CC 13-01-65

Schlumberger

DUAL SPACING THERMAL NEUTRON DECAY TIME

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 1-6N-5W
WELL COLUMBIA COUNTY 13-1
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY #13-1

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 1393'N & 1252'E FROM THE SW CORNER OF:

API SERIAL NO	SEC	TWP	RANGE
	1	6N	5W

Other Services:

Permanent Datum: GL ; Elev.: 1163.2
Log Measured From KB 11.4 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1174.6
D.F.
G.L. 1163.2

Date	6-11-82
Run No.	ONE
Depth—Driller	3020
Depth—Logger (Schl.)	2770
Btm. Log Interval	2764
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

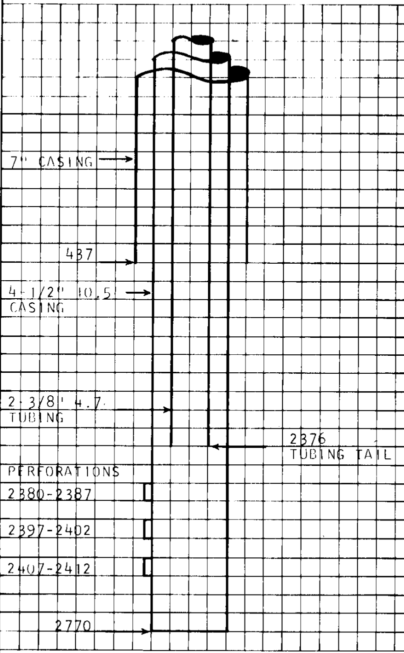
RUN	BORE-HOLE RECORD			CASING & TUBING RECORD				
No.	Bit	From	To	Size	Wgt.	Remarks	From	To
	6.25			2-3/8	4.7		SURF	2376
				4-1/2	10.5		SURF	2822
				7			SURF	436

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

FOLD HERE

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.	ONE		
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.	ONE		
Service Order No.	183757		
Fluid Type in Tbg-Csg Annulus	GAS		
Annulus Fluid Salinity, ppm Na. Cl	-		
Estimated Cement Top	1620		
Source of Cement Top	-		
Sigma Produced water	-		
Source of Sigma $_w$	-		
Csg Collars Recorded	23 ft. DEEP	ft.	ft.
Perforations			

CALIBRATION DATA

	Run No.		ONE		
TYPE LOG	GR	BKG. CPS	70		
		Source CPS	350		
		Tc	4		
	TDT NEAR (N3)	BKG. CPS	0		
		Source CPS	480		
	TDT FAR (F3)	BKG. CPS	0		
		Source CPS	680		

REMARKS:

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 →	ONE									
PASS NUMBER →	ONE									
DATE	6-11-82									
WELL CONDITION	SHUT									
OIL RATE (SURF)	-									
GAS RATE	-									
WATER RATE	-									
WELLHEAD PRESSURE	-									
BOTTOM LOGGED INTERVAL	2764									
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

