

OIL CONSERVATION COMMISSION
3 DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 5-21-75

RE: Proposed MC ☒
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Carl Ulvog

Gentlemen:

I have examined the application dated 5-15-75
for the Mesa Petroleum Co Hamilton Fed 2-A NW30-32N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

approve

Yours very truly,

Ernest C. Amey

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form O-107
5-1-61

Operator Mesa Petroleum Co		County San Juan		Date 5-15-75
Address P.O. Box 2009, Amarillo, Texas 79105		Lease Hamilton-Federal		Well No. 2A
Location of Well	Unit F	Section 30	Township 32N	Range 10W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. DC-799; Operator Lease, and Well No.: Mesa Petroleum,
State No. 3

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blanco(Pictured Cliffs)		Blanco(Meseverde)
b. Top and Bottom of Pay Section (Perforations)	2908-18		4453'-5352'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|---|-----------------------------|---|
| Yes ☒ | No ☐ | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| ☒ | ☐ | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| ☒ | ☐ | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| ☒ | ☐ | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

* Copies of the Certified Mail Certificates are attached.

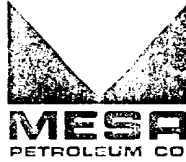
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐. If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Prod. Engr. of the Mesa Petroleum (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

R. J. Flaker
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the zones, a separate application should be filed concurrently with this application.



May 15, 1975

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Application for Dual Completion
Mesa Petroleum Co.
Hamilton Federal No. 2A
SE NW Section 30, T32N-R10W
San Juan County, New Mexico

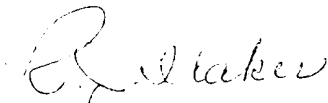
Gentlemen:

In accordance with provisions of Rule 112-A, transmitted herewith is Mesa Petroleum Co.'s application for administrative approval to dually complete the referenced well in the Blanco Pictured Cliffs to Blanco Mesaverde gas pools. A plat of the lease and diagram of the proposed installation is attached to the application.

Each offset operator is being furnished copies of our application together with waivers requesting their consent to the proposed dual completion.

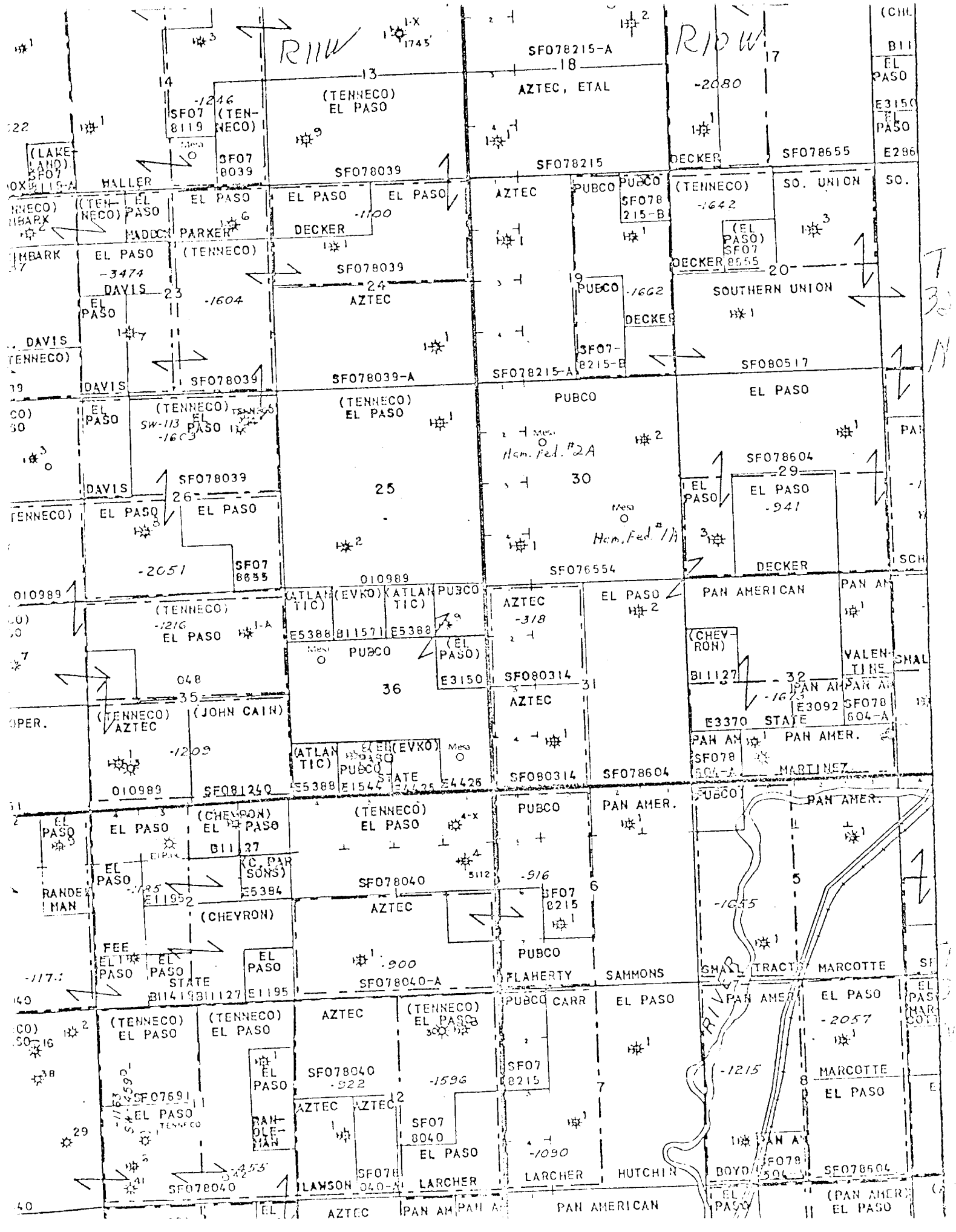
Your review and approval of this application will be appreciated.

