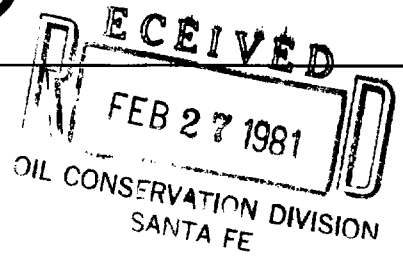




Production Department
Hobbs Division
Western Hemisphere Petroleum Division

Conoco Inc.
P. O. Box 460
1001 North Turner
Hobbs, NM 88240
(505) 393-4141



February 20, 1981

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Dan Netter

Request for Administrative Approval to Convert to Salt Water Disposal
Jicarilla 30 Well No. 2, Rio Arriba County, New Mexico

Conoco Inc. respectfully requests administrative approval, under the provisions of Rule 701C, for converting its Jicarilla 30 well No. 2 from a temporarily abandoned well completed in the Lindrith Gallup-Dakota West Pool to a salt water disposal well in the Undesignated Mesaverde Pool.

The following information is furnished in support of this application:

1. Form C-108.
2. Area map showing all known wells within a two-mile radius.
3. Downhole schematic of wellbore.
4. Copy of log covering injection zone.
5. Offset Operators - None.

It is planned to inject approximately 12 - 14,000 barrels of produced water per month into the subject well. The injected water will be produced from the Jicarilla 30 Lease and other Conoco operated leases in the area. The anticipated injection pressure is 1550 psi.

Yours very truly,

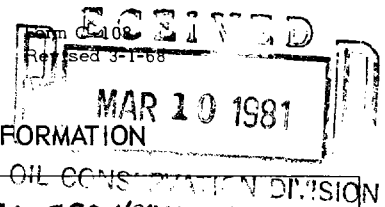

Hugh K. Ingram
Conservation Coordinator

C-108
Received 3-10-81

3-77
water analysis

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION



OPERATOR Conoco Inc.		ADDRESS P.O. Box 460 Hobbs, NM 88240	
LEASE NAME Jicarilla 30	WELL NO. 2	FIELD West Lindrith	COUNTY Rio Arriba
LOCATION UNIT LETTER C ; WELL IS LOCATED 810 FEET FROM THE North LINE AND 1825 FEET FROM THE West LINE, SECTION 29 TOWNSHIP 25N RANGE 4W NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8"	310'	185 SK.	Circulate	
INTERMEDIATE	5 1/2"	6565'	500 SK.	2750'	temp. survey
LONG STRING Liner	4"	6512'-6946'	None	—	—
TUBING	2 3/8"	6577'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker tbg. anchor 6455'		

NAME OF PROPOSED INJECTION FORMATION Mesa Verde		TOP OF FORMATION 4913'		BOTTOM OF FORMATION 5600'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? tubing		PERFORATIONS OR OPEN HOLES? perfs		PROPOSED INTERVAL(S) OF INJECTION 5444'-5476', 5522'-28', 5540-60'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Gallup Dakota Pool		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No. Slotted liner.	

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 6613'-6638', 6638'-6679', 6745'-6810', 6810'-6938'; Bridge plug at 6500', 60' cmt on top					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 2890'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4168'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 6582'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 100	MINIMUM 860	MAXIMUM closed	OPEN OR CLOSED TYPE SYSTEM pressure	IS INJECTION TO BE BY GRAVITY OR PRESSURE? pressure	APPROX. PRESSURE (PSI) 1600 psi
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE —		WATER TO BE DISPOSED OF No		NATURAL WATER IN DISPOSAL ZONE No	ARE WATER ANALYSES ATTACHED? No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Jicarilla Apache Tribe
--

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Conoco Inc. P.O. Box 460 Hobbs, NM 88240
--

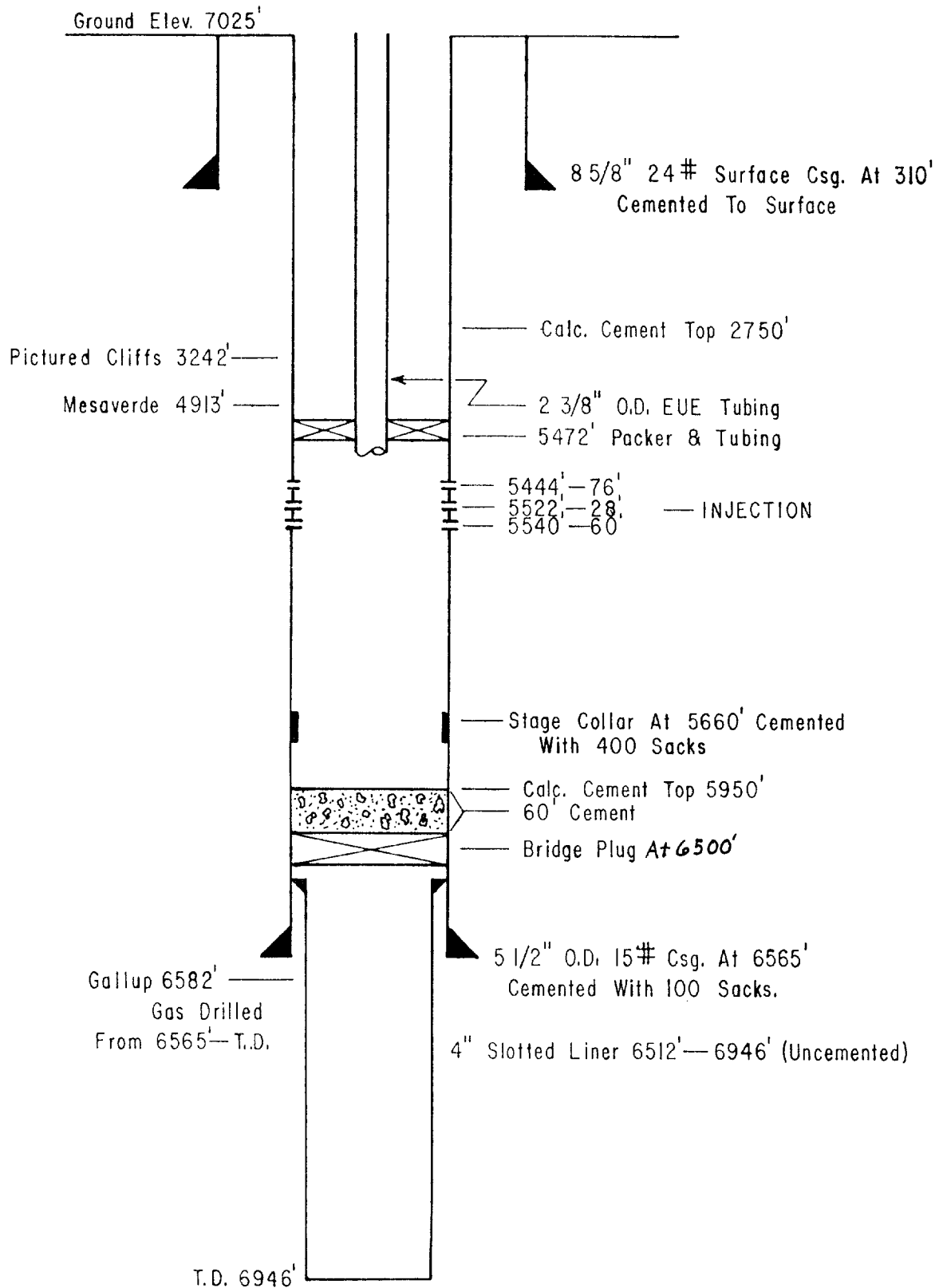
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL —
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA yes	ELECTRICAL LOG Yes
		DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

