


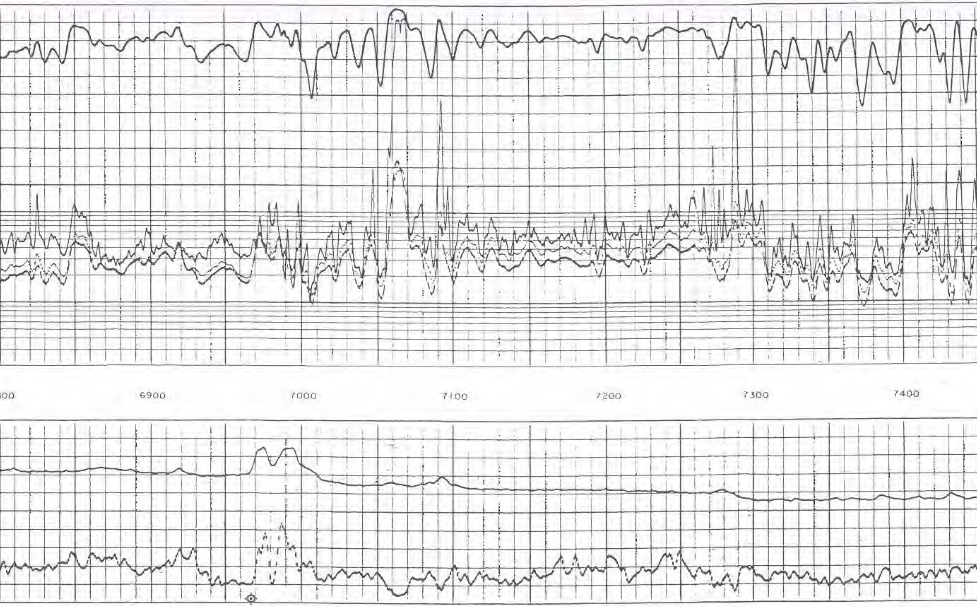


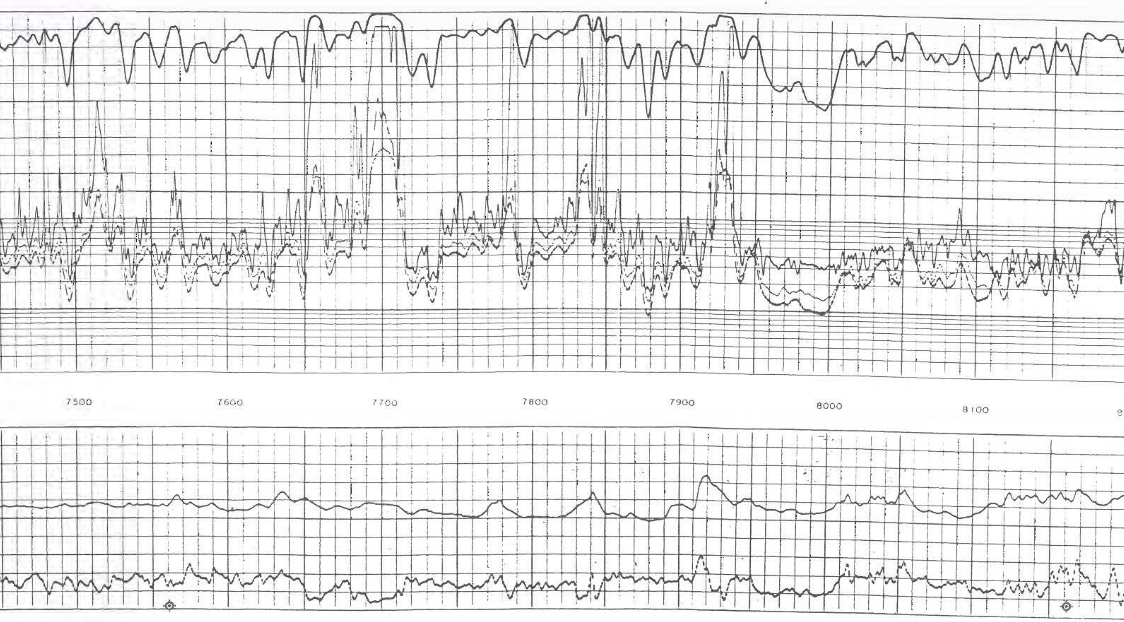


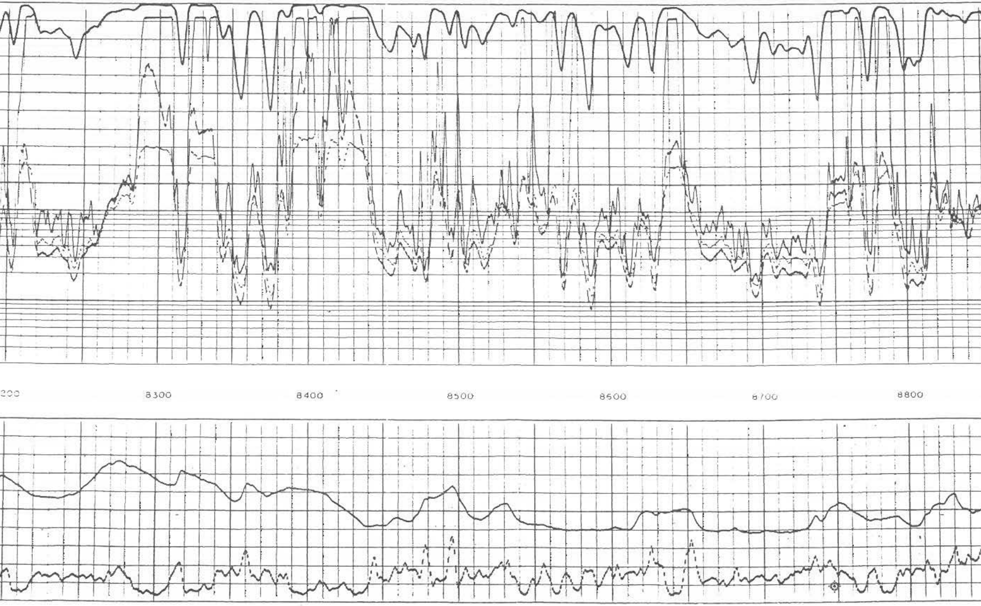


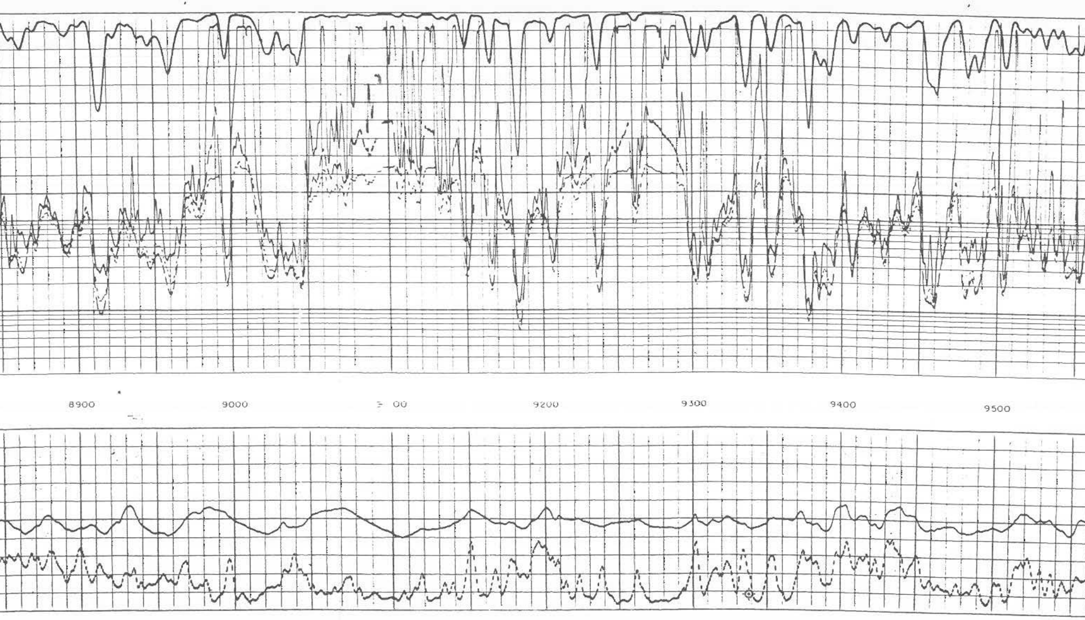


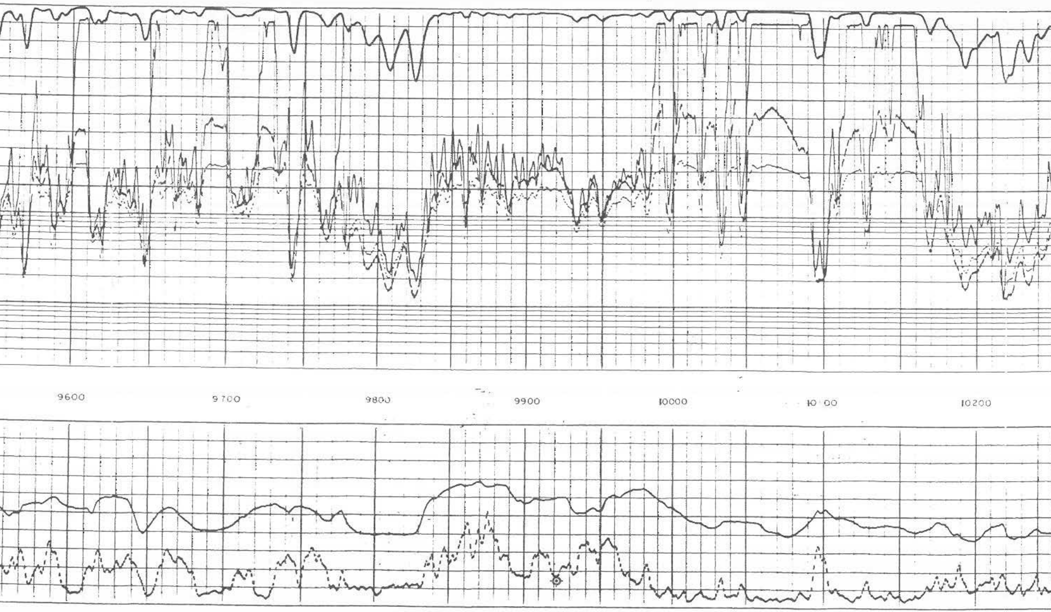


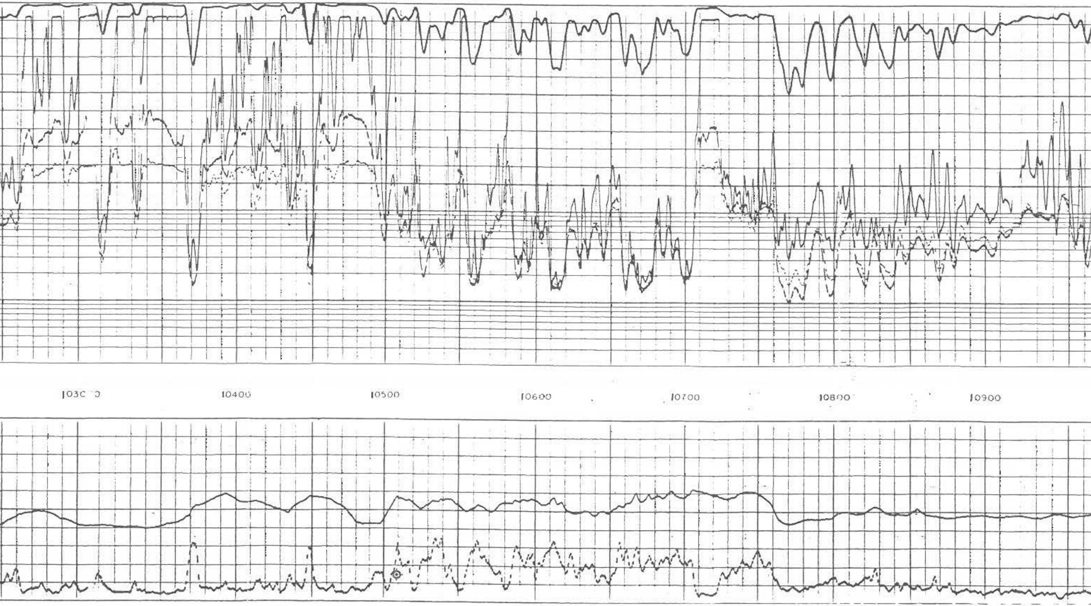


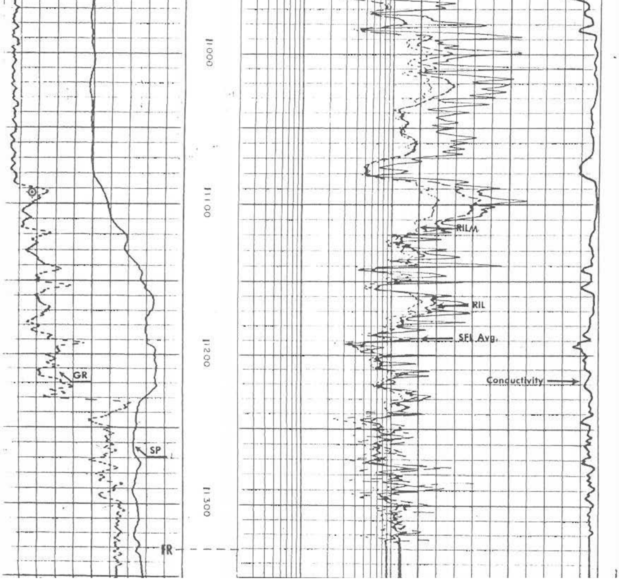


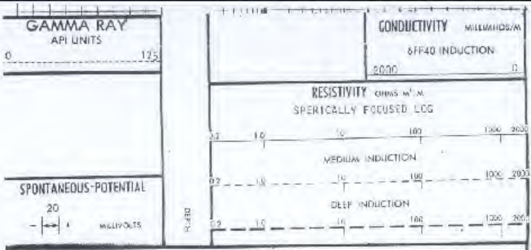










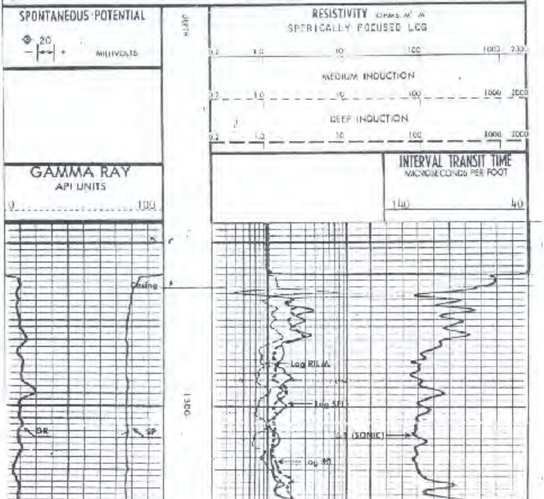


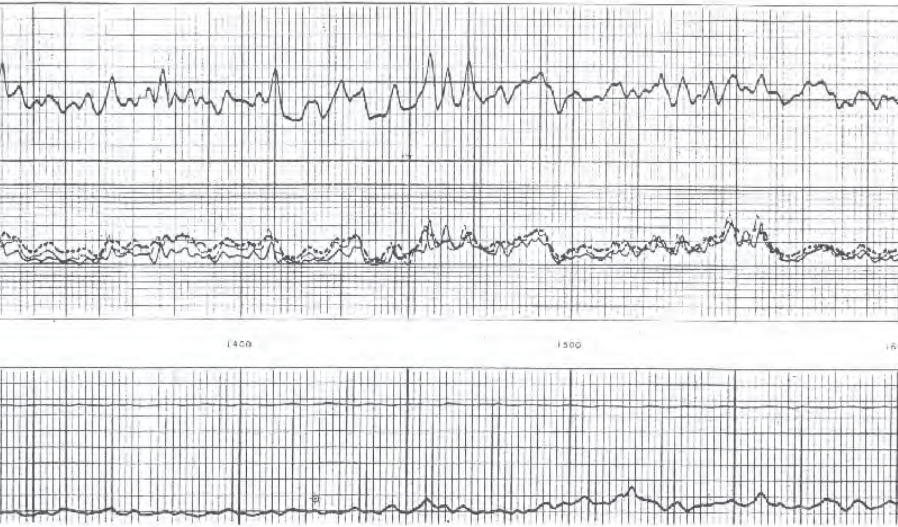
GAMMA RAY
API UNITS
0
125
SPONTANEOUS-POTENTIAL
20
MILLIVOLTS
DEPTH
CONDUCTIVITY MILLIMHOS/M
6FF40 INDUCTION
2000
0
RESISTIVITY OHMS M²/M
SPERICALLY FOCUSED LOG
0.2
1.0
10
100
1000
2000
MEDIUM INDUCTION
DEEP INDUCTION

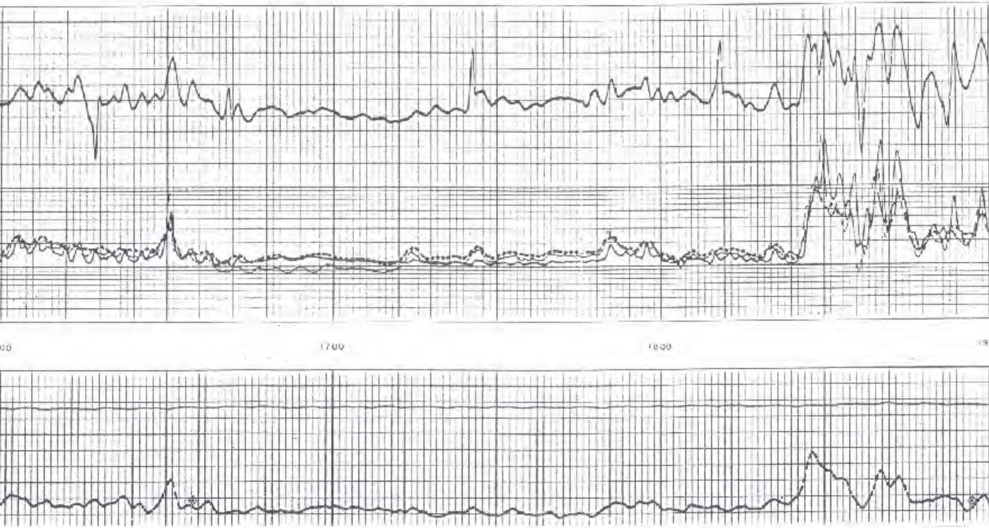
COMPANY ODECO OIL AND GAS COMPANY
WELL OCS G 3909 WELL #1
FIELD CHARLOTTE HARBOR BLOCK 188
COUNTY OFFSHORE STATE LOUISIANA

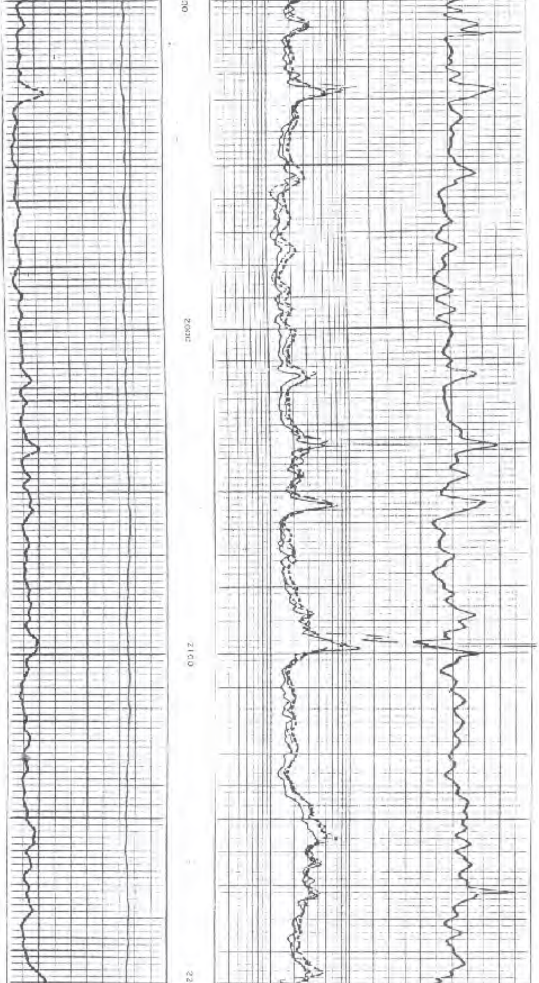
SCHL. FR 11331
SCHL. TD 11334
DRLR TD 11352
Elev: KB 92.0
DF 91.0
MNL

