Schlumberger

DUAL SPACING THERMAL NEUTRON DECAY TIME

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 3-6N-5W
WELL COLUMBIA COUNTY 10
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY 10

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 1976'N & 1065'E FROM THE SW CORNER OF:

API SERIAL NO	SEC	TWP	RANGE
	3	6N	5W

Other Services:

Permanent Datum: GL ; Elev.:
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1099.7
D.F.
G.L. 1089.2

Date	6-10-82			
Run No.	THREE			
Depth—Driller	2900			
Depth—Logger (Schl.)	2680			
Btm. Log Interval	2658			
Top Log Interval	1000			
Type fluid in hole	GAS			
Salinity ppm Na Cl.	-			
Density	-			
Fluid level	-			
Max. rec. temp., deg F.	-			
Operating rig time	-			
Truck no. / D Truck no.	5774 / 4612			
Location	BKS CH			
Recorded by	MOFFETT			
Witnessed by	STINSON			

RUN No.	BORE-HOLE RECORD			CASING & TUBING RECORD				
	Bit	From	To	Size	Wgt.	Remarks	From	To
1	6-1/4	437	2983	2-3/8	4.7		SURF	2636
				4-1/2	10.5		SURF	TD

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

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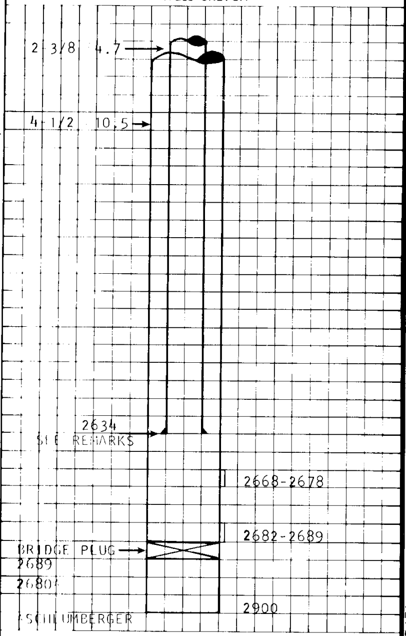
Log depths of these records relate to:
Schlumberger line measurements ☐
Correlated by Radioactivity Log measurements ☒

WELL SKETCH



Indicate: Hole deviation in production zone. Open hole diameter Diameter and weight of casing and tubing. Position, nature and date of perforations (bullets, SC, capsules etc.) Depth of all plugs and packers. Annulus fluid type.

EQUIPMENT DATA

Run No.	THREE	
Logging Unit	5774	
Location	4405	
TNP-	LA-57	
CAL-	QB-363	
TNC-	KB-405	
TNC-	KB-406	
TND-	KC-408	
TNC-		

Time		
Run No.	THREE	
Service Order No.	183755	
Fluid Type in Tbg-Csg Annulus	GAS	
Annulus Fluid Salinity, ppm Na. Cl	-	
Estimated Cement Top	-	
Source of Cement Top	-	

ING-			
SGT-	SHF-CA-479		

Sigma Produced water	-		
Source of Sigma $_w$	-		
Csg Collars Recorded	23 ft. DEEP	ft.	ft.
Perforations			

CALIBRATION DATA

Run No.			THREE		
TYPE LOG	GR	BKG. CPS	65		
		Source CPS	-		
		Tc	4		
	TDT NEAR (N3)	BKG. CPS	0		
		Source CPS	480		
	TDT FAR (F3)	BKG. CPS	0		
		Source CPS	680		

REMARKS: 2674 TO 2660 WAS NOT LOGGED DUE TO PROBLEMS ENCOUNTERED DURING TIE-IN RUN. LOWER PERFS 2682-2689 COULD BE COVERED BY APPARENT MOVEMENT OF BRIDGE PLUG.

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.

