



Compensated Neutron

FILE NO. R-419		COMPANY E.G. & G. IDAHO, INC.		WELL R.R.G.L. #4		FIELD RAFT RIVER GEOTHERMAL		COUNTY CASSIA STATE IDAHO		LOCATION: IDAHO		Other Services	
Permanent Datum		GROUND LEVEL		Elev. 4835		CDL/GR		DIFL		BHC/AL		Elevations:	
Log Measured from		GROUND LEVEL, 14		Ft. Above Permanent Datum		KB 4849		DF 4848		GL 4835			
Drilling Measured from		R.K.B.											
Date		4/17/77											
Run No.		ONE											
Type Log		CNL											
Depth-Driller		1908											
Depth-Logger		1909											
Bottom Logged Interval		1908											
Top Logged Interval		401											
Type Fluid in Hole		CHEM GEL											
Salinity Ppm Cl.													
Density Lb./Gal.		9.6											
Level		FULL											
Max. Rec. Temp. Deg. F		199											
Opr. Rig Time		3.5 HOURS											
Equip. No. and Location		6089 IRSVLT.											
Recorded By		MCCALL-ALEXY											
Witnessed By		MR. STOKER											
Run No.		ONE											
Bit		400											
From		1908											
To		20"											
Size		SURFACE											
Wgt.		400											
From													
To													

FOLD HERE ↓

Remarks: REPEAT RUN UPHOLE.

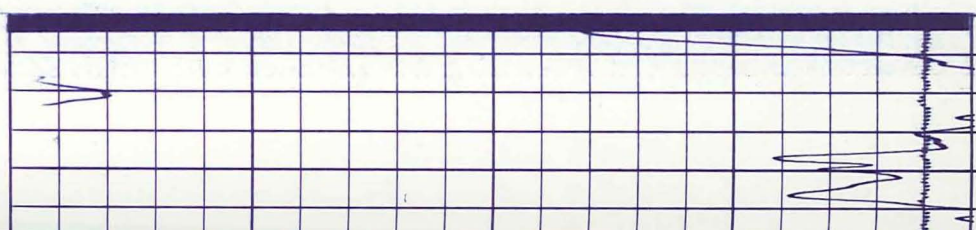
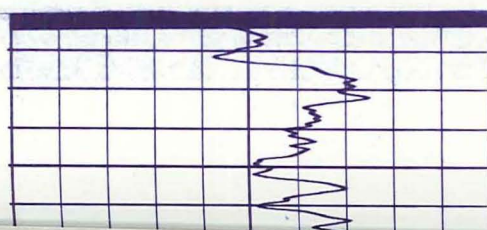
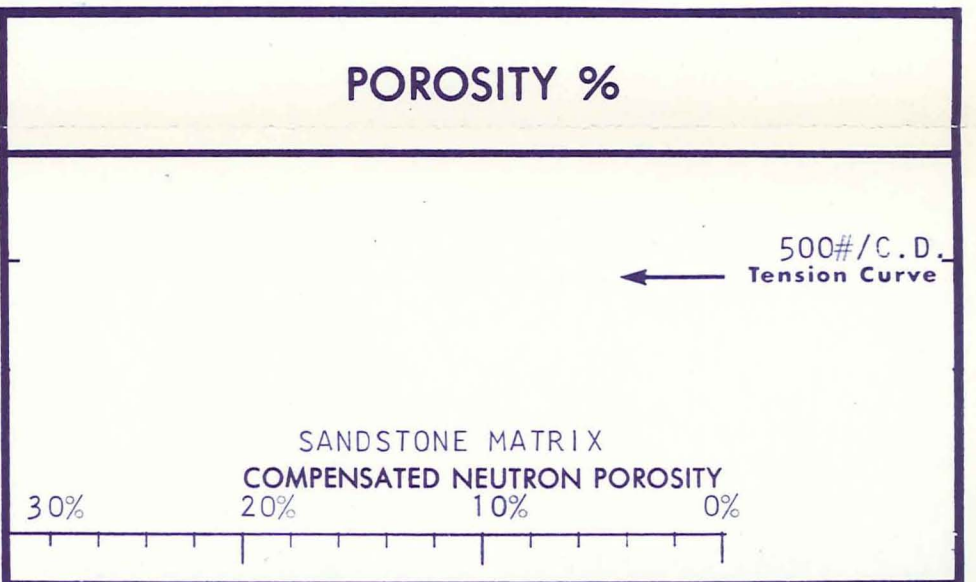
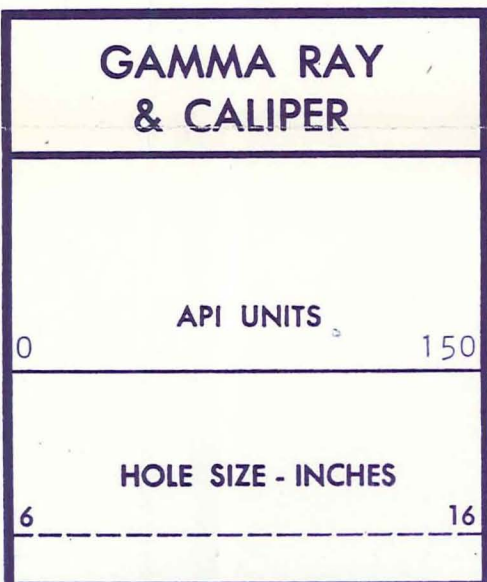
Equipment Used

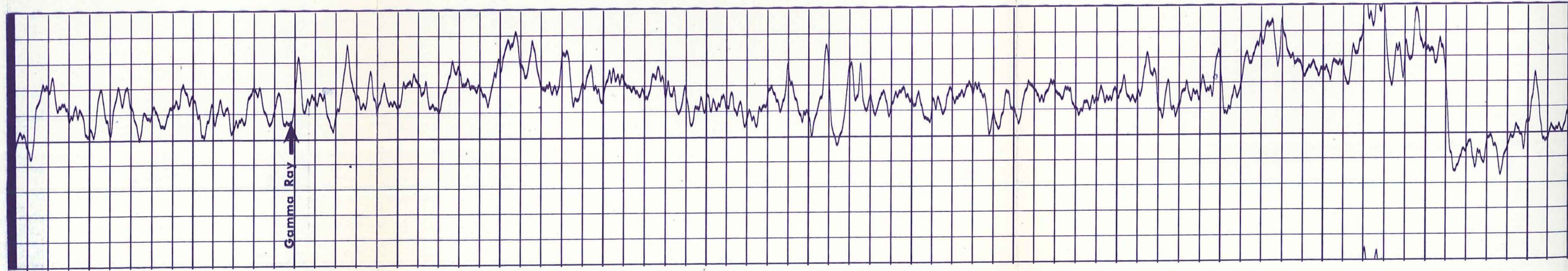
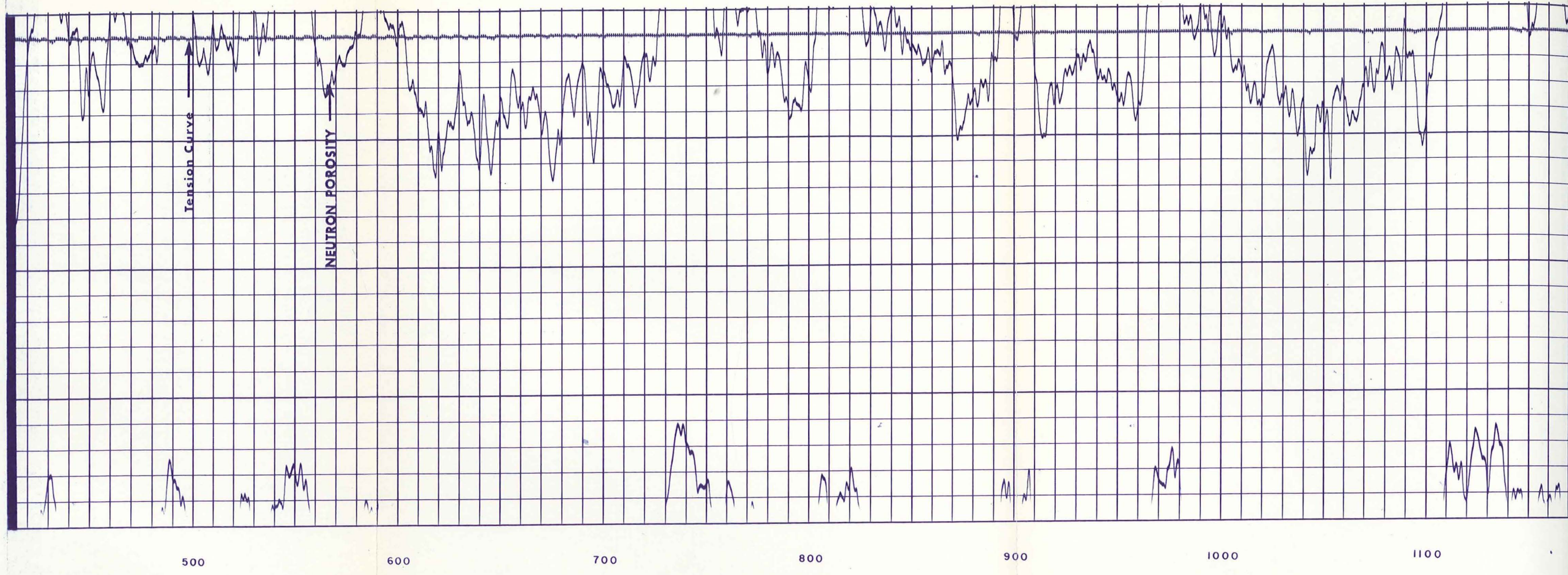
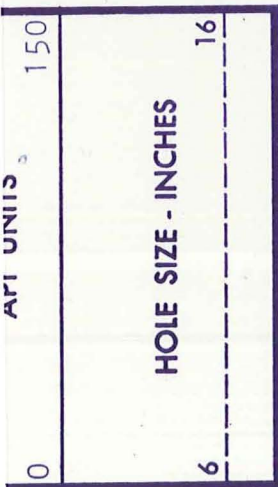
Series No.	2413
Run No.	ONE
S.O.	39267
Tool No.	29901
Elec. No.	29901
Panel No.	23832