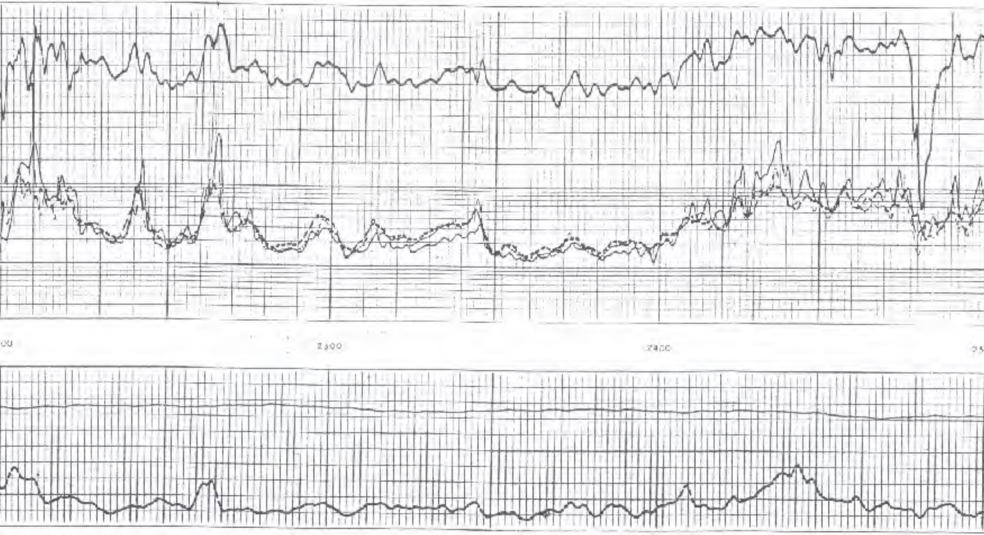
DETAIL LOG

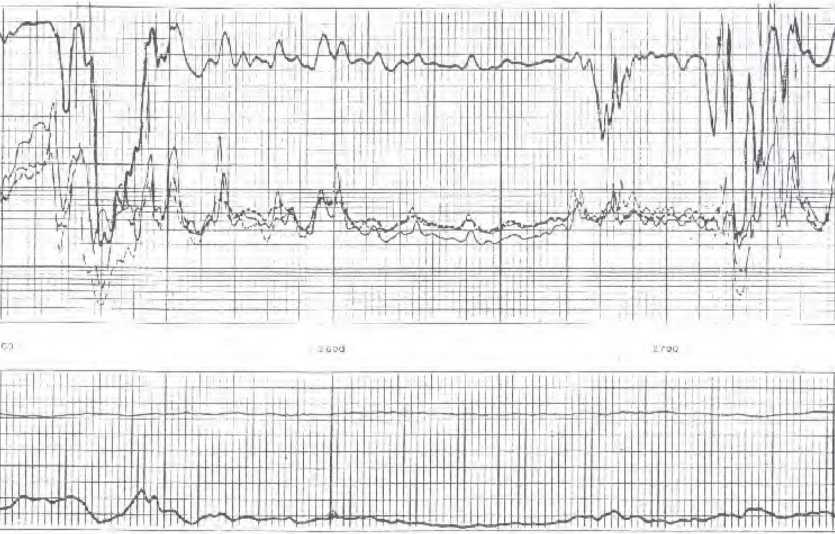


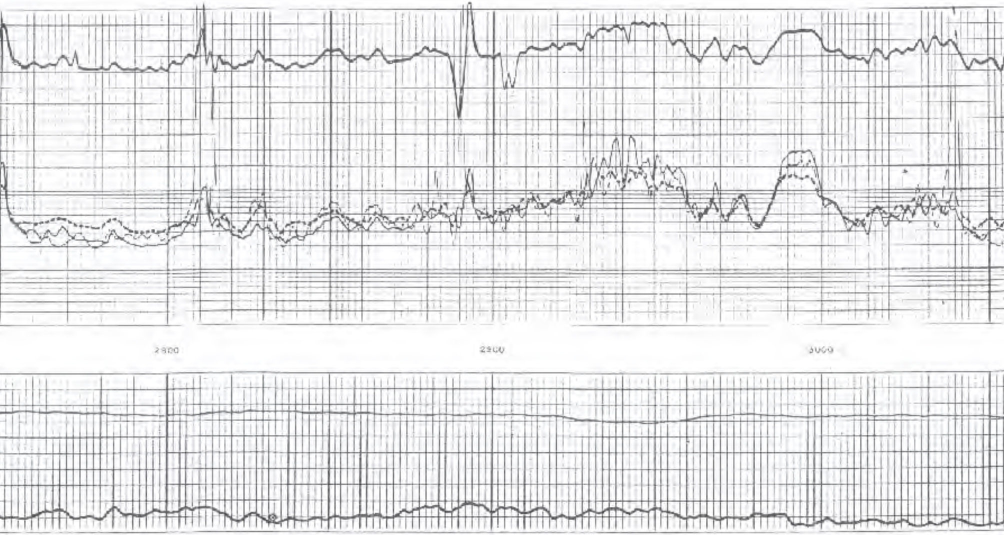


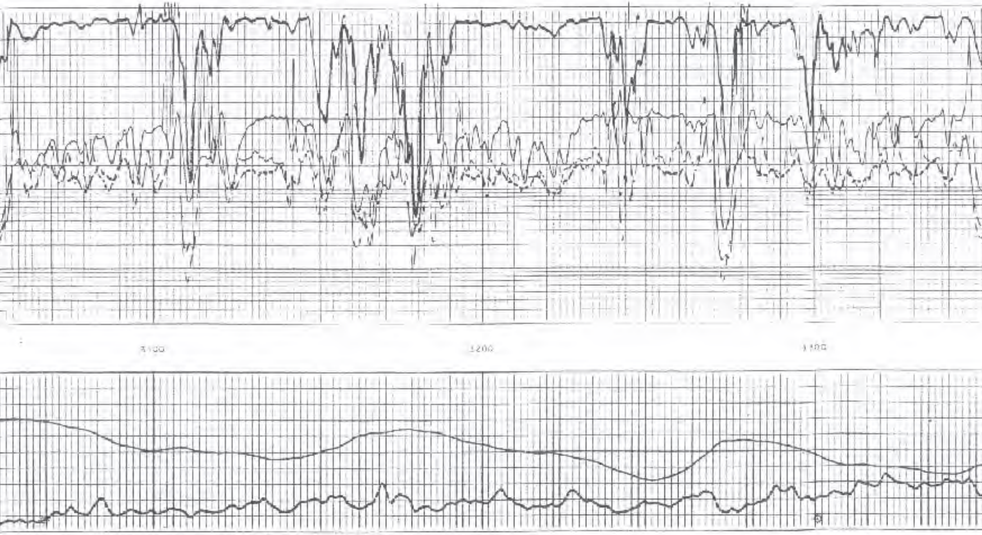


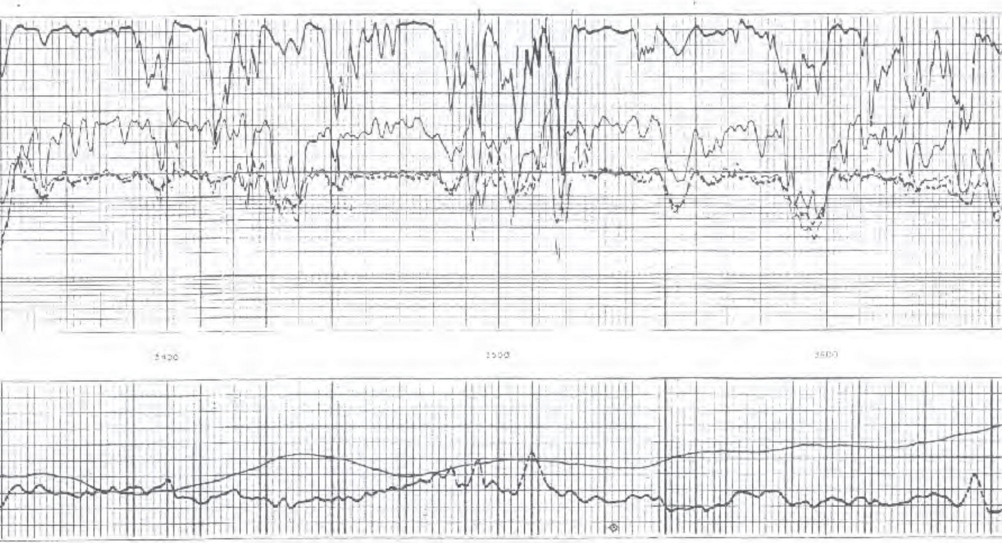


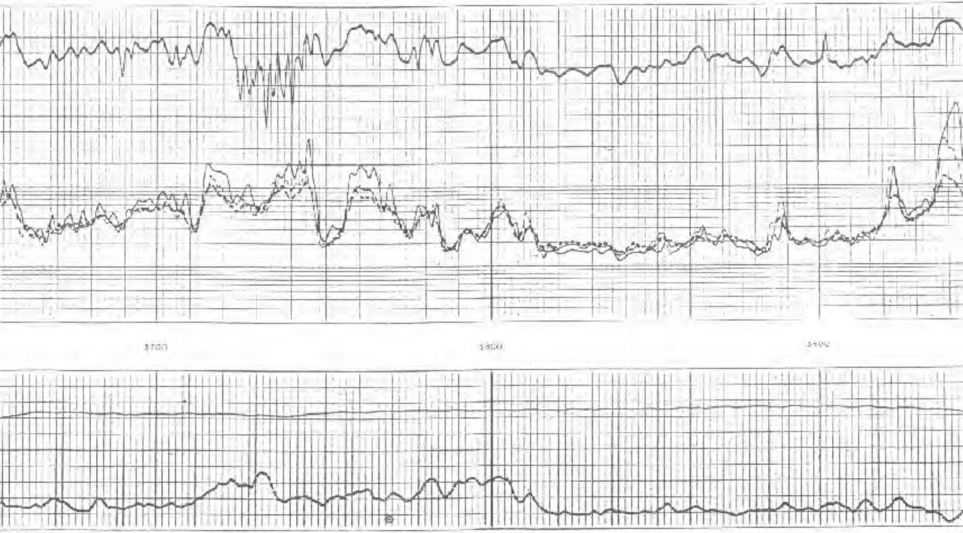


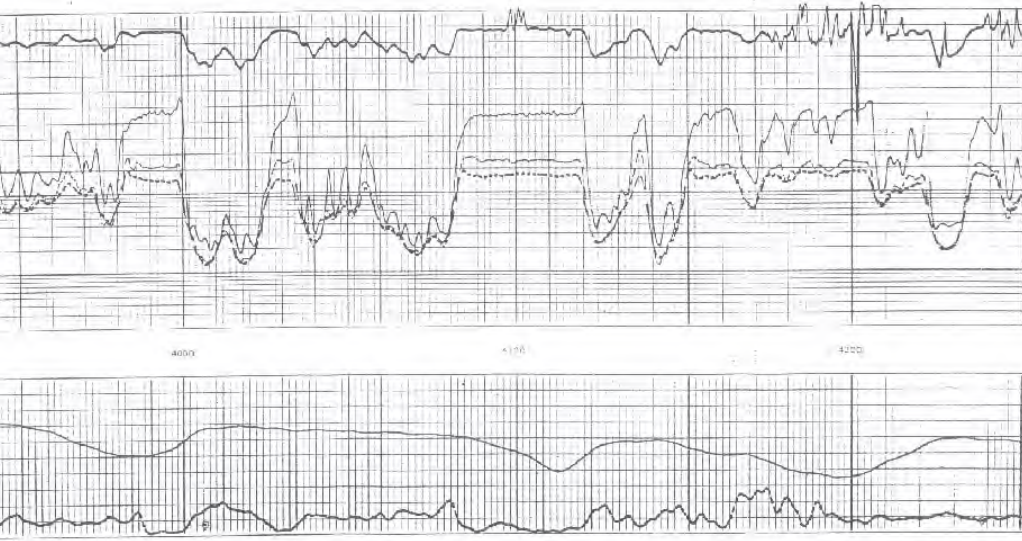


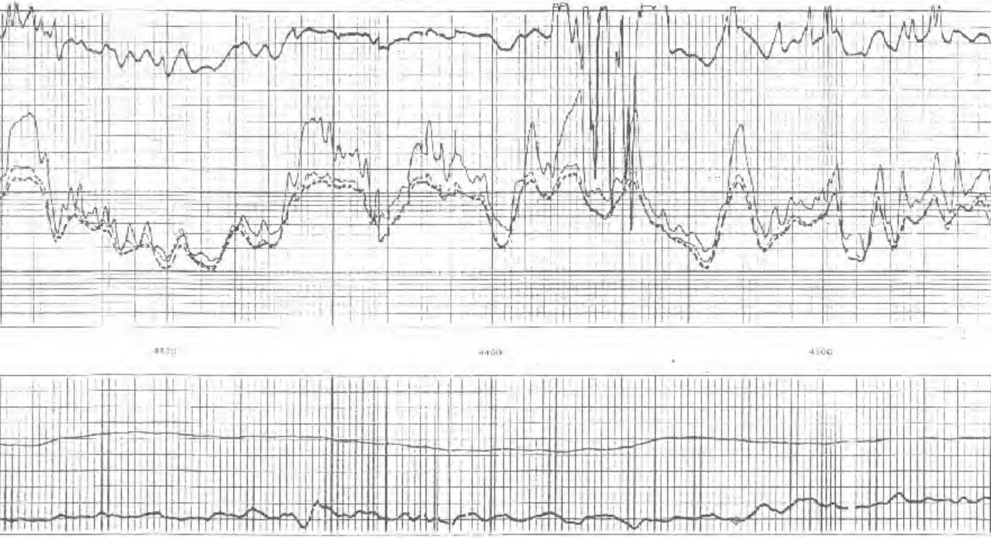


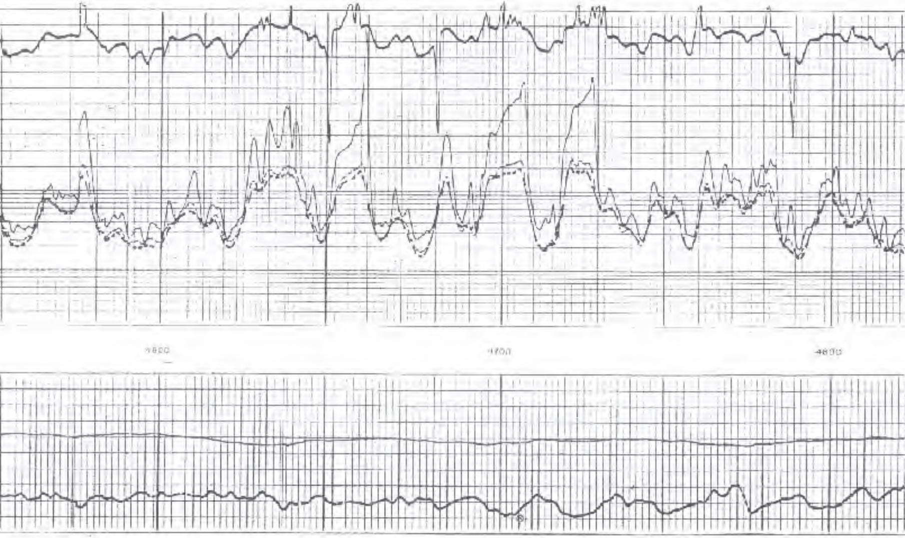


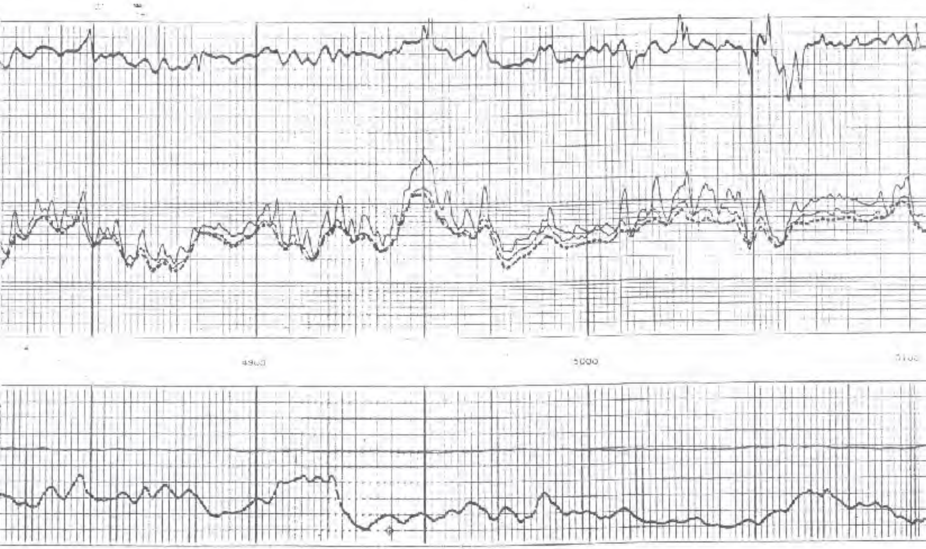


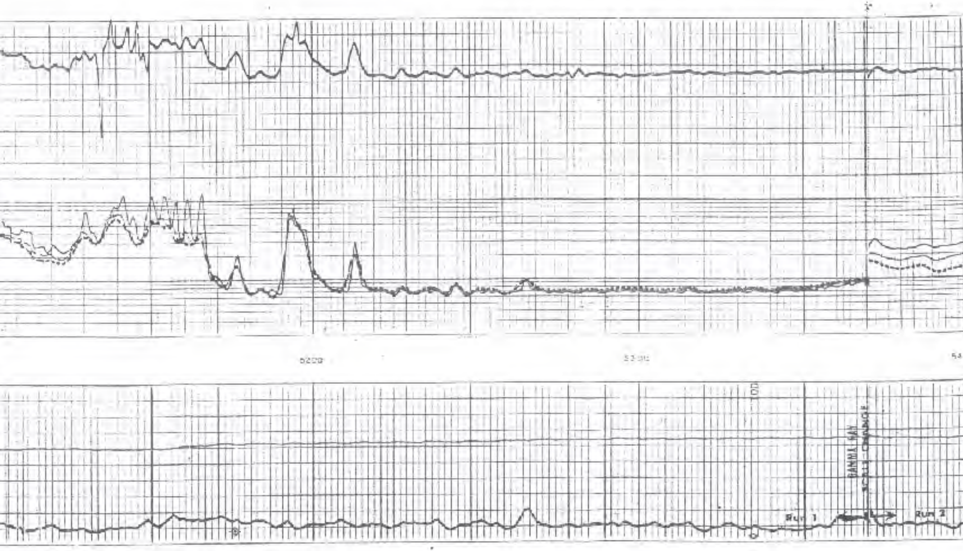


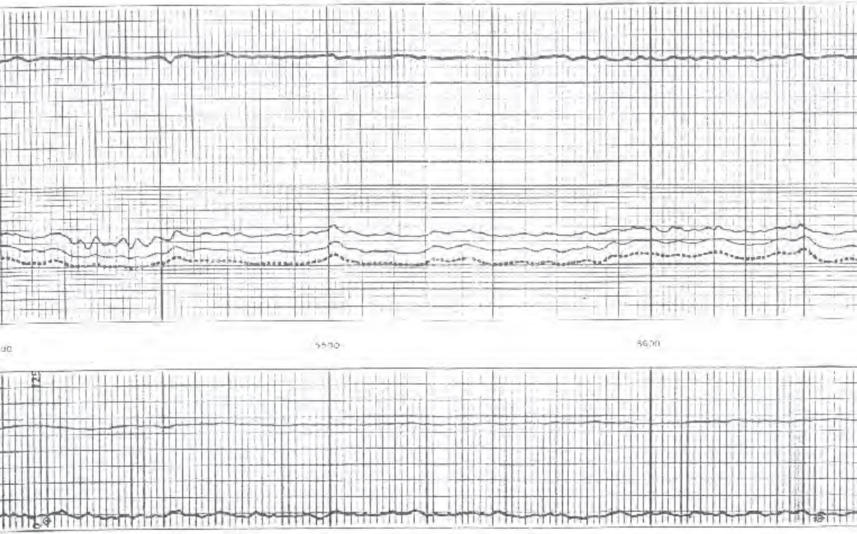


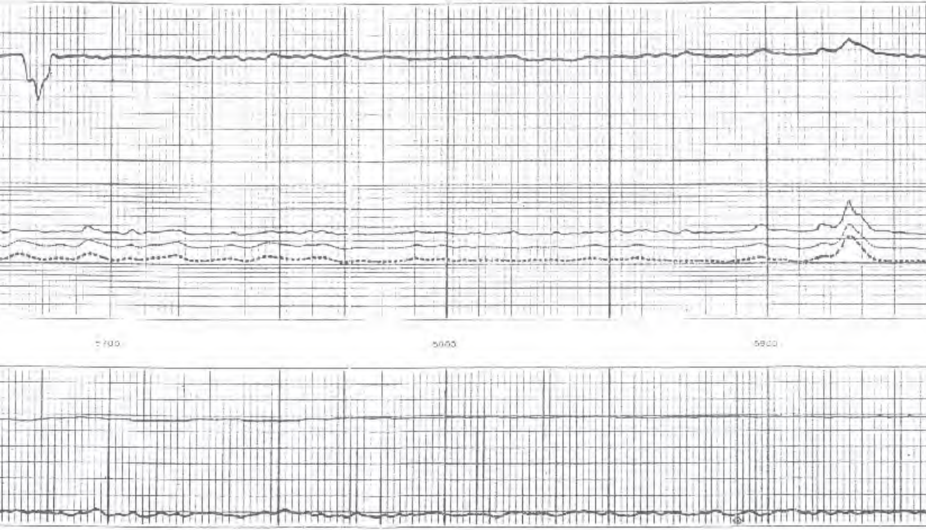


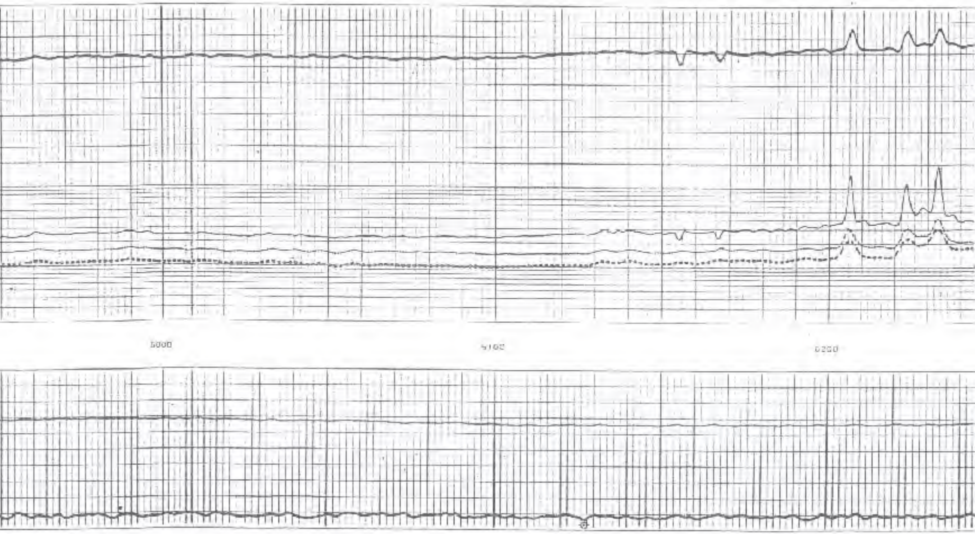


