602868

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY
FIELD or LOCATION
WELL
COMPANY

COMPANY STATE OF MISSOURI AND SHELL OIL CO
WELL TRAIL OF THE TEARS STATE PARK
FIELD W/C
COUNTY CAPE GIRARDEAU STATE MO

LOCATION SE SW NW NE
Sec. 15 Twp. 32N Rge. 14E

Other Services: NONE

Permanent Datum: GL, Elev. 640
Log Measured From GL, 0 Ft. Above Perm. Datum
Drilling Measured From GL

Elev.: K.B. —
D.F. —
G.L. 640

Date	26 MAY 70			
Run No.	ONE			
Depth—Driller	1140			
Depth—Logger	1121			
Btm. Log Interval	1118			
Top Log Interval	000			
Casing—Driller	10¾ @ 310	@	@	@
Casing—Logger	313			
Bit Size	8"			
Type Fluid in Hole	FRESH H2O			
Dens. | Visc.	— | —			
pH | Fluid Loss	— | — ml	ml	ml	ml
Source of Sample	NONE			
R_m @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	— | —			
R_m @ BHT	— @ — °F	@ °F	@ °F	@ °F
Time Since Circ.	NONE			
Max. Rec. Temp.	75°EST °F	°F	°F	°F
Equip. | Location	5082 | 3302			
Recorded By	KOWALSKI			
Witnessed By	SATTERFIELD			

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

REMARKS

Changes in Mud Type or Additional Samples		
Date | Sample No.		
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.		
ph | Fluid Loss	ml	
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}		
R_m @ BHT	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Pos.	Other

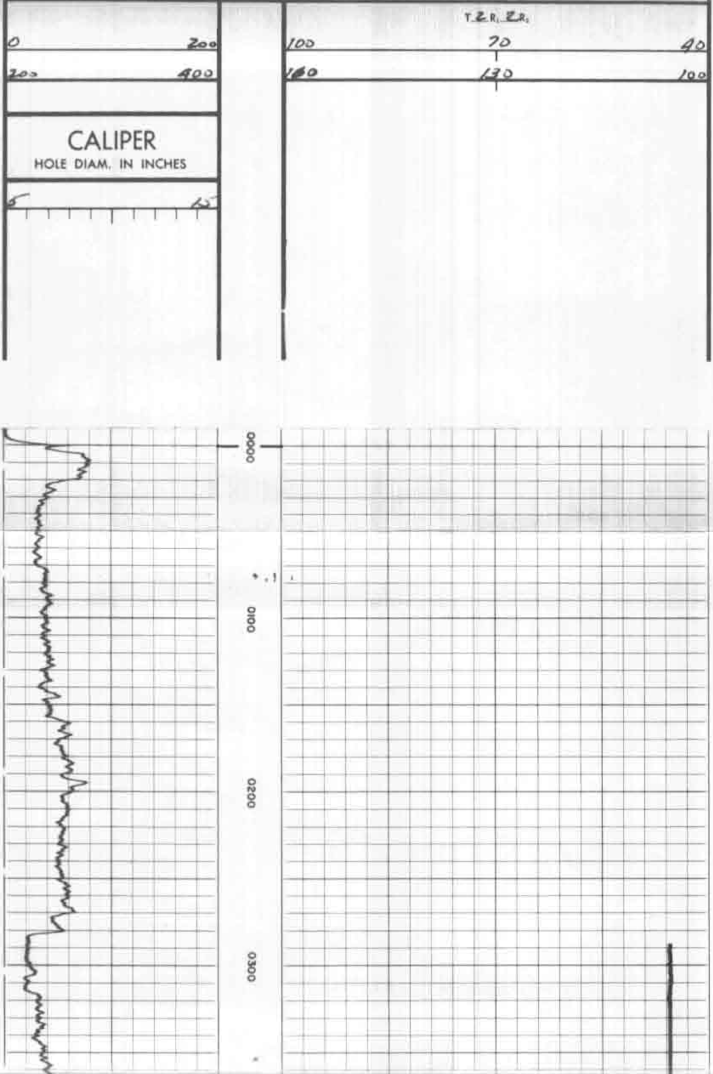
C.D.: YES S.O.: NO
Equip. Used: CART. No. SLC-B 382
PANEL No. SLP-C 380
SONDE No. SLS-D 436