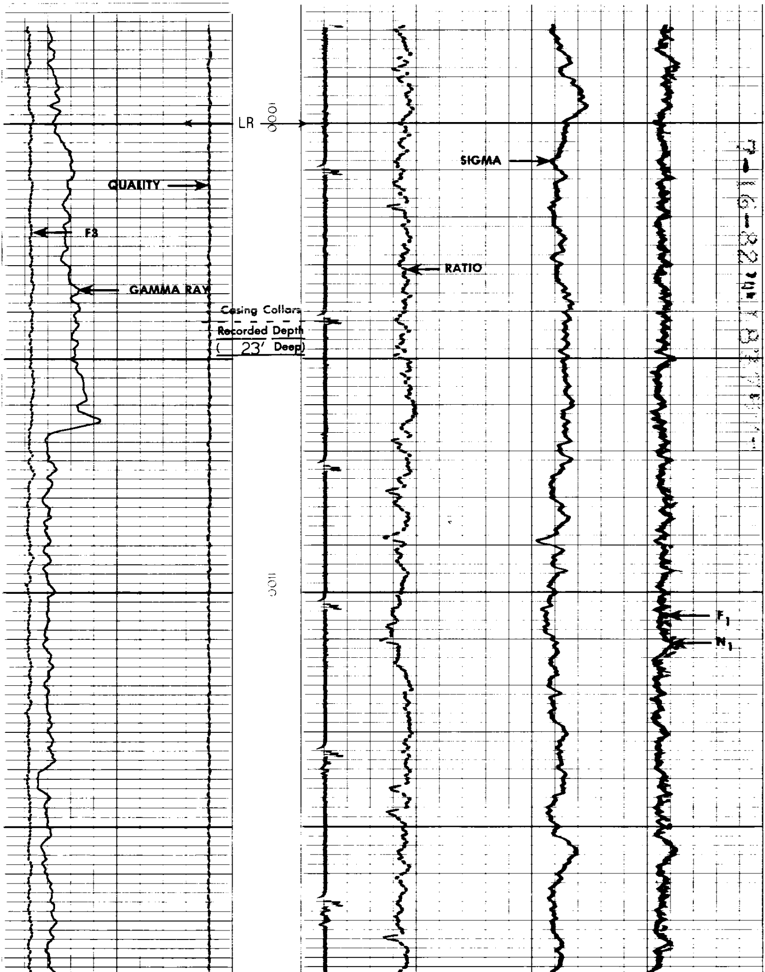
Recorded collars

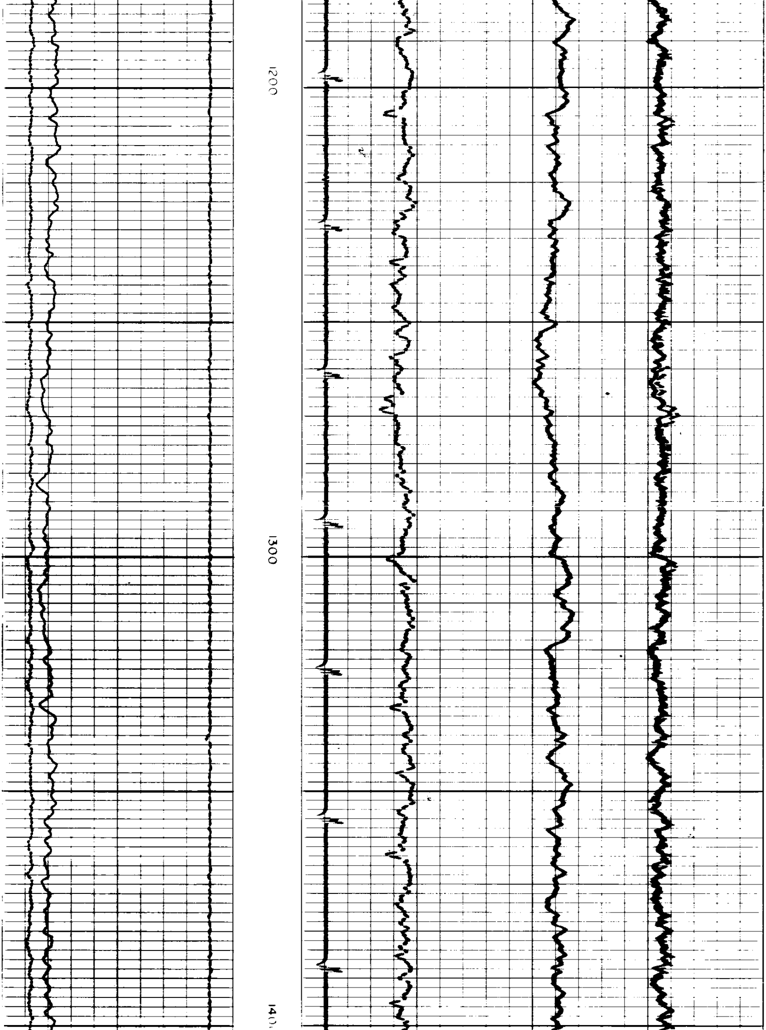
FAR cps