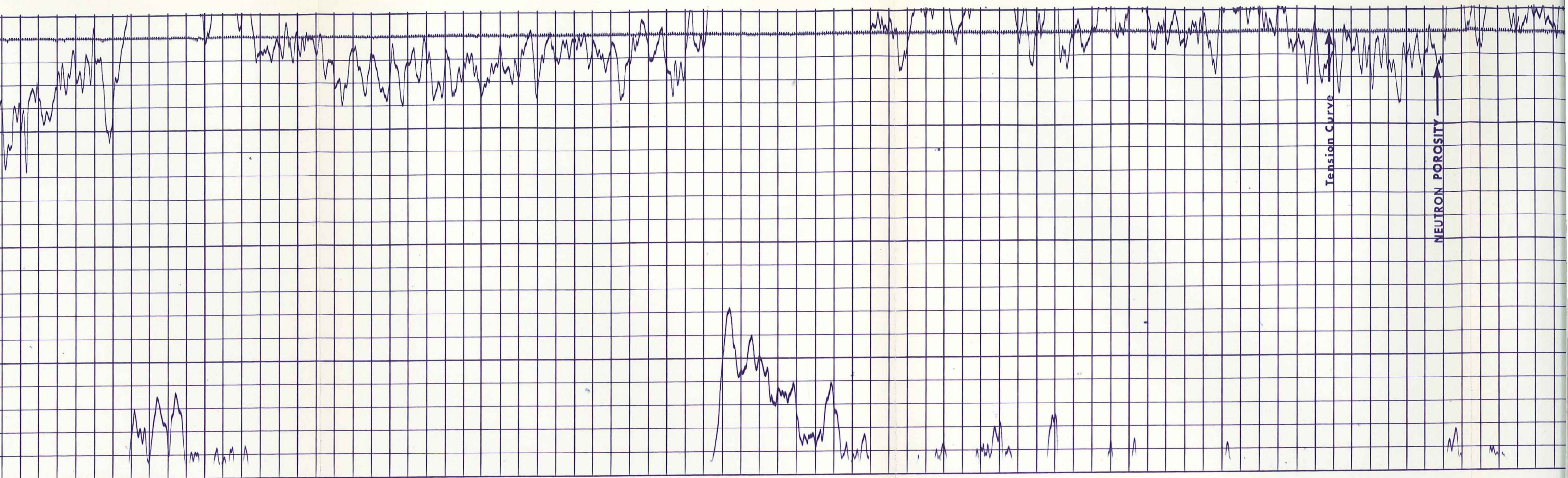
Gamma Ray		Equipment Data		Compensated Neutron	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Tool Model No.	1306	Log Type	CNL	Log Type	CNL
Diam.	3 5/8"	Tool Model No.	2413	Tool Model No.	2413
Detect. Model No.	D6G4	Serial No.	29901	Serial No.	29901
Type	SCINT	Diam.	3 5/8"	Diam.	3 5/8"
Length	6"	Detect. Model SS		Detect. Model SS	
Dist. to N. Source	8'	Detect. Model LS		Detect. Model LS	
Computer Data		Source Model No.	S17S20	Source Model No.	S17S20
		Serial No.	30431	Serial No.	30431
		Type	AM/BE	Type	AM/BE

Logging Data

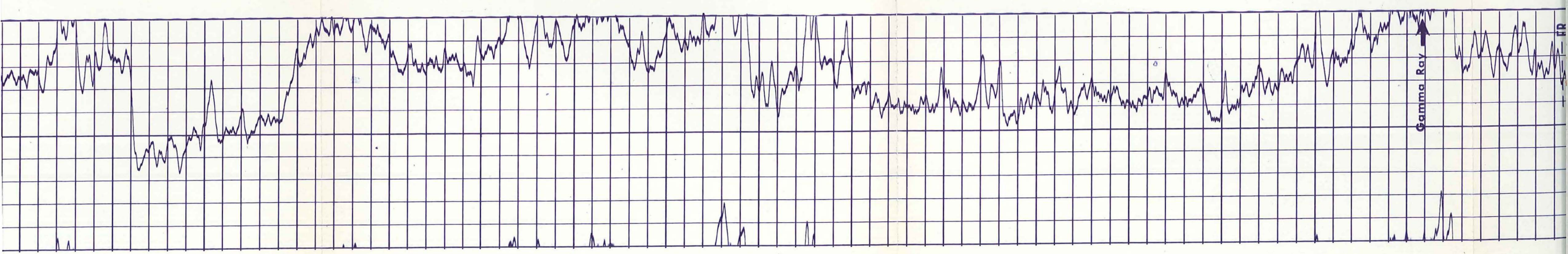
Run No.	General		Speed Ft./Min.	Compensated Neutron				Gamma Ray						
	Depths			T.C.		Sens.		Porosity		T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.	
	From	To	SS	LS	SS	LS	Zero	Units/Div.	Scale					
ONE	1909	401	REC	CCTC	CCTC	138	138	9.5L	2/CD	0-30	2	398	ZERO	15

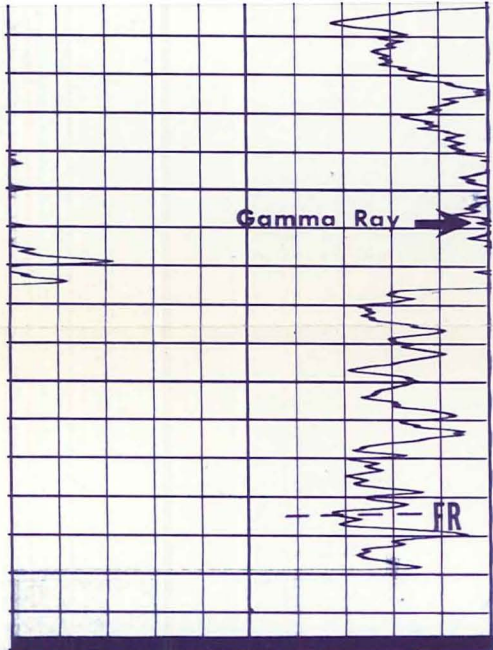




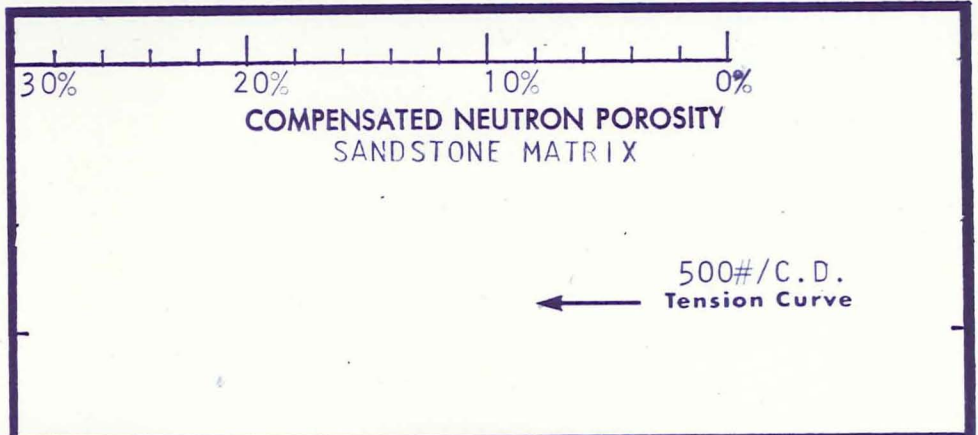
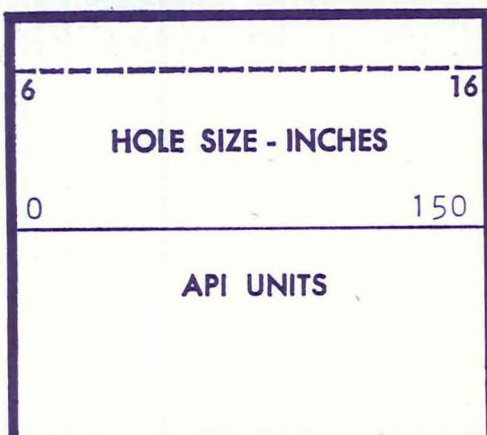
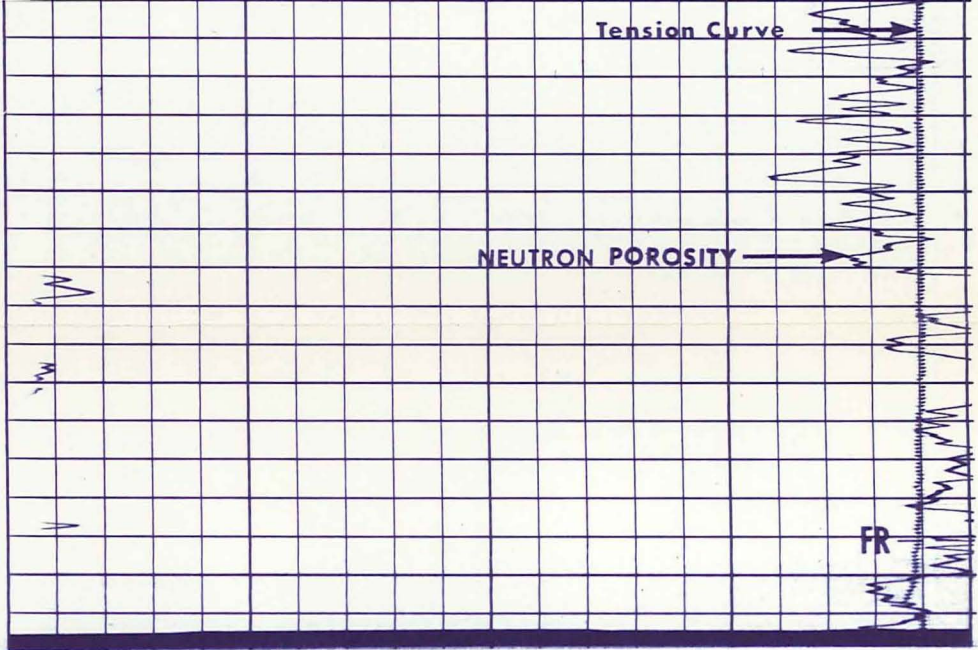