RUN NUMBER →	THREE								
PASS NUMBER →	ONE								
DATE	6-10-82								
WELL CONDITION	SHUT								
OIL RATE (SURF)	-								
GAS RATE	-								
WATER RATE	-								
WELLHEAD PRESSURE	390								
BOTTOM LOGGED INTERVAL	2660								
TOP LOGGED INTERVAL	1000								
SPEED	900/1800								
TIME CONSTANT	4/2								

BACKGROUND FAR cps
0 1000

GAMMA RAY API UNITS
0 150

0.1 QUALITY 1.1

DEPTH

NEUTRON CAPTURE CROSS SECTION Σ, capture units (cu = $10^{-3}cm^2/cm^3$)
60 30 0

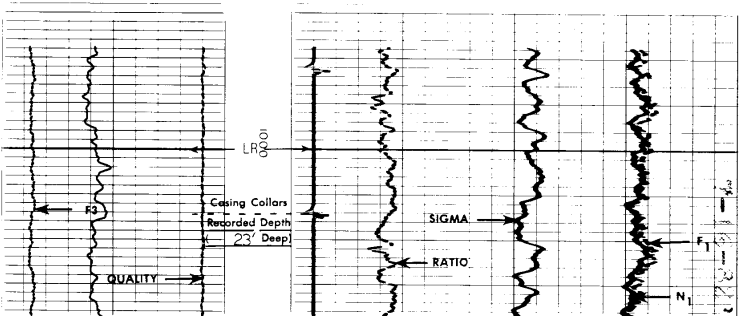
RATIO
6 1

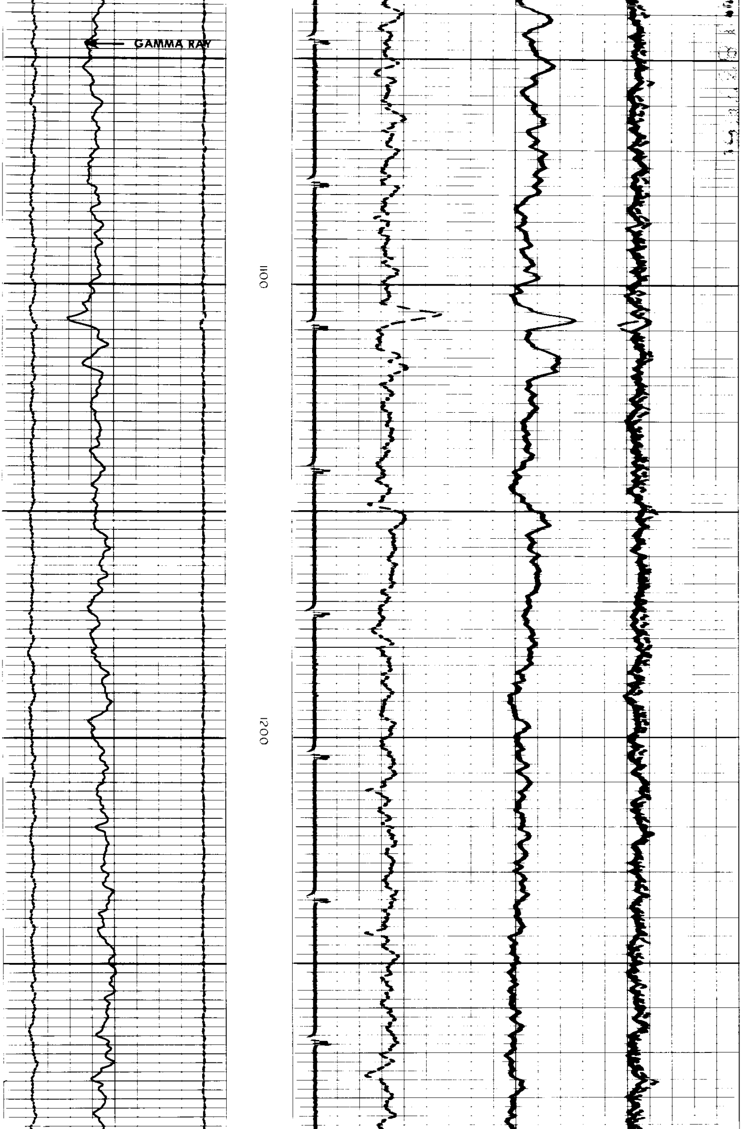
Casing Collars

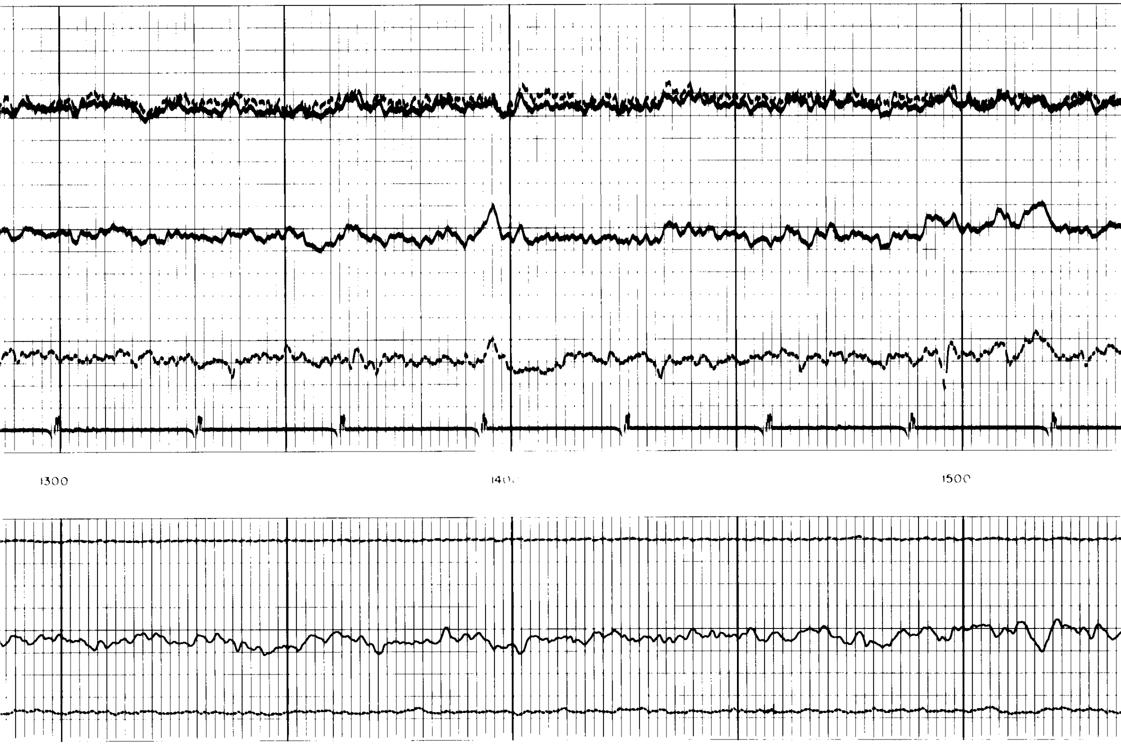
Recorded collars
Memorized collars
corrected depth
Recorded collars

