Schlumberger

DUAL SPACING THERMAL NEUTRON DECAY TIME

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 10-6N-5W
WELL COLUMBIA COUNTY #3
REDRILL 1
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY #3 REDRILL 1

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 1561'S & 630'W FROM
THE NE CORNER OF:

API SERIAL NO	SEC	TWP	RANGE
	10	6N	5W

Other Services:

Permanent Datum: GL ; Elev.: 858.2
Log Measured From KB 11.2 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 869.4
D.F. -
G.L. 858.2

Date	6-9-82			
Run No.	THREE			
Depth—Driller	2427			
Depth—Logger (Schl.)	2418			
Btm. Log Interval	2412			
Top Log Interval	1000			
Type fluid in hole	GAS			
Salinity ppm Na Cl.	-			
Density	-			
Fluid level	GAS			
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	BORE-HOLE RECORD			CASING & TUBING RECORD				
No.	Bit	From	To	Size	Wgt.	Remarks	From	To
	6-1/4	341	2993	4-1/2	10.5		0	2427
				2-3/8	4.7		0	2215

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

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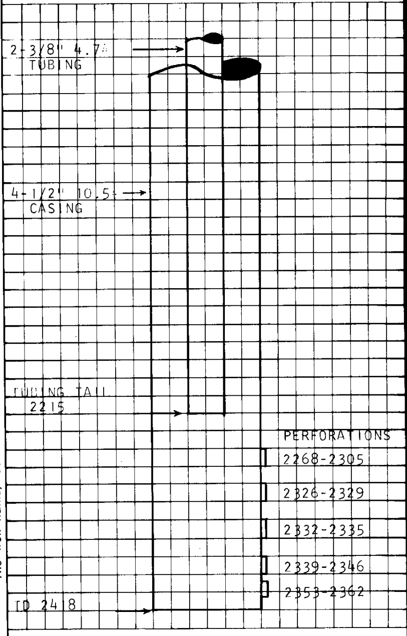
Log depths of these records relate to:
Schlumberger line measurements ☐
Correlated by Radioactivity Log measurements ☒

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-	KA-405		
TNC-	KB-406		
TND-	KC-408		
TNG-	-		
SGT-	SHH-CA-479		

Time			
Run No.	THREE		
Service Order No.	183752		
Fluid Type in Tbg-Csg Annulus	-		
Annulus Fluid Salinity, ppm Na. Cl	-		
Estimated Cement Top	1100	-	
Source of Cement Top	CBL		
Sigma (Produced water)	-		
Source of Sigma $_w$	-		
Csg Collars Recorded	23 ft. DEEP	ft.	ft.
Perforations			

REMARKS:

CALIBRATION DATA

TYPE LOG					
Run No.			THREE		
GR	BKG. CPS		65		
	Source CPS		360		
	Tc		4		
TDT NEAR (N3)	BKG. CPS		0		
	Source CPS		480		
TDT FAR (F3)	BKG. CPS		0		
	Source CPS		640		

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	6-9-82								
WELL CONDITION	SHUT IN								
OIL RATE (SURF)	-								
GAS RATE	-								
WATER RATE	-								
WELLHEAD PRESSURE	350								
BOTTOM LOGGED INTERVAL	-								
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}cm²/cm³)