1100 1200 1300 1400 1500 1600 1700 1800



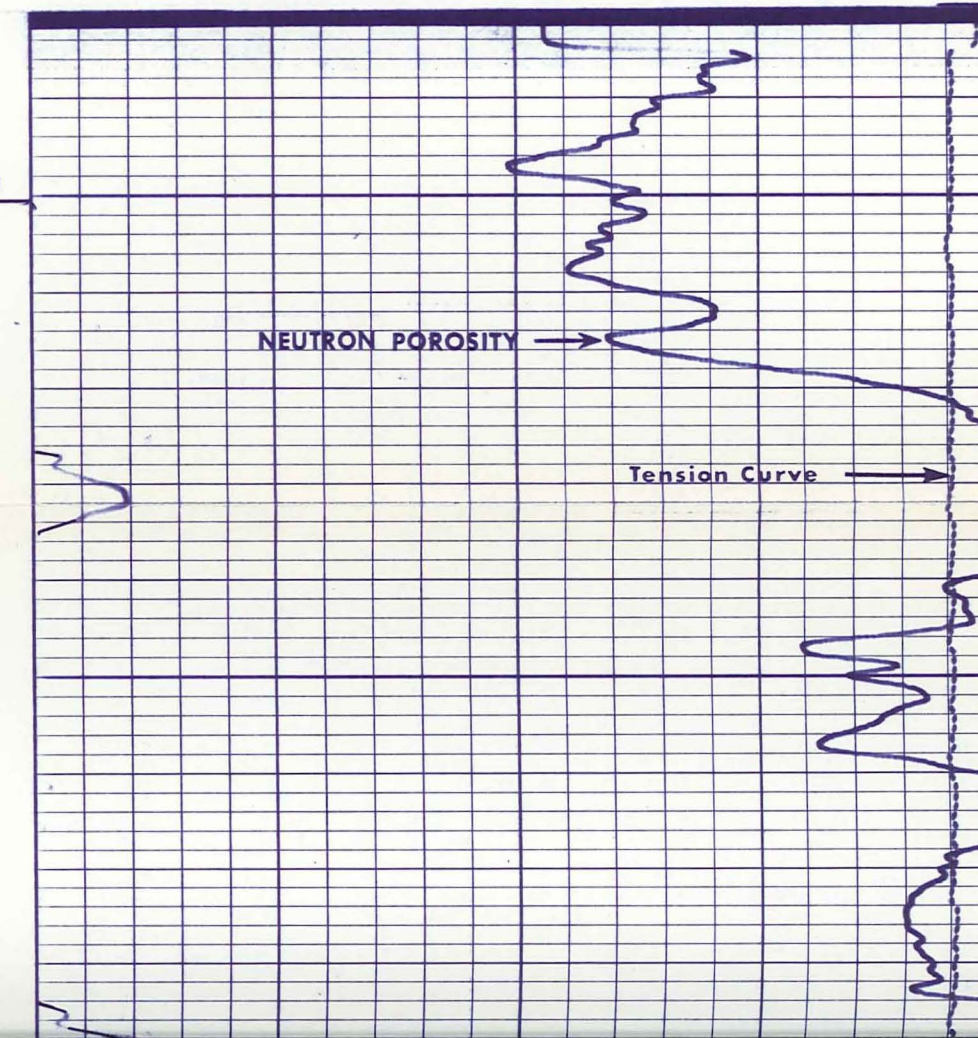
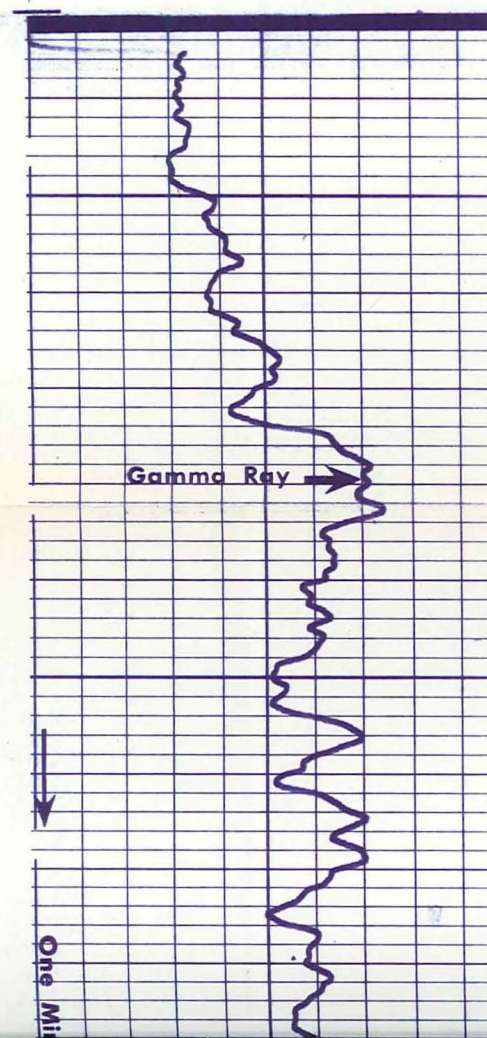
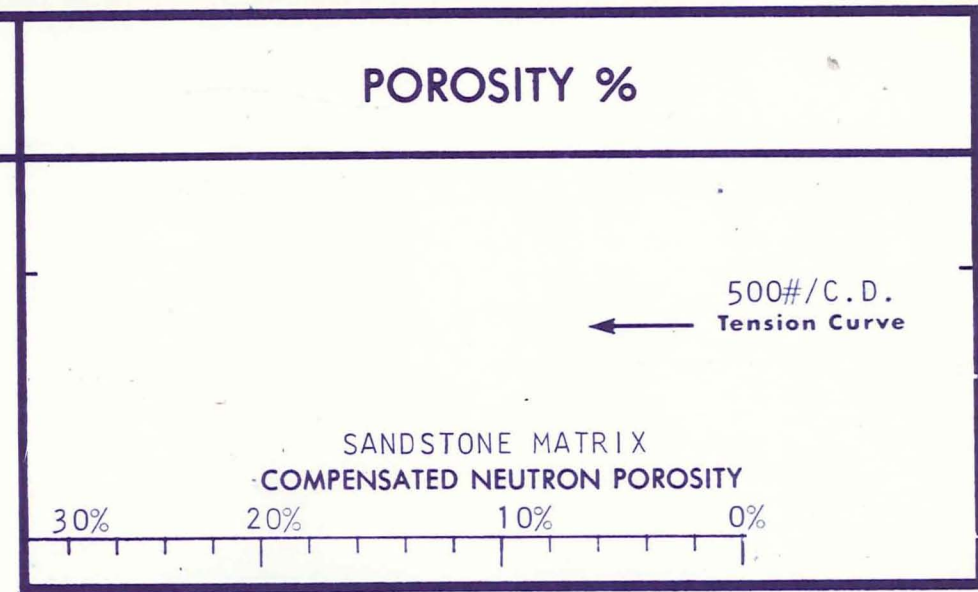
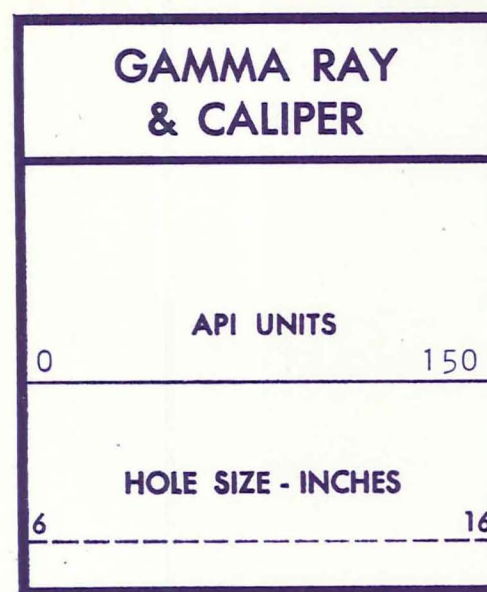


1800
1900

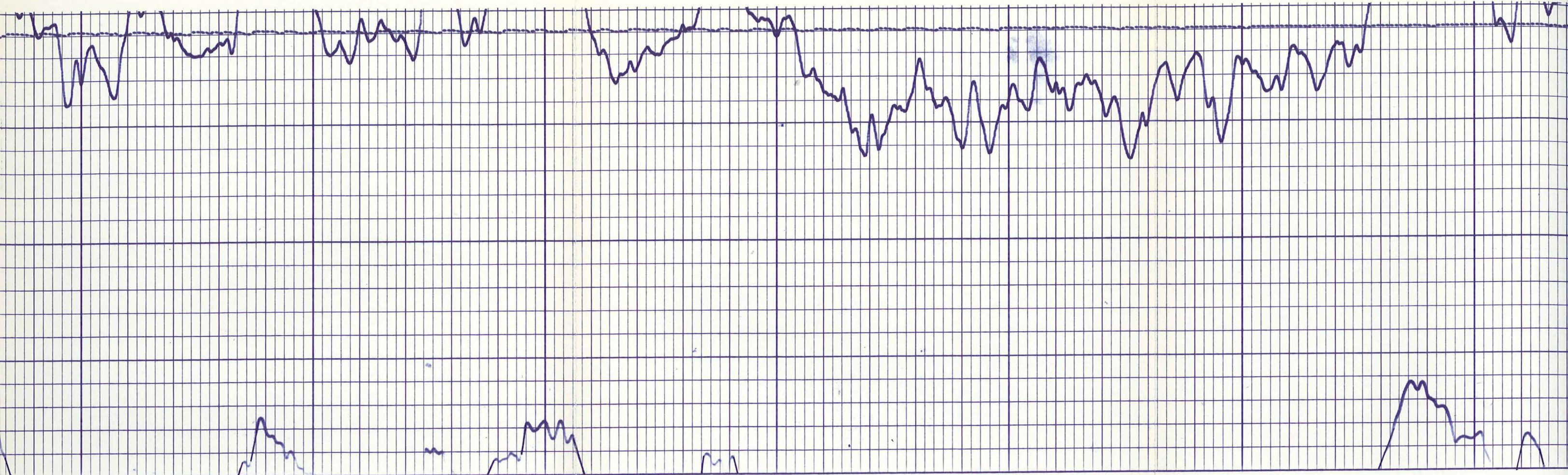


GAMMA RAY & CALIPER	DEPTH	POROSITY %
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Company	E.G. & G. IDAHO INC.	Drillers T.D.	1908
Well	R.R.G.I. #4	Log F.R.	1908
Field	RAFT RIVER GEOTHERMAL	Log T.D.	1909
County	CASSIA	Elevations:	
State	IDAHO	K.B.	4849
		D.F.	4848
		G.L.	4835