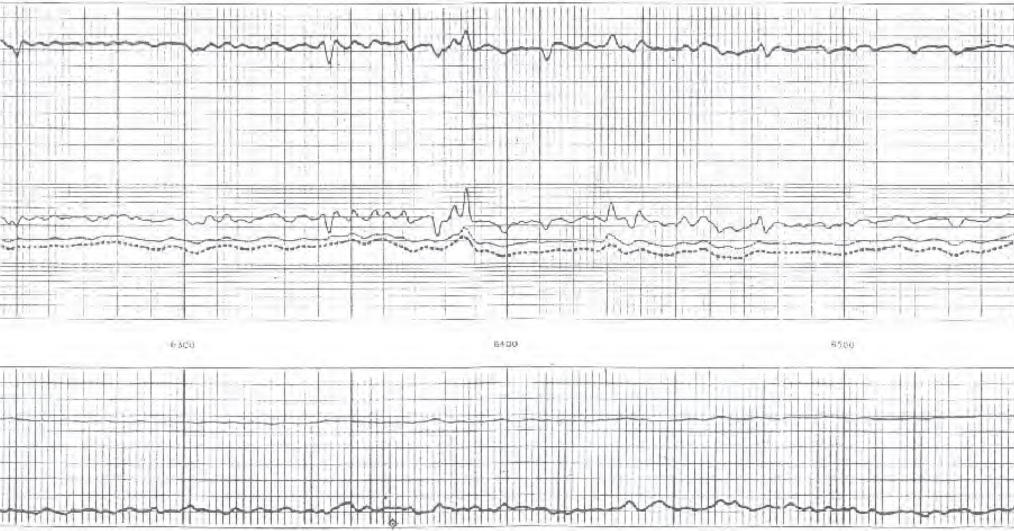


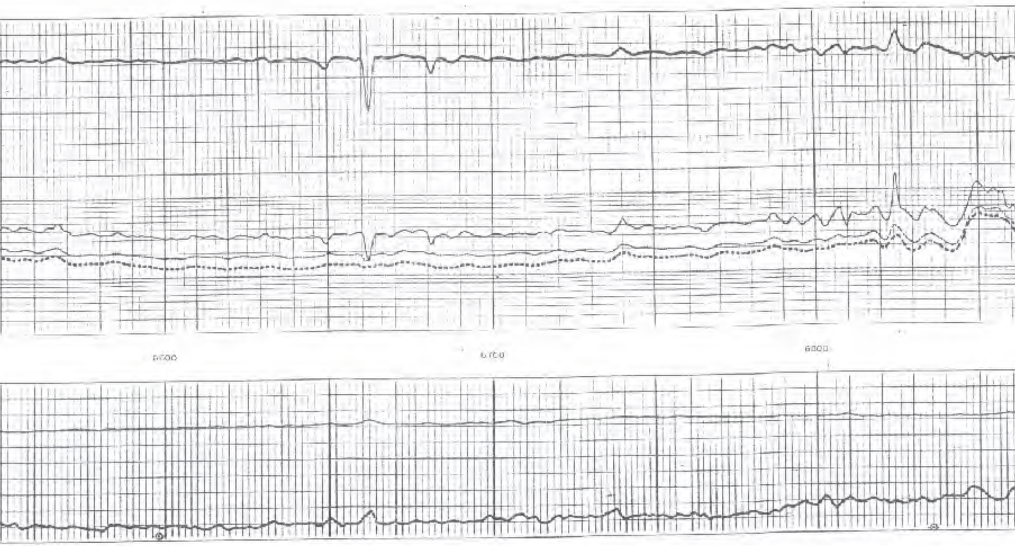


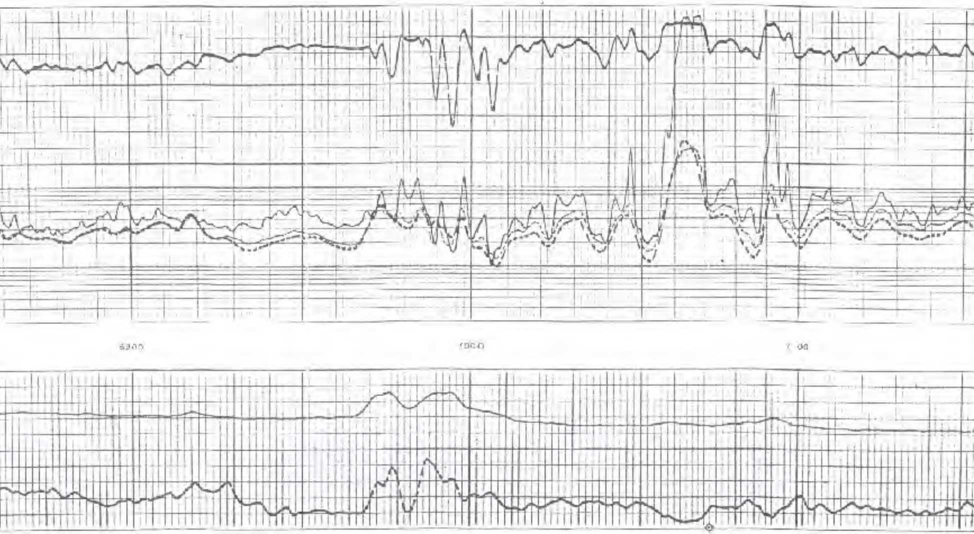


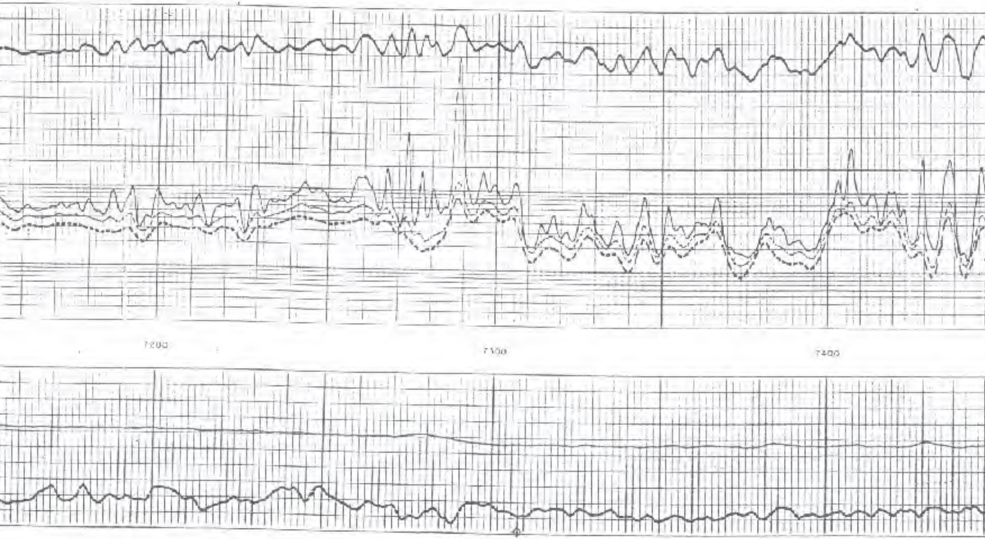


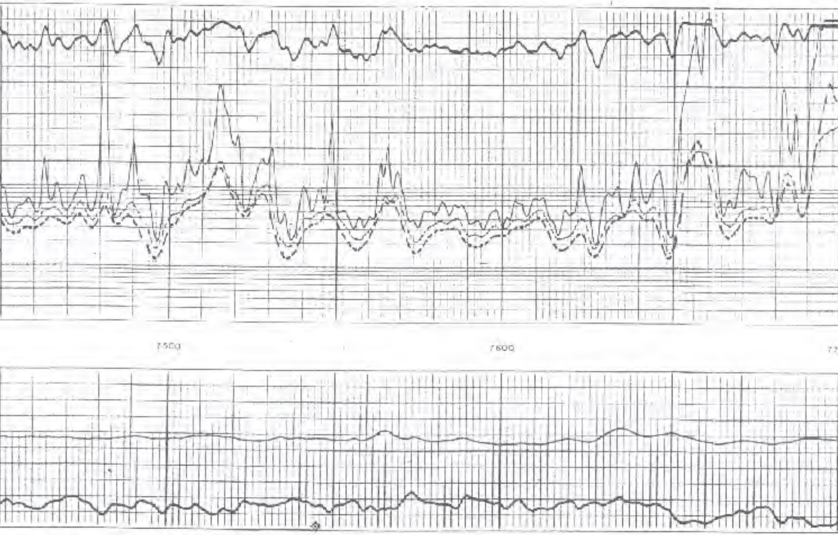


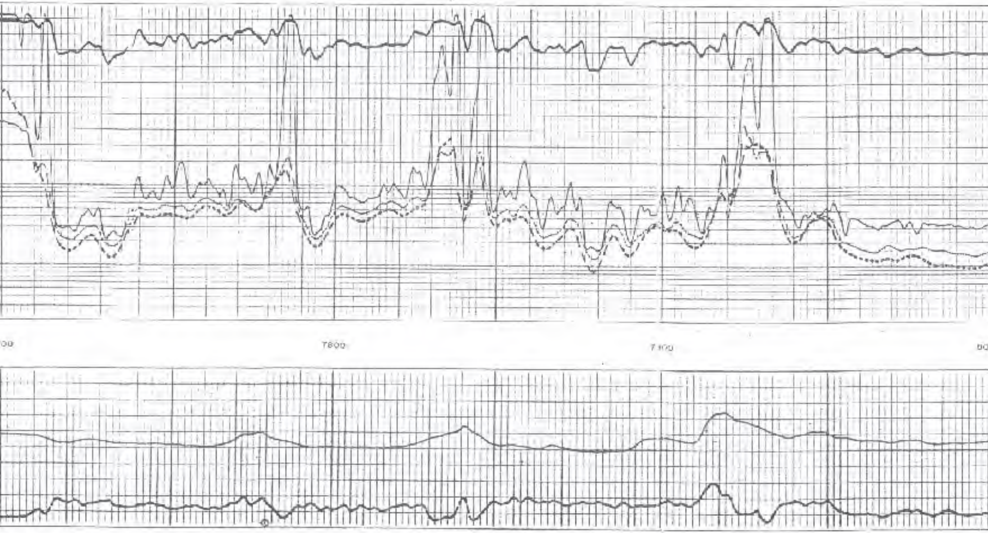


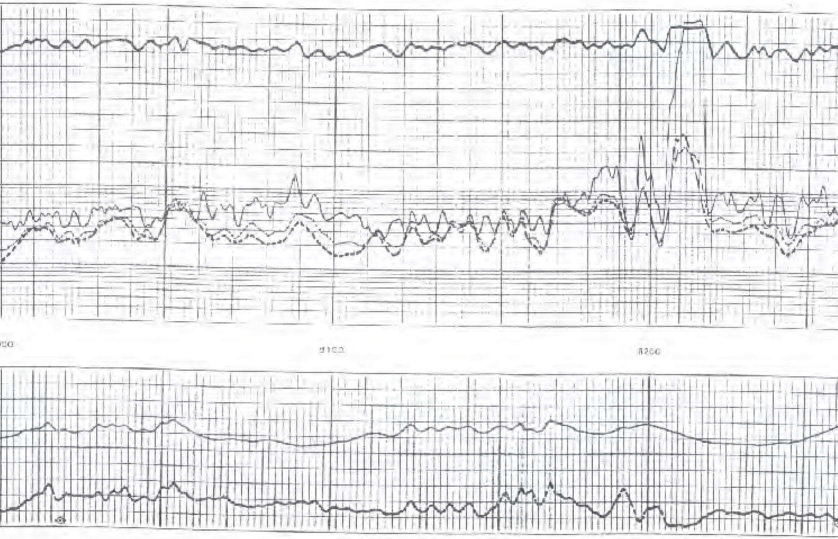


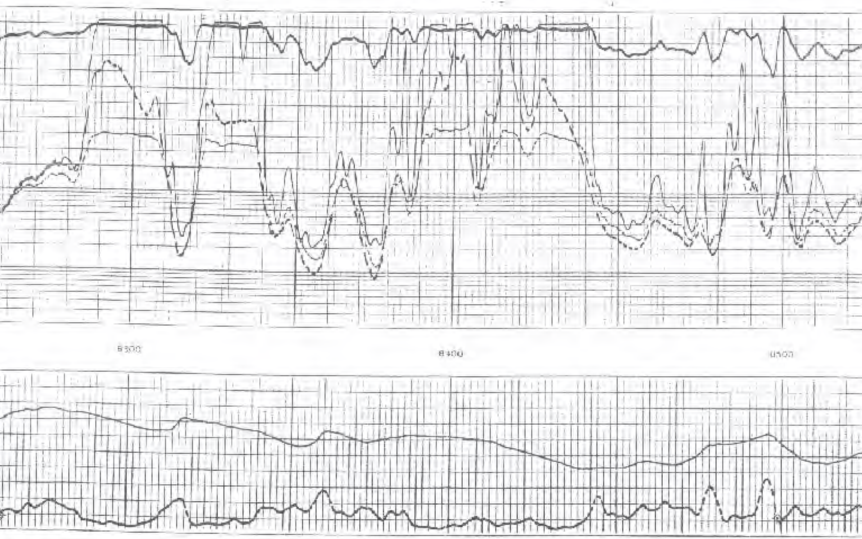


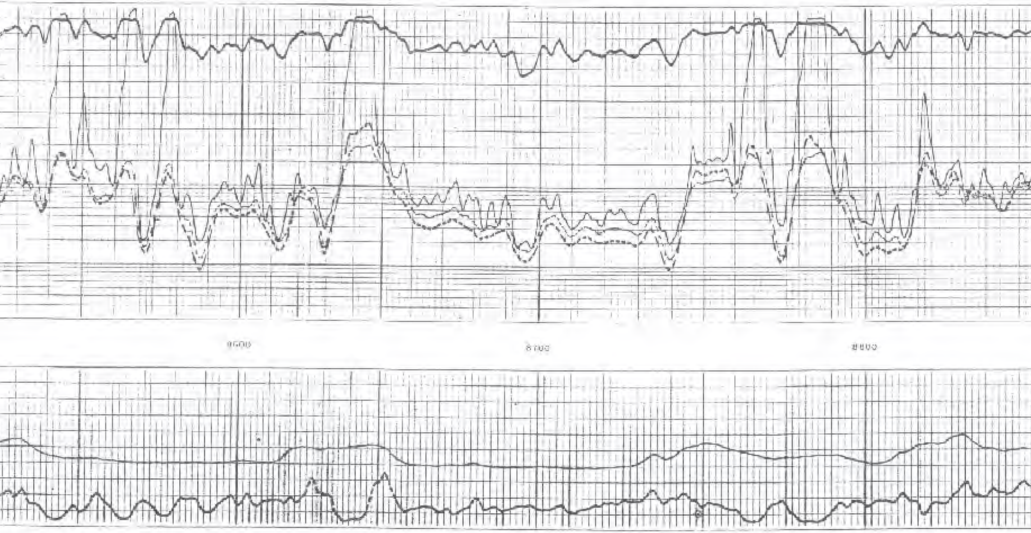


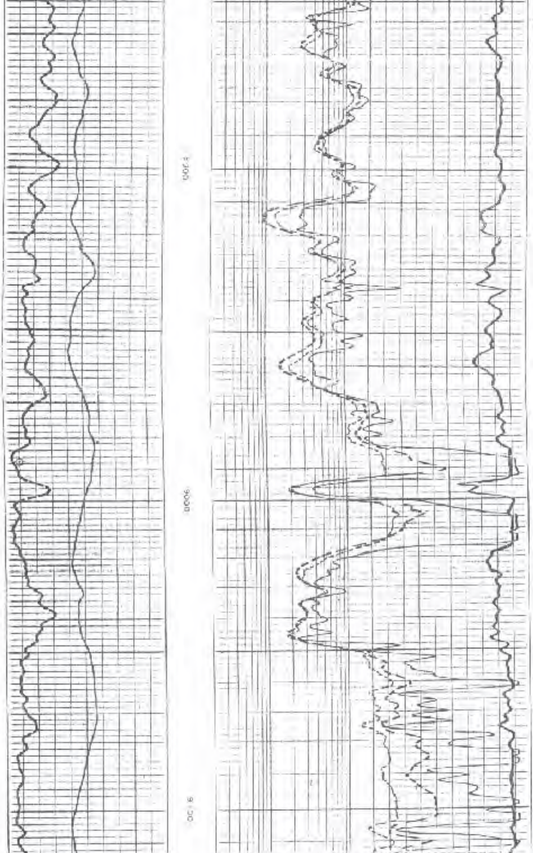


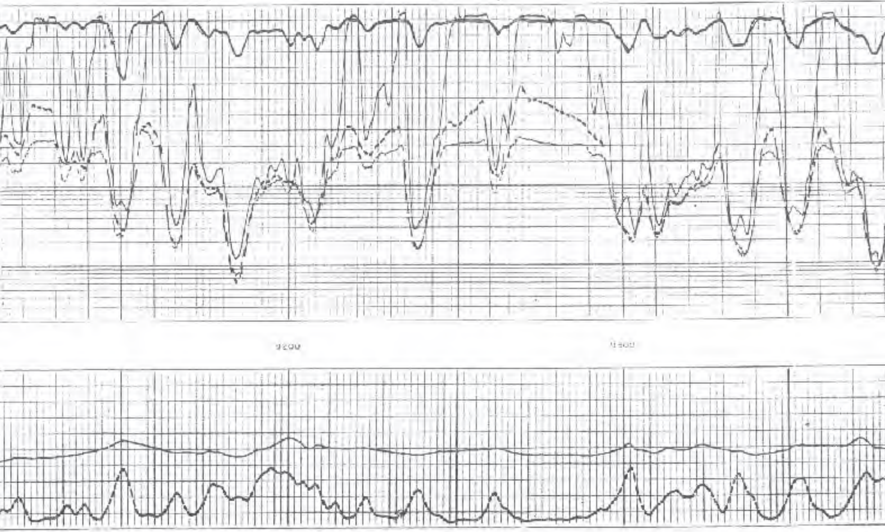


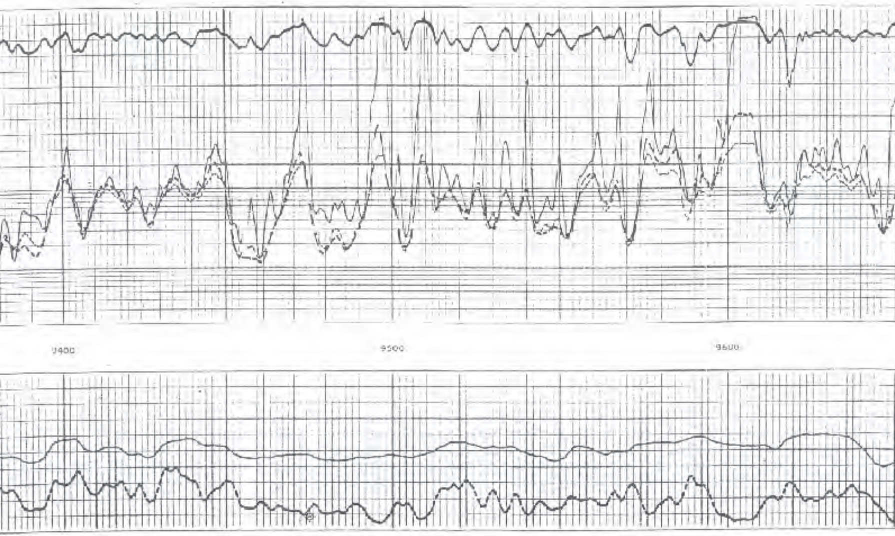


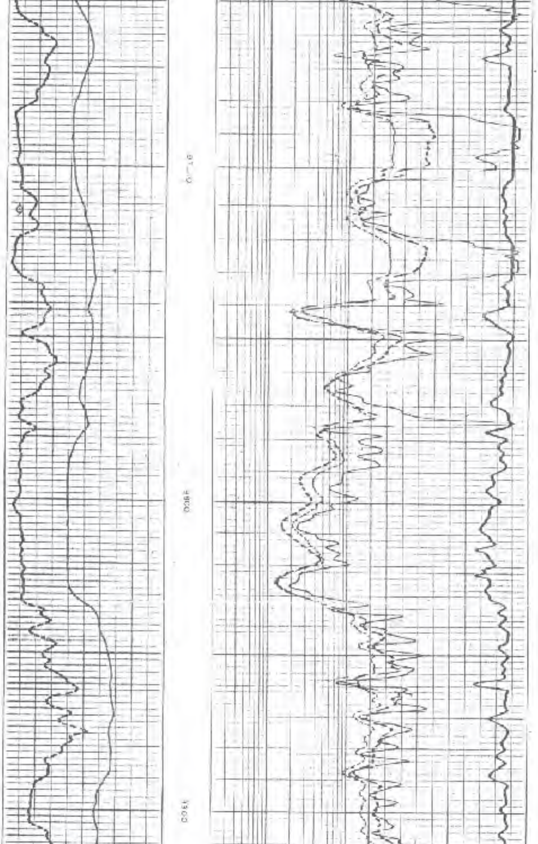


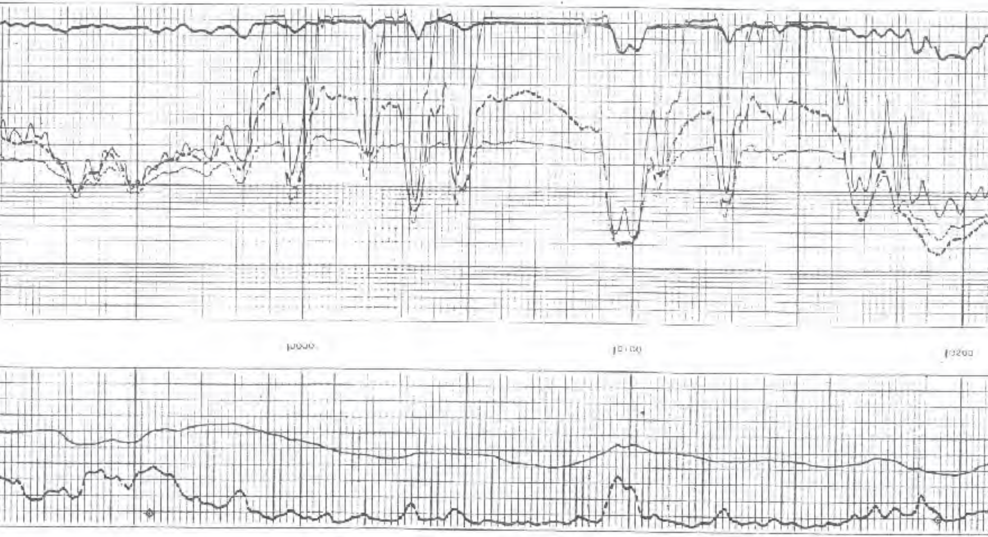


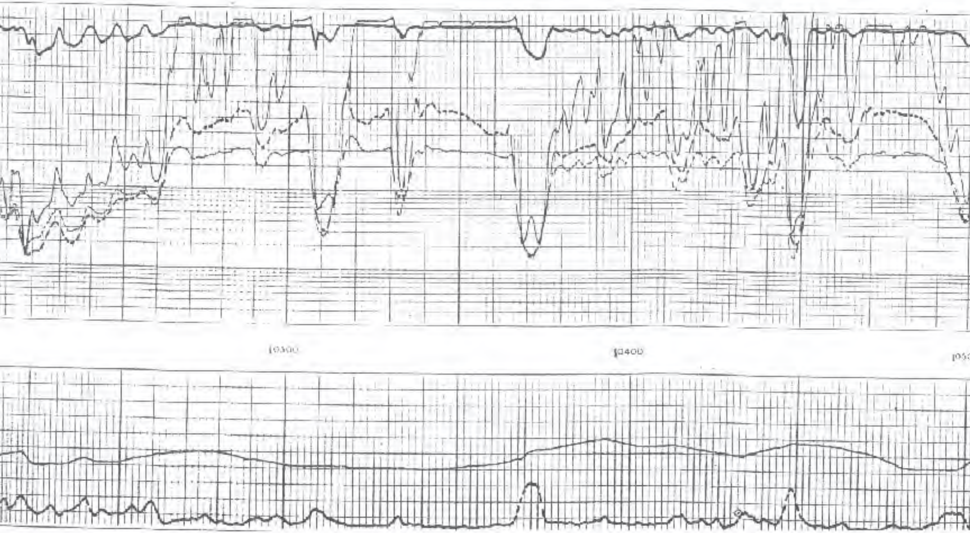