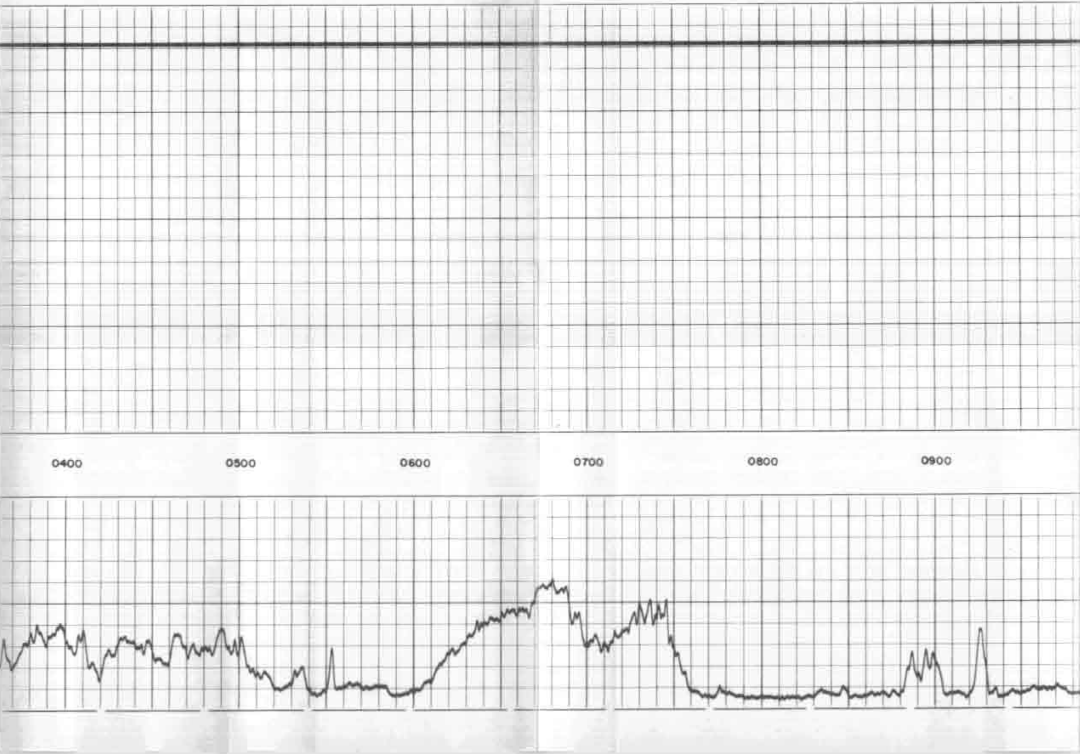
CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:	310	1020	8.25	500	500	1	60

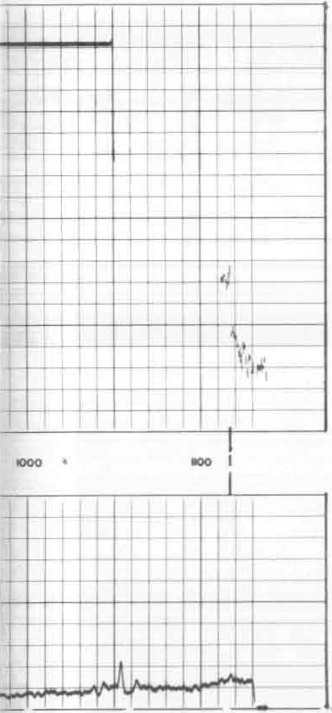
NOTE: GAMMA RAY RUN SEPERATE DUE TO EQUIPMENT INCOMPATABILITY.

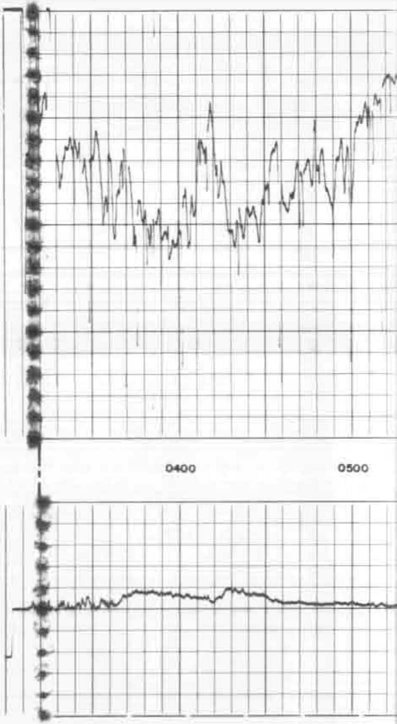
$$\text{Velocity (feet per second)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