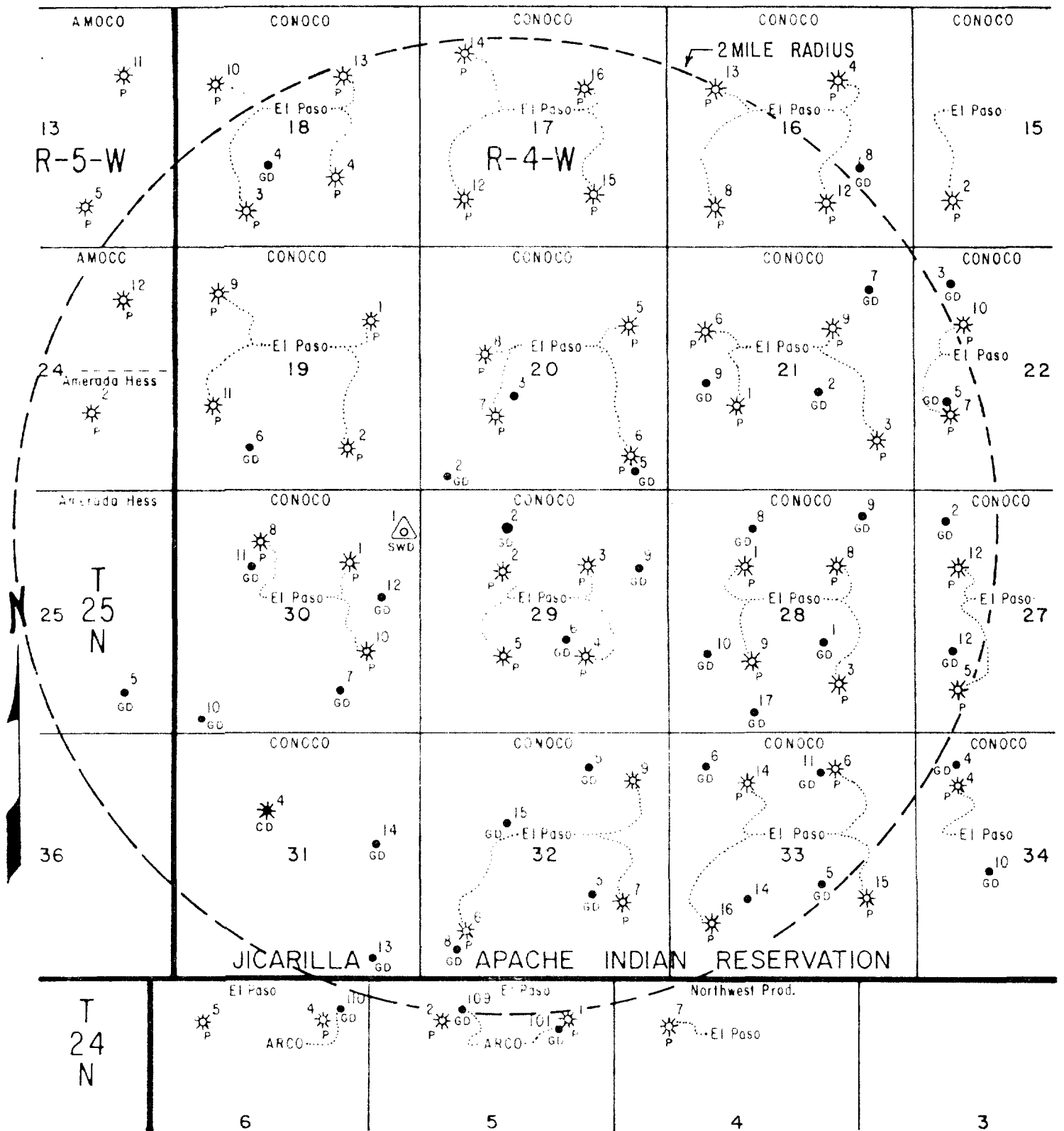
W. A. Butterfield Administrative Supervisor March 5, 1981
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

JICARILLA 30 NO. 2 PROPOSED WELL BORE SCHEMATIC TO CONVERT TO A SWD WELL



Liner Collapsed — Could Not Drill Out Below 6590'



- ☼ CHARCA
- DAKOTA
- GALLUP
- ☼ PICTURED CLIFFS

PRODUCTION DEPARTMENT
HOBBS DIVISION

RIO ARRIBA COUNTY, NEW MEXICO

SCALE

LEGEND:

- LOCATION
- OIL WELL
- ☼ GAS WELL

- ✦ DRY HOLE
- △ INJECTION WELL
- ✦ ABANDONED WELL
- ✦ SHUT-IN WELL
- ⊕ SALT WATER DISPOSAL WELL
- DEEPER WELL - ZONE UNTESTED

A DIVISION OF DRESSER INDUSTRIES, INC.