60 30 0

RATIO

6 1

Casing Collars

Recorded collars

Memorized collars, corrected depth

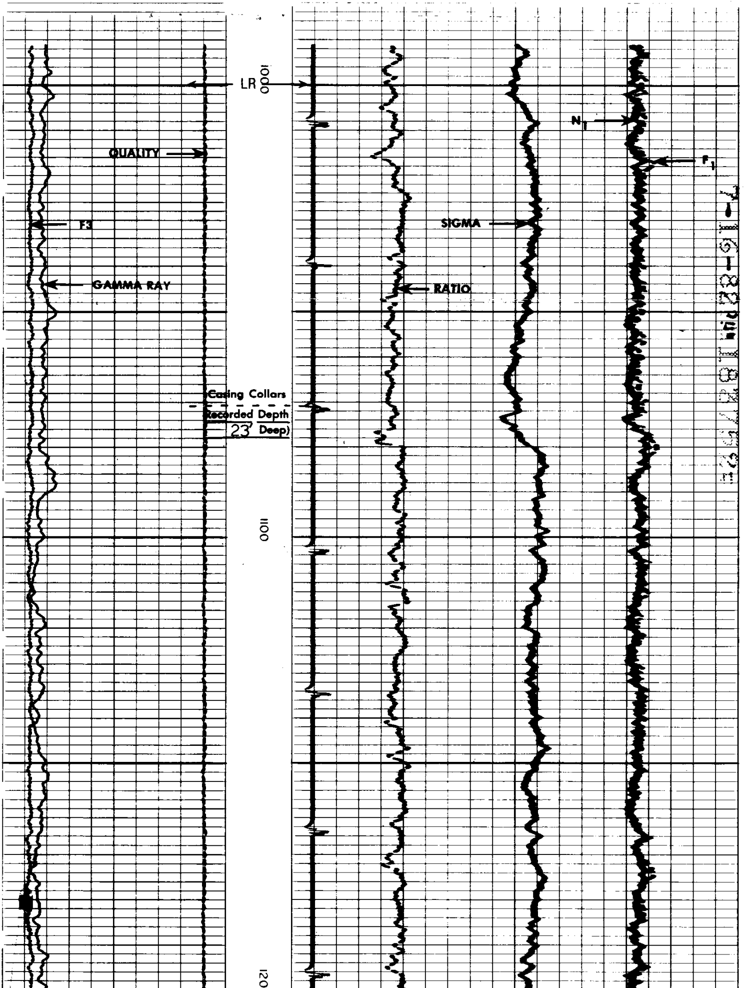
Recorded collars

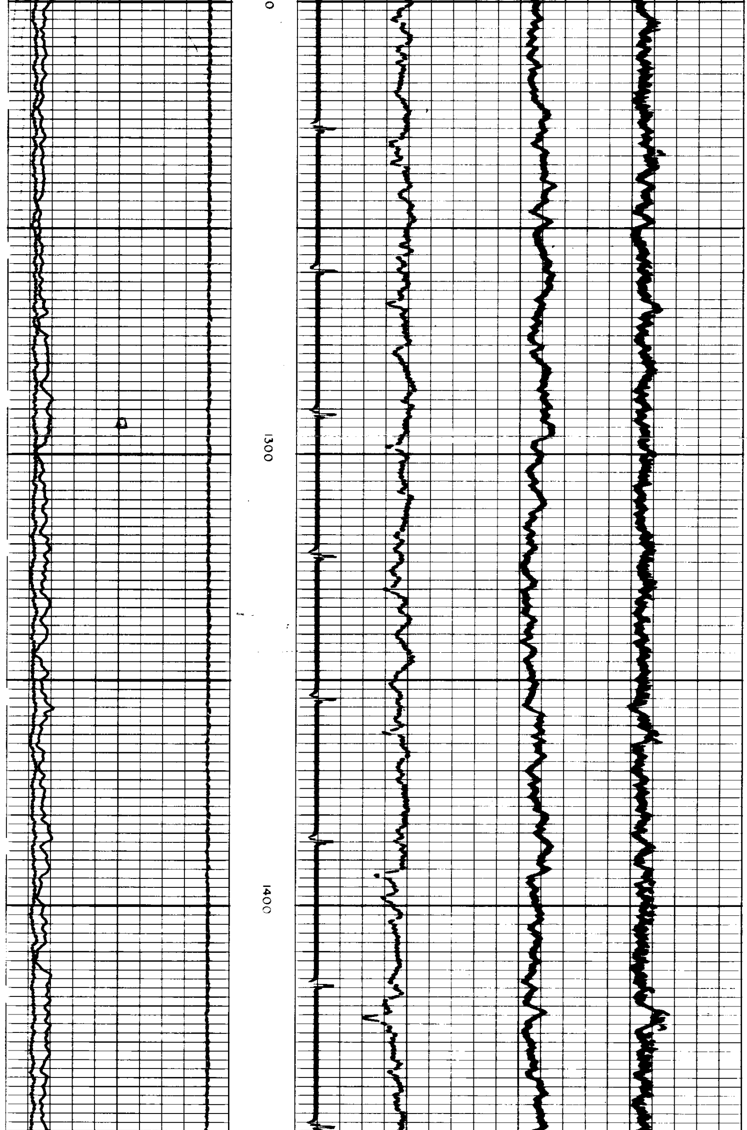
FAR cps

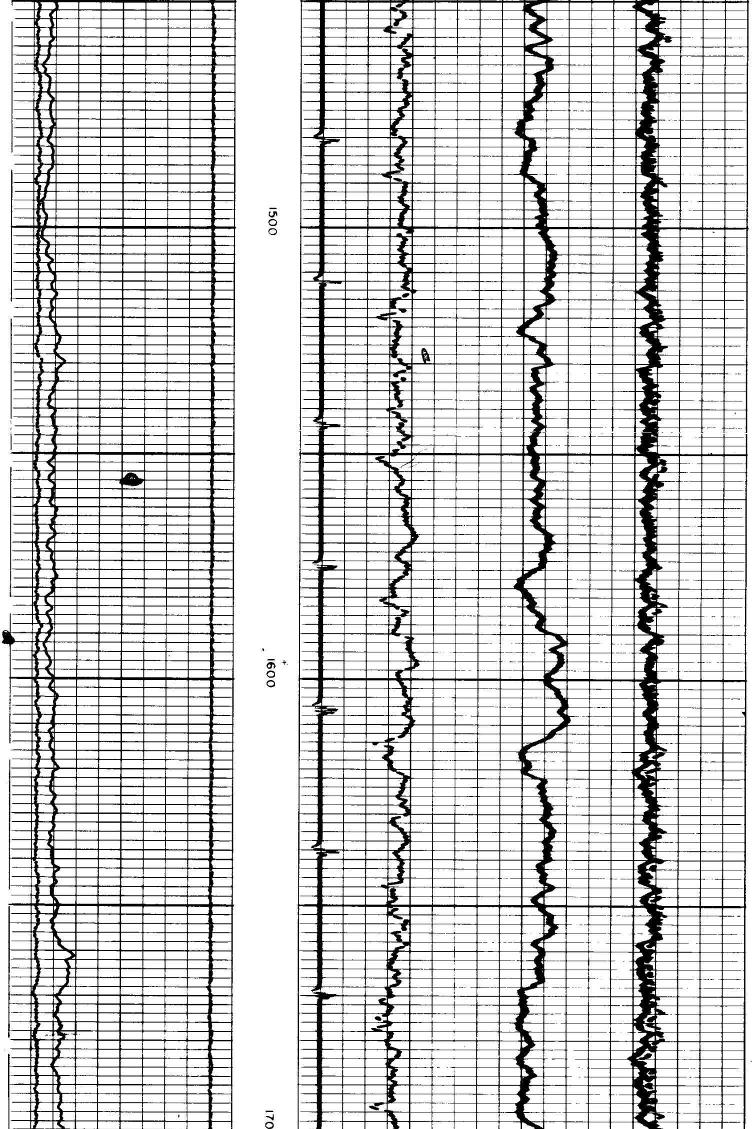