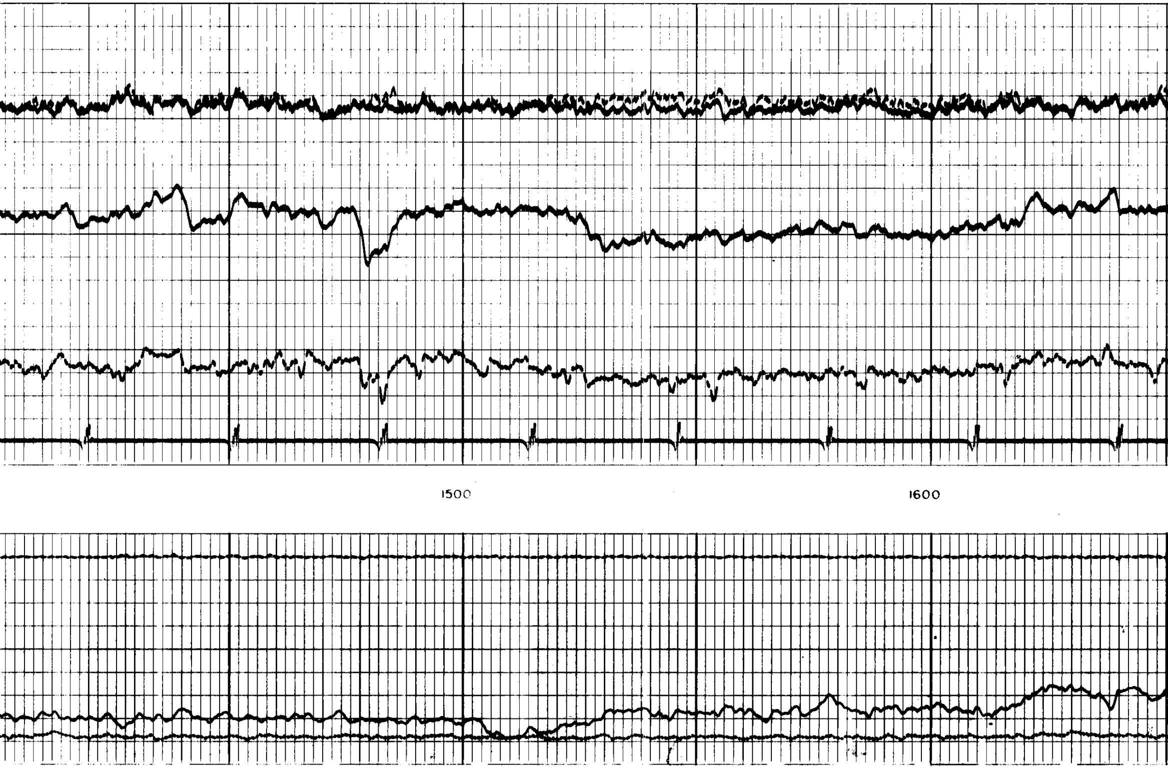
1000 0

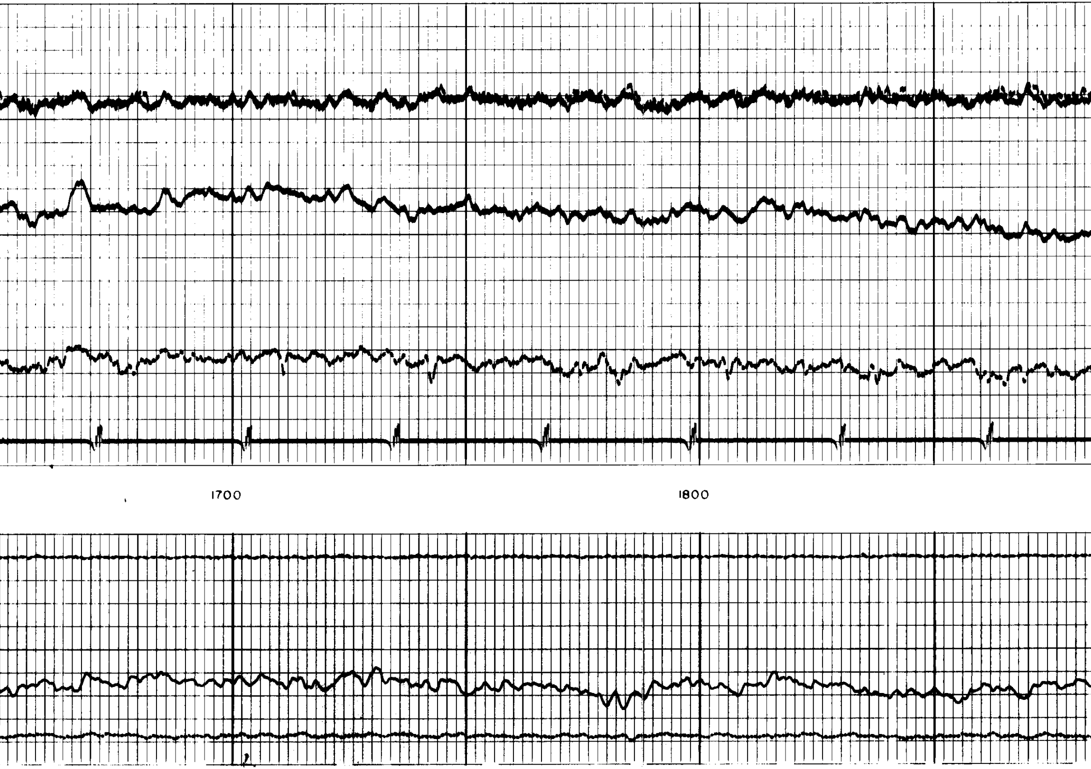
NEAR cps