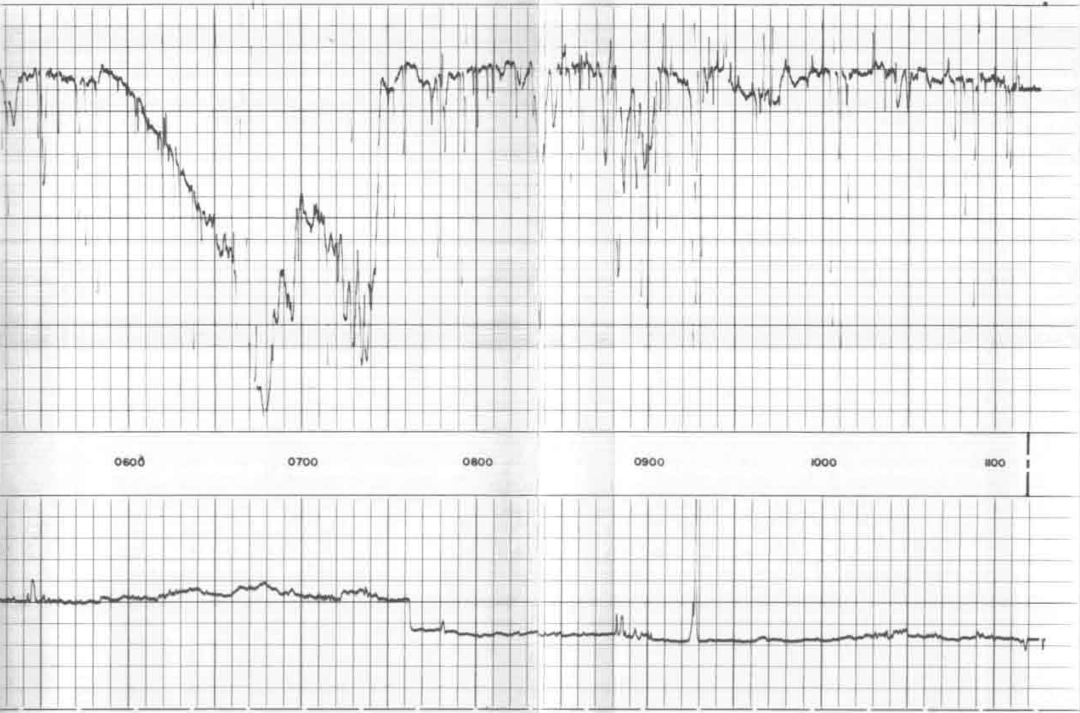
GAMMA RAY API UNITS	DEPTHS	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT