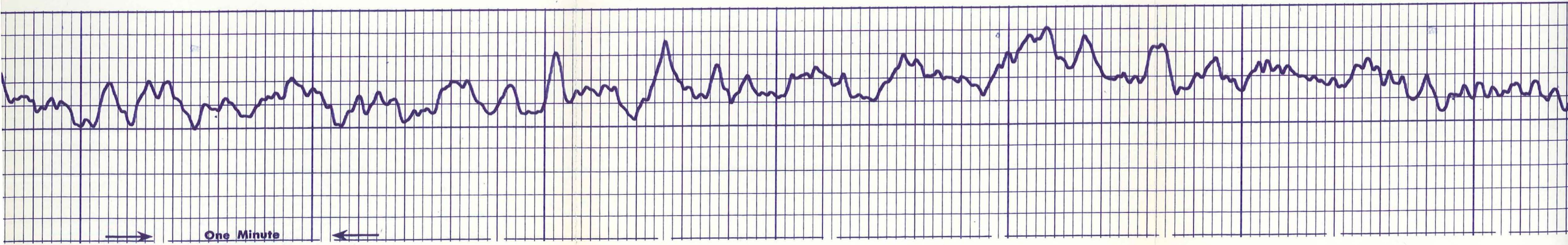
FORM 928280 A



500

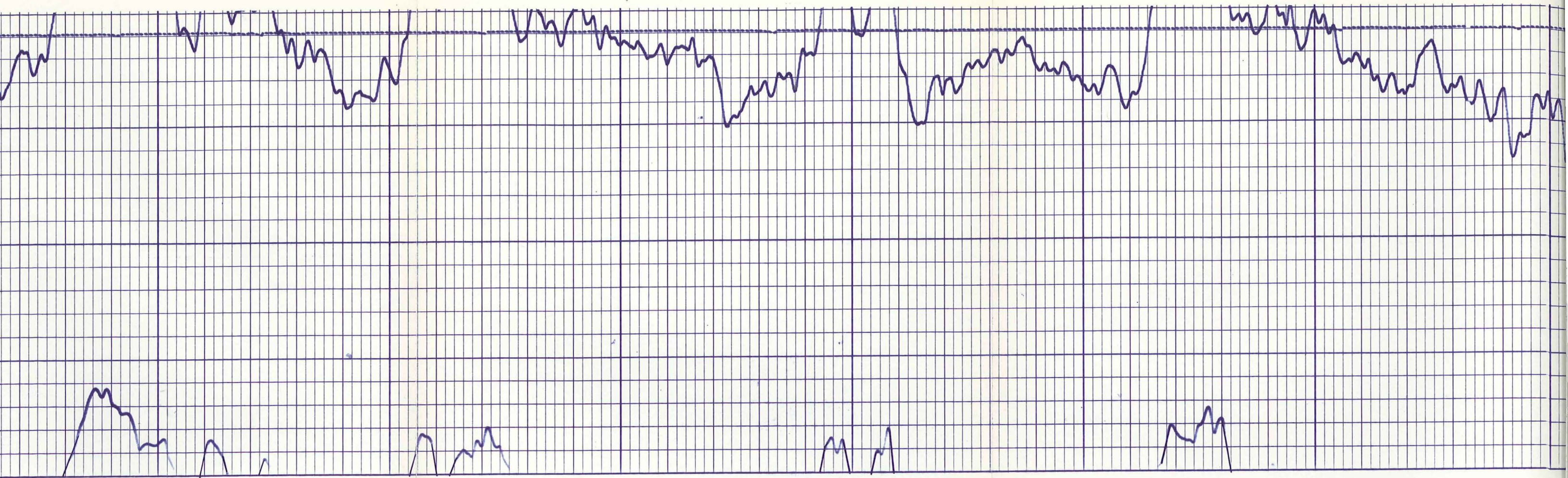
600

700



One Minute

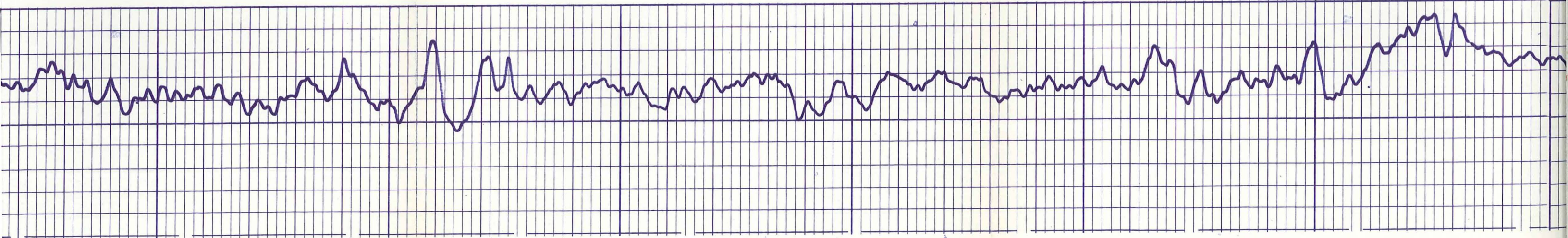


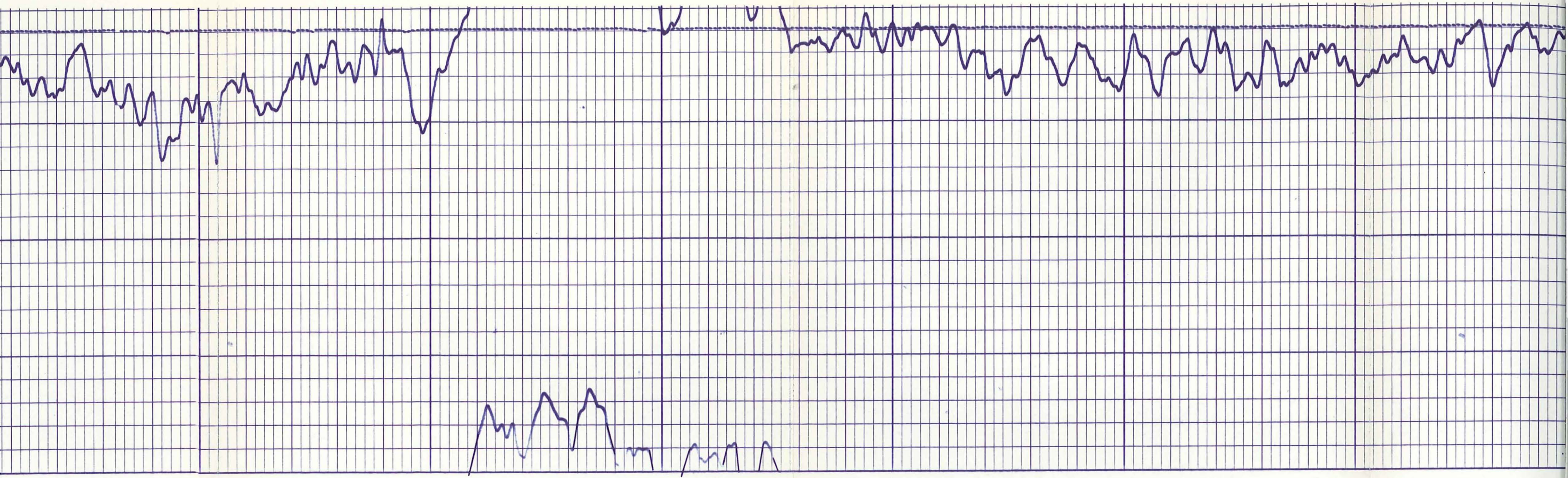


800

900

1000

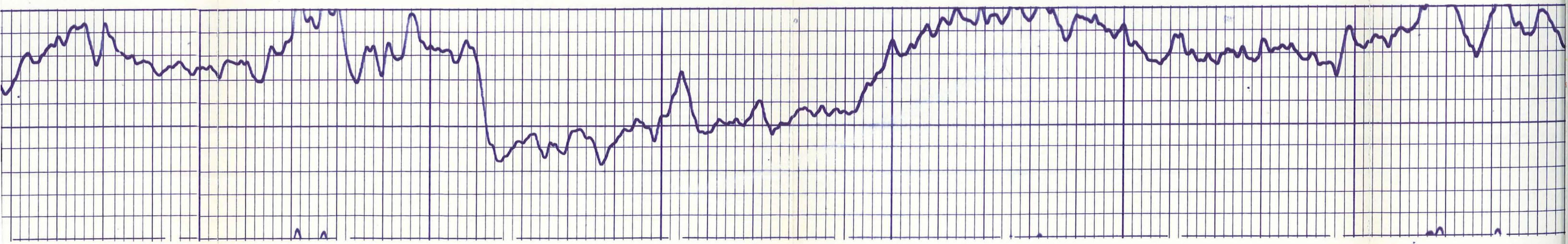


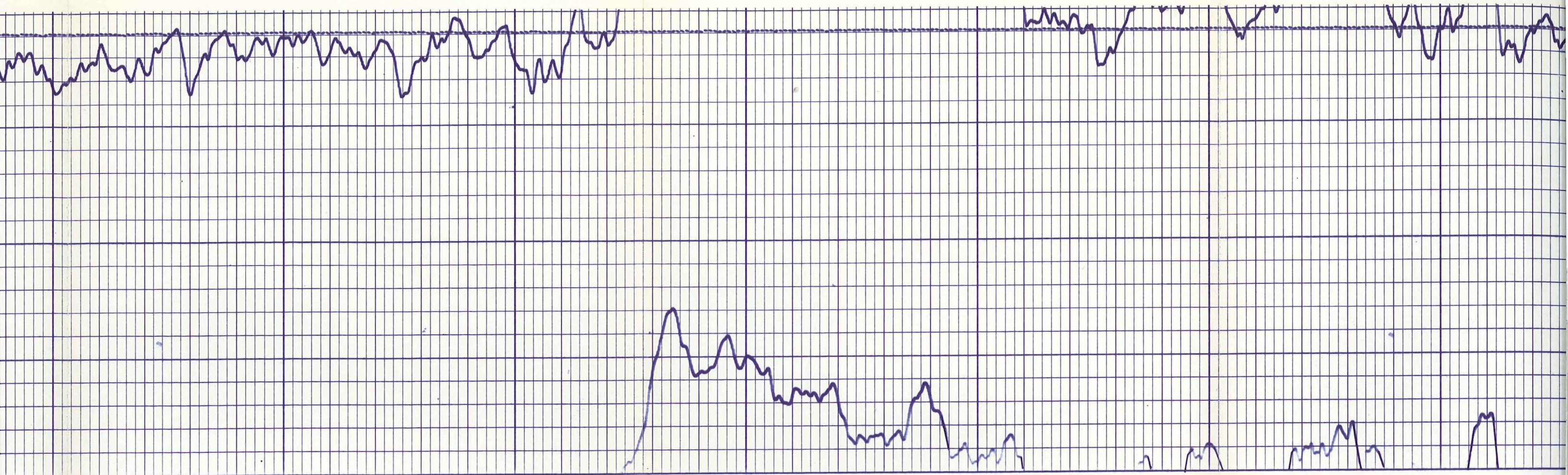


1100

1200

1300



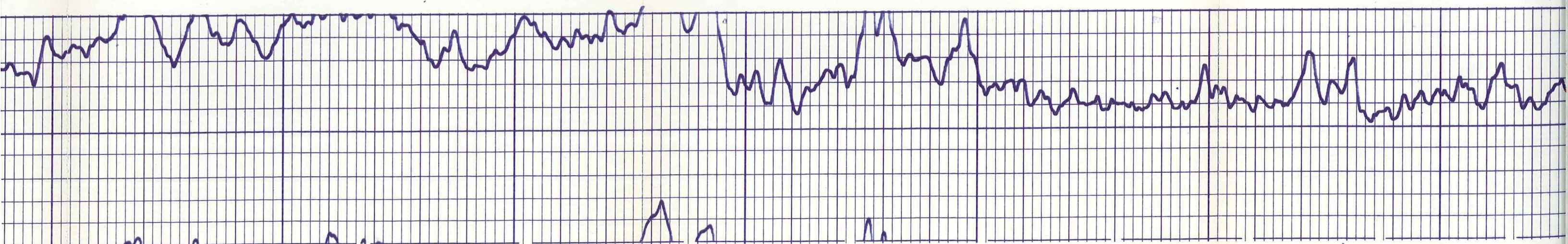