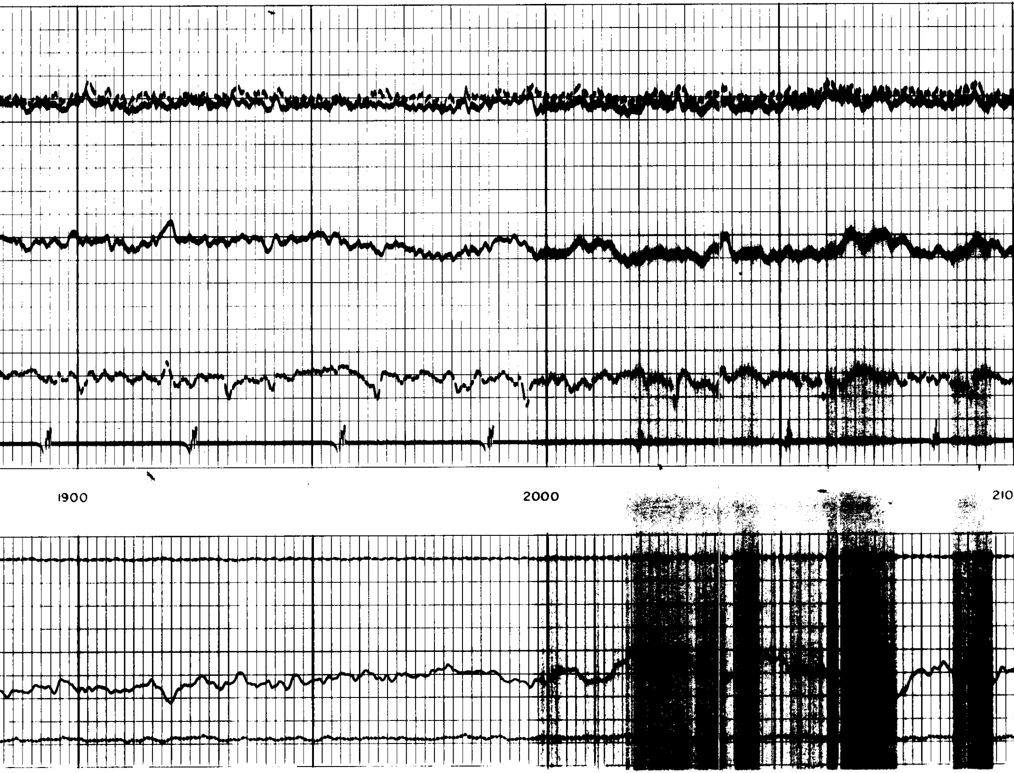
6000 0

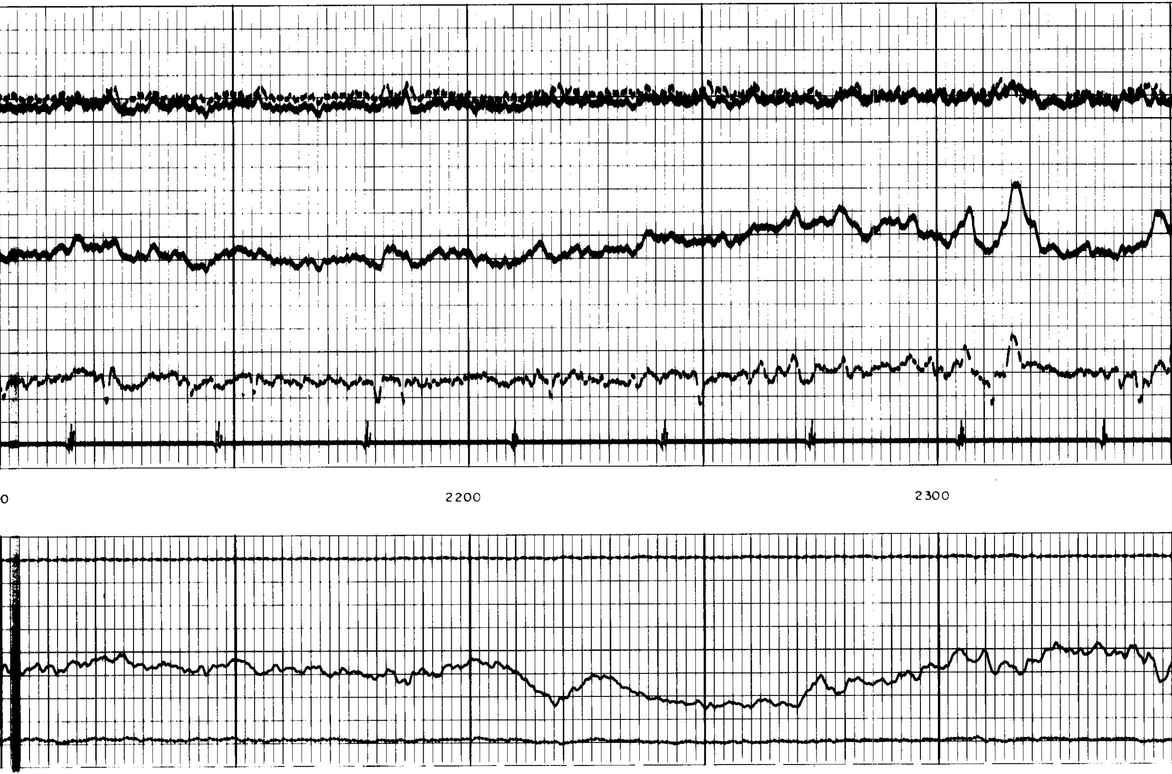


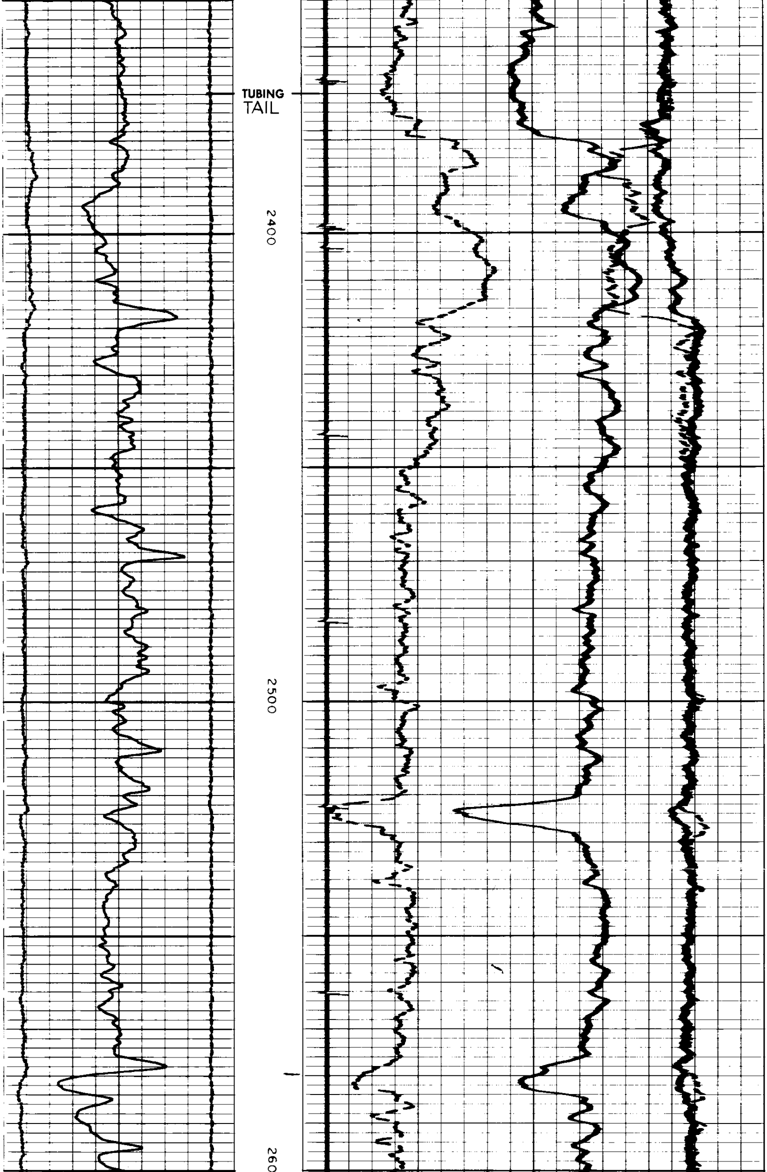