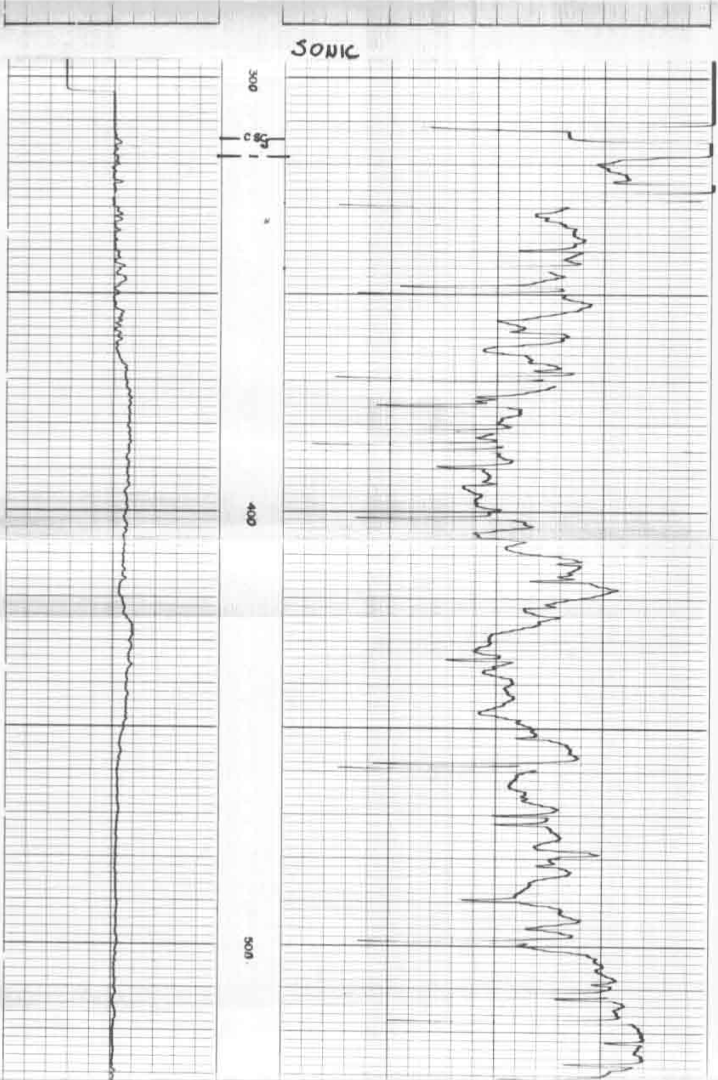


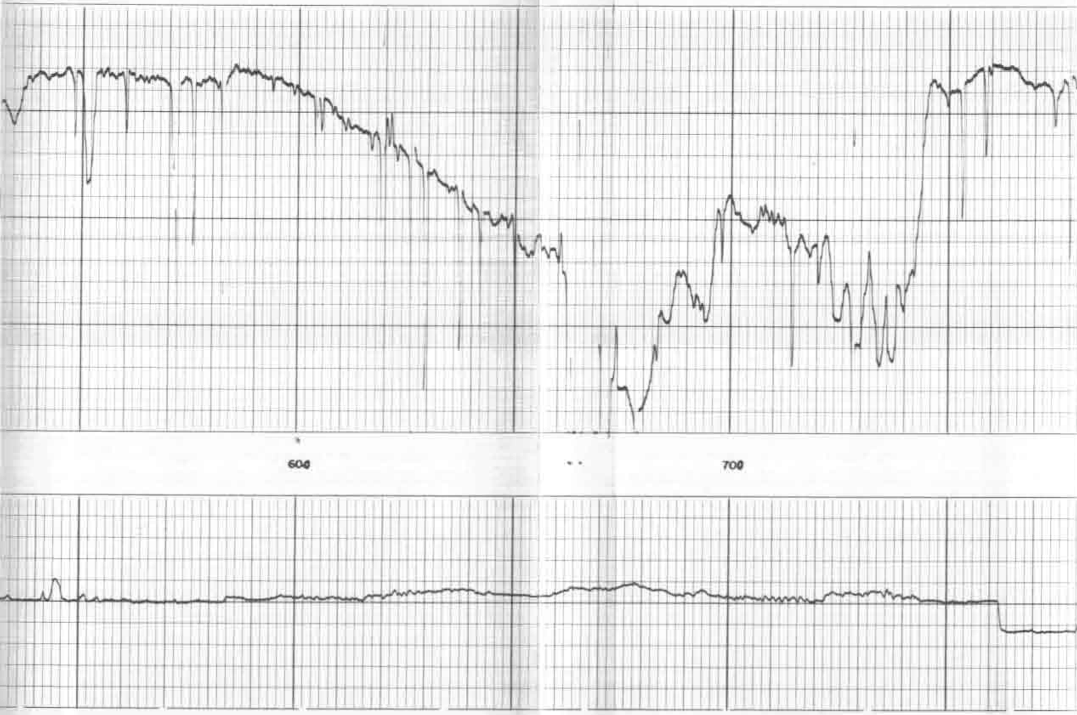