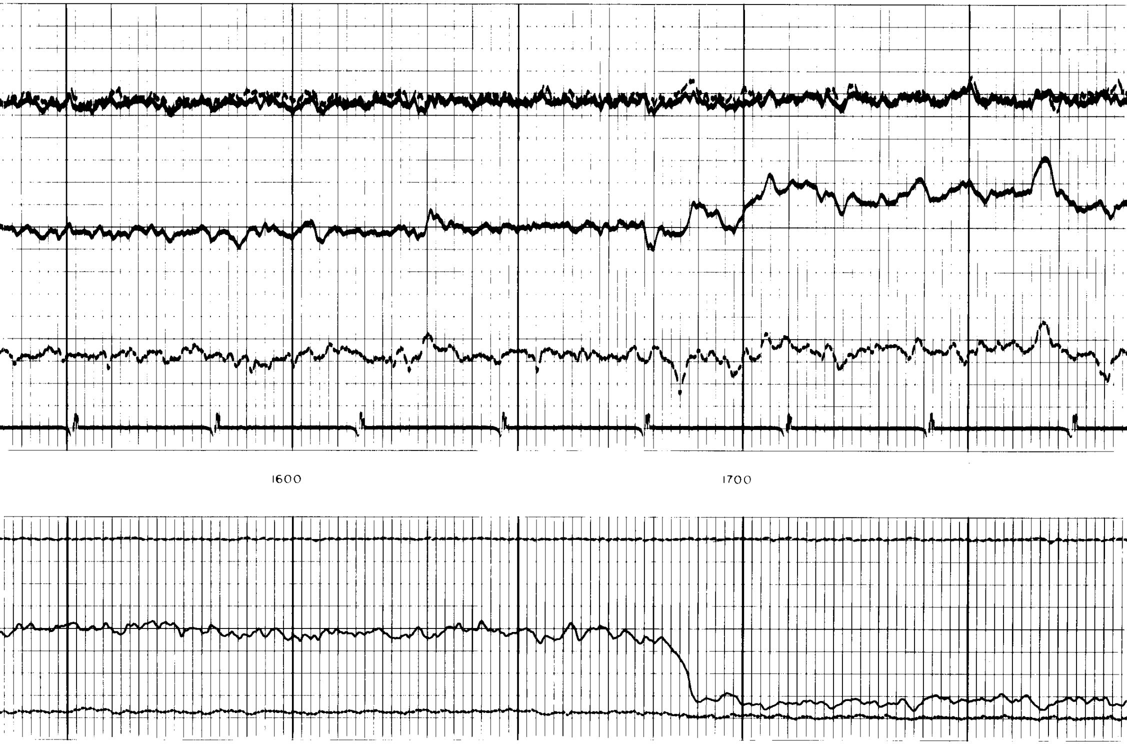
FAR cps
1000 0

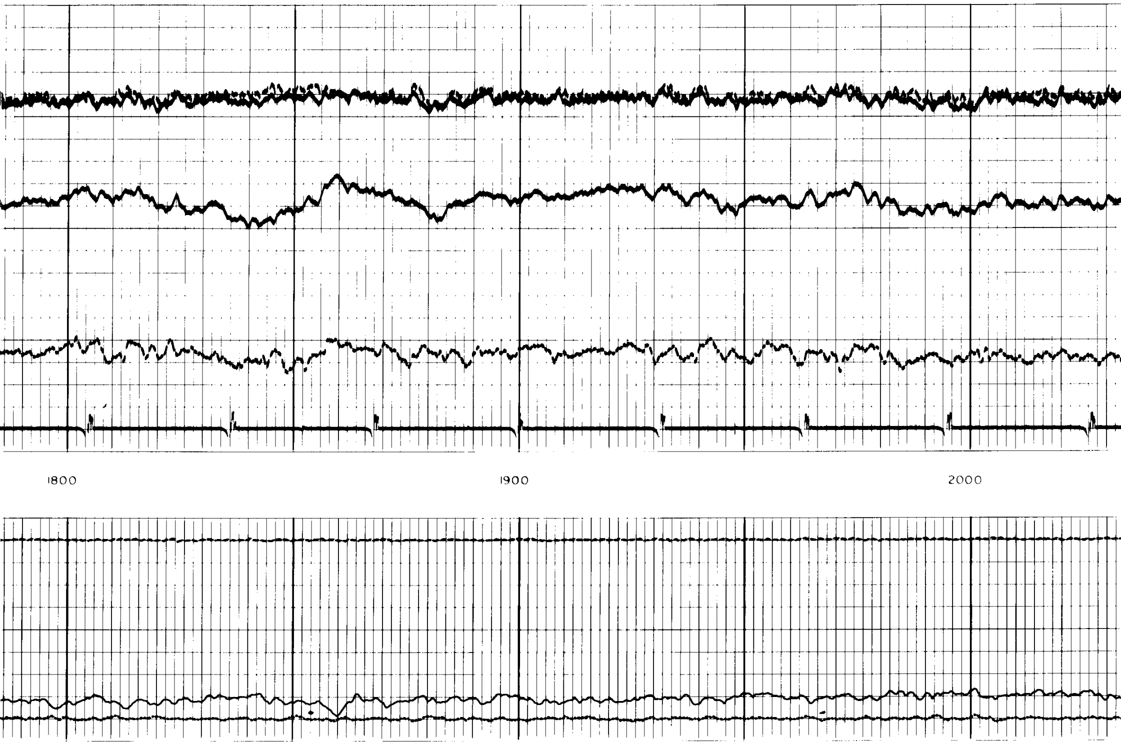
NEAR cps
6000 0

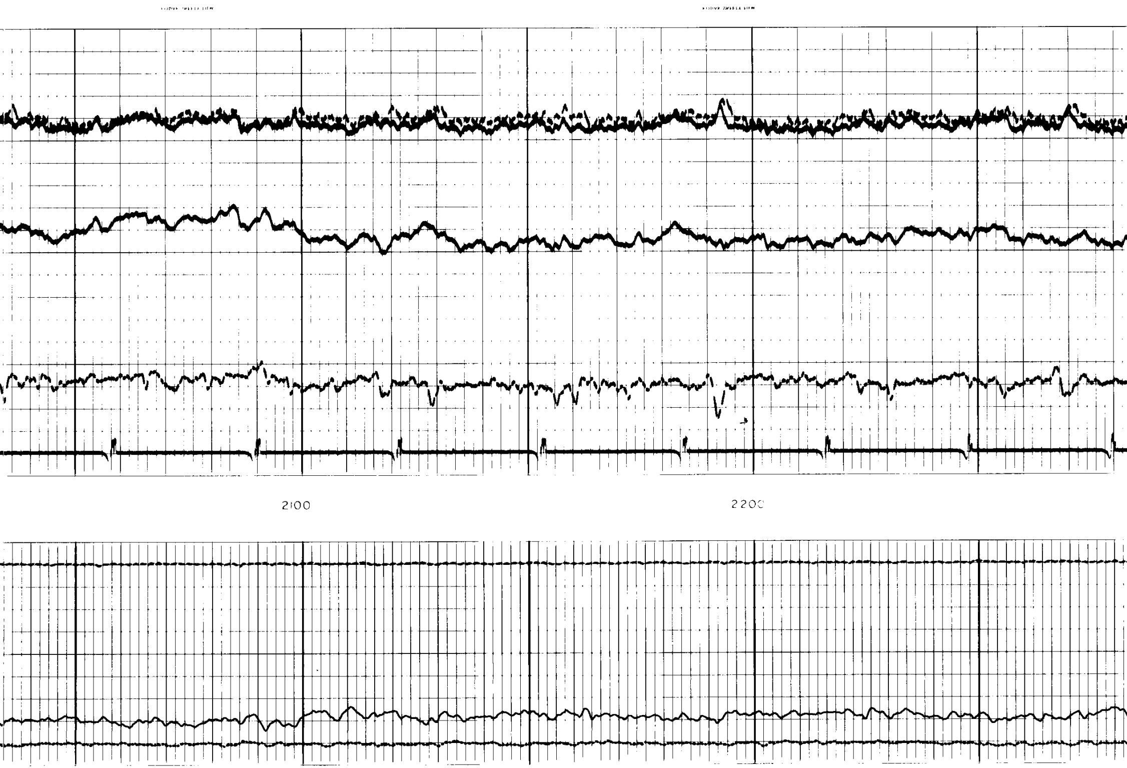


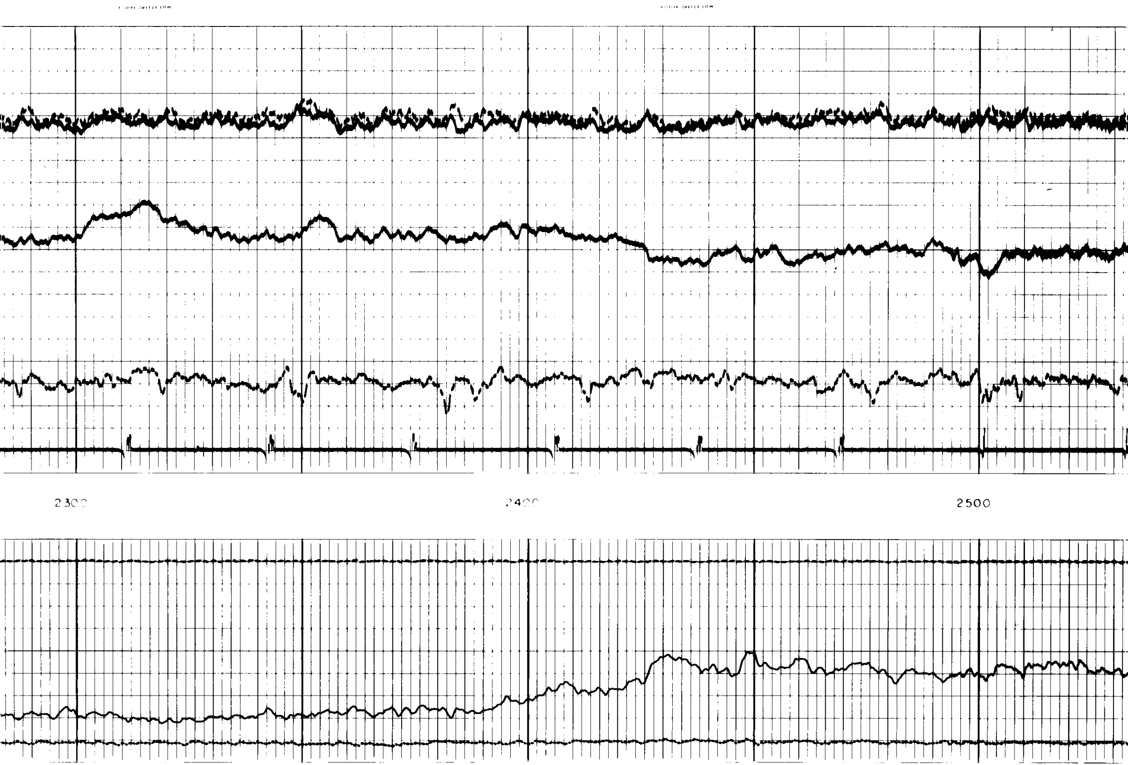