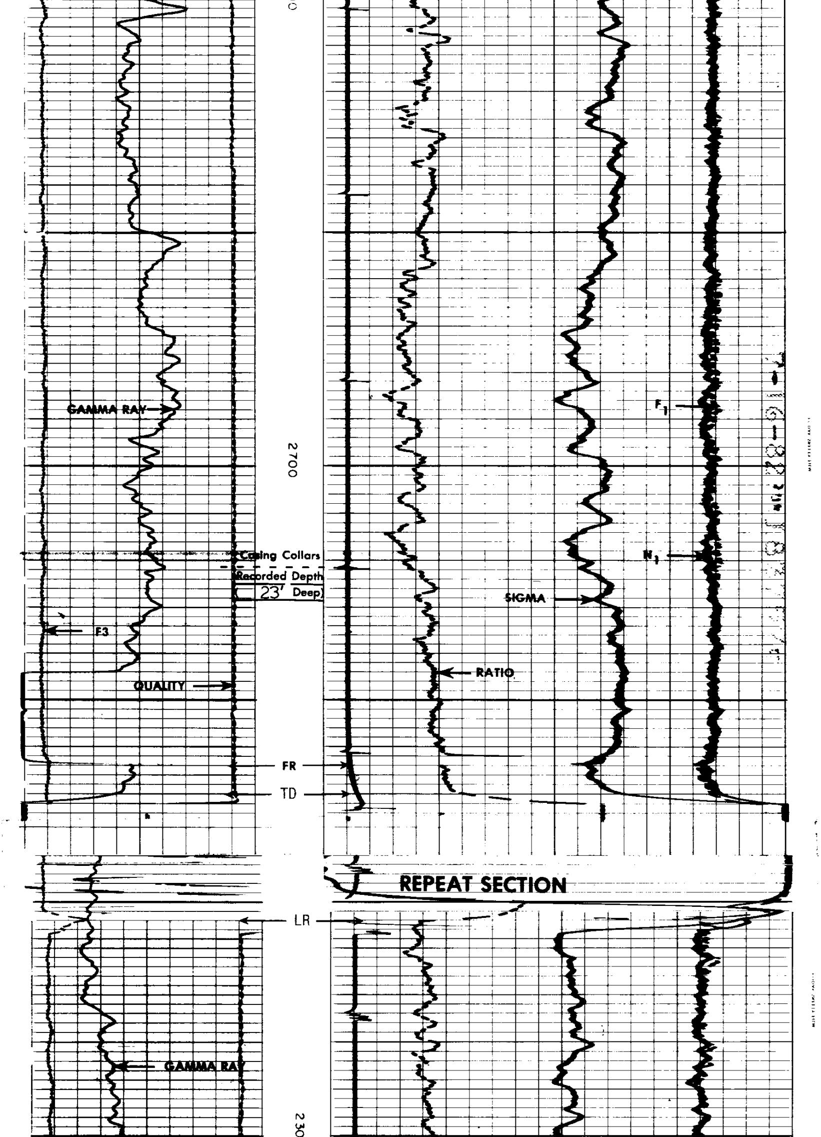


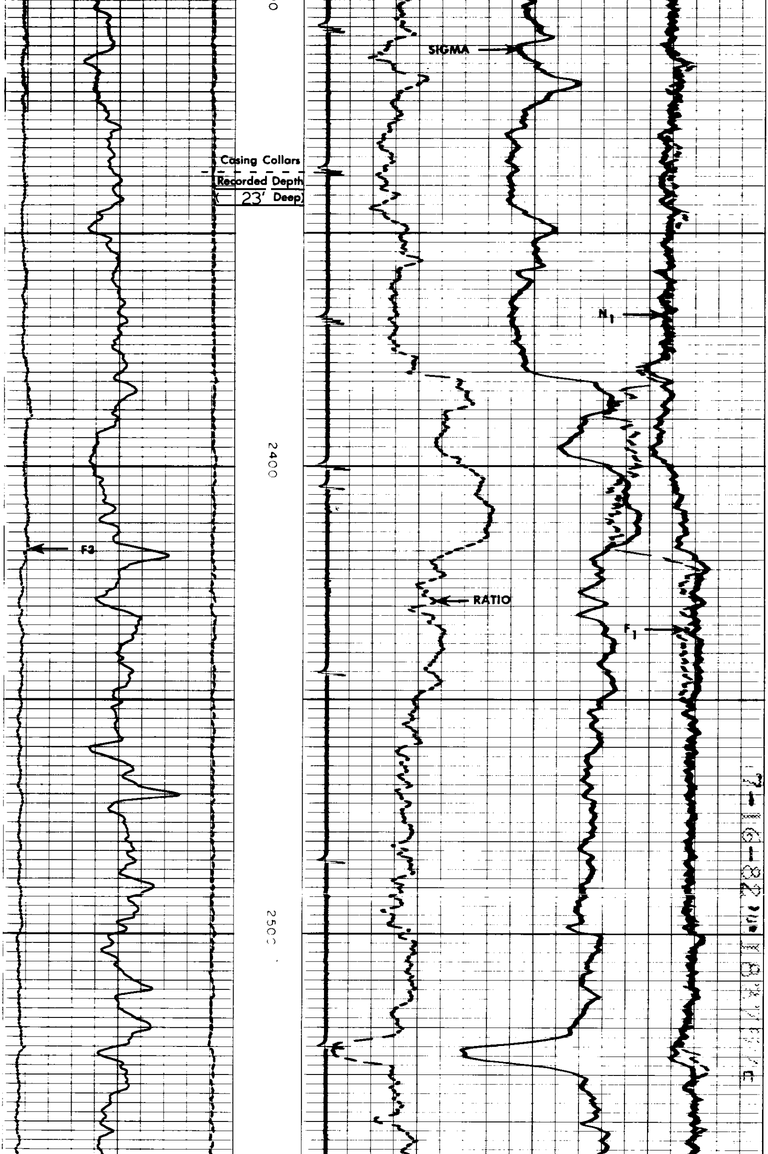