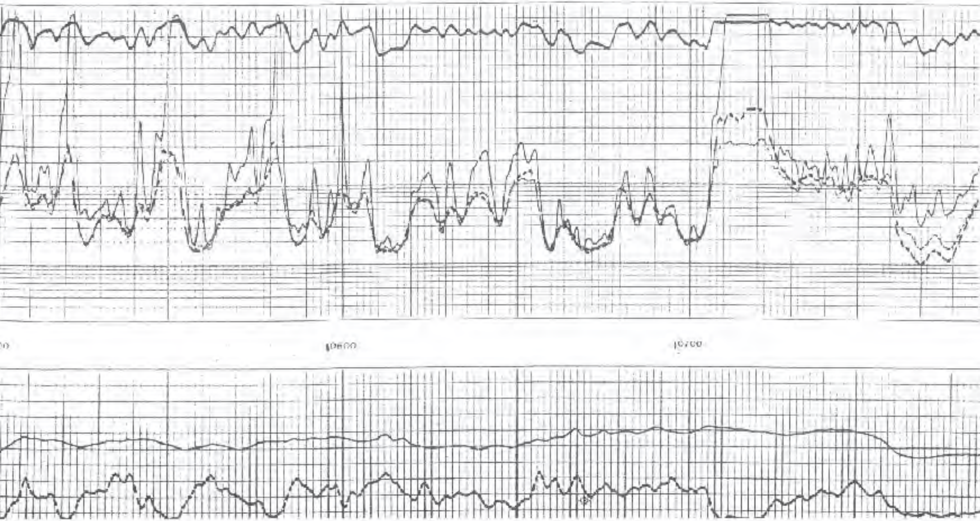


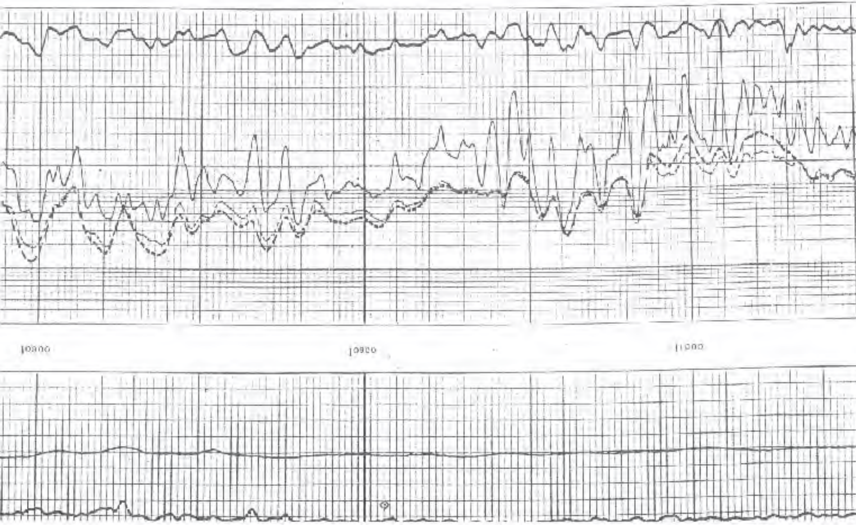


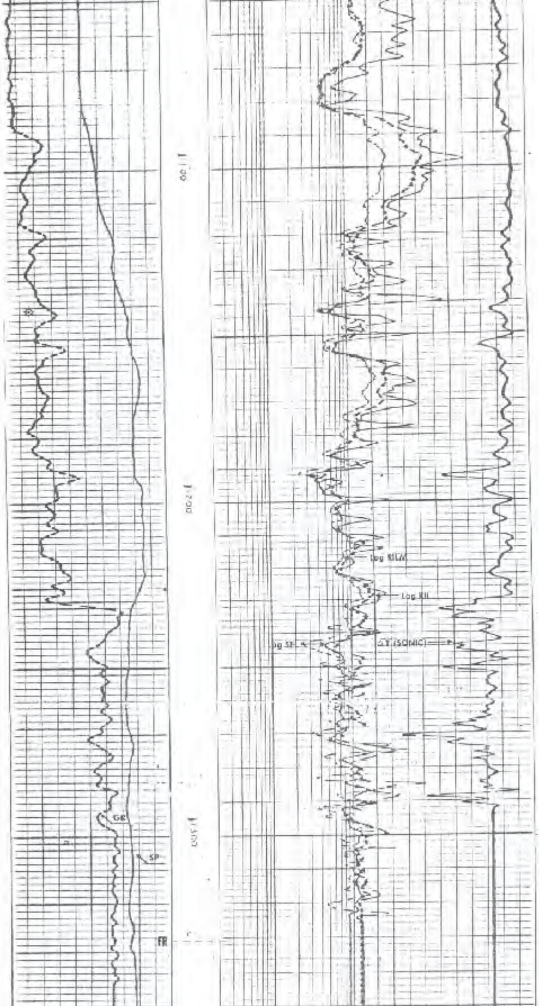


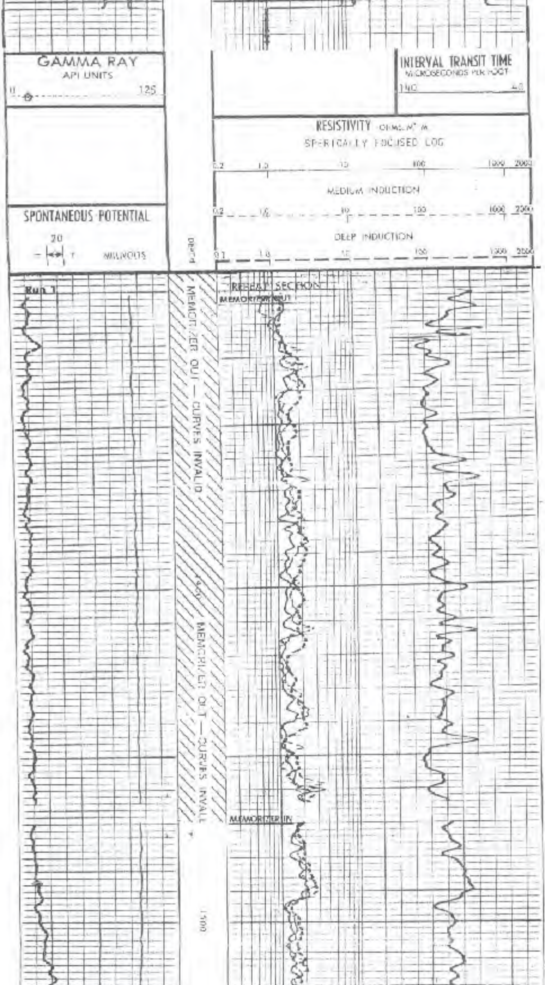


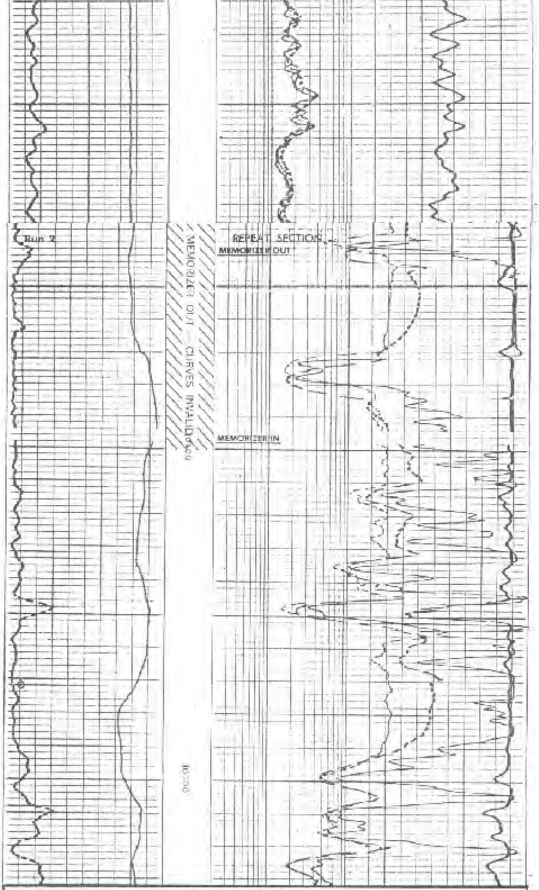




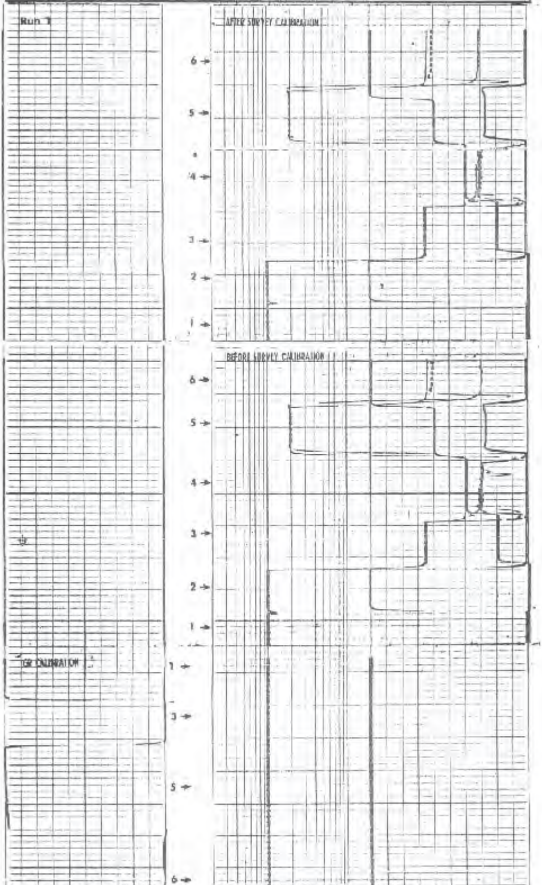


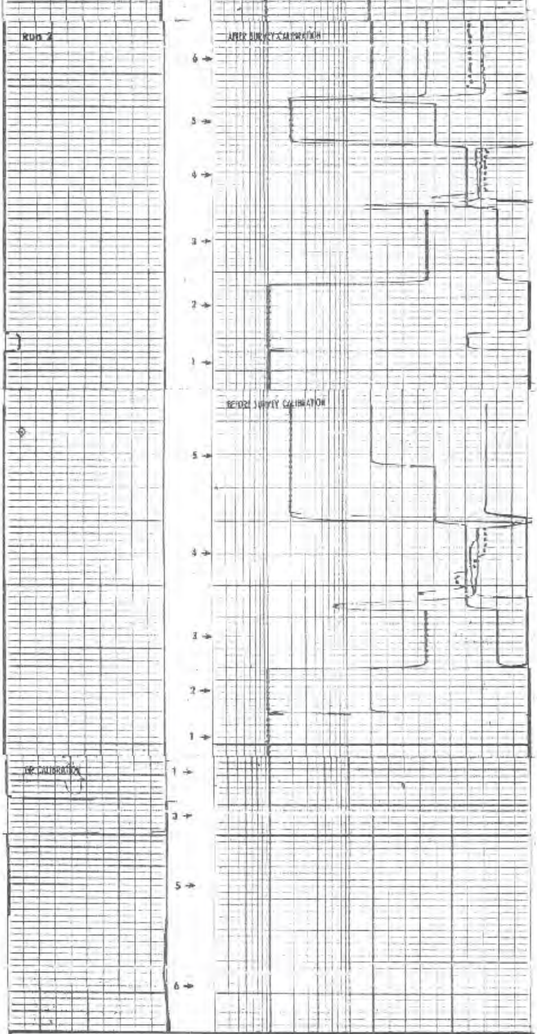






CALIBRATION RECORD





DUAL INDUCTION CALIBRATION FILM CODING

1. MECHANICAL ZERO
2. 1 OHM-M
3. 100 OHM-M
4. ELECTRICAL ZERO (500 OHM M)
5. 3 OHM-M
6. SONDE ERRORS (+2 MMHO)
7. ZERO SIGNAL IN AIR
8. ILd TEST LOOP (2 OHM SIGNAL)
9. ILm TEST LOOP (2 OHM SIGNAL)
10. Rxo/Rt UNITY
11. Rxo/Rt CALIBRATE