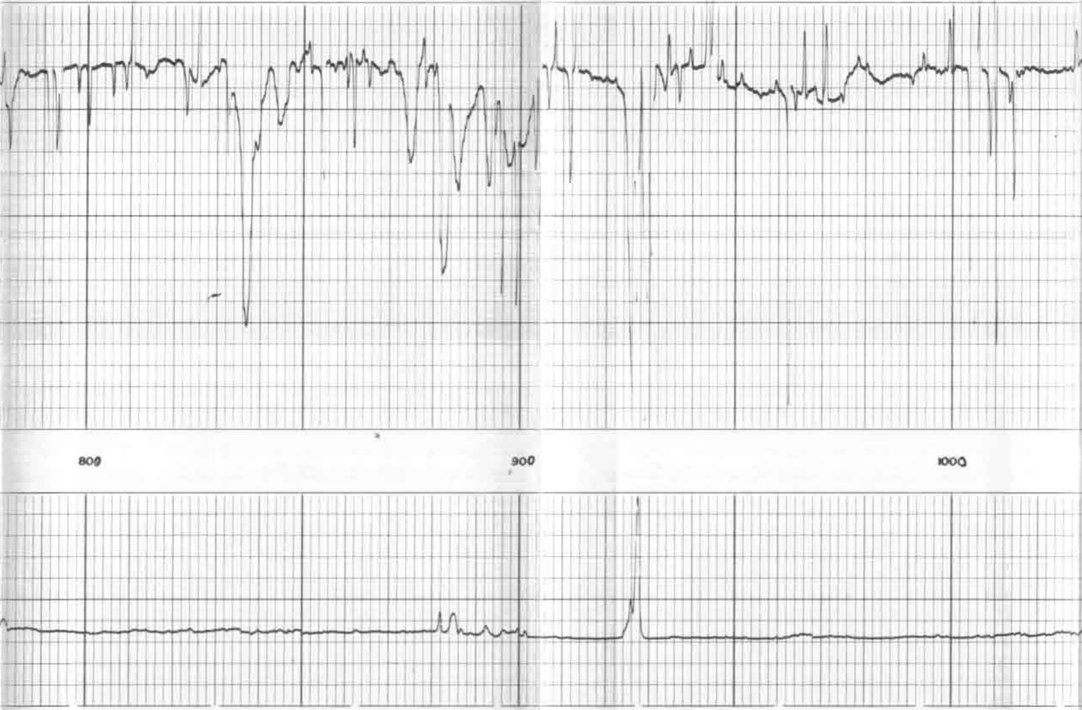


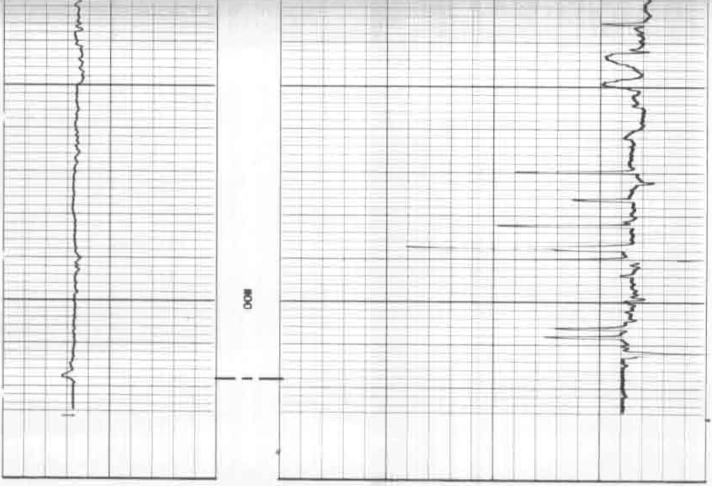




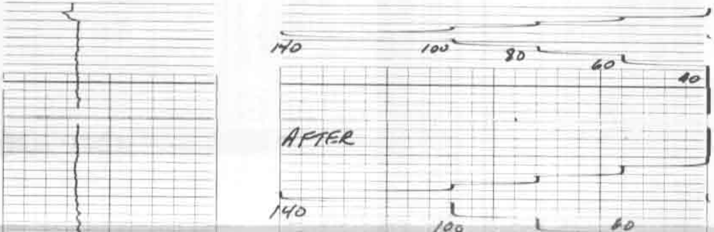