Sincerely yours,


R. J. Flaker

RJF/pkt

enclosures



R11W

R10W

(CHL)
B11
EL PASO
E3150
EL PASO
E286

SO. UNION
SO.

PA

SCH

VALEN
TINE
SHAL

PAN AM
PAN AM

PAN AM
PAN AMER.

PAN AM
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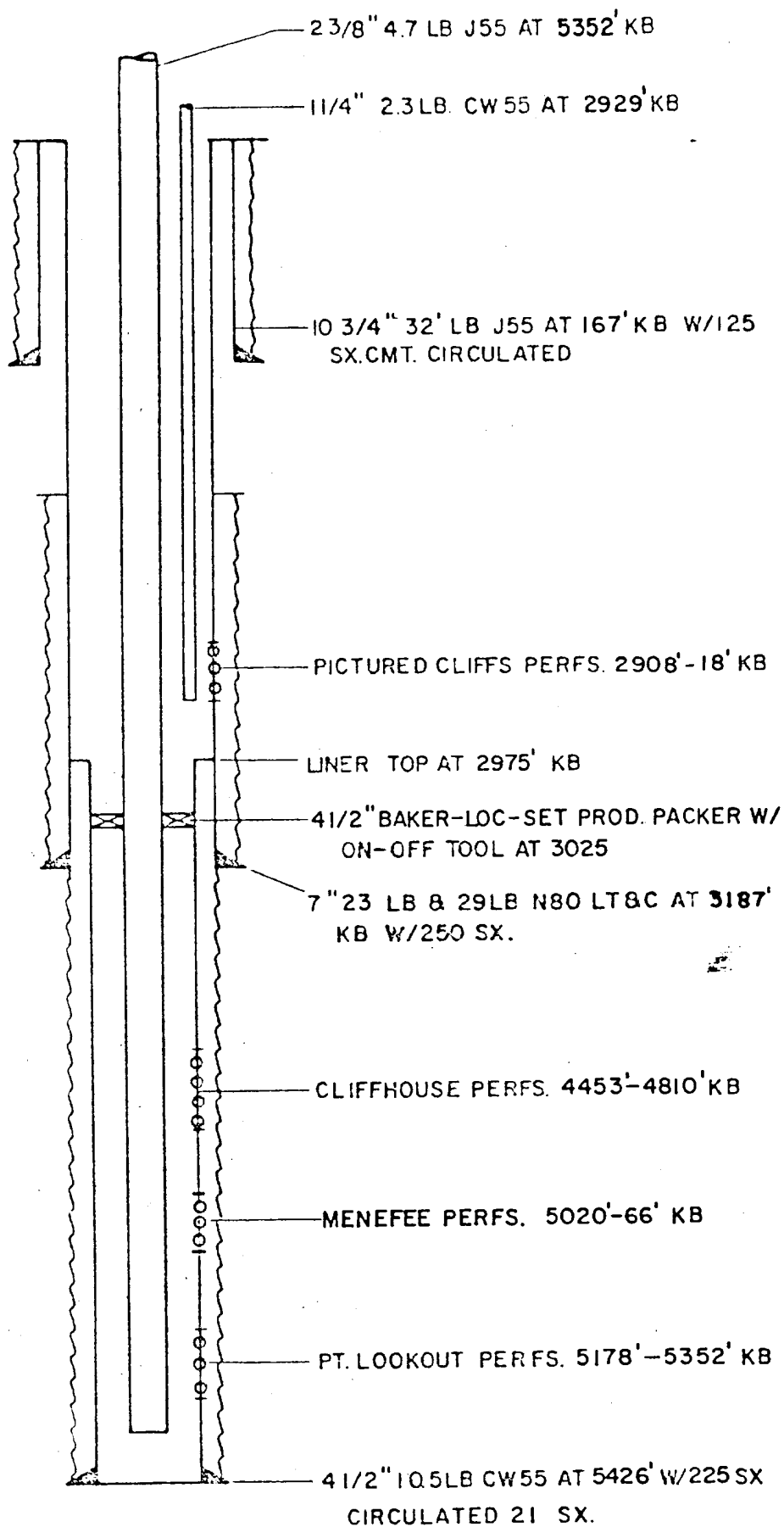
PAN AMER.