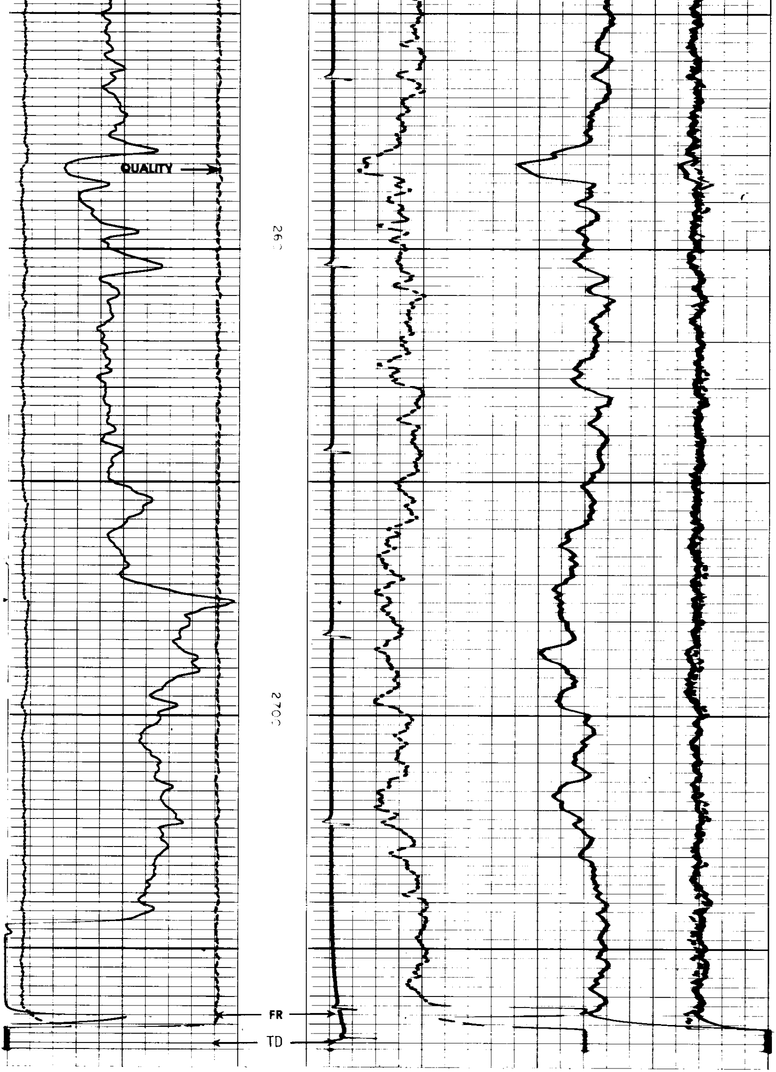




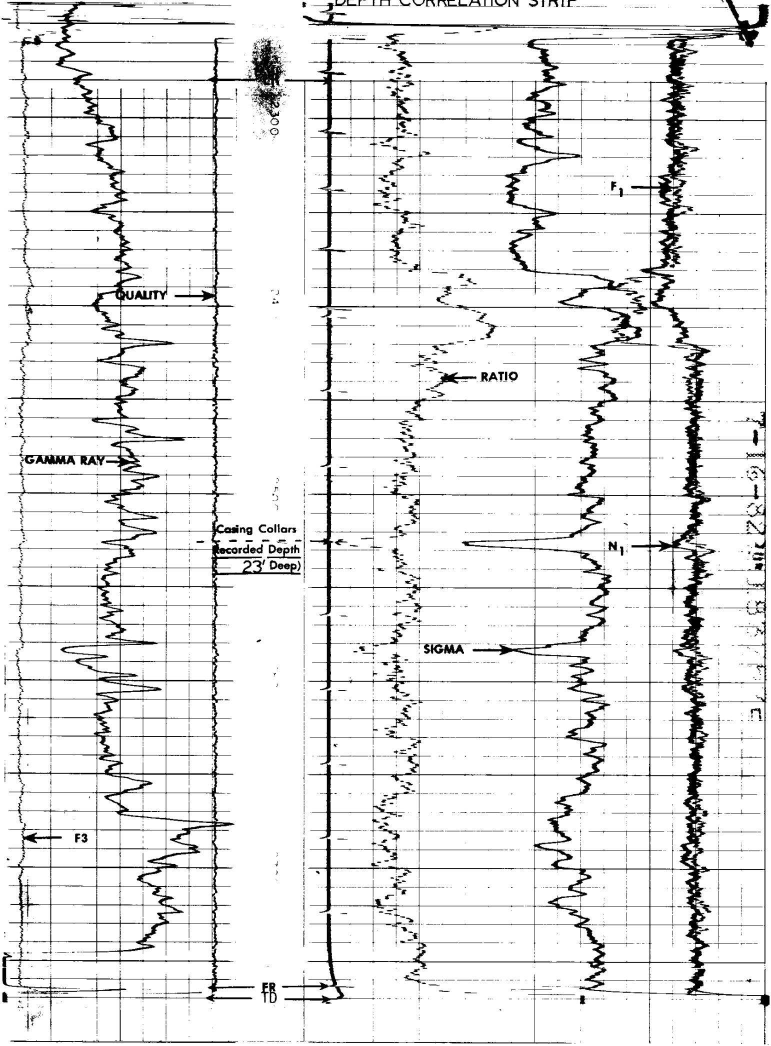




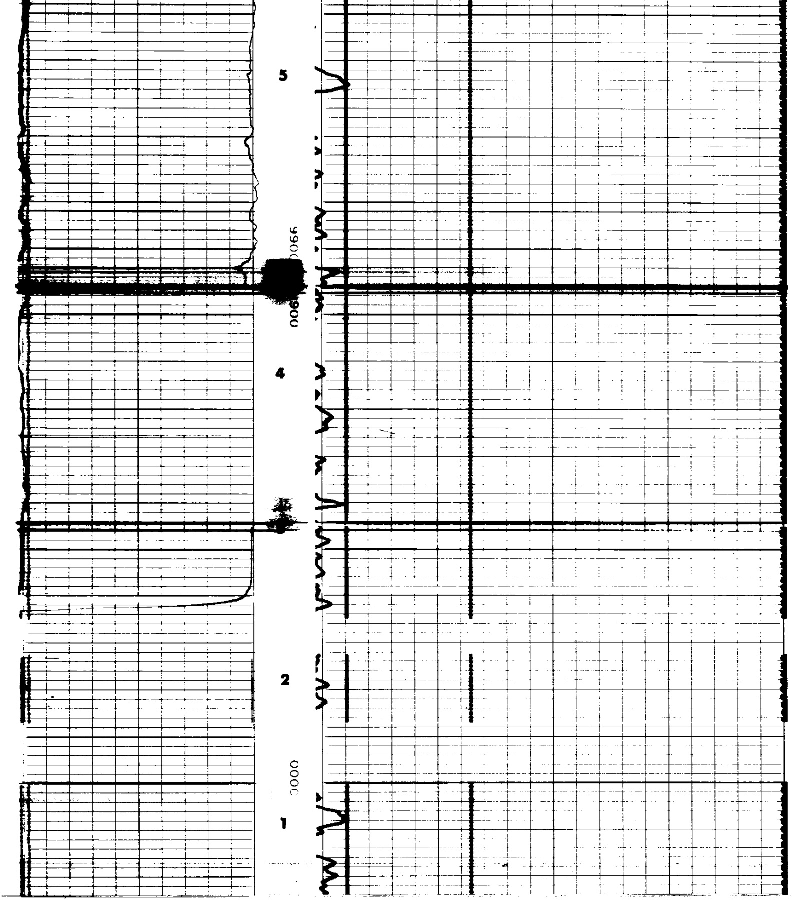