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATE SOURCE IN PLACE

CALIBRATION RECORD

COMPANY ODECO OIL AND GAS COMPANY

WELL OCS G 3909 WELL #1

FIELD CHARLOTTE HARBOR BLOCK 188

COUNTY OFFSHORE STATE FLORIDA

SCHL. FR 11331

SCHL. TO 11334

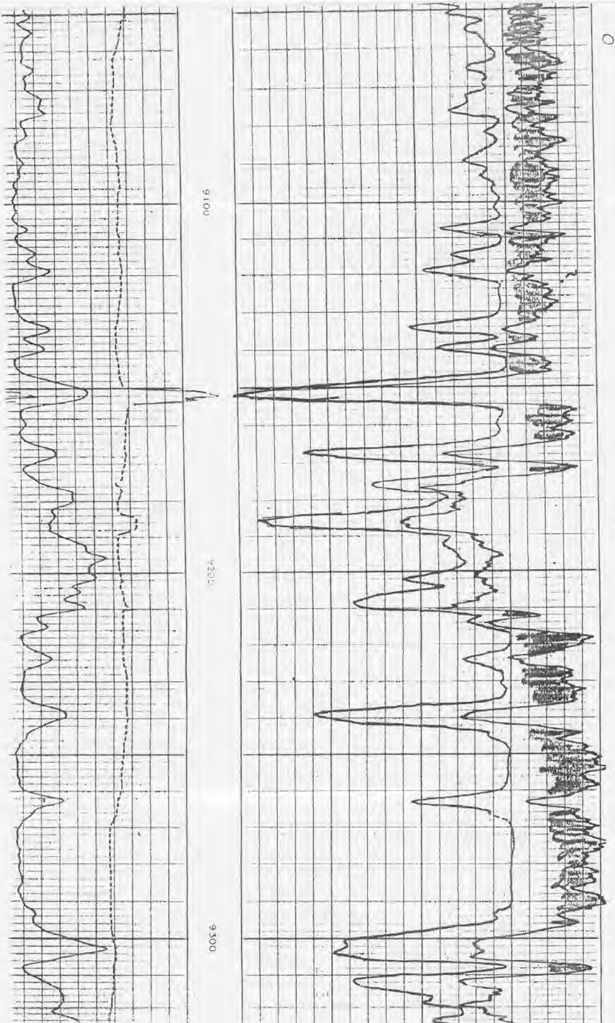
DRLR. TO 11350

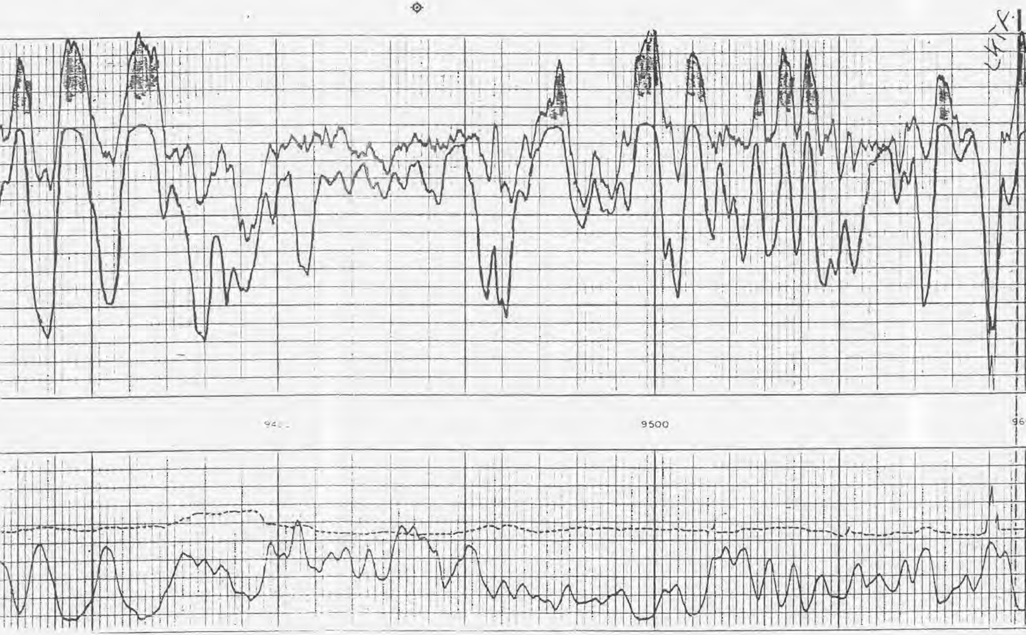
Elev. KB 92.0

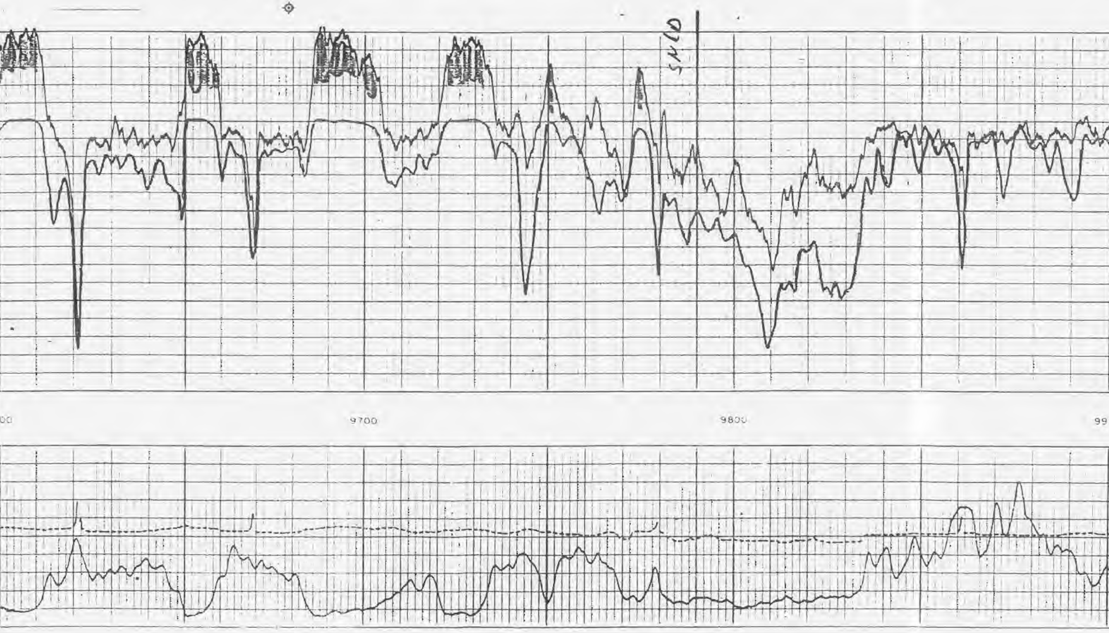
DF 91.0

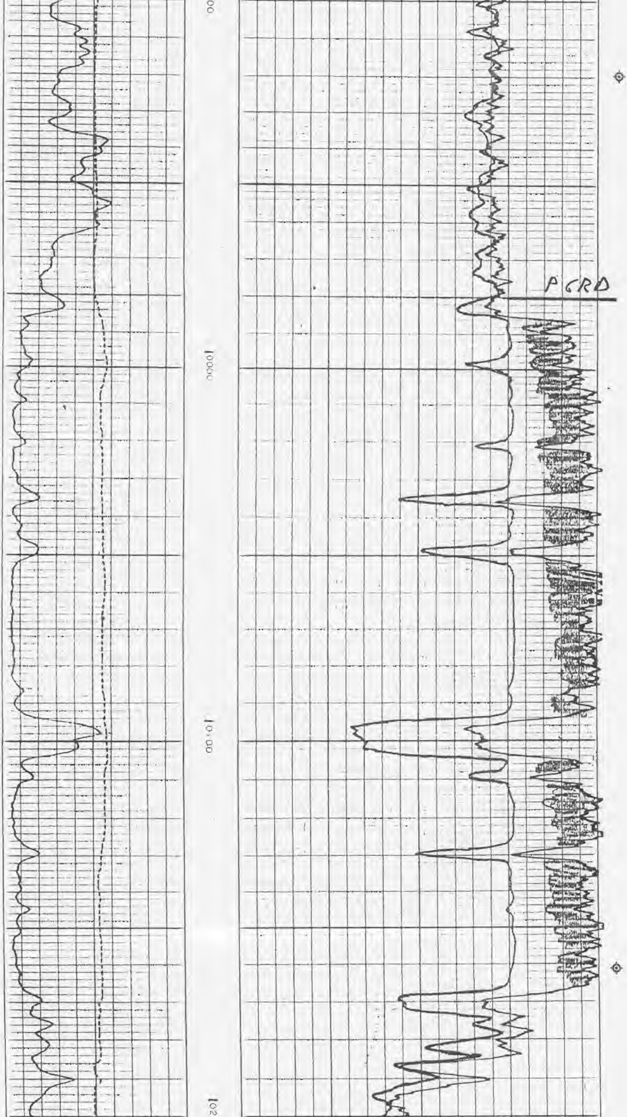
MWL

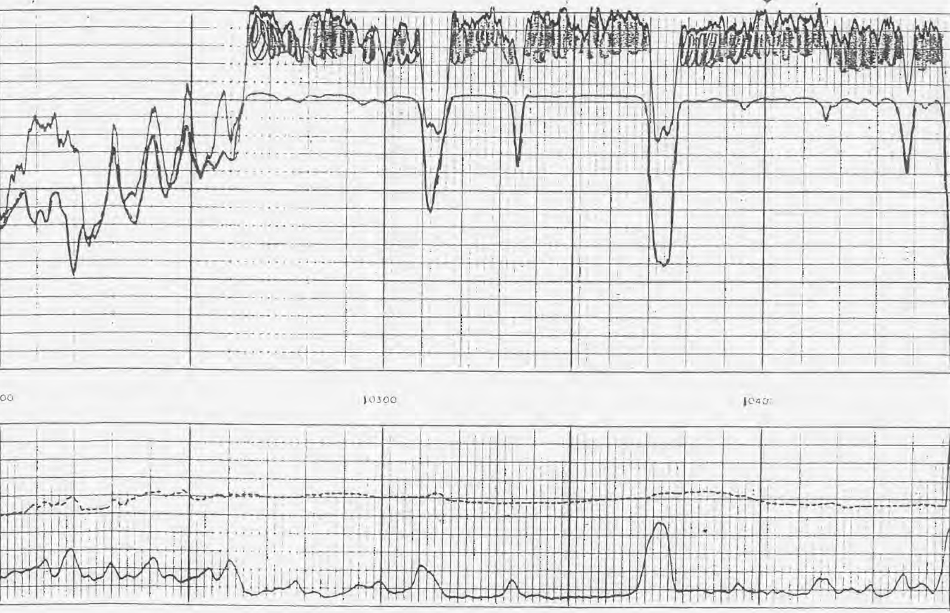
OCS-G-3909

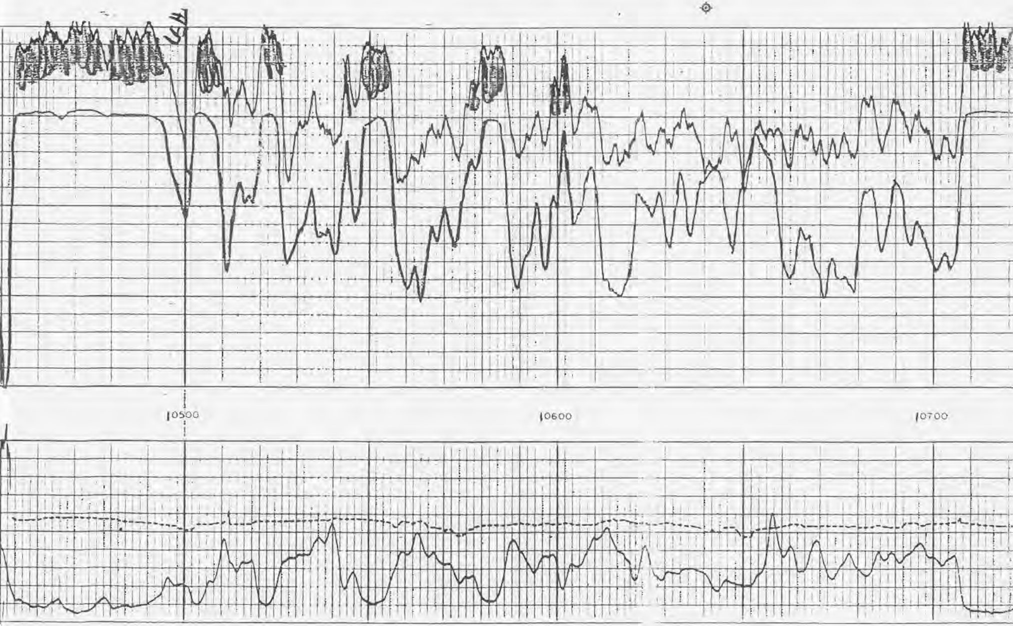


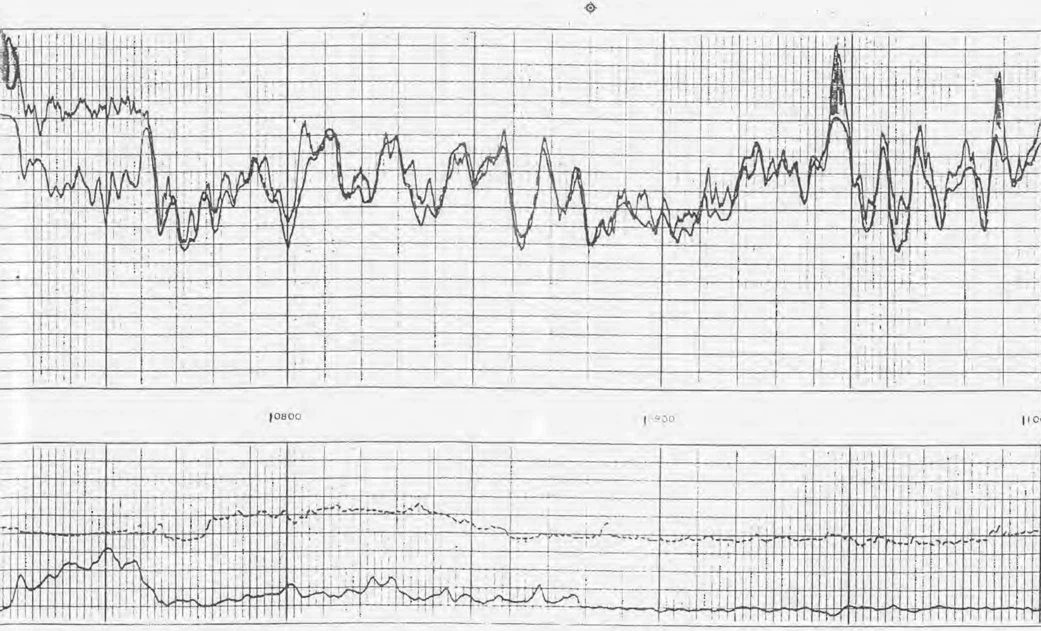


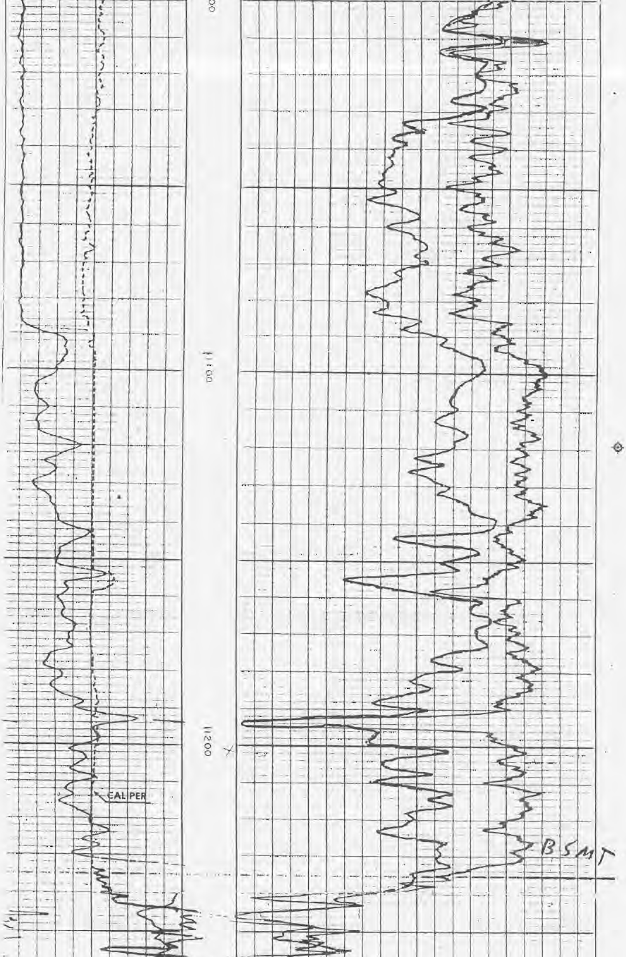


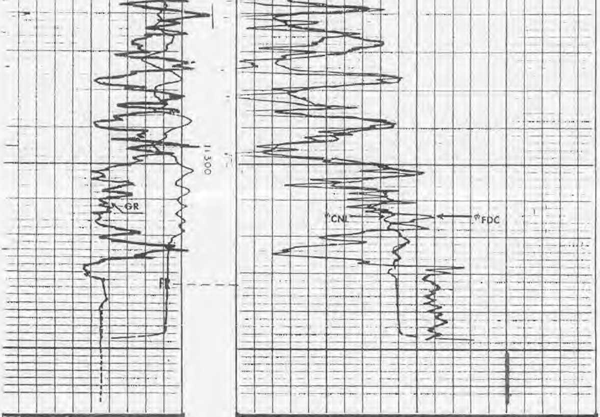












GAMMA RAY API UNITS

0 100

CALIPER DIAM. IN INCHES

8 18

18 28

POROSITY INDEX (%) LIMESTONE MATRIX

COMPENSATED FORMATION DENSITY POROSITY

45 30 15 0 -15

COMPENSATED NEUTRON POROSITY

45 30 15 0 -15

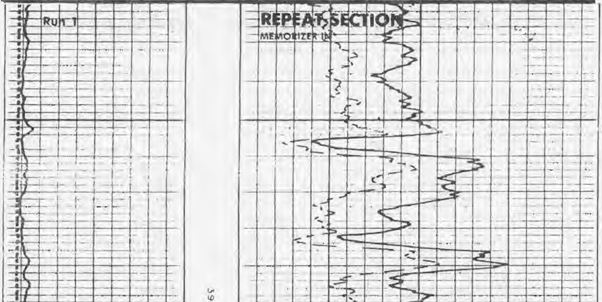
COMPANY ODECO OIL AND GAS COMPANY

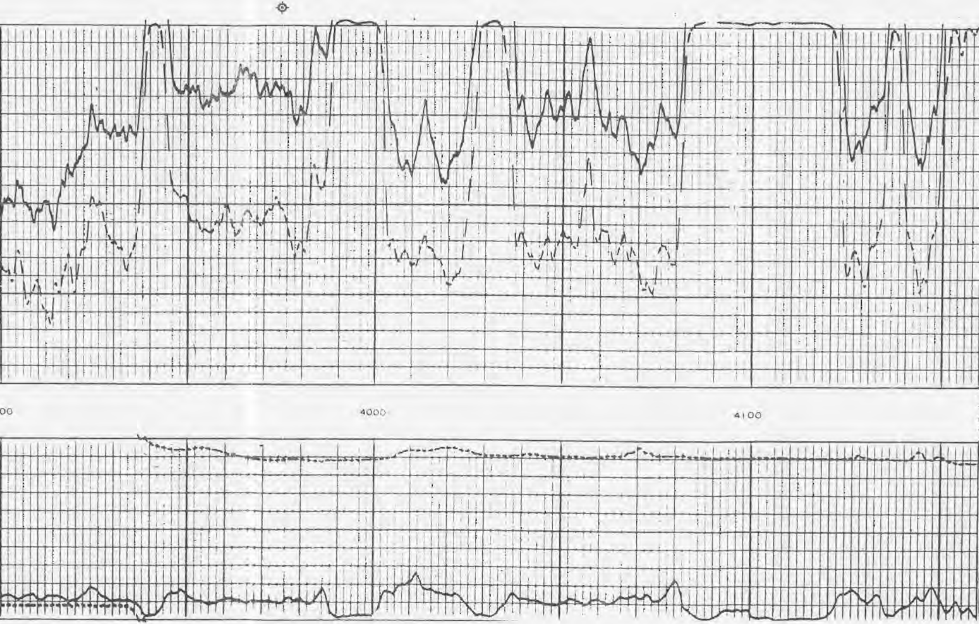
WELL OCS G 3909 WELL 1

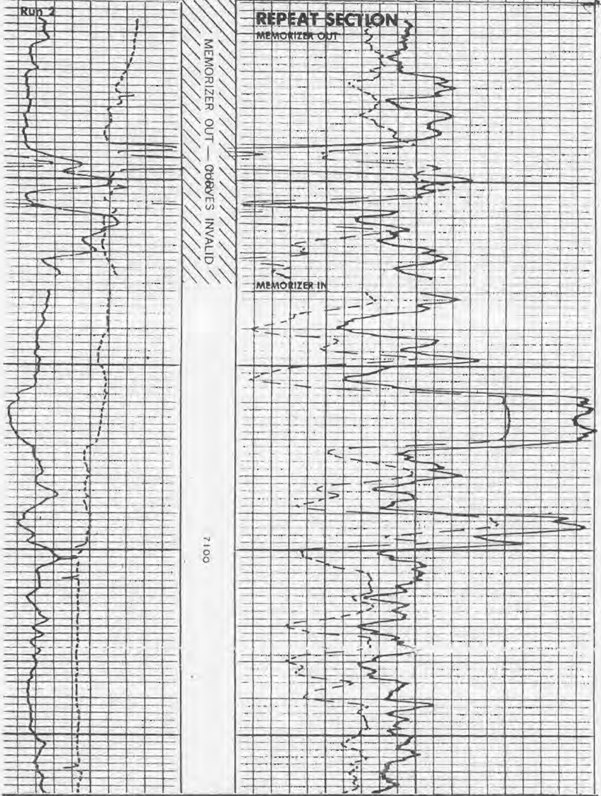
FIELD CHARLOTTE HARBOR BLOCK 188

COUNTY OFFSHORE STATE FLORIDA

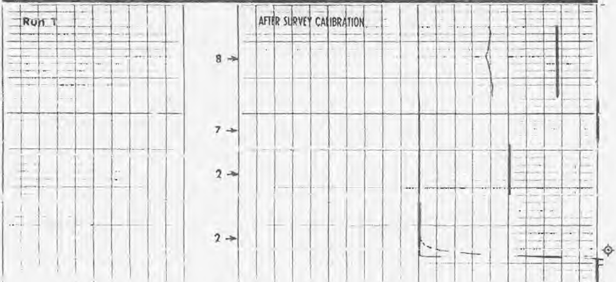
SCHL. FR 11333
SCHL. TD 11334
DRLR. TD 11360
Elev:
KB 92.0
DF 91.0
MWL

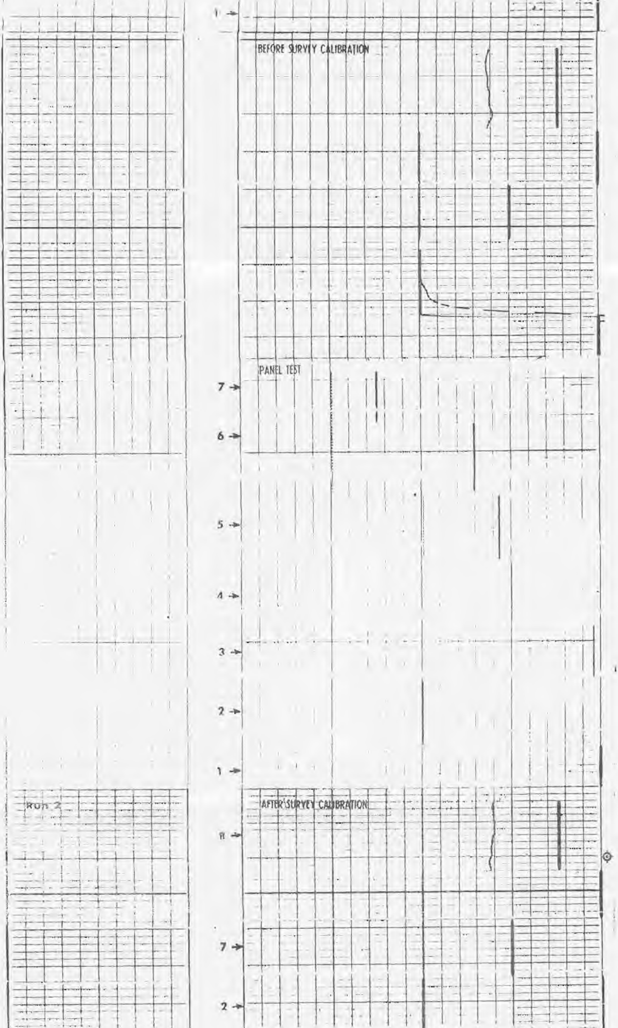


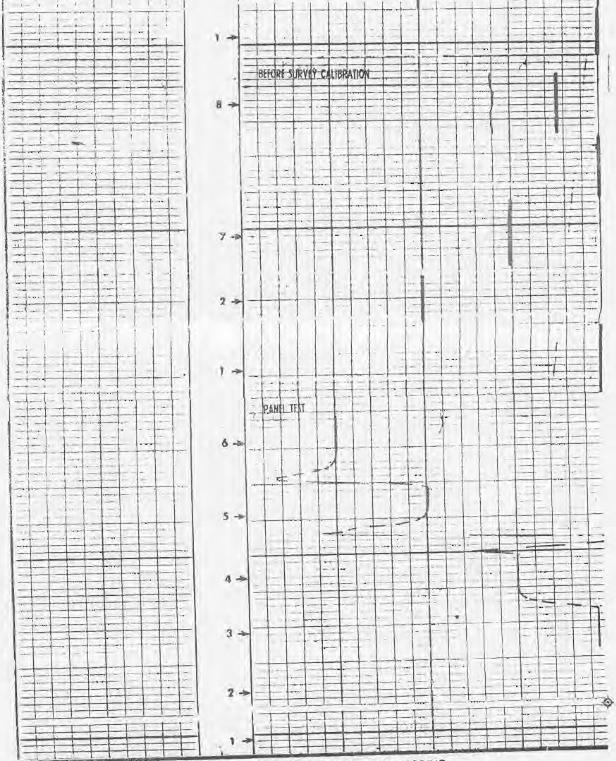




CALIBRATION RECORD







COMPENSATED NEUTRON CALIBRATION CODING

1. MECHANICAL ZERO
2. RECORDED SENSITIVITY (THRU MEMORIZER IF USED

PANEL TEST

	RATIO	OH POROSITY LS ☐	OH POROSITY SS ☐	OH POROSITY DOL ☐	CH POROSITY SS ☐	CH POROSITY LS ☐
3.	1	1.6	4.9	-0.2	2.4	0.1
4.	2	15.6	19.7	8.1	13.0	9.0
5.	3	30.5	36.0	25.2	29.1	24.1
6.	4	45.4	53.1	47.5	47.4	43.2