FILE NO.		COMPANY CONTINENTAL OIL COMPANY					
WELL		JICARILLA 30 WELL No 2					
FIELD		JICARILLA GALLUP					
COUNTY		RIO ARRIBA STATE NEW MEXICO					
LOCATION:		1850' FWL & 790 FNL					
SEC 29 TWP 25 N RGE 4W		IES Other Services					
Permanent Datum		G. L.		Elev. 7025			
Log Measured from		K. B.		11 Ft. Above Permanent Datum			
Drilling Measured from		K. B.		Elevations: KB 7036 DF 7035 GL 7025			
Date	12-6-63						
Run No.	ONE						
Type Log	G/R N/N D/L						
Depth-Driller	6949						
Depth-Logger	6951						
Bottom logged Interval	6950						
Top logged Interval	3200						
Type Fluid in Hole	GAS DRILLED						
Salinity Ppm Cl.	-						
Density lb. Gal.	-						
Level	-						
Max. Rec. Temp. Deg. F	170°						
Opt. Rig Time	3.5 HOURS						
Recorded By	BAKER						
Witnessed By	MR. ONEIL						
Run	Bore Hole Record		Casing Record				
No.	Bit	From	To	Size	Wgt.	From	To
2	4 5/8	6951	6565	5 1/2	15.5	6565	0

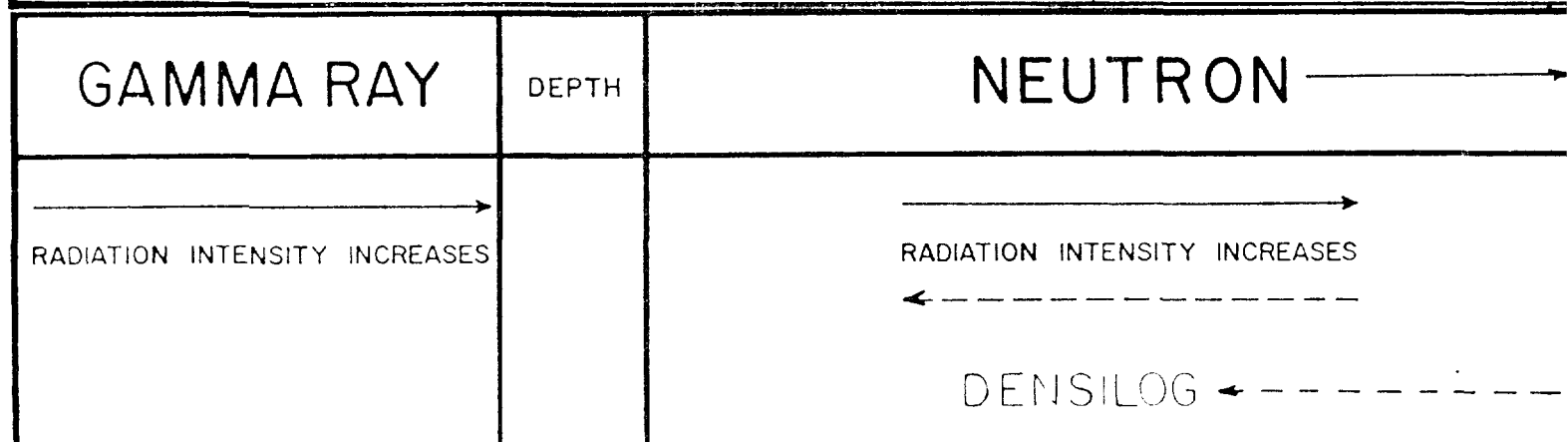
FOLD HERE

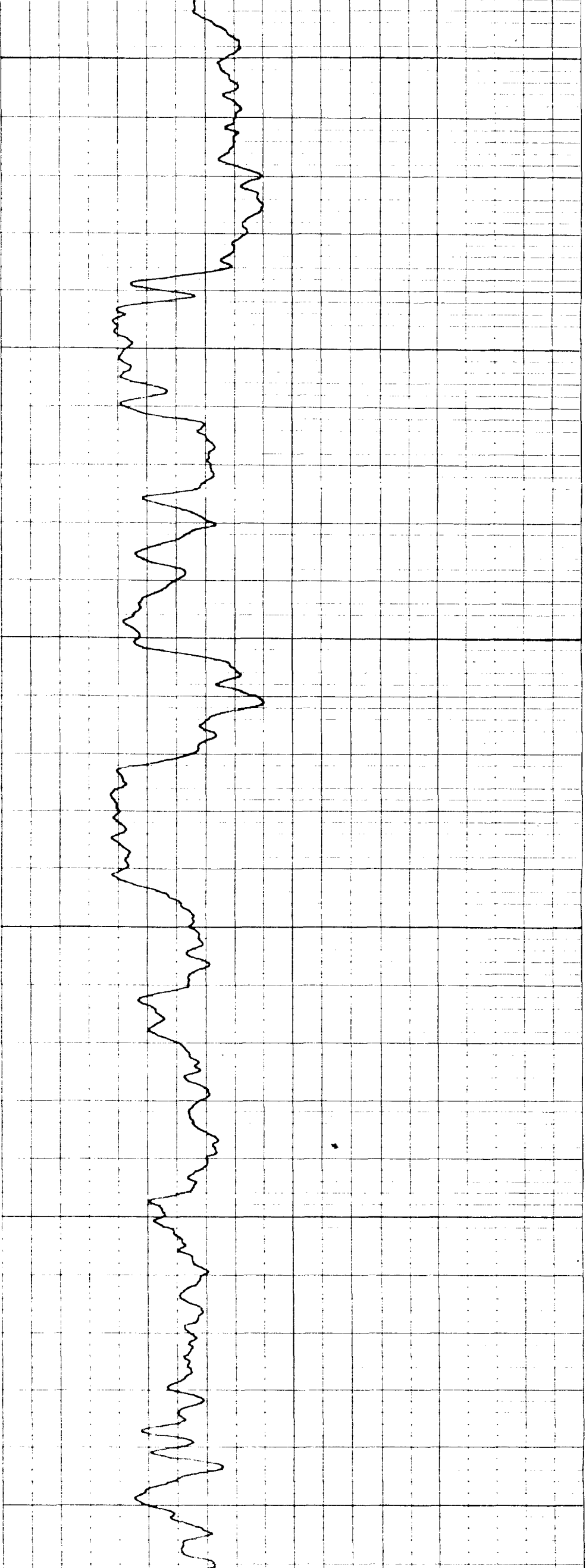
Gamma Ray				Equipment Data				Neutron DENSIOLOG			
Run No.	TWO			Run No.	TWO			Run No.	TWO		
Tool Model No.	402			Log Type	N/N			Log Type	D/L		
Diam.	3.5"			Tool Model No.	402			Tool Model No.	501		
Detect. Model No.	04GI			Diam.	3.5"			Diam.	3.5"		
Type	SCINT			Detect. Model No.	D6NI			Detect. Model No.	DIA		
Length	4"			Type	SCINT			Type	GEIGER		
Dist. to N. Source	13'			Length	4"			Length	7"		
				Source Model No.	S16D5			Source Model No.	CO-60		
General				Serial No.	3546			Serial No.	34		
Hoist Truck No.	L-5170			Spacing	13.5"			Spacing	F		
Inst. Truck No.	L-5170			Type	PU-BE			Type	CO-60		
Tool Serial No.				Strength	70 X 10 ⁶			Strength	97 %		