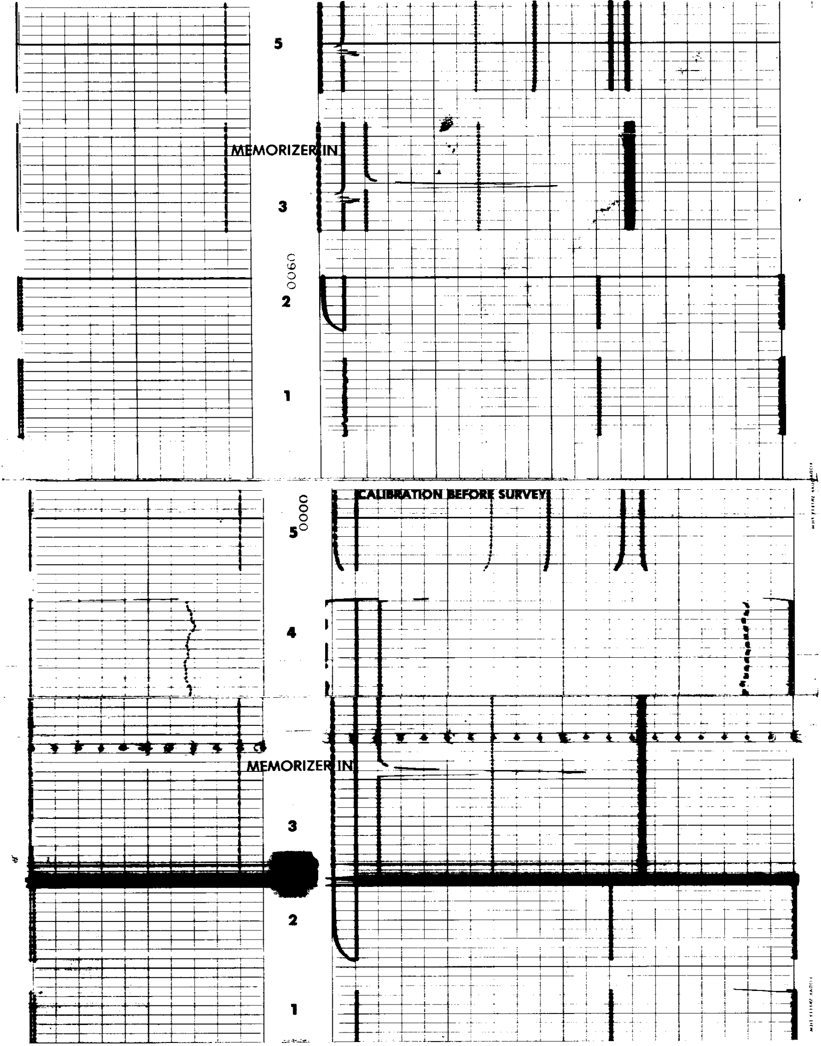
DEPTH CORRELATION STRIP



GAMMA RAY CALIBRATION



CALIBRATION AFTER SURVEY



DUAL SPACING TDT CALIBRATION

STEP		Σ	τ	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