7. POROSITY NORMALIZED WITH CNB-A IN PLACE
7A. TOOL IN NCT-B
8. LOG POSITION WITH CNB-A IN PLACE
8A. LOG POSITION WITH TOOL IN NCT-B

OH LS	OH SS	OH DOL	CH SS	CH LS
18	22.2	10.4	15.3	11.2

RATIO (NORMALIZED) = $\frac{2.17}{\text{RATIO (NCT-B)}}$ RATIO LOG

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATE - SOURCE IN PLACE

CALIBRATION RECORD

COMPANY ODECO OIL AND GAS COMPANY
WELL OCS G 3909 WELL #1
FIELD [illegible] BLOCK 18
COUNTY OFFSHORE
STATE FLORIDA

SCHL. FR 11333
SCHL. TD 11334
DRLR. TD 11360

Elev. KB 92.0
DF 91.0
MWL

AH 4944

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY OFFSHORE
FIELD CHARLOTTE HARBOR
LOCATION BLOCK 188
WELL OCS-G 3909
WELL 1
COMPANY ODECO OIL AND GAS

COMPANY ODECO OIL AND GAS COMPANY

CONFIDENTIAL

WELL OCS-G 3909 WELL #1

FIELD CHARLOTTE HARBOR BLOCK 188

COUNTY OFFSHORE STATE FLORIDA

LOCATION

SEC. TWP. RANGE

Other Services
DIL SFL
FDC

Permanent Datum MSL Elev. 0.0
Log Measured From KB 93.0 Ft. Above Perm. Datum
Drilling Measured From KB

Elev. K.B. 93.0
D.F. 91.0
MSL

Date	7/11/81	8/25/8		
Run No.	ONE	TWO		
Depth-Driller	5400	11360		
Depth-Logger	5394	11334		
Btm. Log Interval	5393	11333		
Top Log Interval	1264	5383		
Casing-Driller	20" @ 1264	13 3/8 @ 5353	@	@
Casing-Logger	1264	5353		
Bit Size	17 1/2	12 1/4		
Type Fluid in Hole	SEAWATER GEL	LIGNOSULF		
Dens. | Visc.	8.4 | 70-80	9.0 | 32		
pH | Fluid Loss	- | - ml	11.5 | 12.8 ml	ml	ml
Source of Sample	[illegible]	FLOWLINE		
Rm @ Meas. Temp.	[illegible] @ 75 F	0.54 @ 72 F	@ F	@ F
Rmf @ Meas. Temp.	- @ 75 F	0.[illegible] @ 72 F	@ F	@ F
Rmc @ Meas. Temp.	- @ 75 F	[illegible] @ 75 F	@ F	@ F
Source: Rmf | Rmc	- | -	M | M		
Rm @ BHT	@ F	[illegible] @ [illegible] F	@ F	@ F
TIME Circulation Stopped	[illegible]	[illegible]		
TIME Logger on Bottom	[illegible]	[illegible]		
Max. Rec. Temp.	[illegible] F	[illegible] F	F	F
Equip. | Location	[illegible]	[illegible]		
Recorded By	[illegible]	[illegible]		
Witnessed By	[illegible]	[illegible]		

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DEC 27 1983
BUREAU OF GEOLOGY

FOLD HERE

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

RUN NO.	ONE	TWO		
Service Order No.	106558	10382[illegible]		
Fluid Level	[illegible]	FULL		
Salinity, PPM Cl	-	-		
Speed - F.P.M.	30	30		

Type Log	Depth

REMARKS:

EQUIPMENT DATA

Dens. Panel	1377	1377		
Dens. Cart.	242	229		
Dens. Skid	1-247	1-24[illegible]		
Dens. Sonde	466	466		
Dens. Source	5150	51[illegible]		
Dens. Calibrator	[illegible]	-		
Neut. Panel	400	400		
Neut. Cart.	1228	1219		
Neut. Source	243	343		
Neut. Calibrator	[illegible]-AP	1192		
GR Cart.	1476	1455		
Memorizer Panel	214	116		
Tape Recorder (TTR)	1976	1976		
Depth Encoder (DPE)	2827	2827		
Pressure Wheel (CPW)	3855	3856		
Centralizers, Enter Spring, Standoffs, In-line or None — Type	SPRING	BOW SPRING		
No.	1	1		
S.O. Inches	-	-		