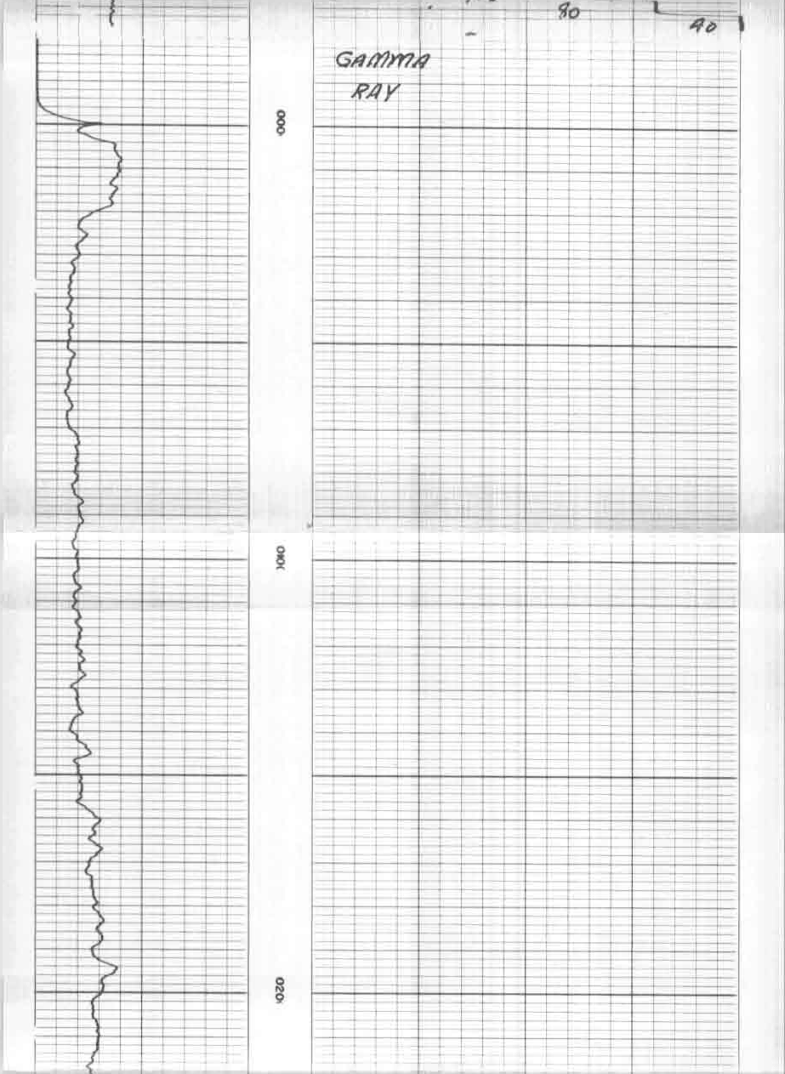


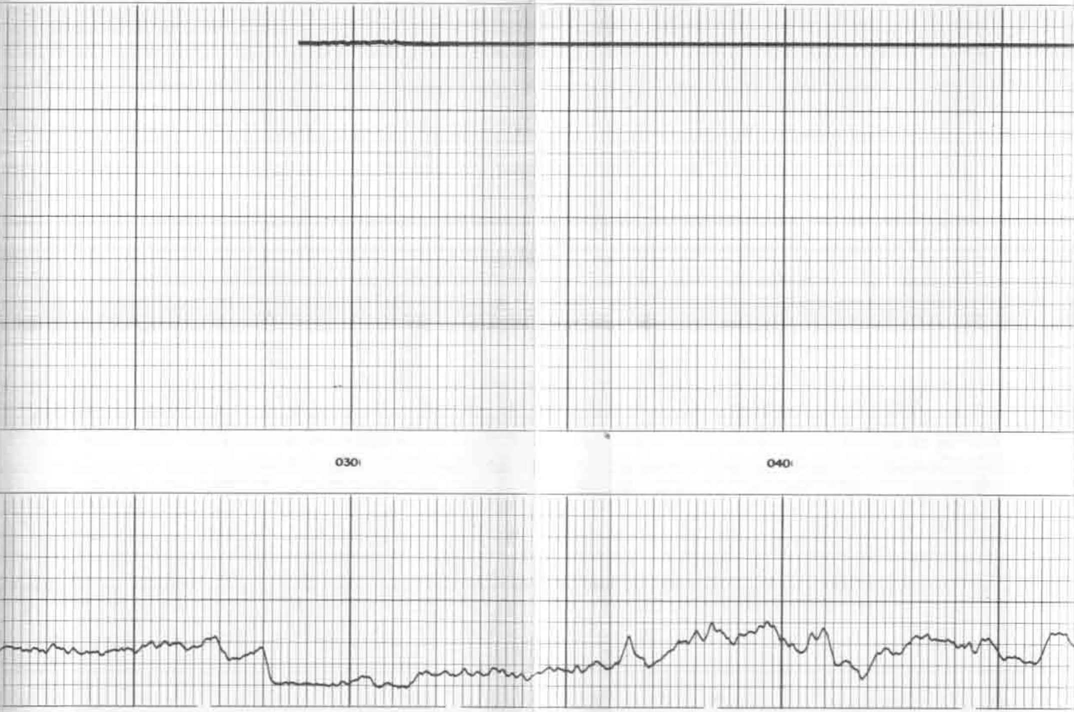