1000 0

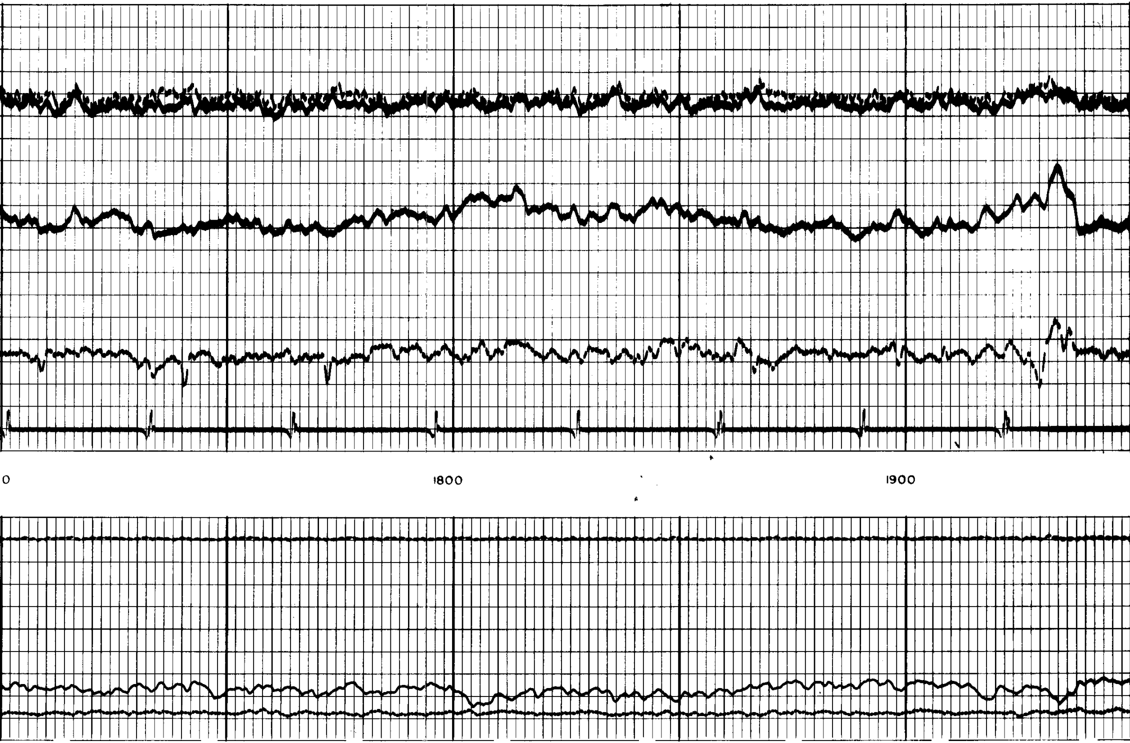
NEAR cps

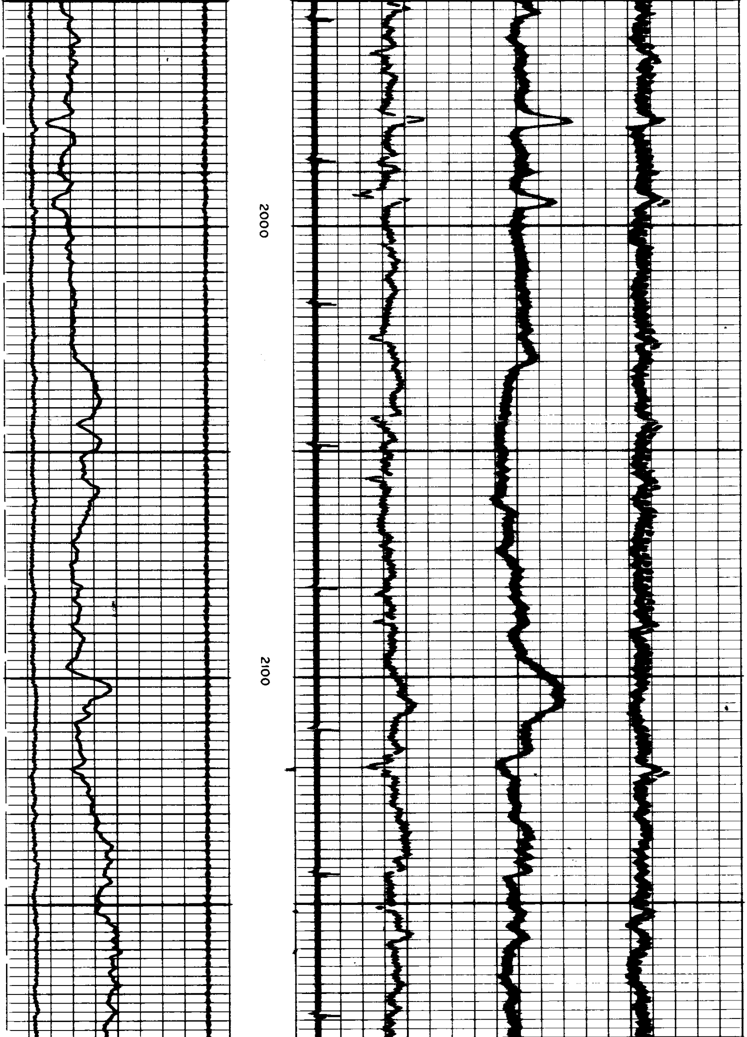