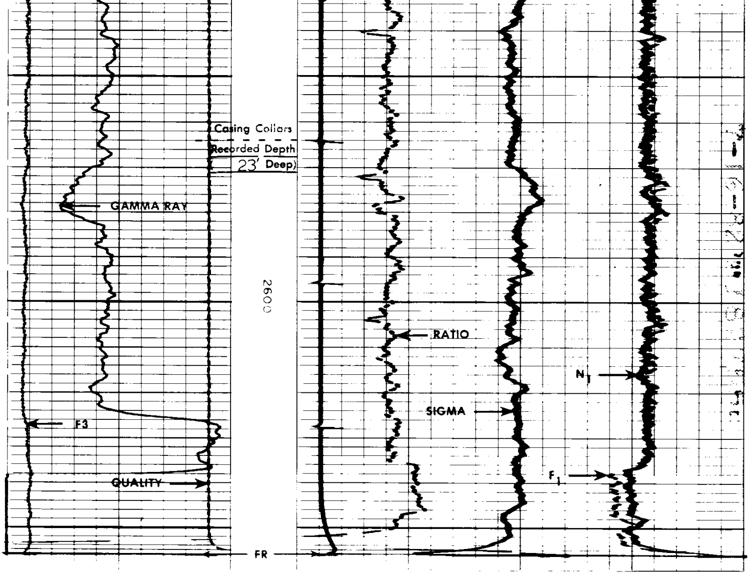




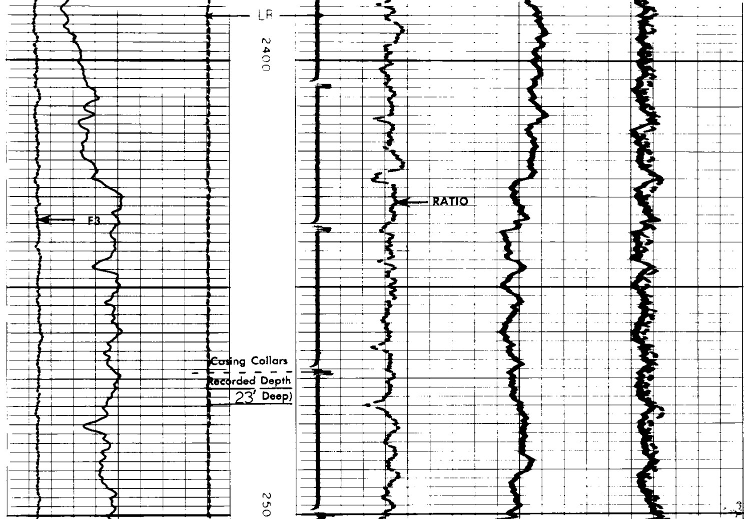


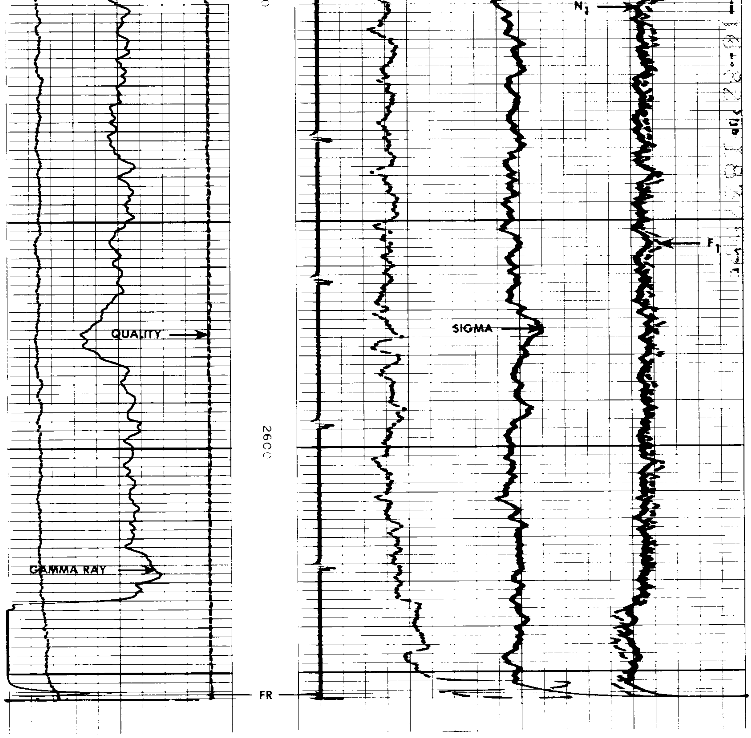




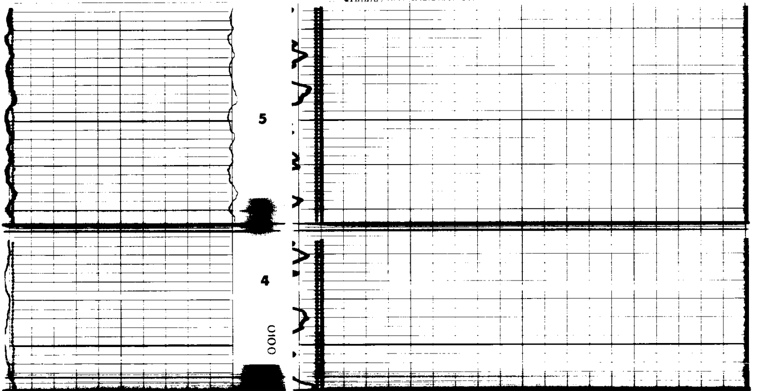


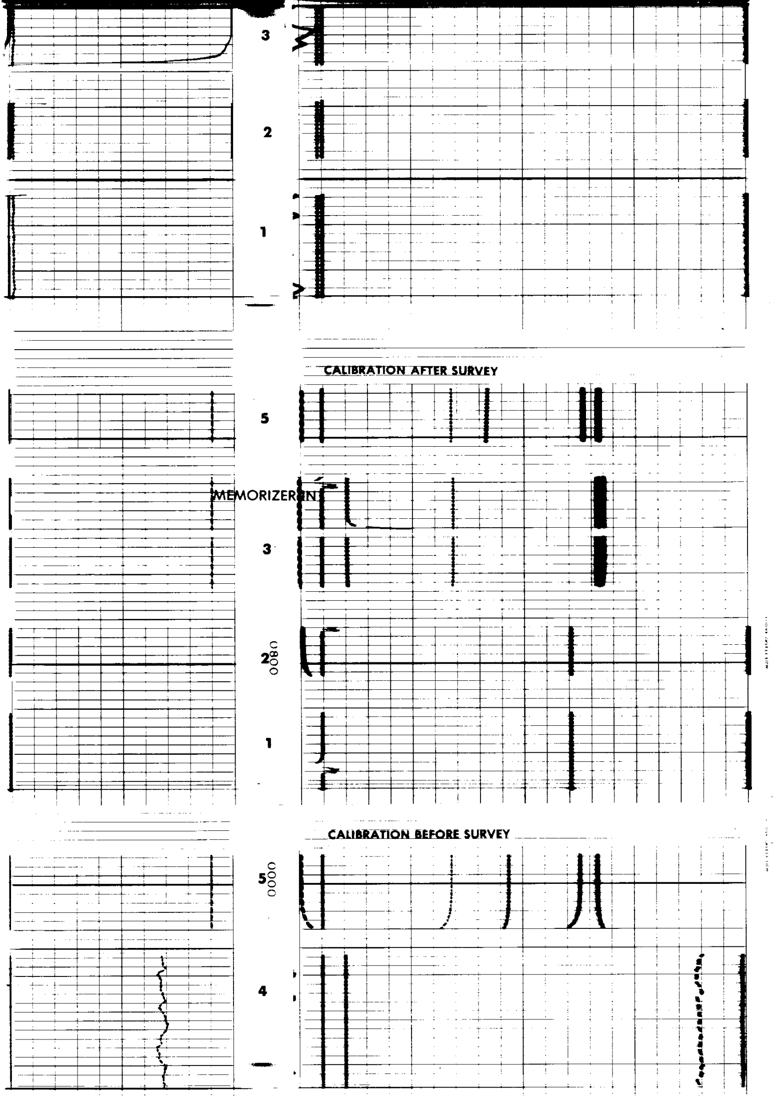