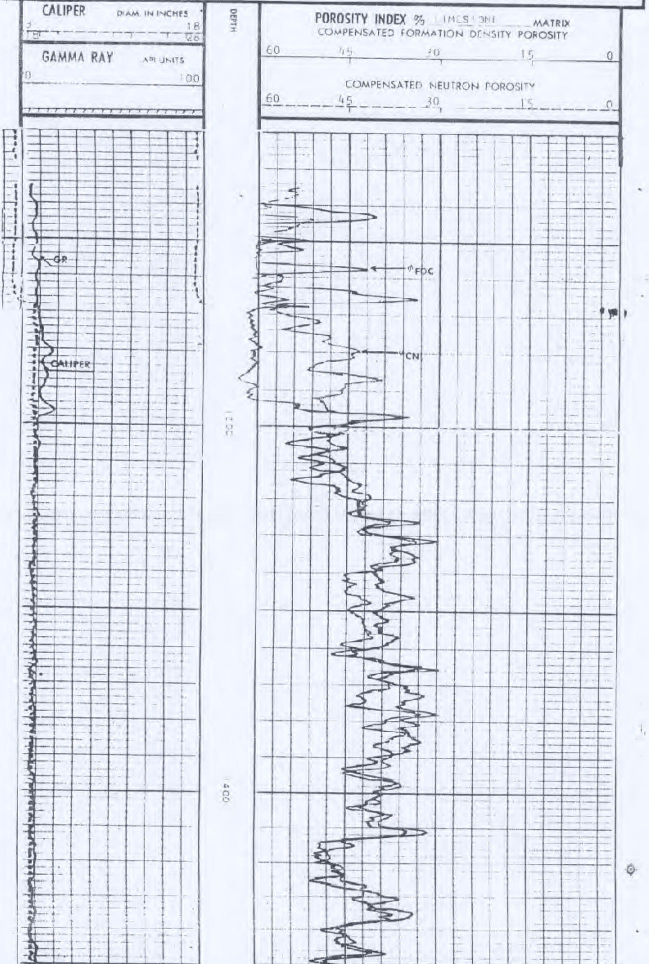
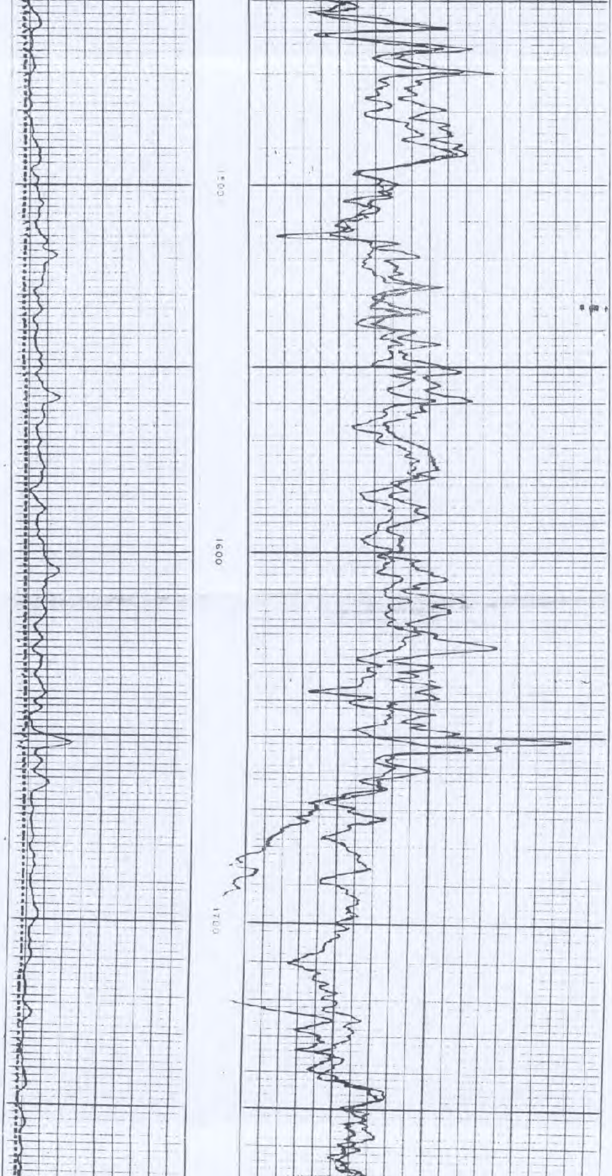
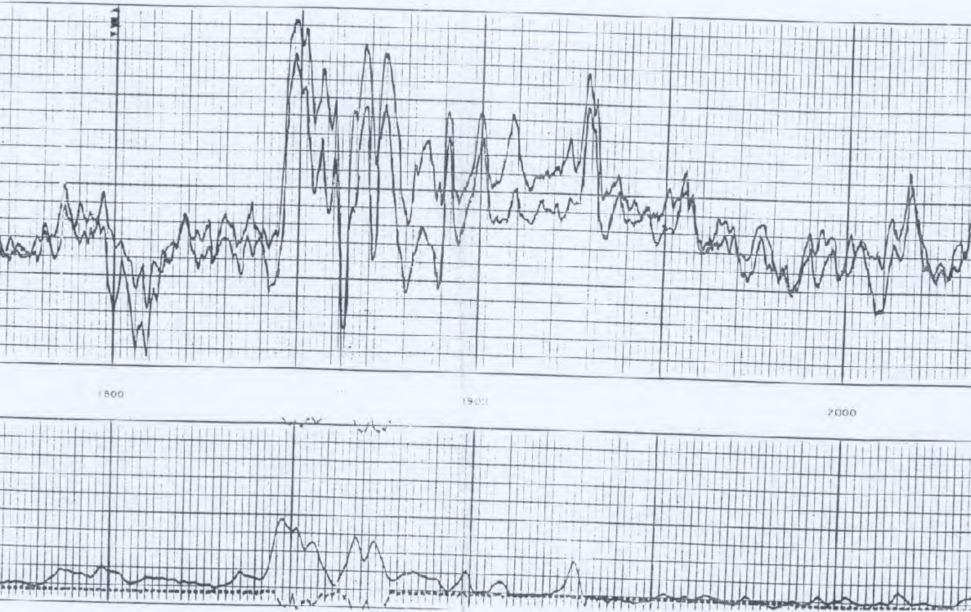
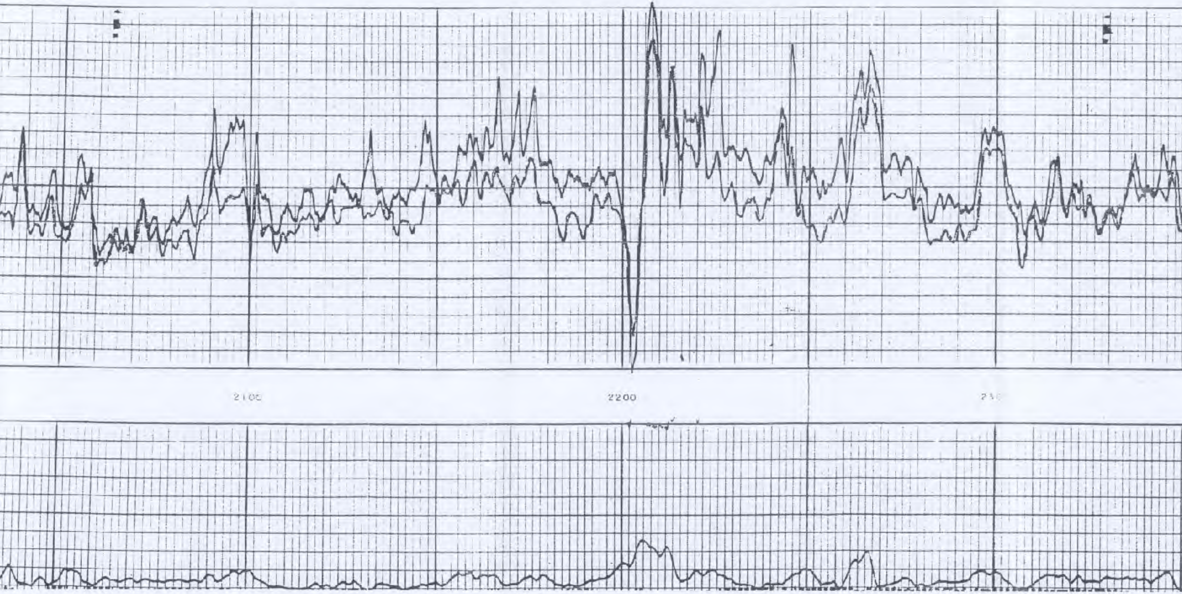
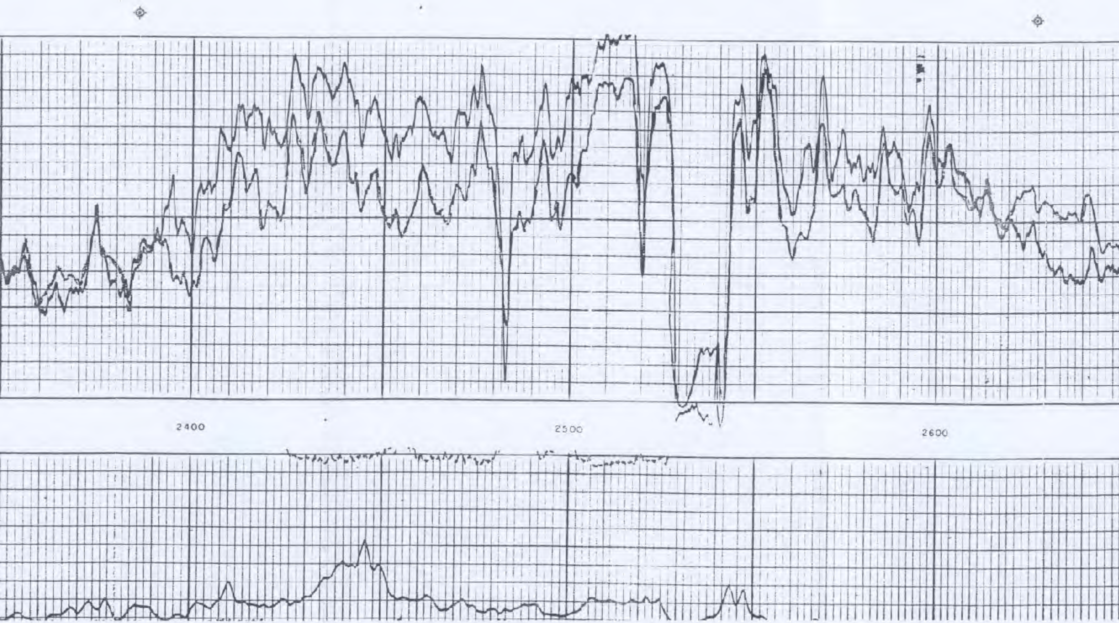
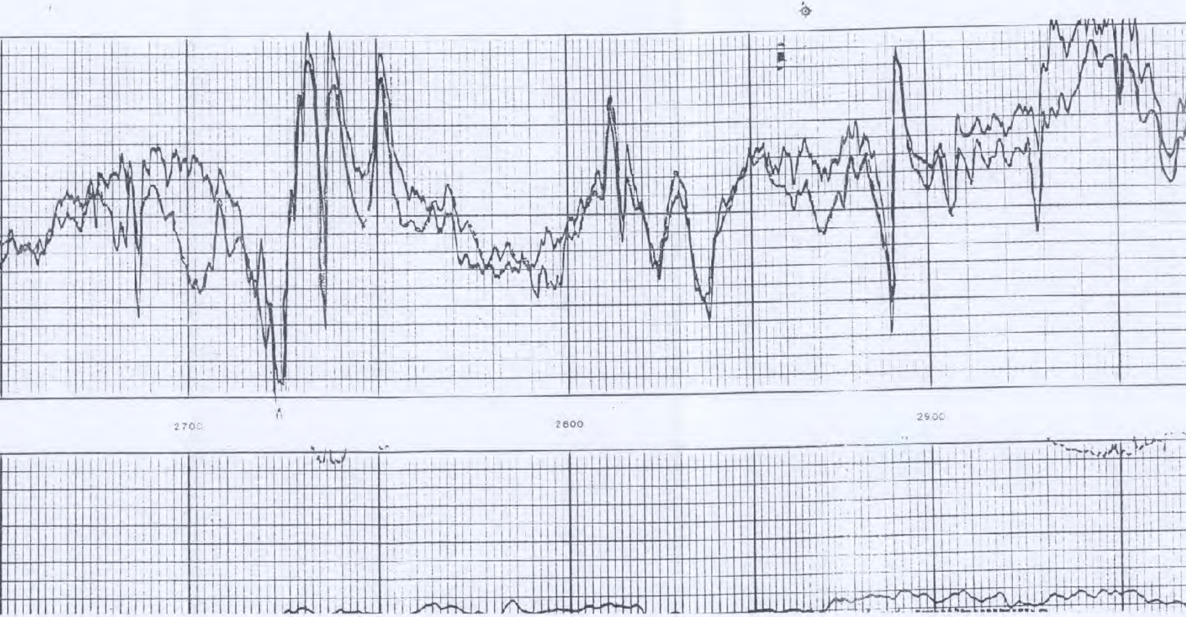
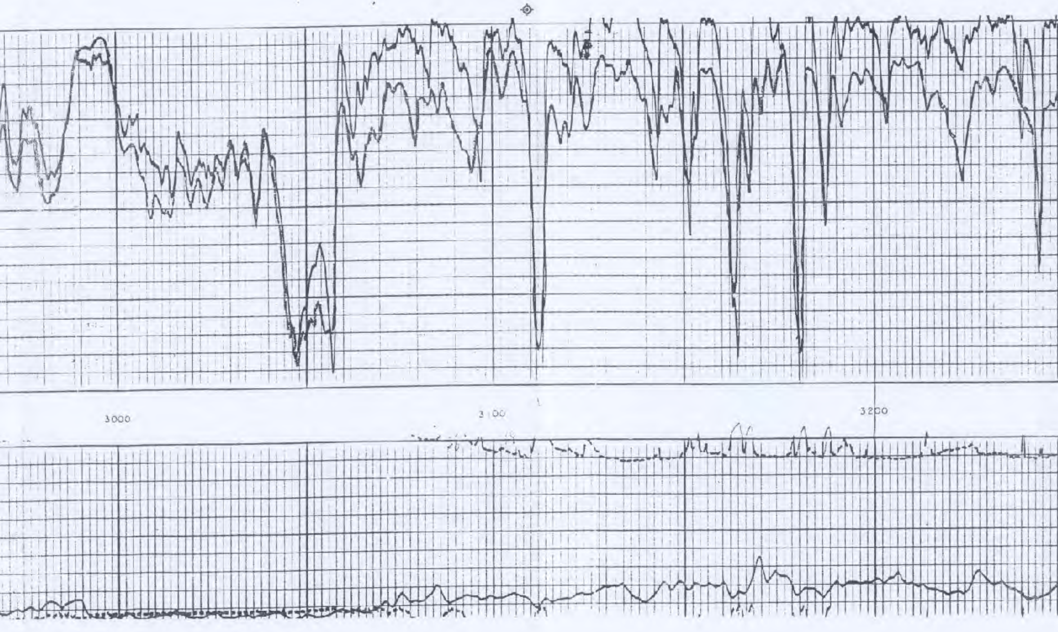
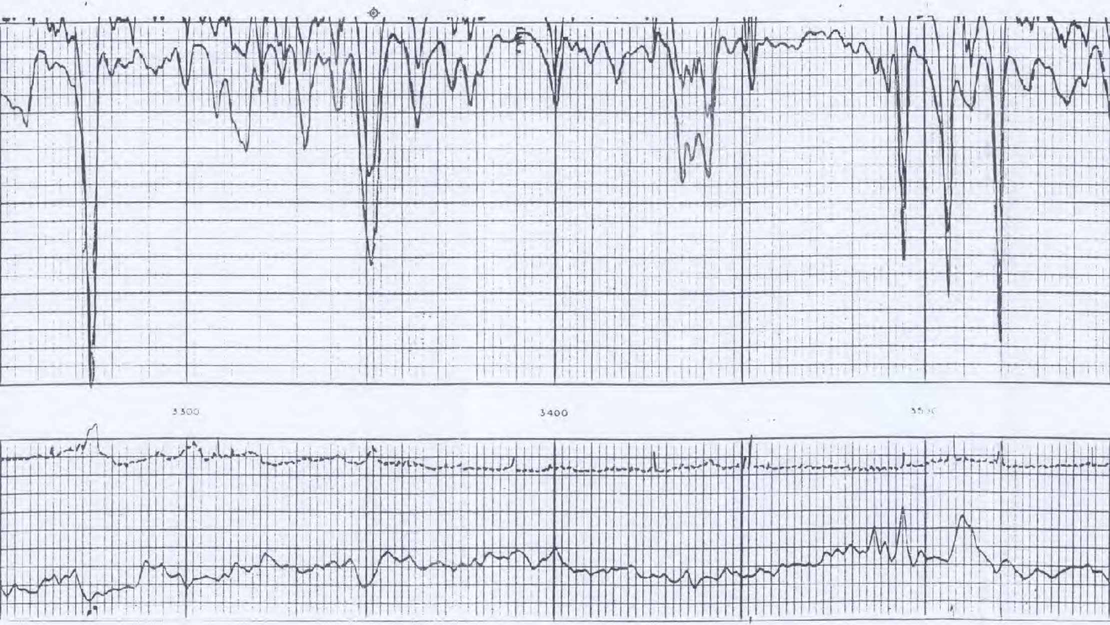
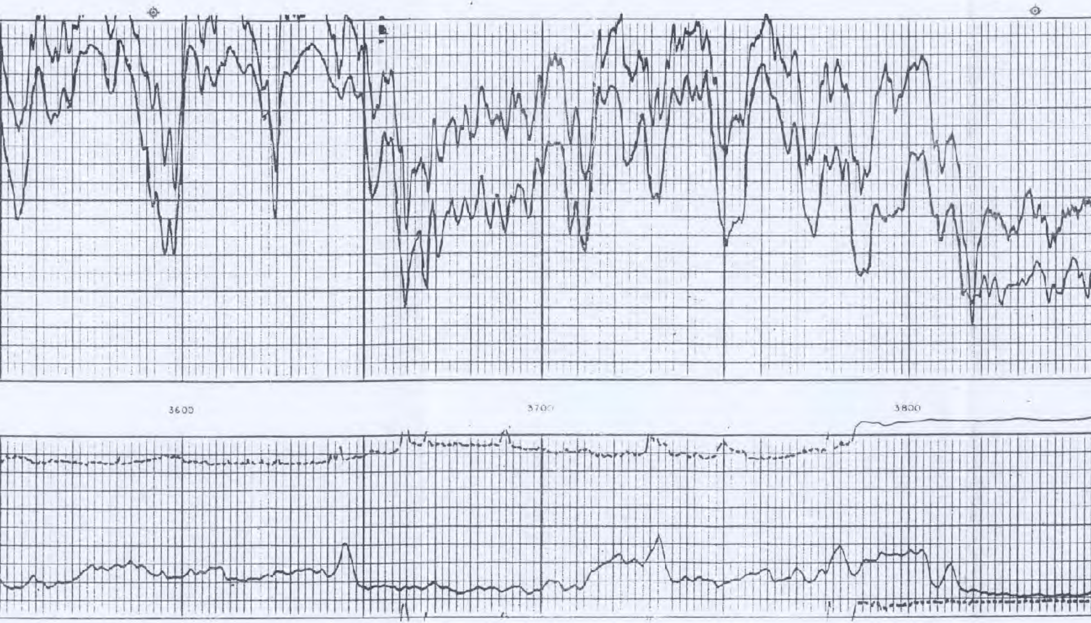
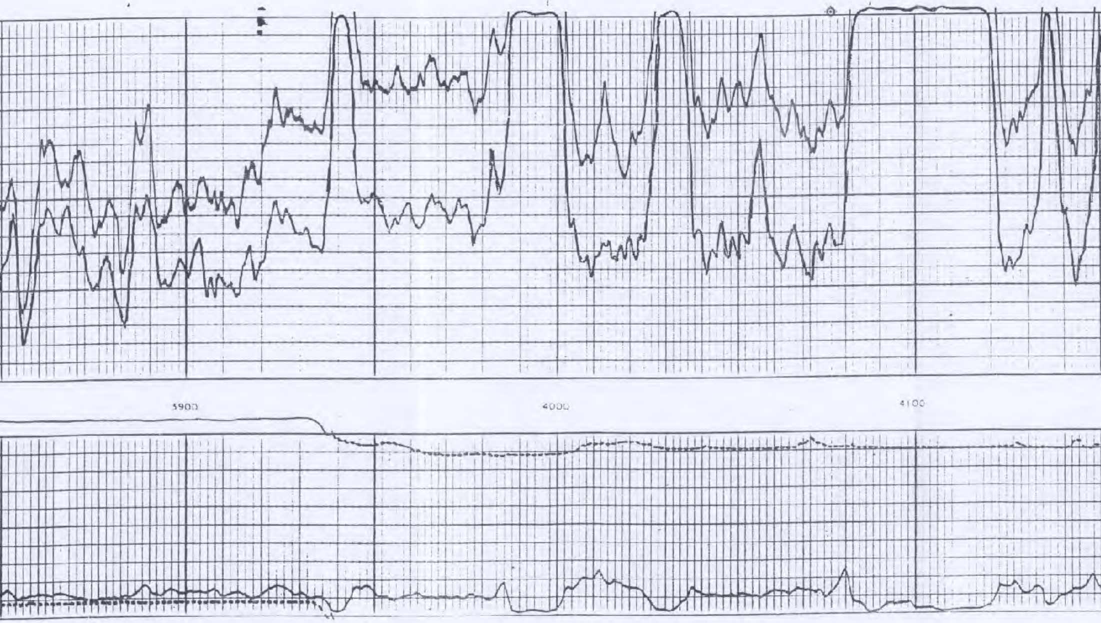
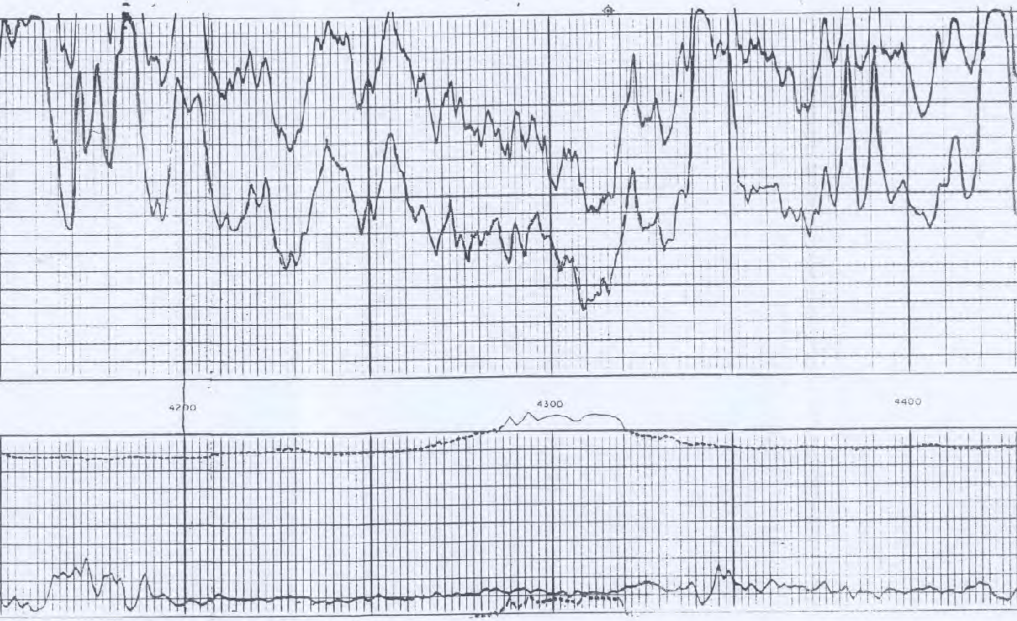
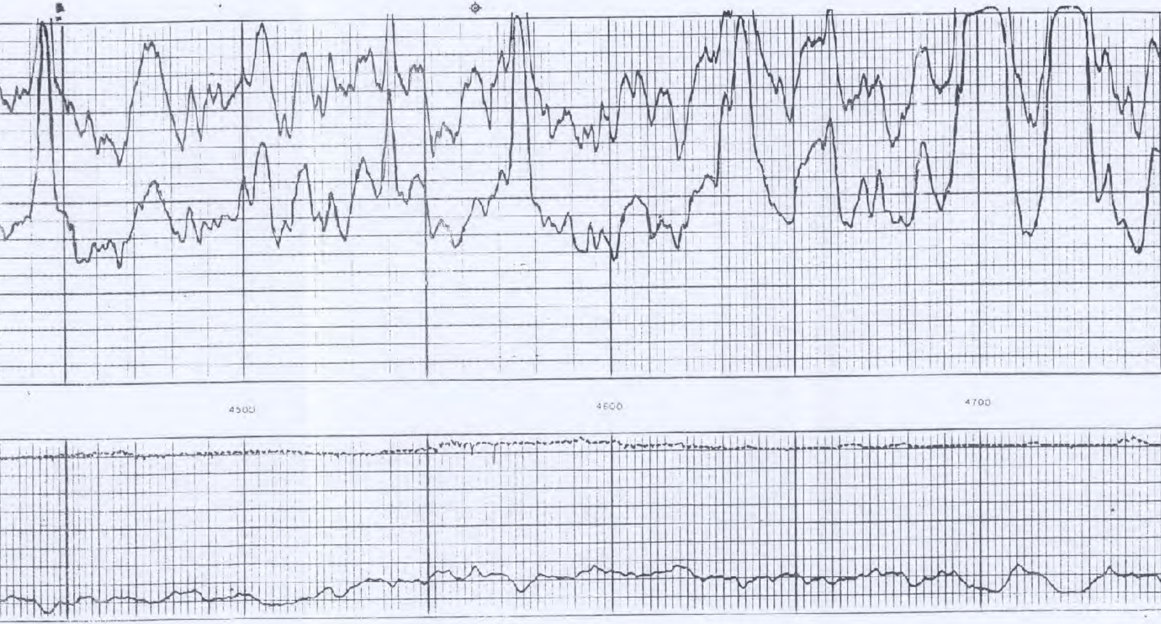
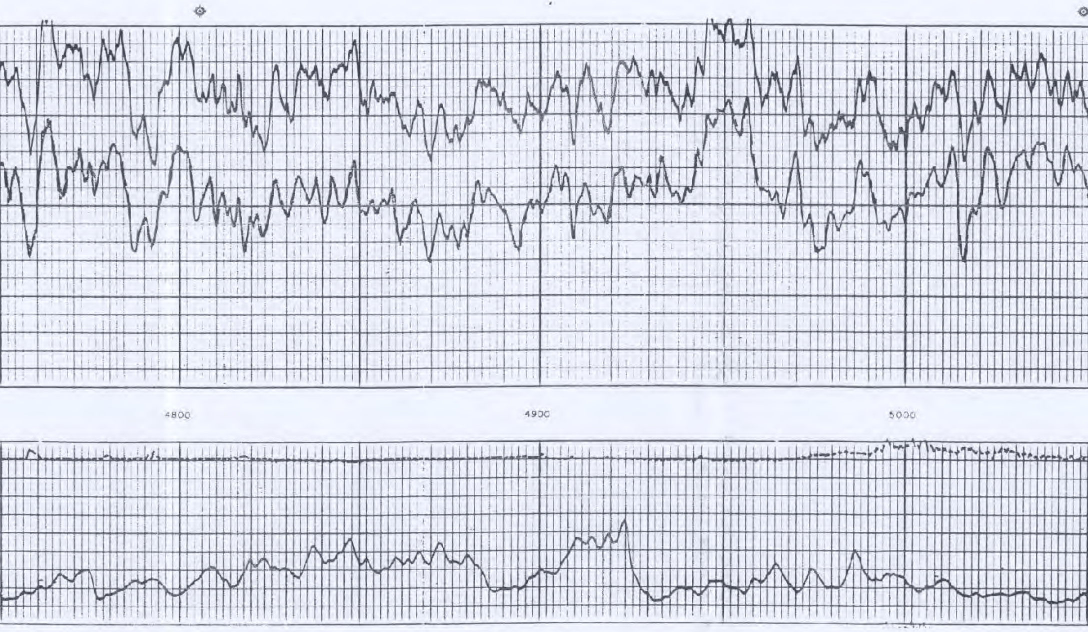
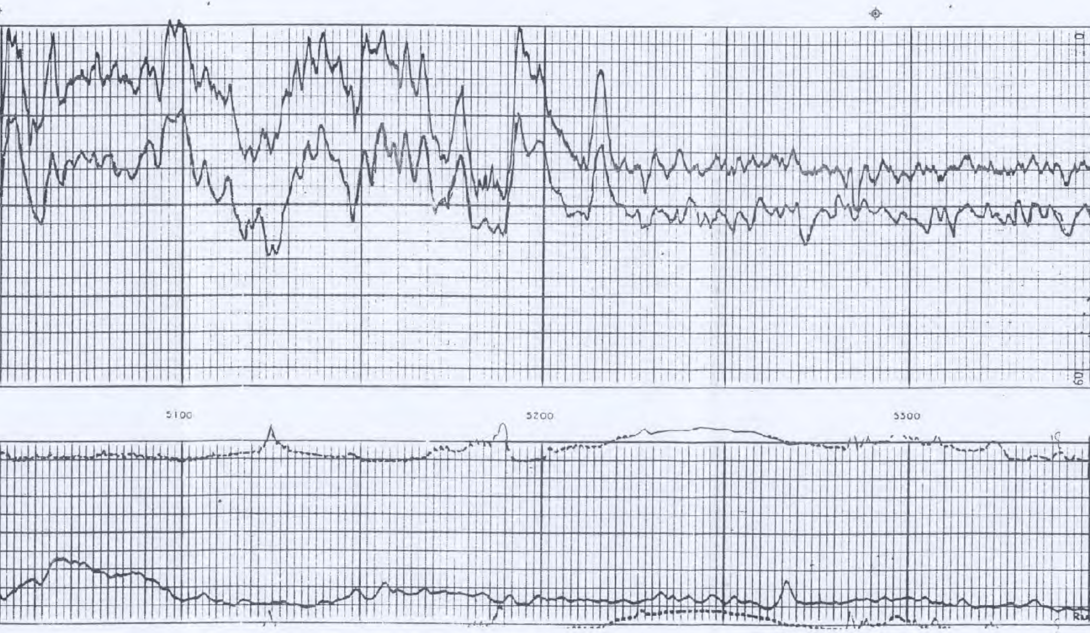
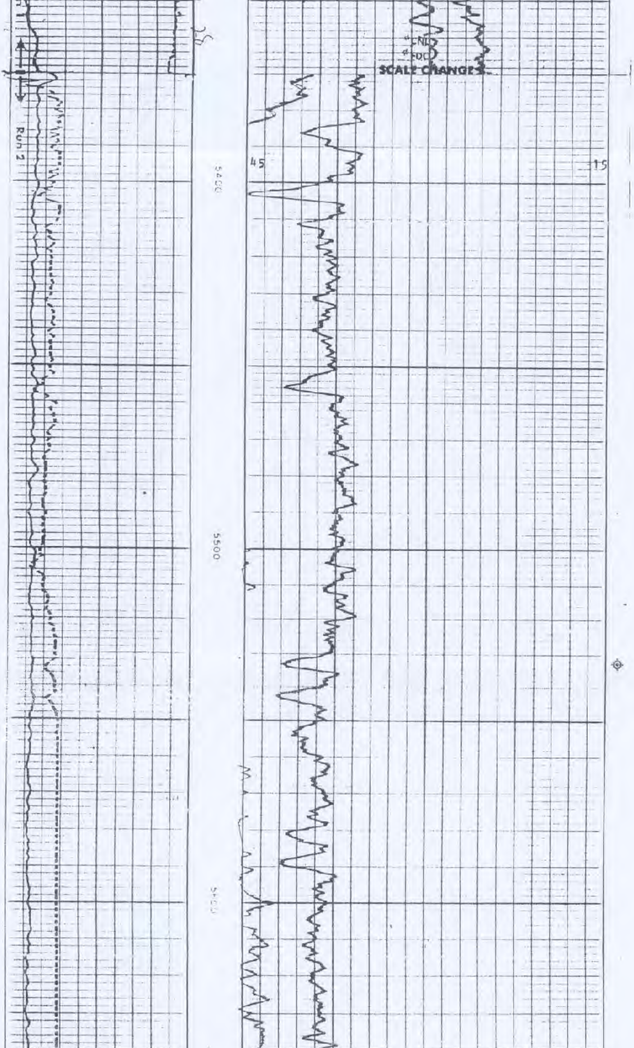
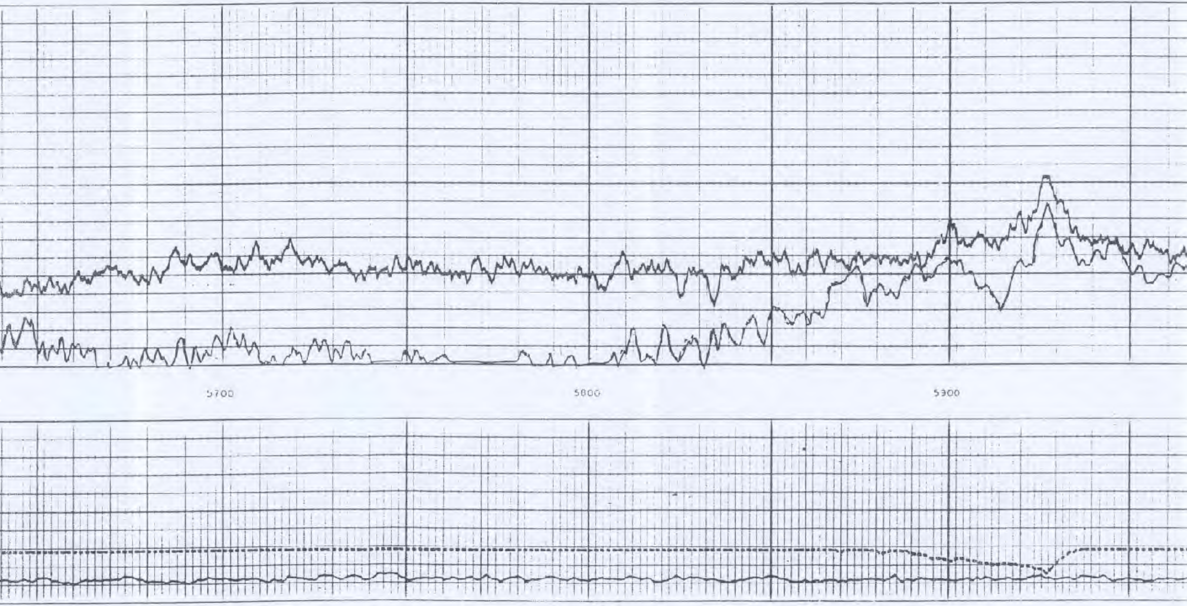
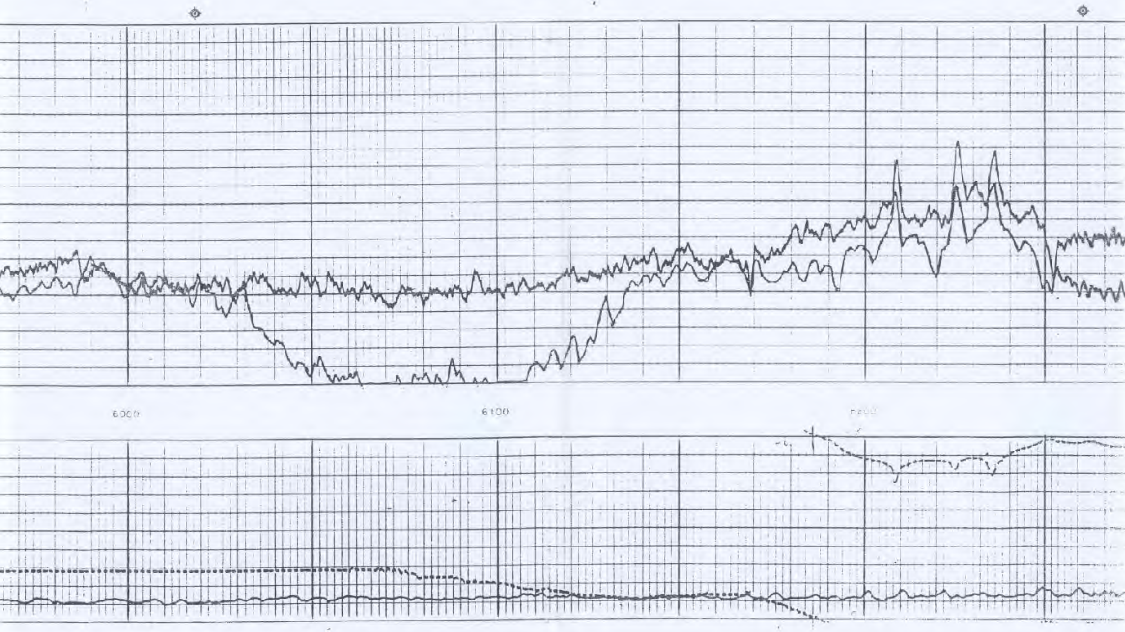
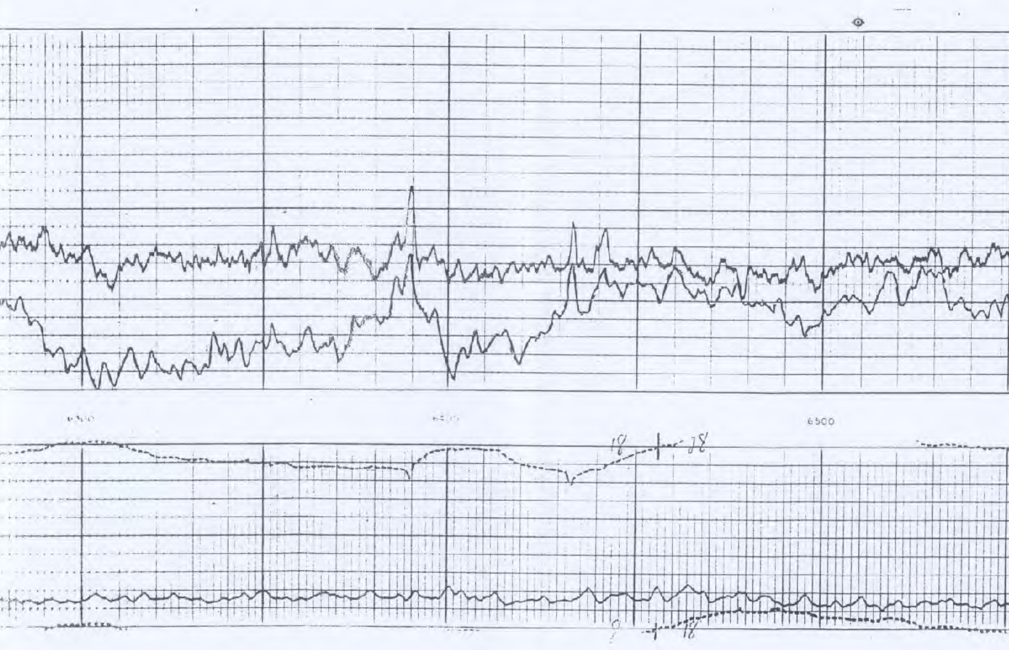
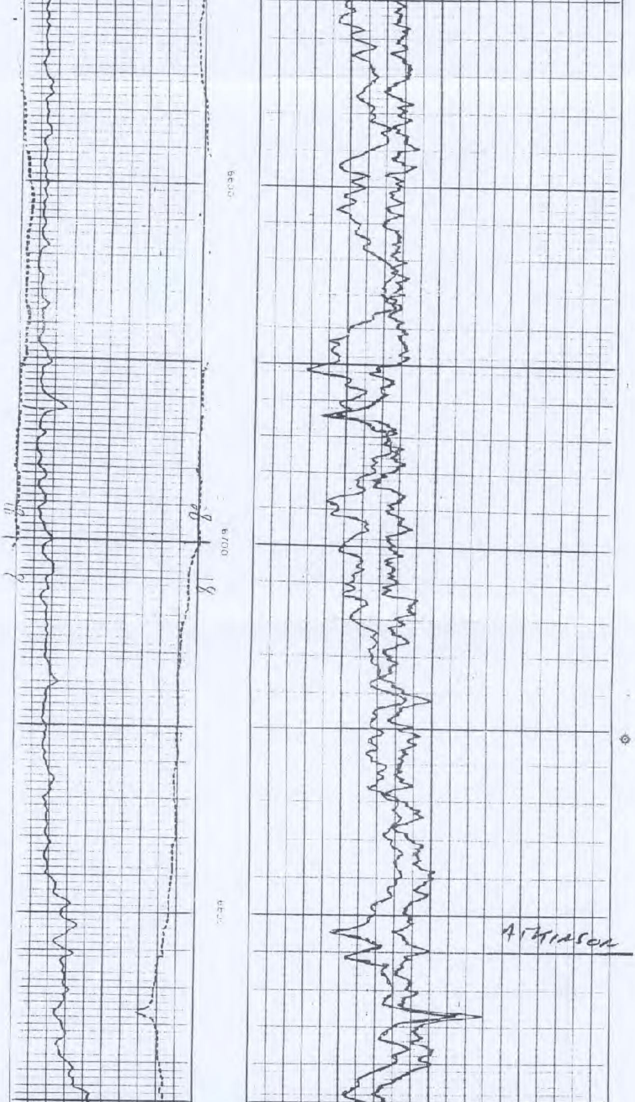
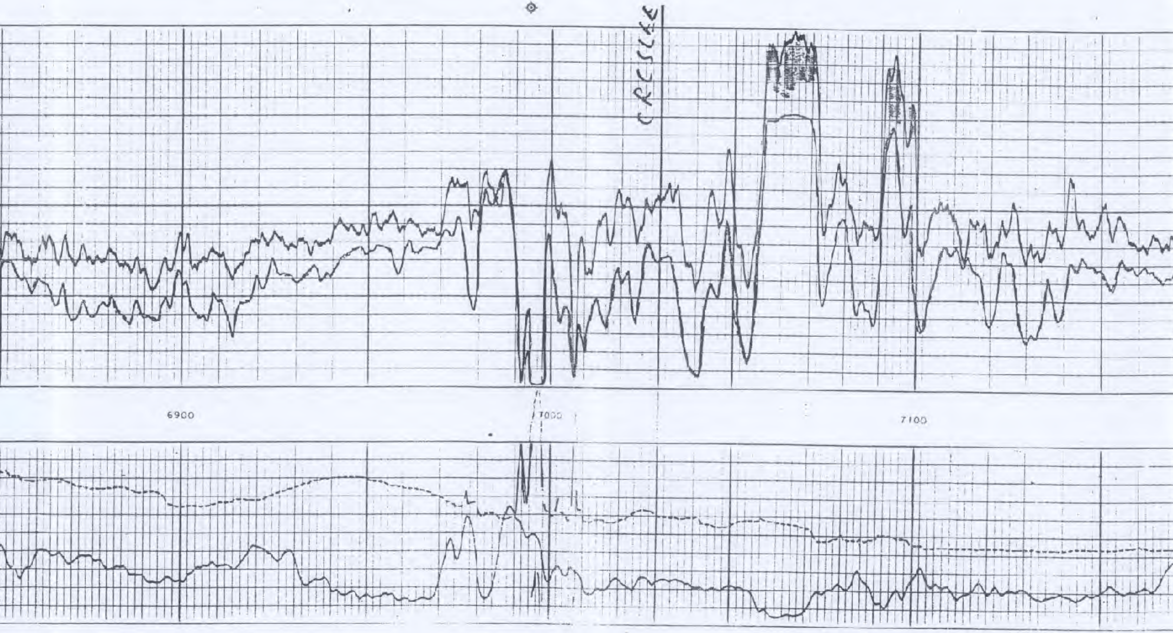
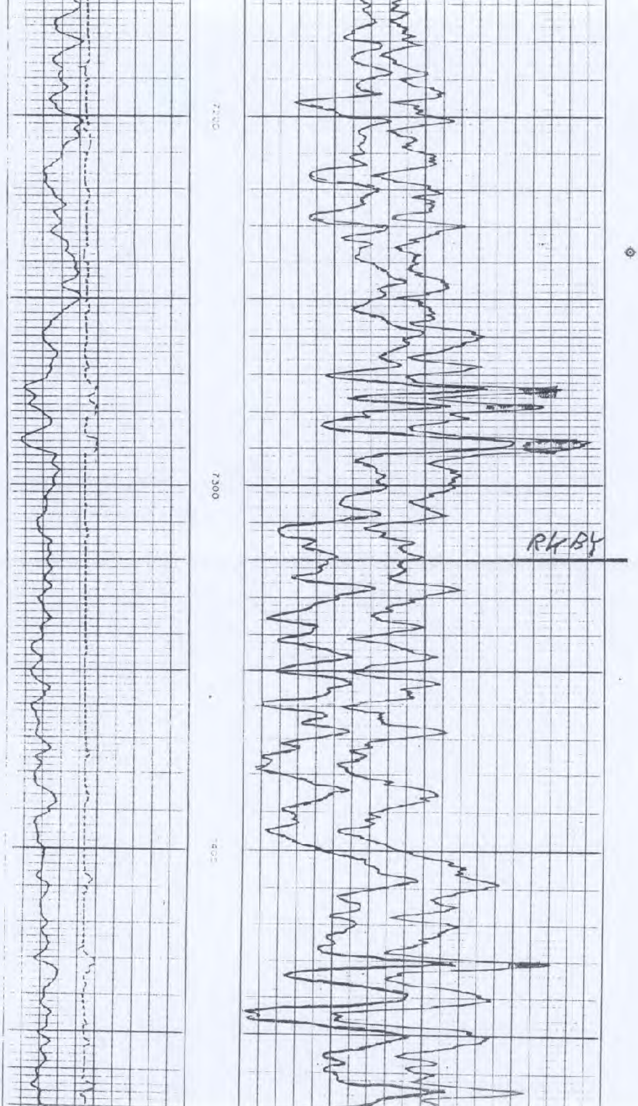
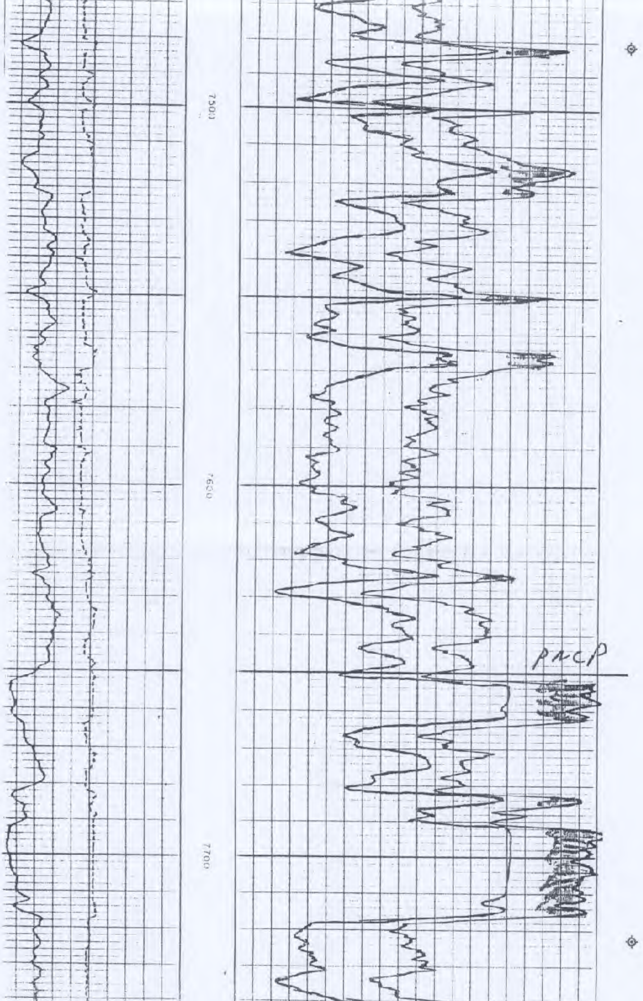
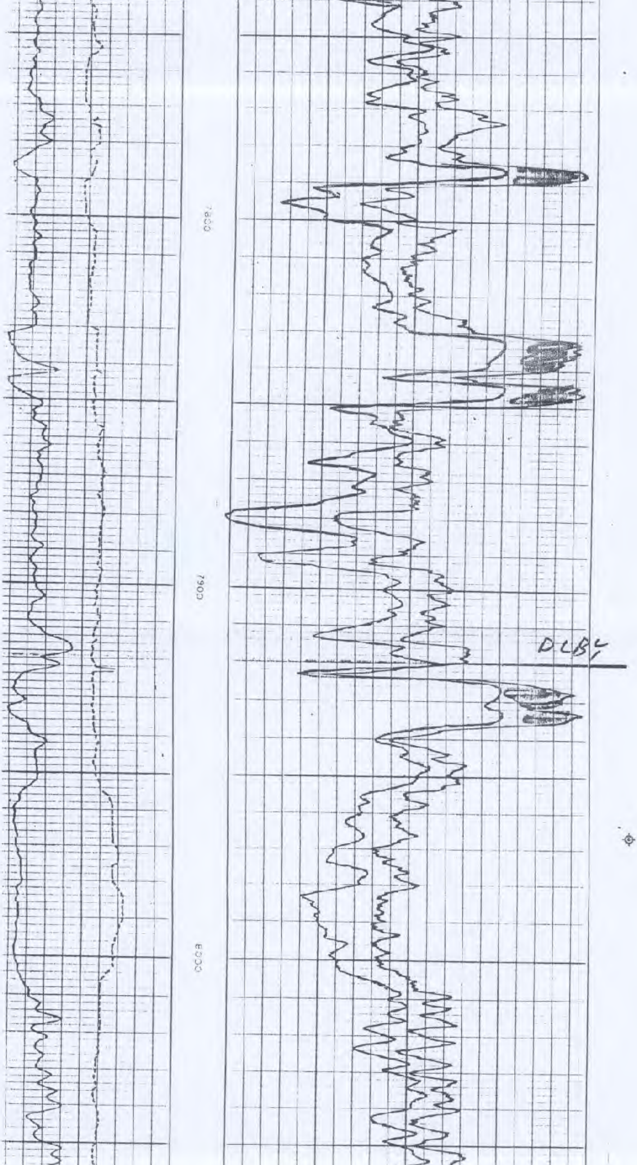
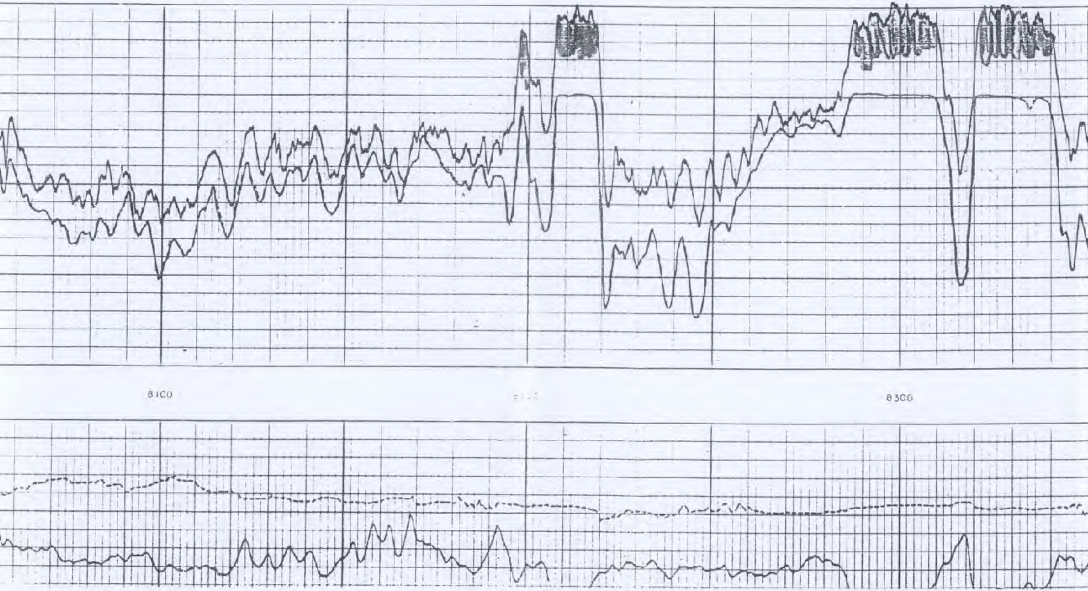