6000 0











KODAK SAFETY FILM
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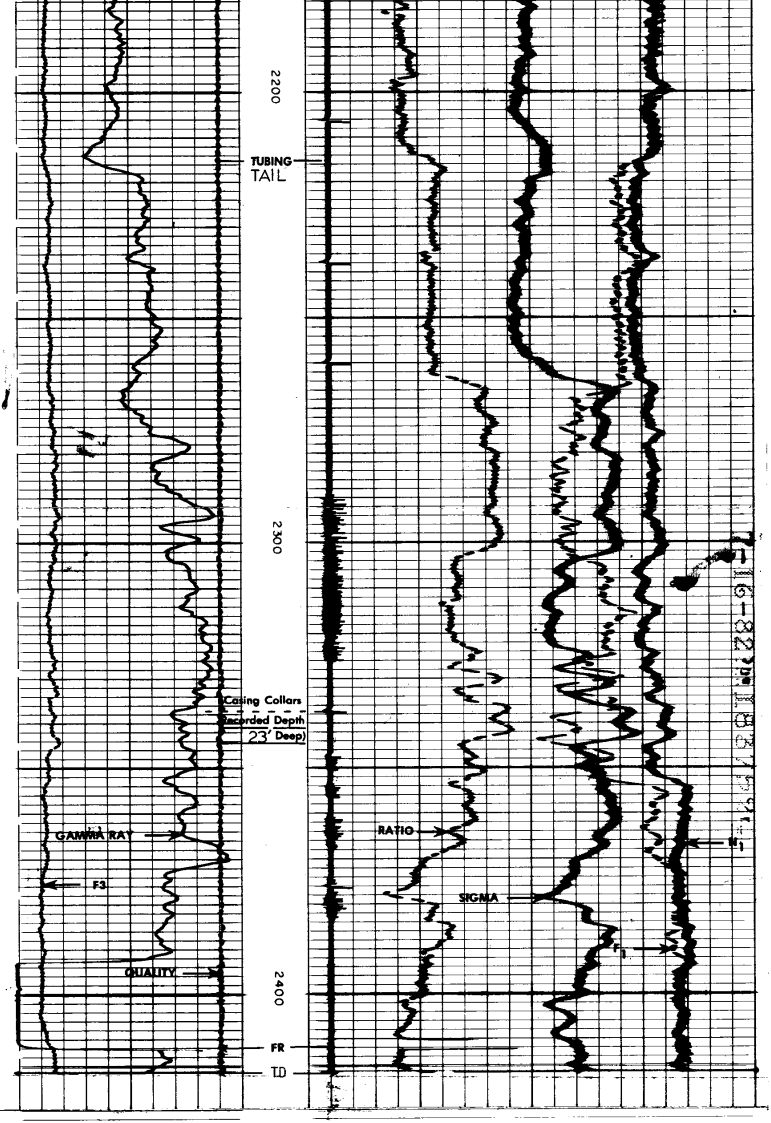
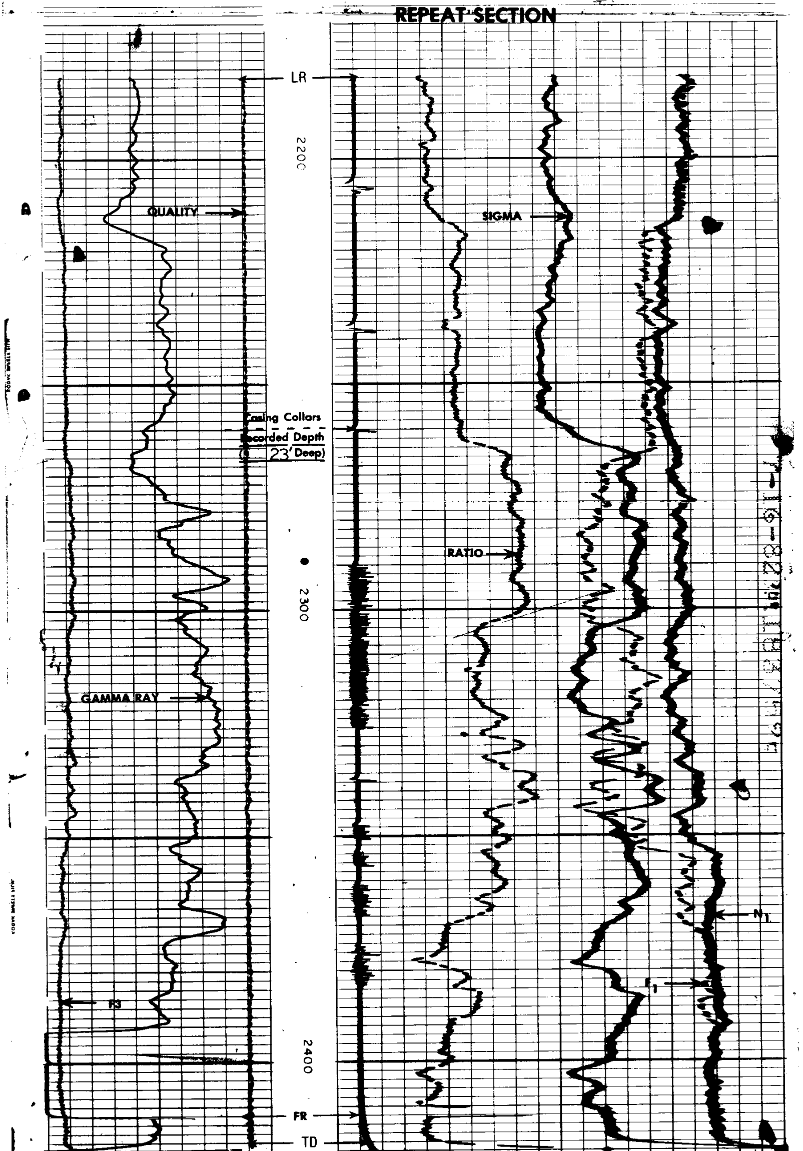
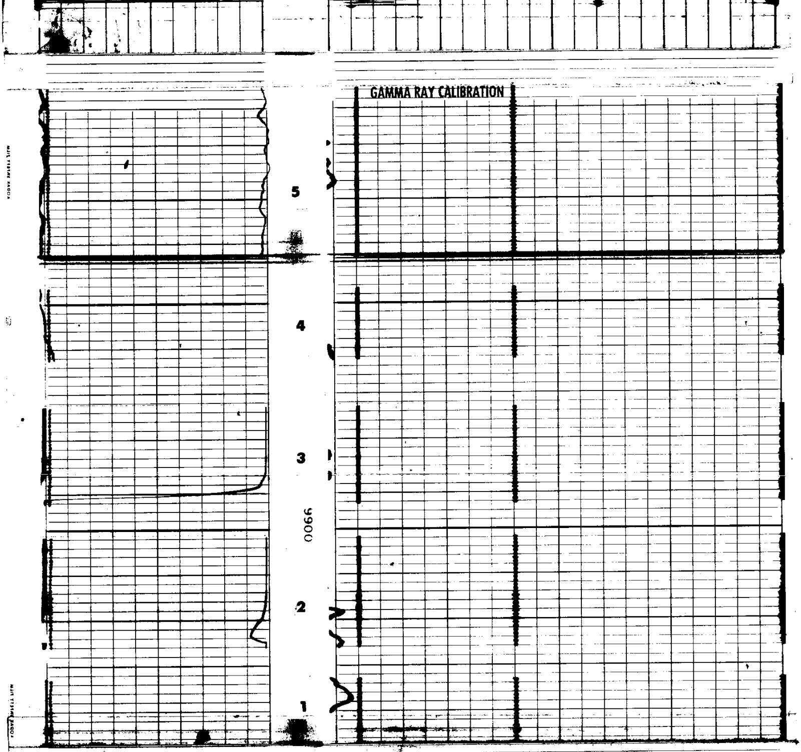