General				Gamma Ray				Neutron			
Run No.	Depths		Speed	T.C.	Sens.	Zero	API G.R. Units	T.C.	Sens.	Zero	API N. Units
	From	To	ft. Min.	Sec.	Settings	Div. L or R	Per Log Div.	Sec.	Settings	Div. L or R	Per Log Div.
2	6565	3200	65	0.9	315	2L	15	0.9	45	5 L	125
2	6951	6565	65	0.9	315	1L	15	0.9	45	10 L	125

Remarks: SOURCE STRENGTH X SENSITIVITY X TOOL FACTOR = 250
97 % X 2.37 X 1.09 = 250

Reference Literature:

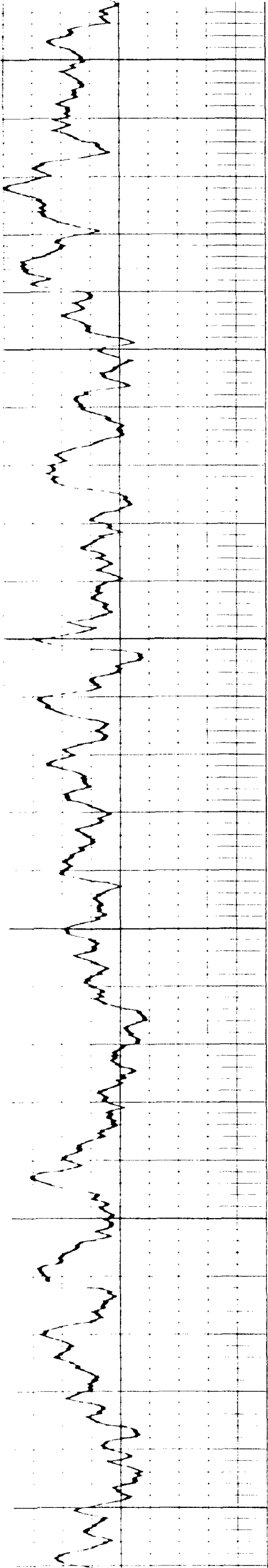


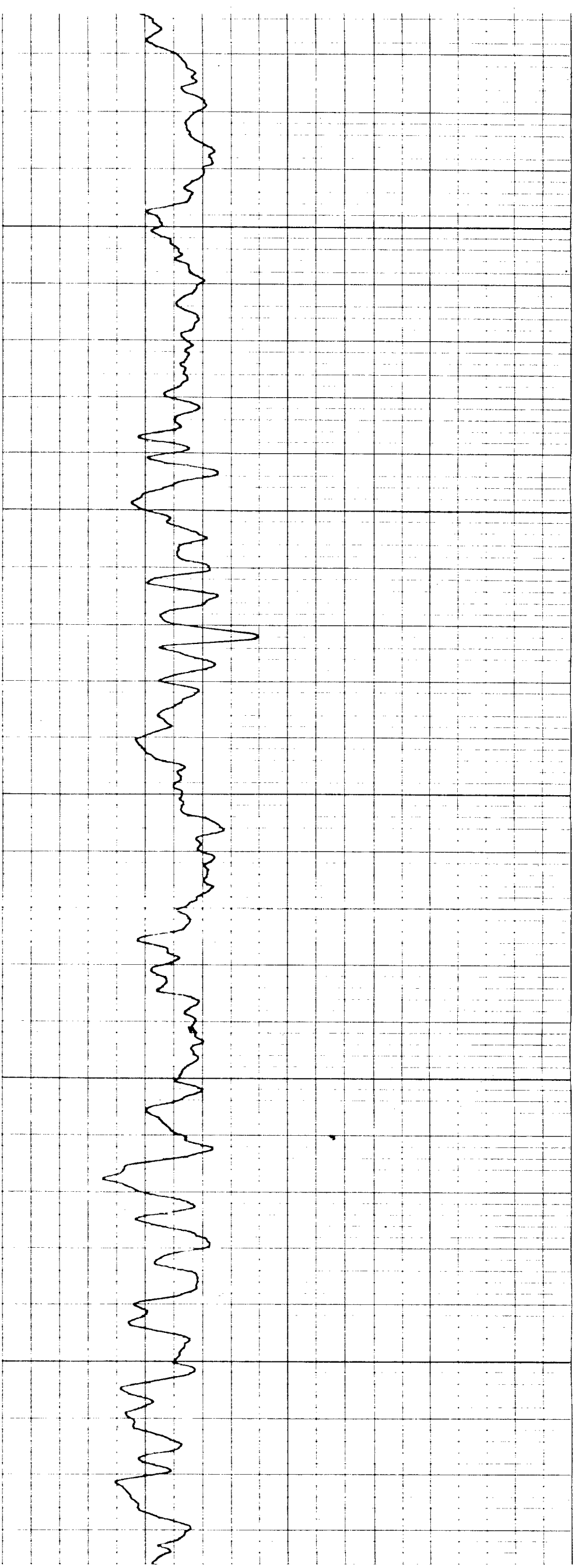


1000

2000

3000

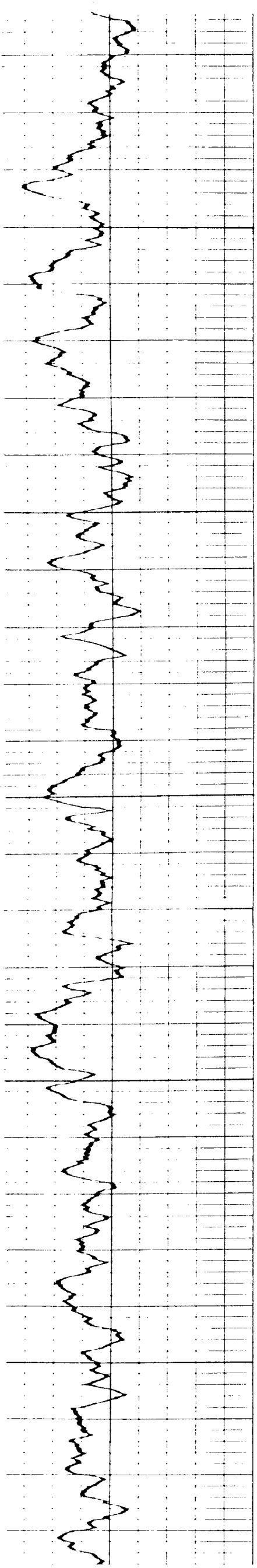