REPEAT SECTION

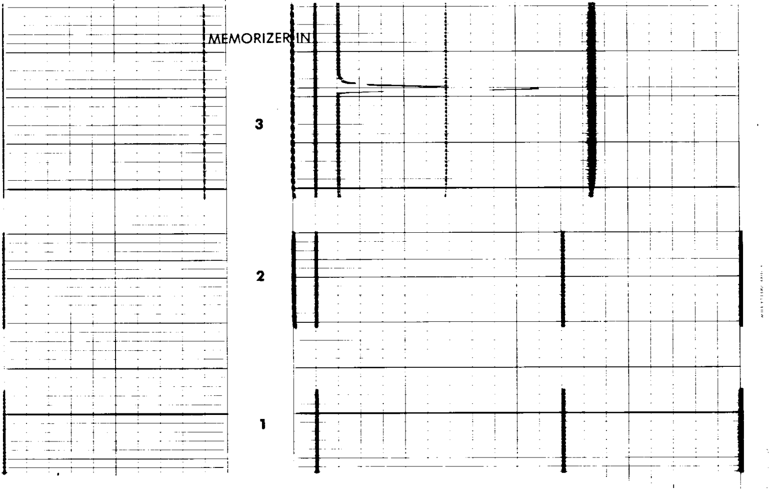




GAMMA RAY CALIBRATION







DUAL SPACING TDT CALIBRATION

STEP		Σ	τ	RATIO	N_1	F_1	F_2
1.	ZERO	0	100	0	0	0	0
2.	CALIBRATION (1)	60	100	0	0	0	0
3.	CALIBRATION (2)	20	300	5 ± .5	4000	2000	2000 ± 200 (uncalibrated
3.	ADJUST RATIO MEMORY SENSITIVITY	20	300	SAME VALUE READ ABOVE	4000	2000	2000 ± 200
4.	RATIO CALIBRATION SOURCE IN PLACE	—	—	5	—	—	—
5.	PANEL TEST	22.7	200	1.0 - 1.5	4000	2000	2000 ± 200

GAMMA RAY CALIBRATION

1. ZERO
2. RECORDER SENSITIVITY
3. MEMORY SENSITIVITY
4. BACKGROUND CANCEL
5. CALIBRATE - SOURCE IN PLACE