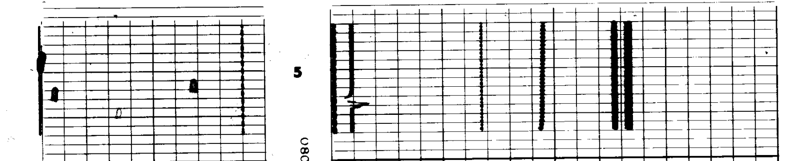
REPEAT SECTION

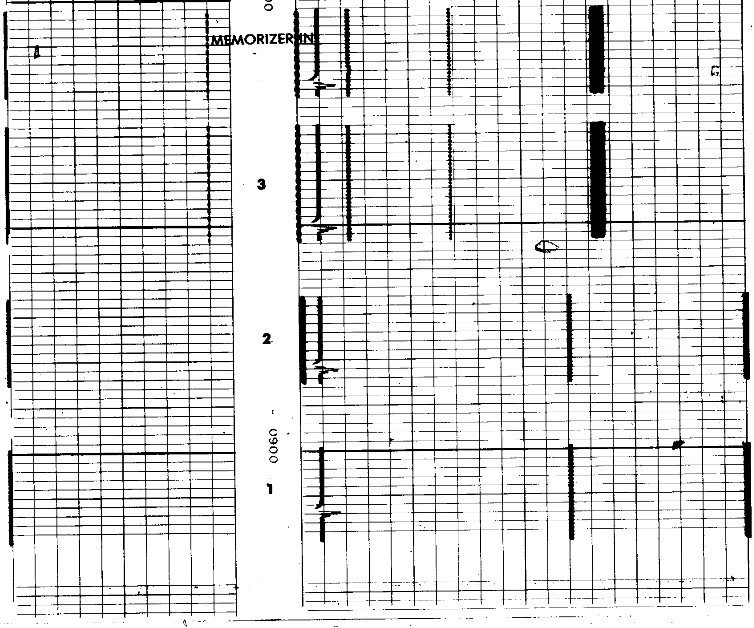


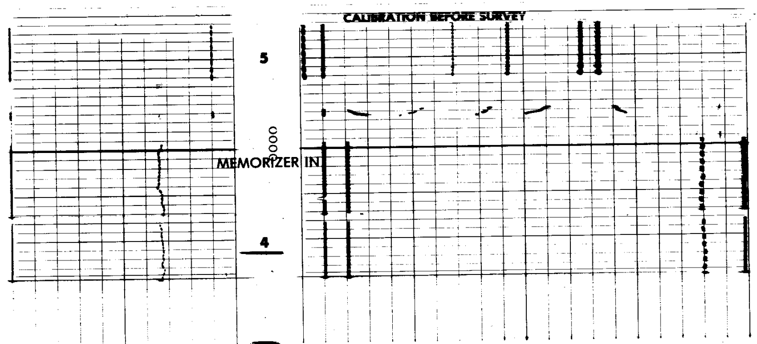
GAMMA RAY CALIBRATION

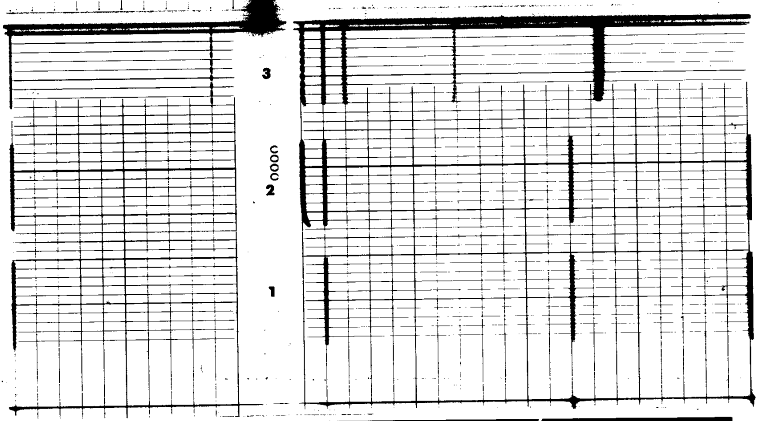


CALIBRATION AFTER SURVEY









DUAL SPACING TDT CALIBRATION

STEP		Σ	T	RATIO	N_1	F_1	F_3
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