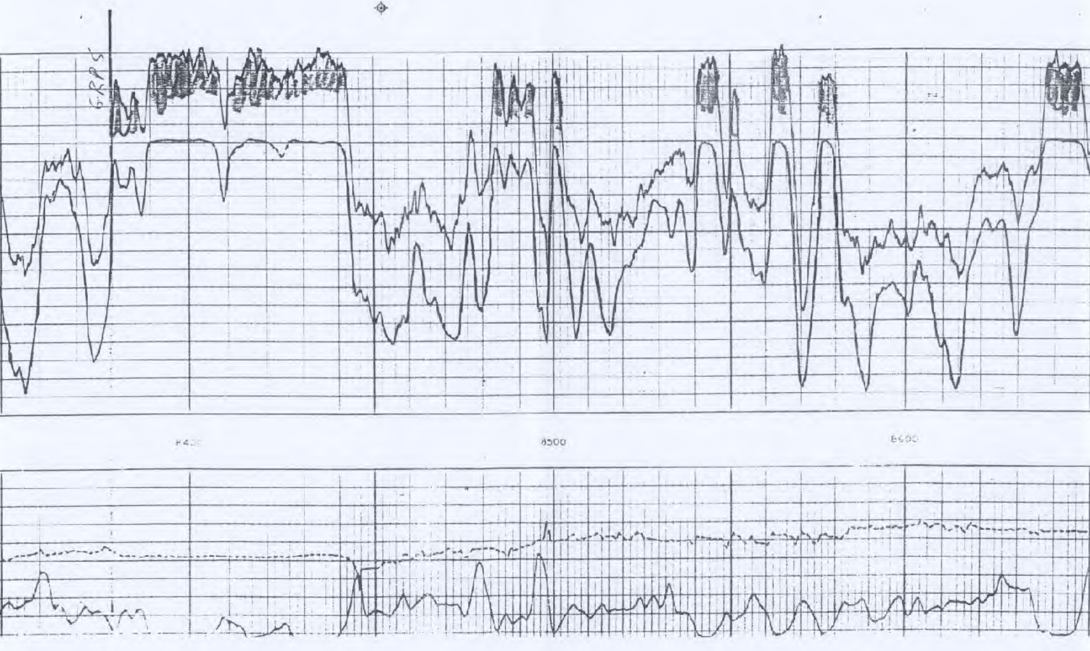
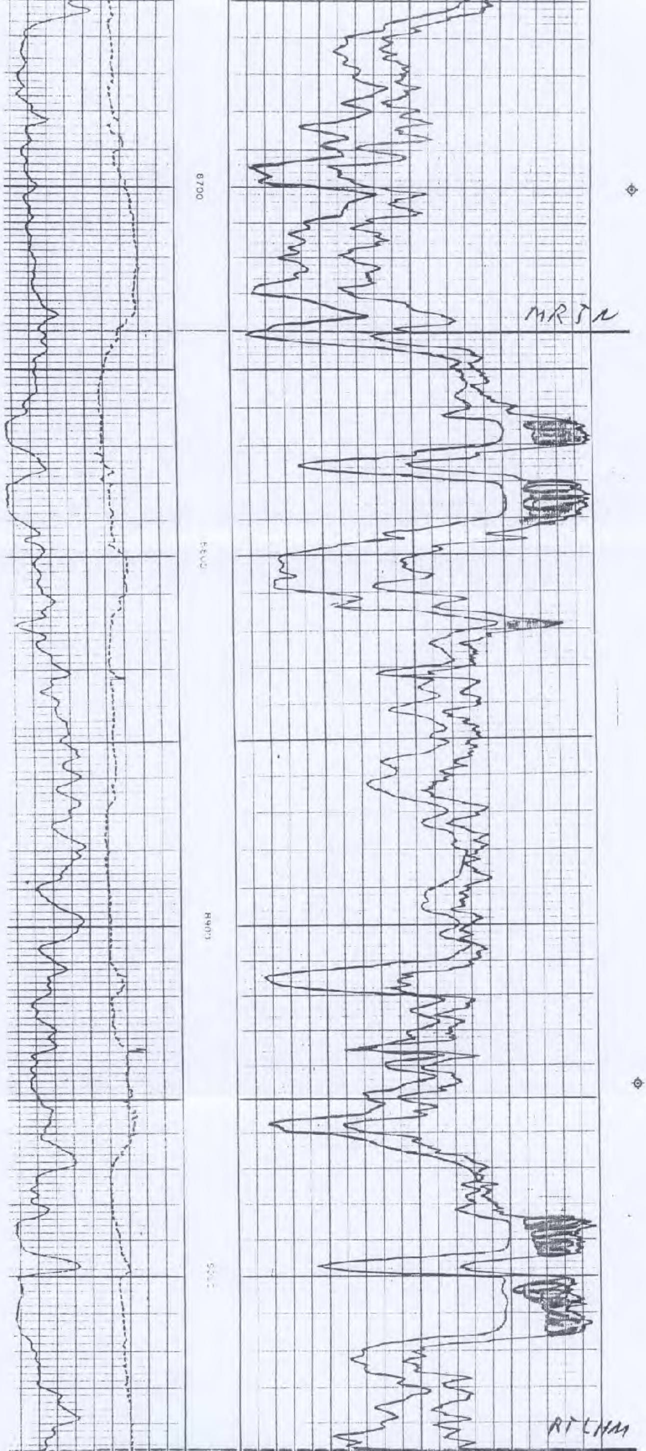
CALIBRATION DATA

GR	BKG. CPS	30	38		
	Source CPS	490	460		
	Sens. Cal.	5[illegible]	200		
	T.C. Cal.	-	-		
CNL	Short Spacing Before Log	12-2.25	12-2.25		
	Long Spacing Before Log	12-2.25	12-2.25		
	Short Spacing After Log	12-2.25	12-2.25		
	Long Spacing After Log	12-2.25	12-2.25		
FDC	P1 - Before Log	100X4	100X4		
	P1 - Before Log	166X4	166X4		
	P - After Log	100X4	100X4		
	P1 - After Log	166X4	166X4		

LOGGING DATA

DEPTH		CNP			FDC					GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T.C.	Zero. Div. Left	Scale Per 100 Div.
[illegible]	5393	60-30-0	LIMESTONE	AUTO	60-30-0	2.71	1.00	1.10	100	2	0	100
[illegible]	11333	45-15-0	LIMESTONE	AUTO	45-15	2.71	1.00	1.10	100	2	0	100

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 our General Terms and Conditions as set out in our current Price Schedule.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