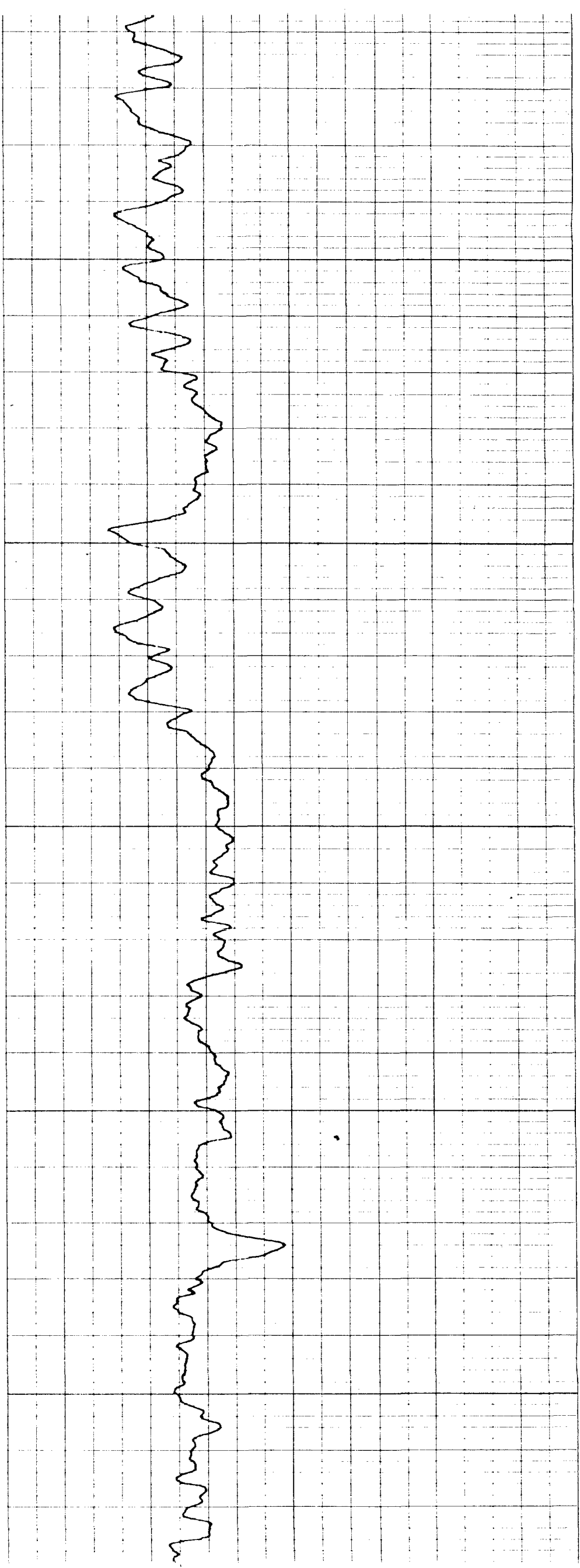


5100

5200

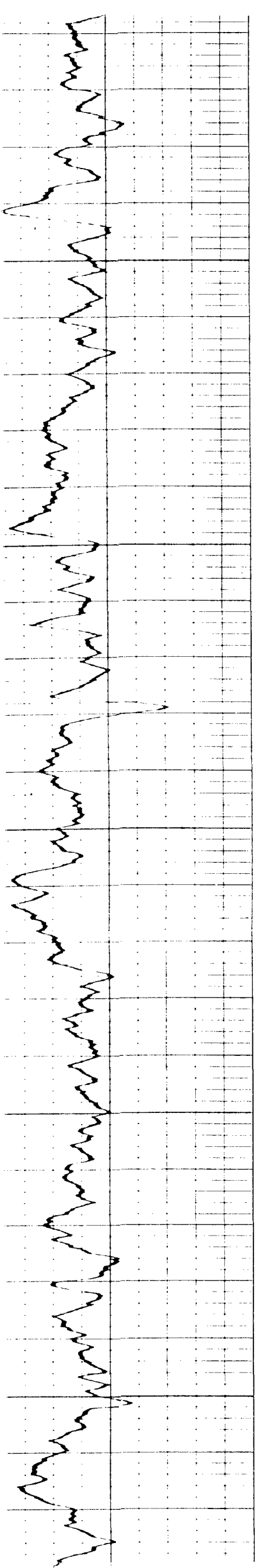
5300

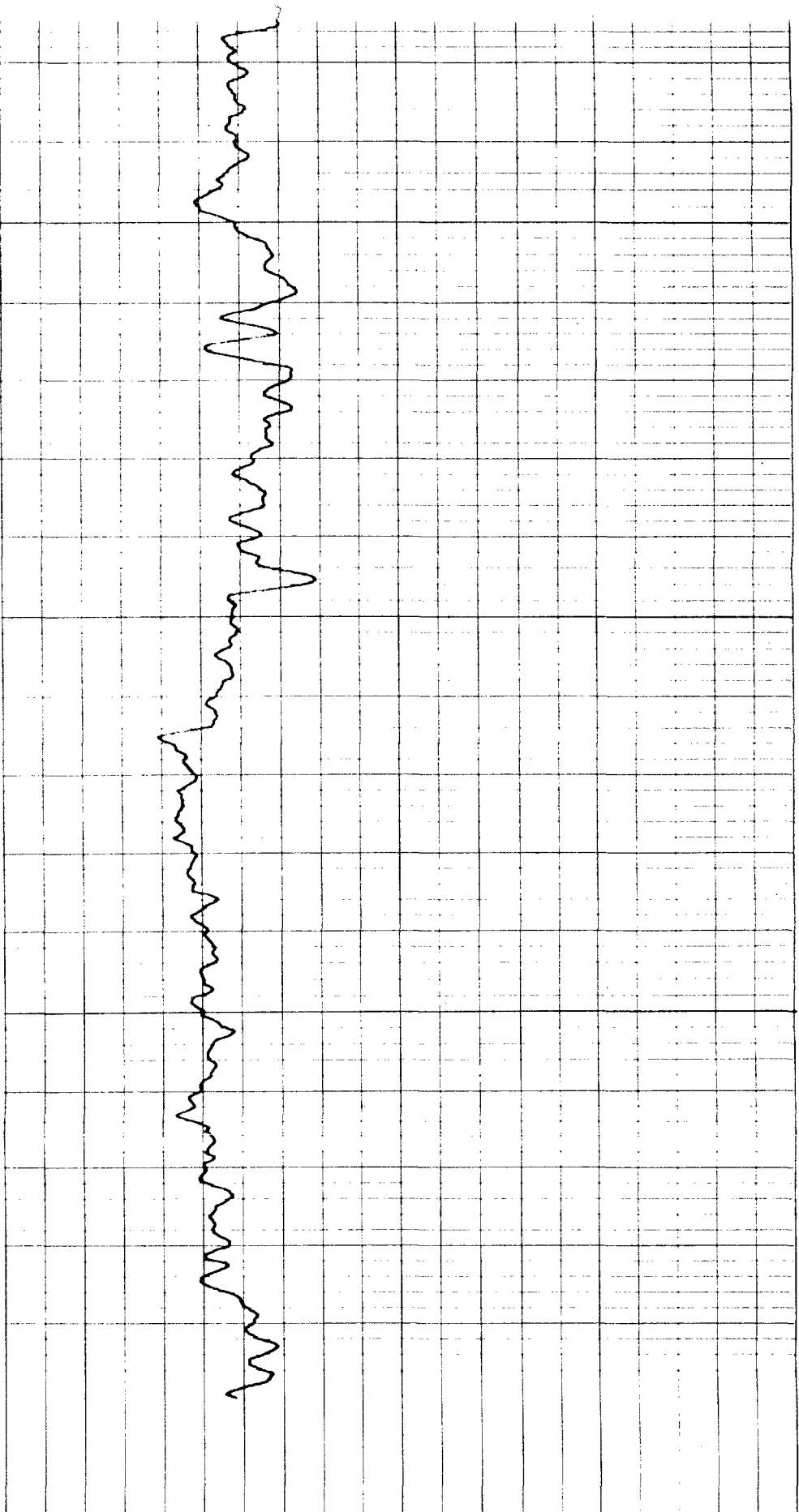




5400

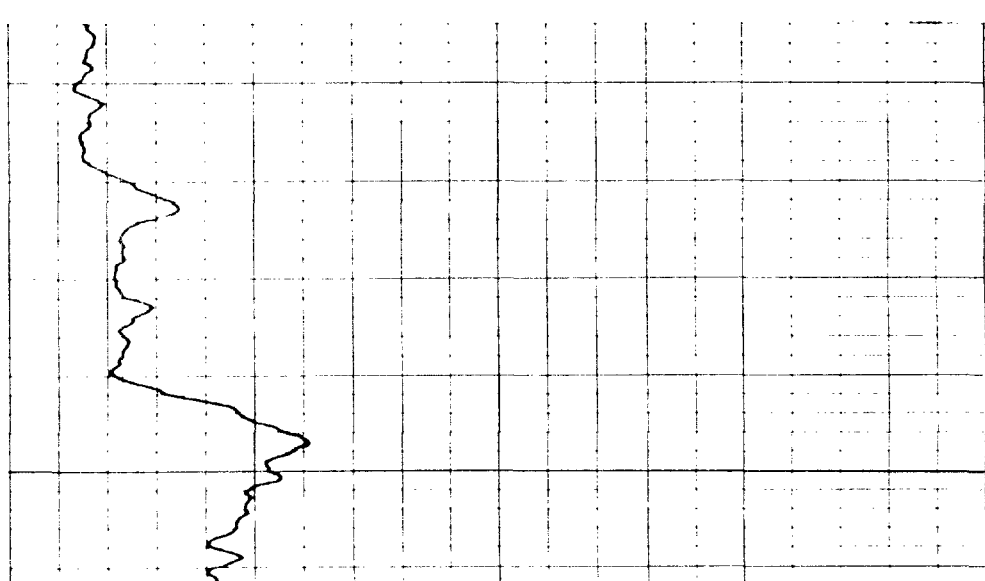
5500



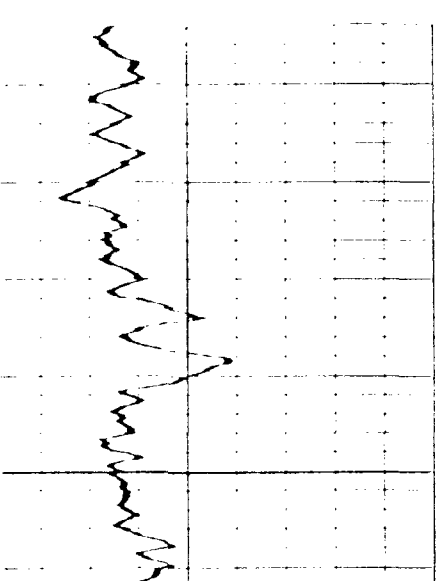
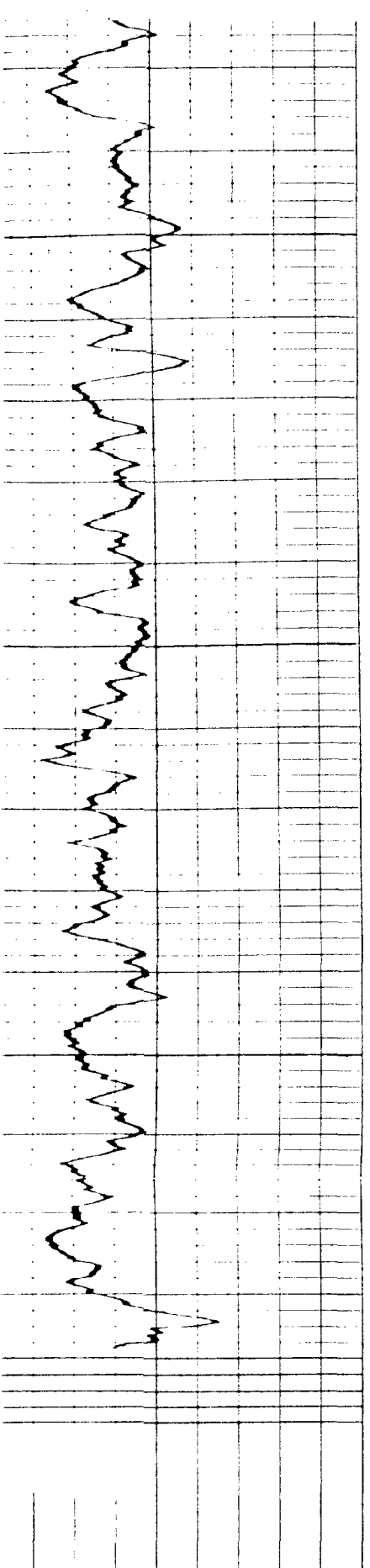