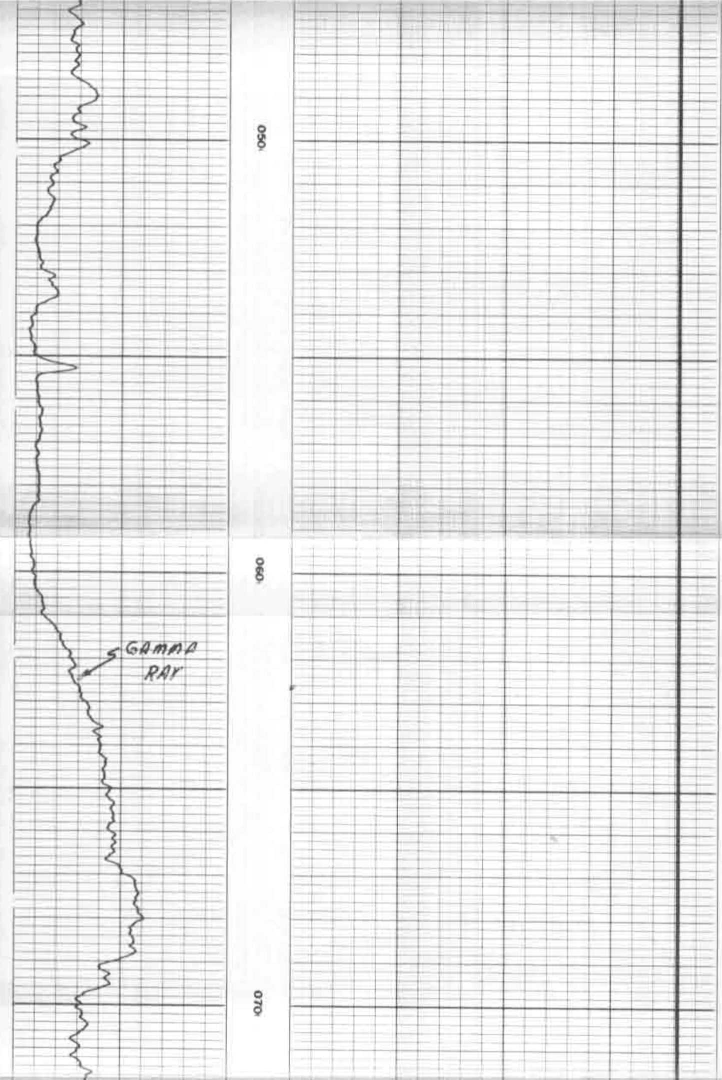


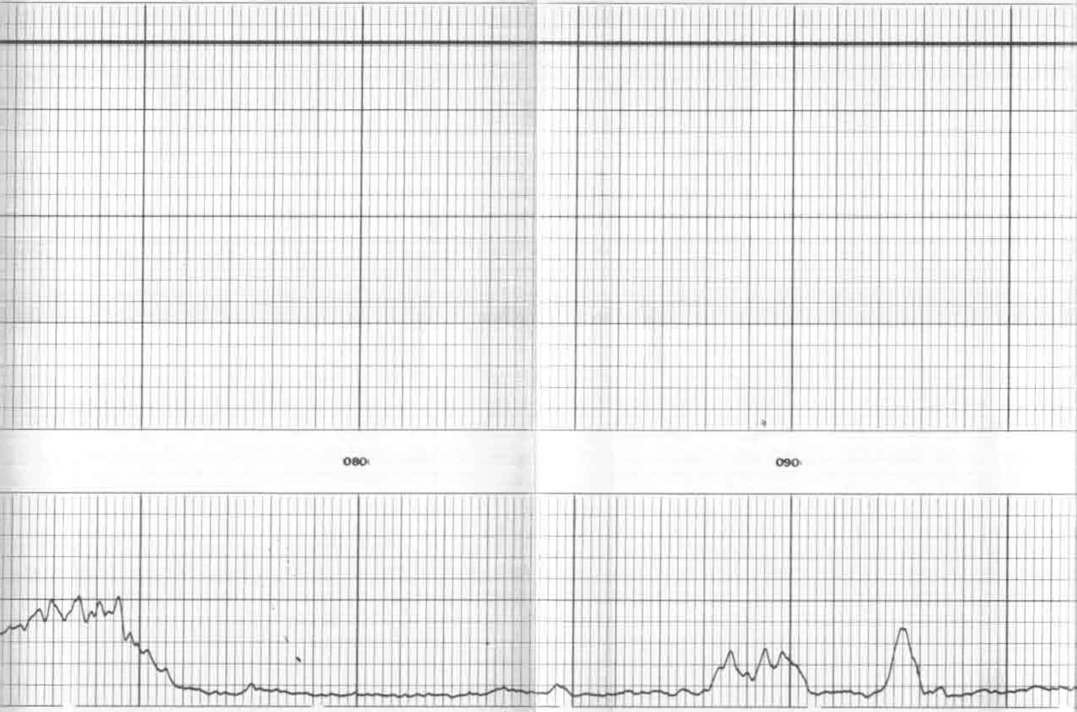
CALIBRATIONS