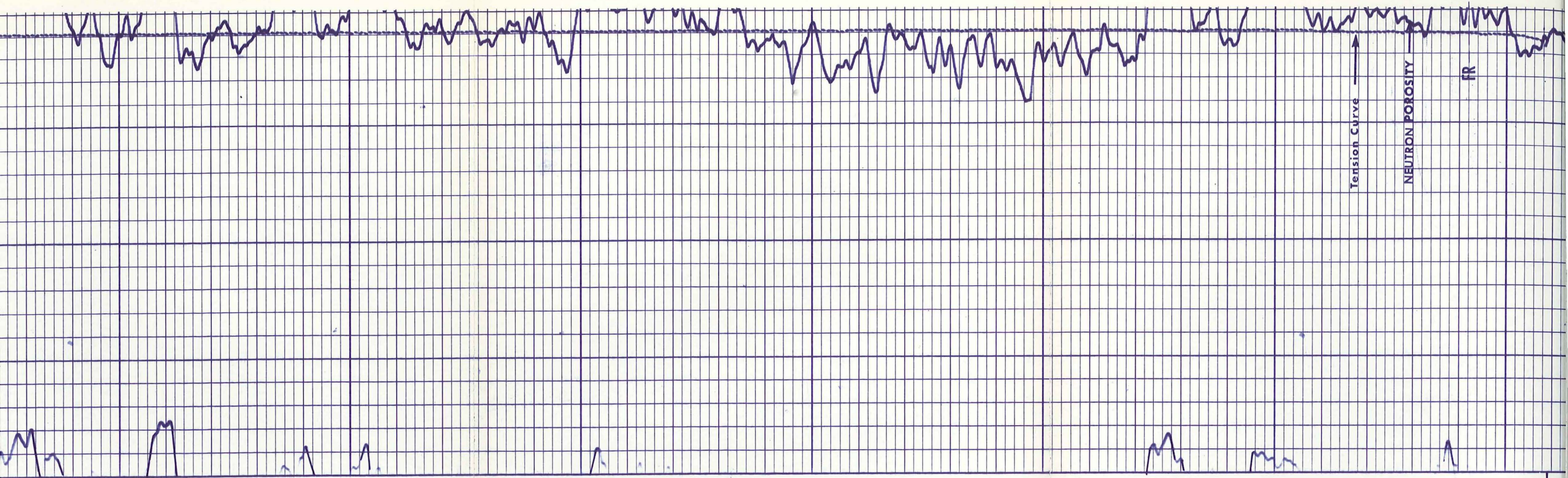
1300

1400

1500

1600



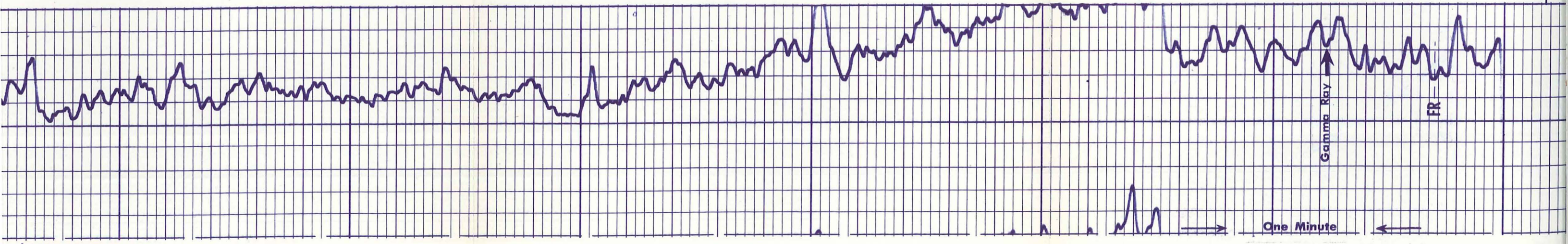


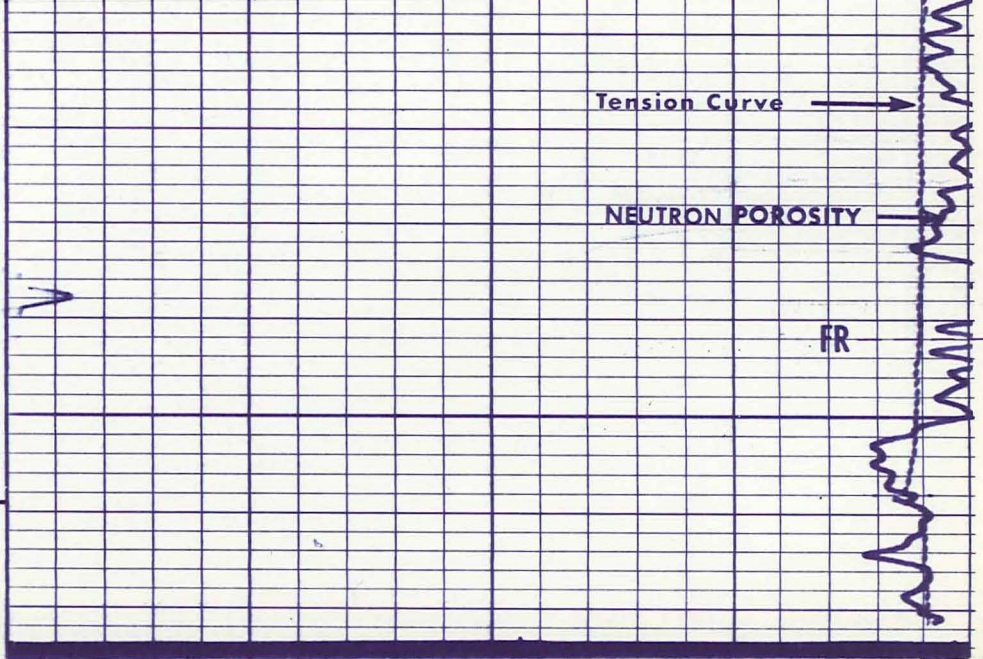
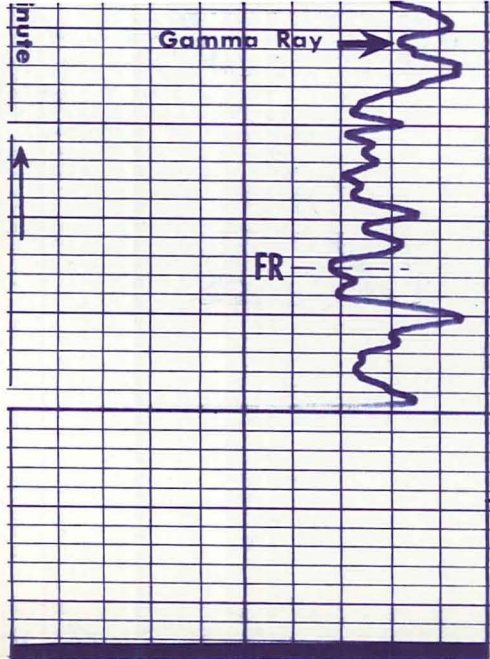
1600

1700

1800

1900





1900

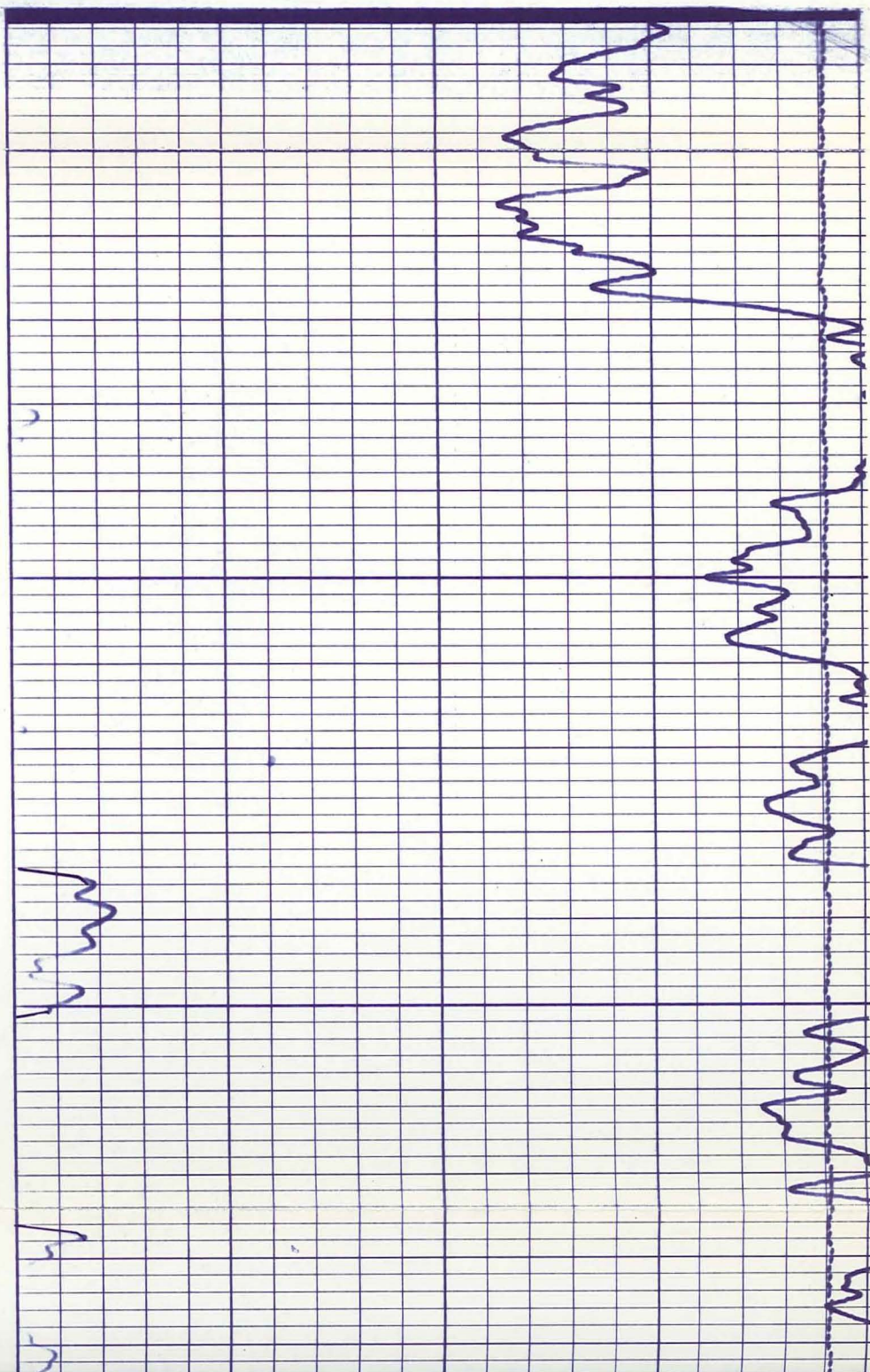
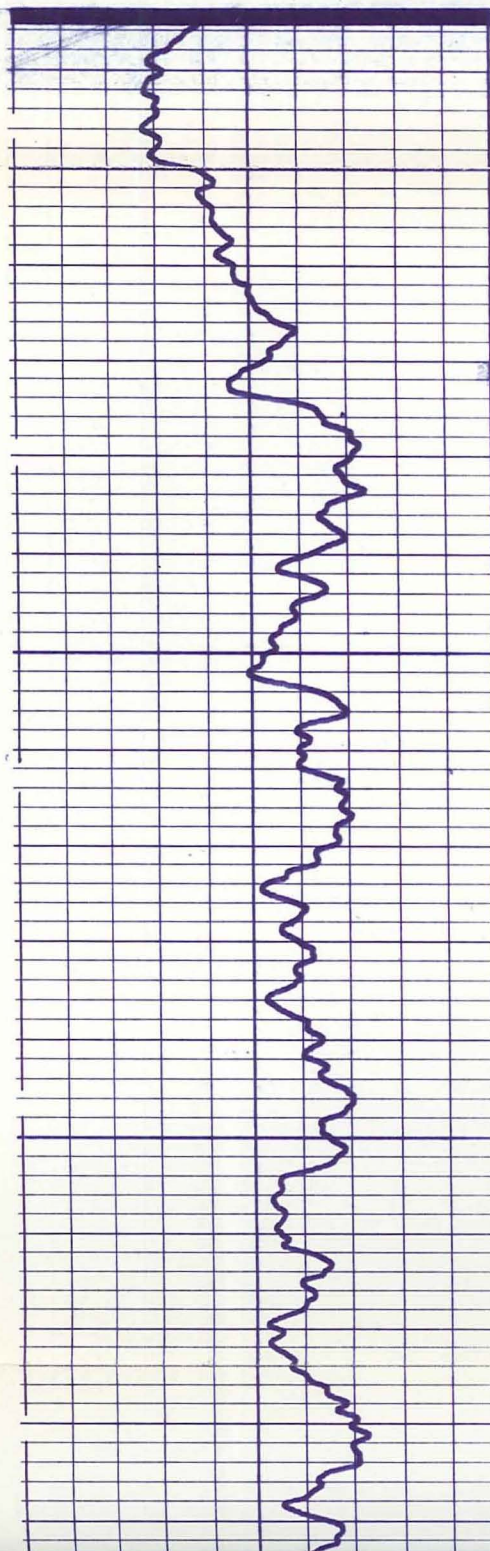
6	16
HOLE SIZE - INCHES	
0	150
API UNITS	