5600

5700



5700



LANE WELLS INDUCTION

A DIVISION OF DRESSER INDUSTRIES, INC.

Electrolog®

FILE NO.

COMPANY CONTINENTAL OIL COMPANY

WELL JICARILLA 30 WELL N^o 2

FIELD JICARILLA GALLUP

COUNTY RIO ARriba STATE NEW MEXICO

LOCATION: 1850 FWL & 790 FNL

Other Services

SEC 29 TWP 25N RGE 4W

Permanent Datum G. L. Elev. 7025

Elevations:
KB 7036
DF 7035
GL 7025

Log Measured from K. B. OR. 11 Ft. Above Permanent Datum

Drilling Measured from K. B.

Date 12-3-63

Run No. ONE

Depth—Driller 6565

Depth—Logger 6565

Bottom Logged Interval 6564

Top Logged Interval 311

Casing—Driller 8 5/8 310

Casing—Logger 311

Bit Size 7 7/8

Type Fluid in Hole CHEM. GEL.

Density and Viscosity 9.7 75

pH and Fluid Loss 8.0

Source of Sample FLOW LINE

Rm. (a) Meas. Temp. 3.3 70

Rmf (a) Meas. Temp. 2.7 64

Rmc (a) Meas. Temp. 4.0 68

Source of Rmf and Rmc MEASURED

Time Since Casing 18 28

Time Since Casing 2 HOURS

Max. Rec. Temp. Deg. F. 128

Equip. No. and Location L-5170 FARM

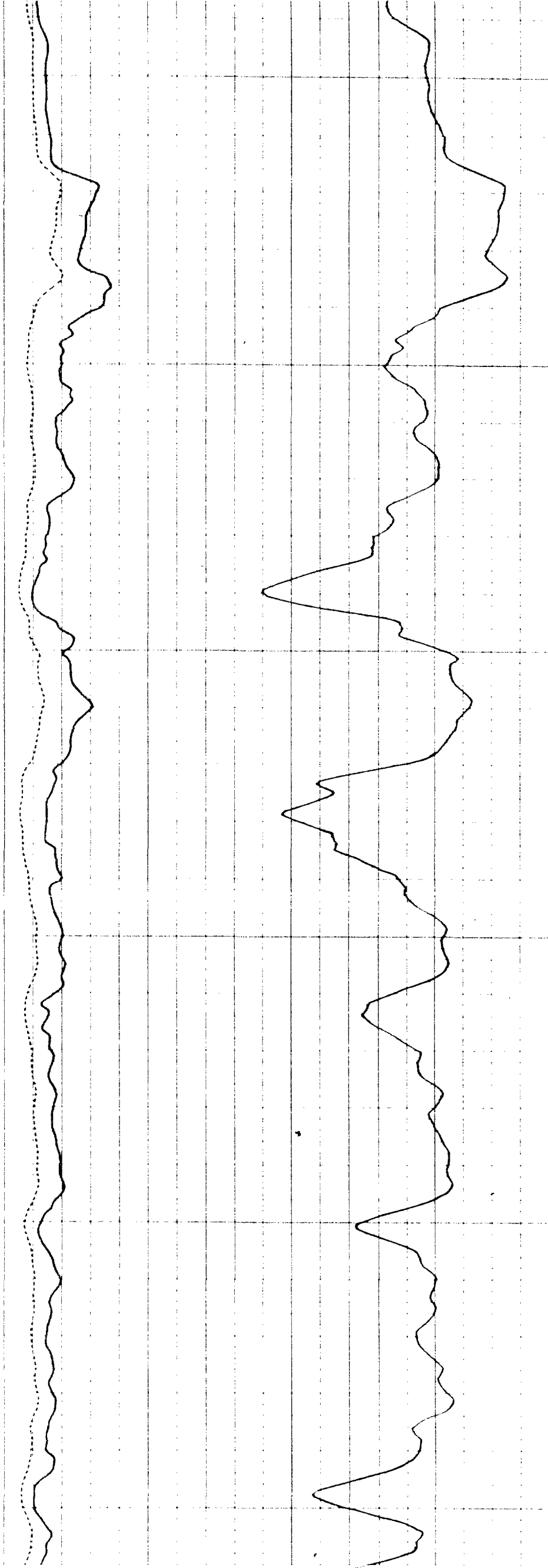
Recorded By

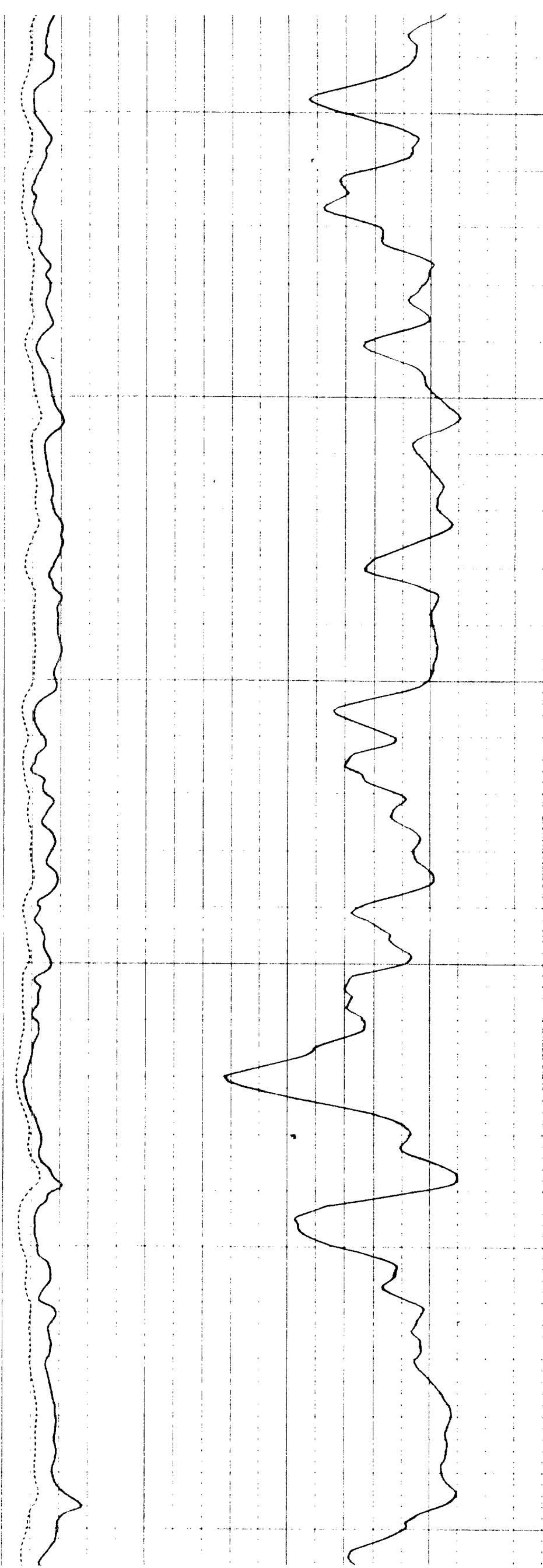


0000

0000

0000

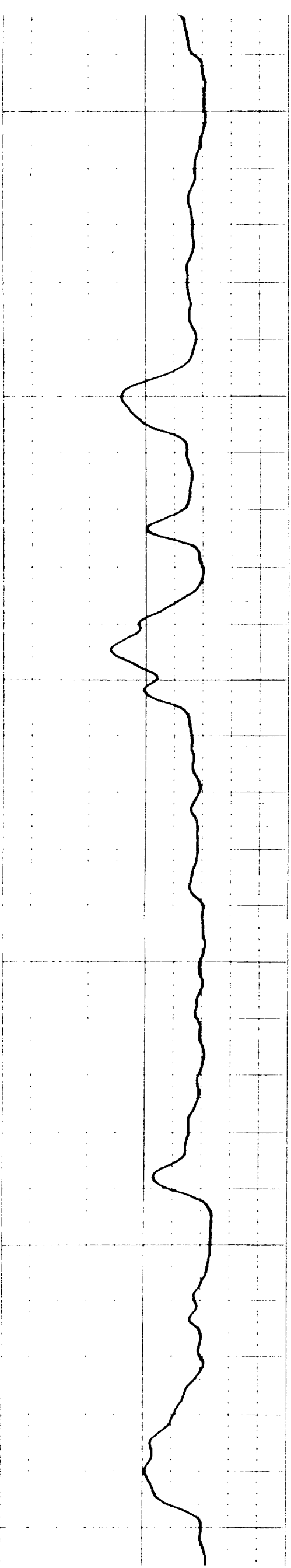


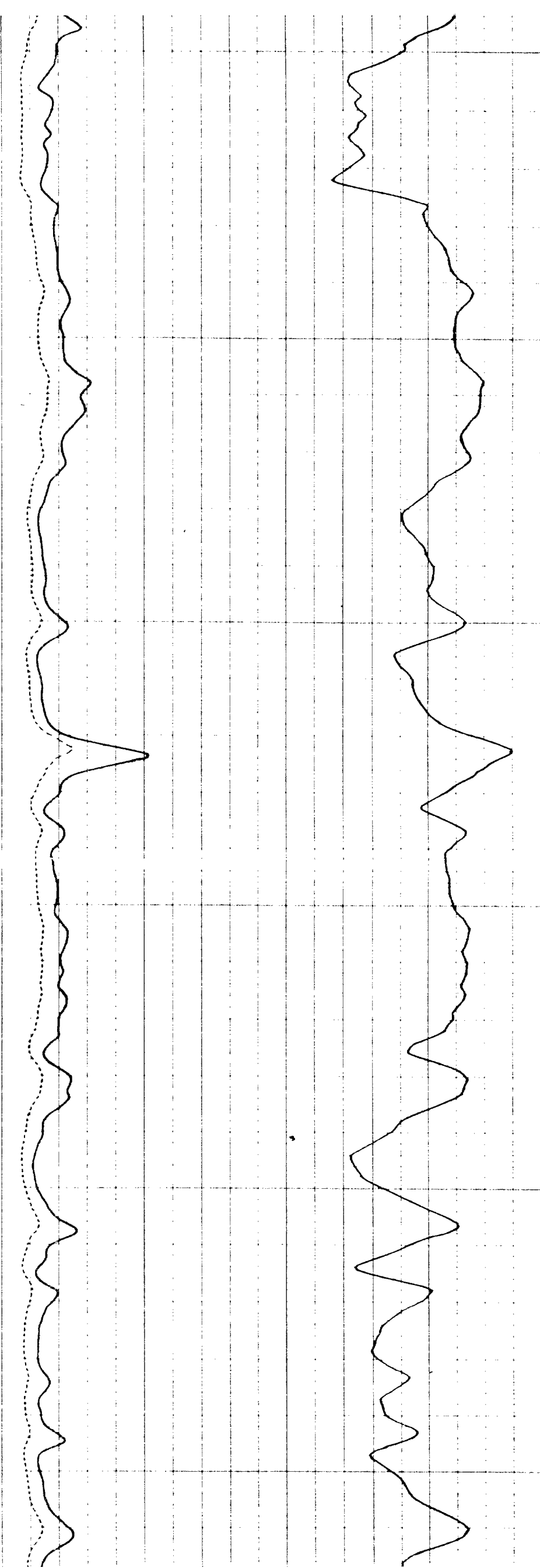


5200

5300

5400





5400

5500

5600