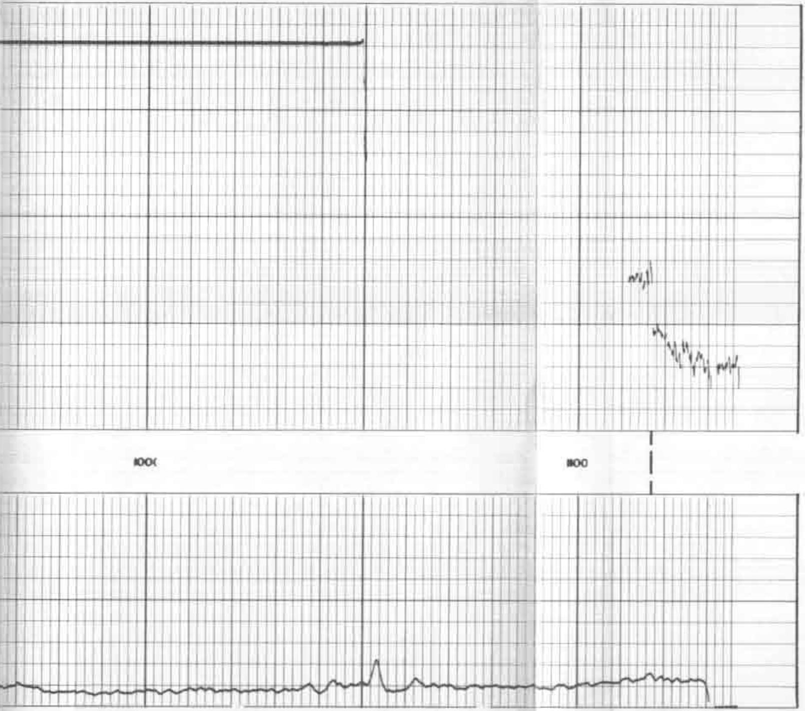


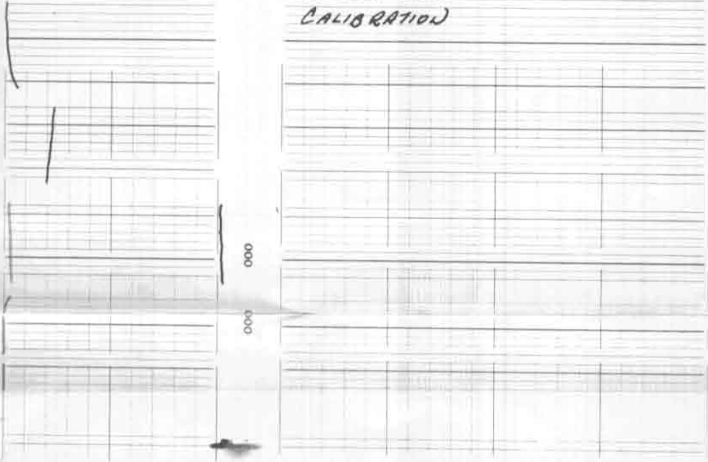










GAMMA RAY
CALIBRATION