GAMMA RAY & CALIPER	DEPTH	POROSITY %
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County	CASSIA	Elevations:	
State	IDAHO	K.B.	4849
		D.F.	4848
		G.L.	4835

REPEAT SECTION



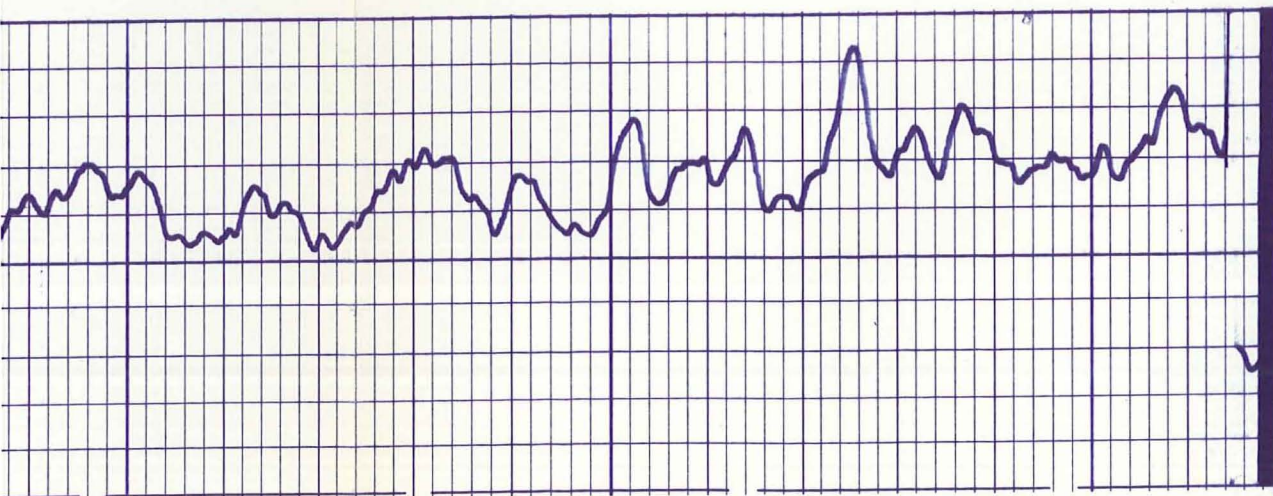
400

500

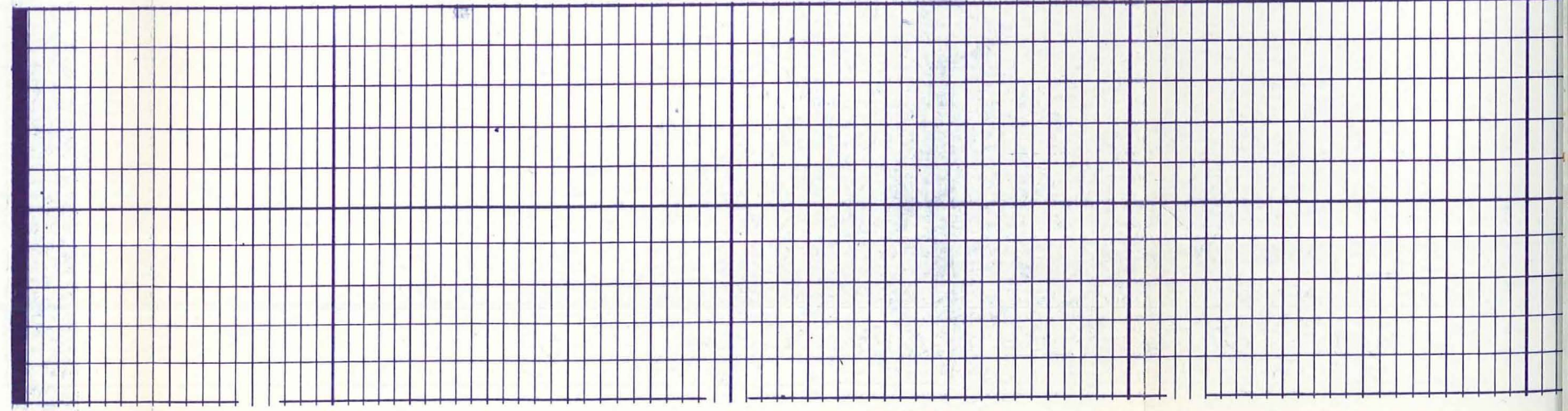
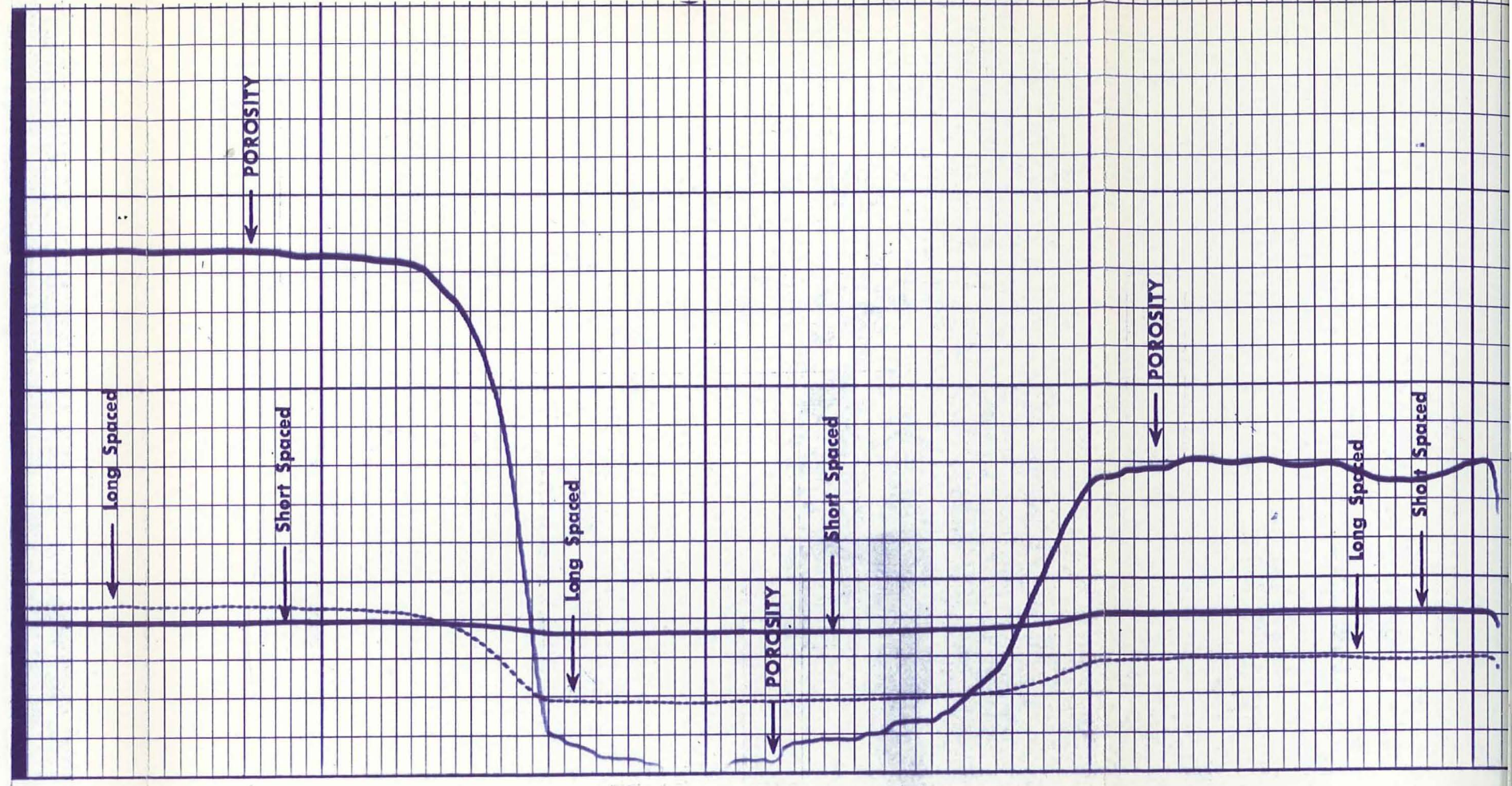


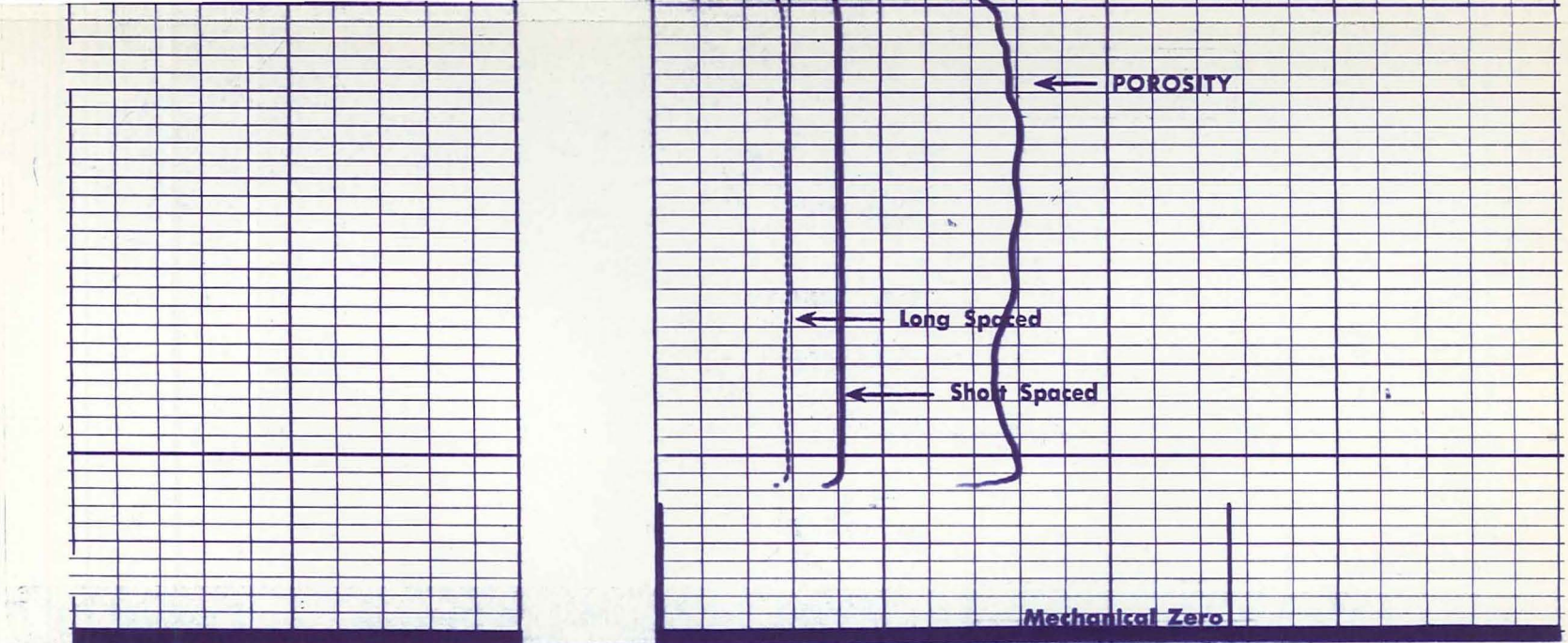
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600

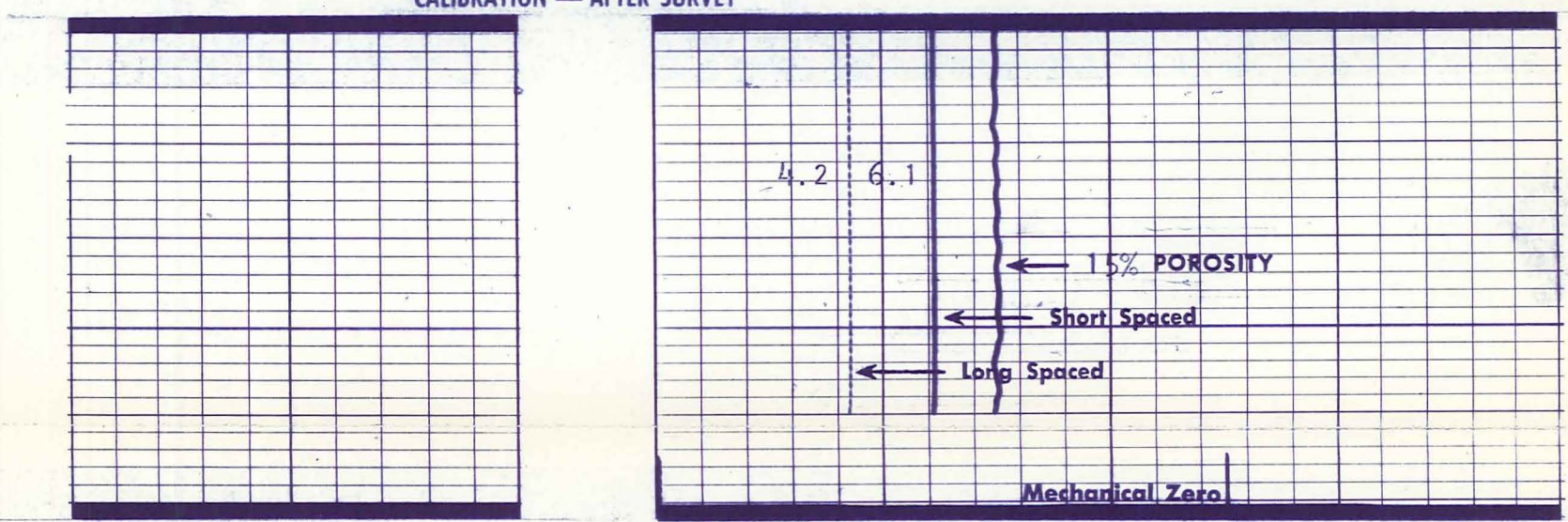


THREE POINT CALIBRATOR

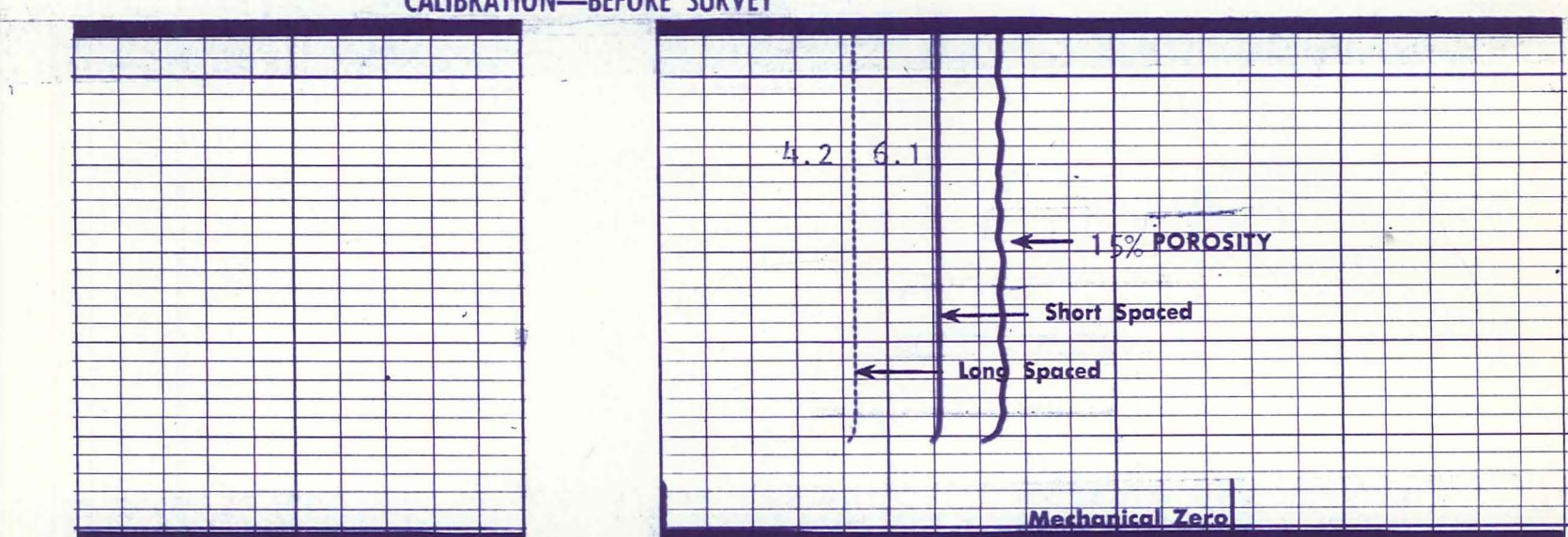




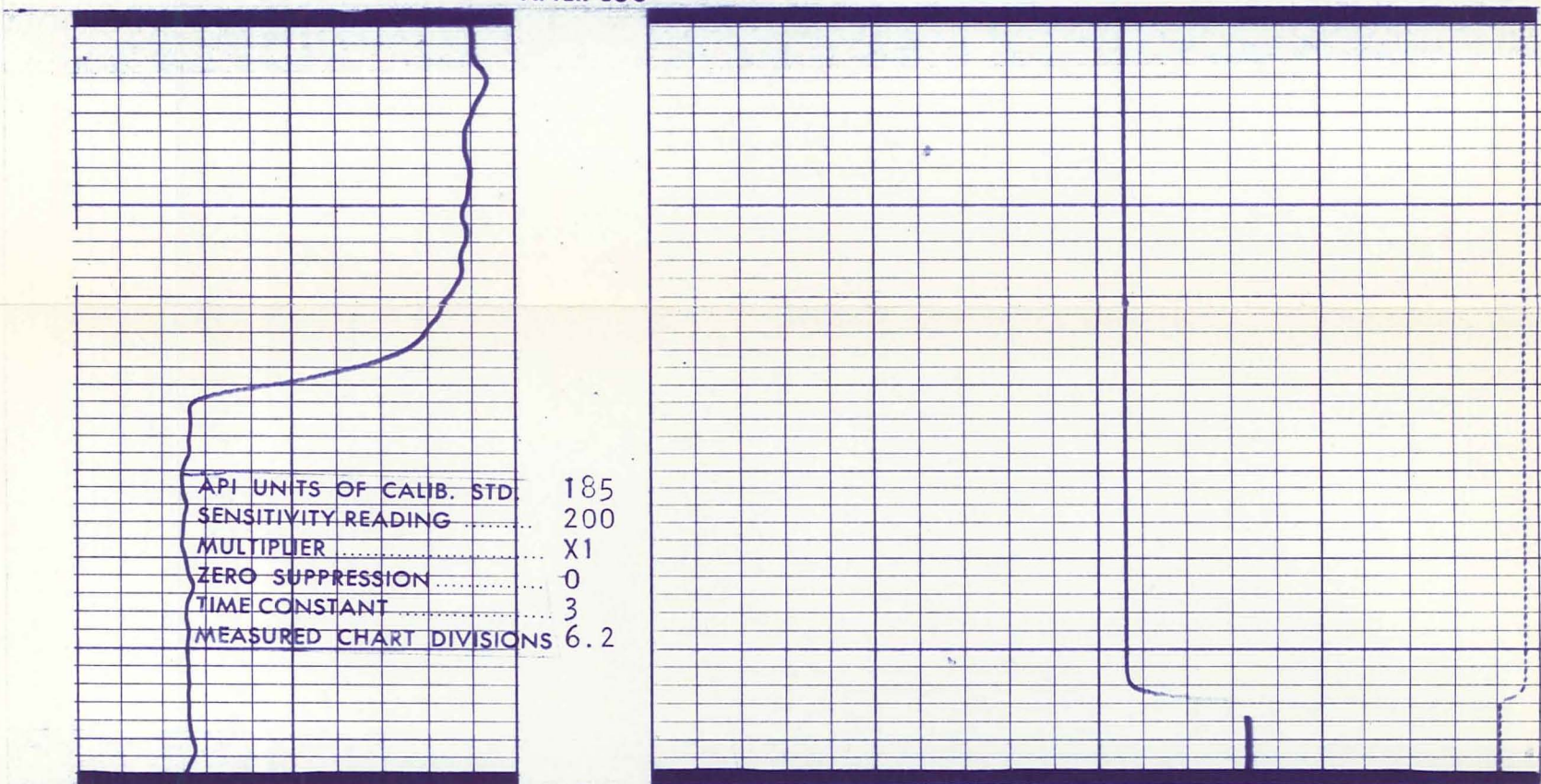
CALIBRATION — AFTER SURVEY



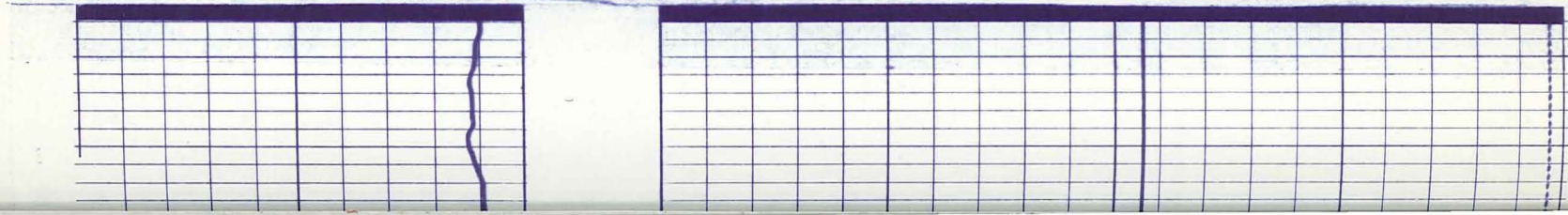
CALIBRATION — BEFORE SURVEY

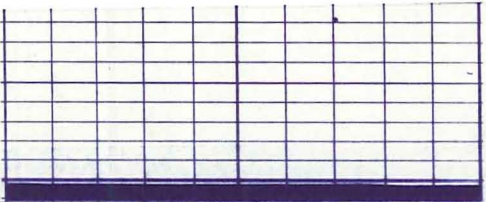


G/R LOG CALIBRATION AFTER LOG

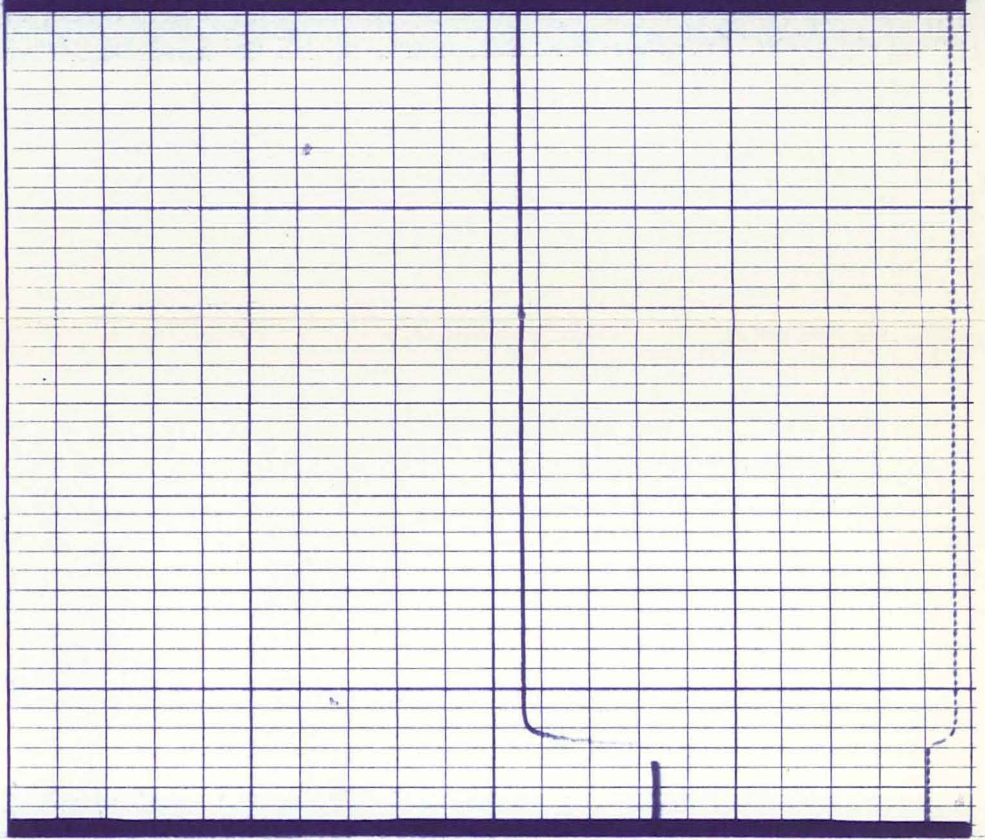
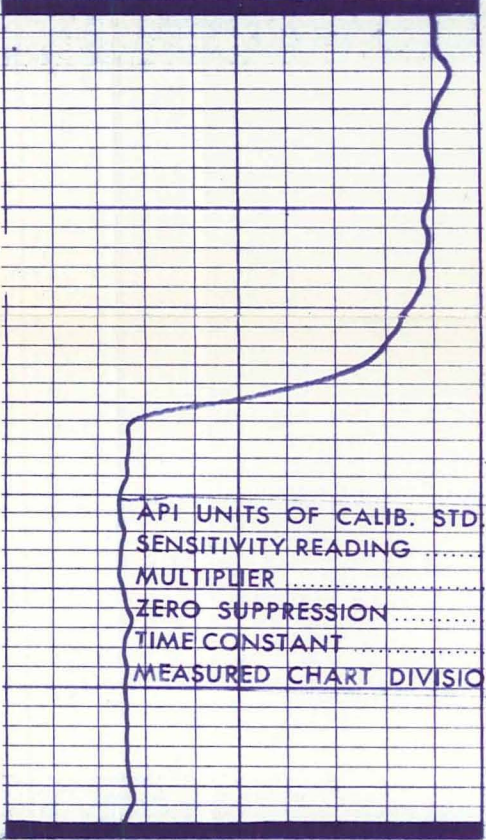


G/R LOG CALIBRATION BEFORE LOG



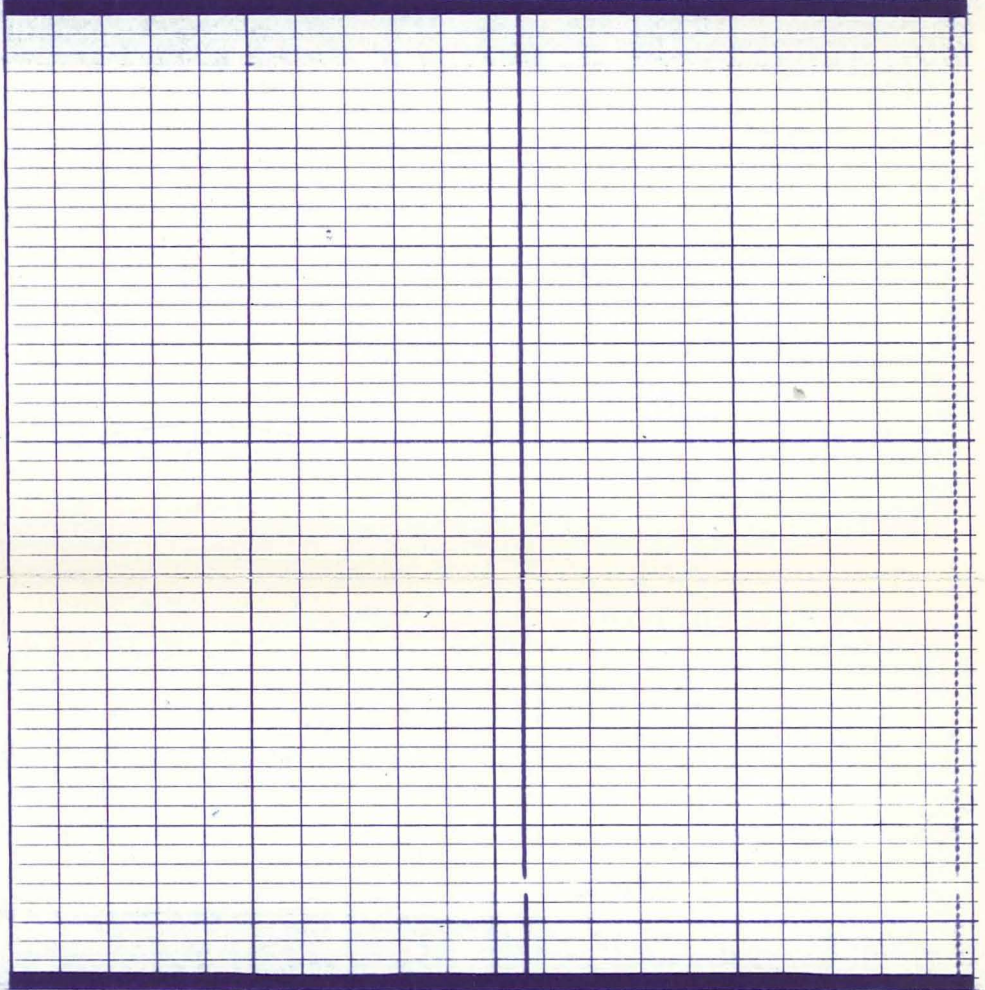
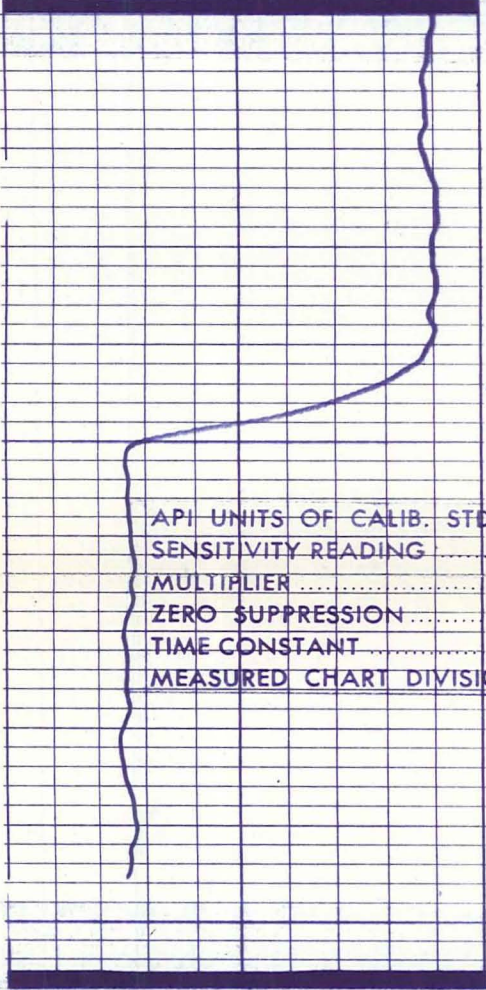


G/R LOG CALIBRATION
AFTER LOG



API UNITS OF CALIB. STD.	185
SENSITIVITY READING	200
MULTIPLIER	X1
ZERO SUPPRESSION	0
TIME CONSTANT	3
MEASURED CHART DIVISIONS	6.2

G/R LOG CALIBRATION
BEFORE LOG



API UNITS OF CALIB. STD.	185
SENSITIVITY READING	200
MULTIPLIER	X1
ZERO SUPPRESSION	0
TIME CONSTANT	3
MEASURED CHART DIVISIONS	6.2