PAN AMER.

PAN AMER.

HAMILTON FED. 2A

Sec. 30, T30N-R10W





COMPENSATED

Densilog
DO NOT REMOVE FROM OFFICE
RECEIVED MAR 3 1975

FILE NO. FM-5119

COMPANY MESA PETROLEUM CO. MAR 14 1975

WELL HAMILTON FEDERAL #2A

ATMA. PROD.

FIELD BLANCO MESAVERDE

COUNTY SAN JUAN STATE N. MEX.

LOCATION:

1650' FNL - 1650' FWL

Other Services

IEL

SEC 30 TWP 32N RGE 10W

Permanent Datum G.L. Elev. 6091

Log Measured from K.B. 13.0 Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations:

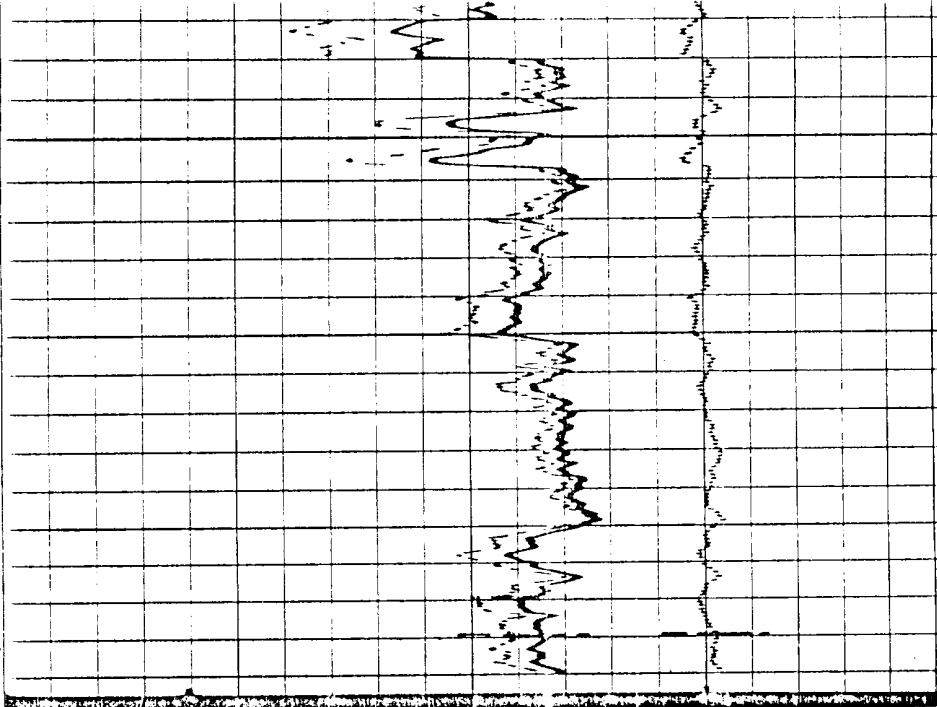
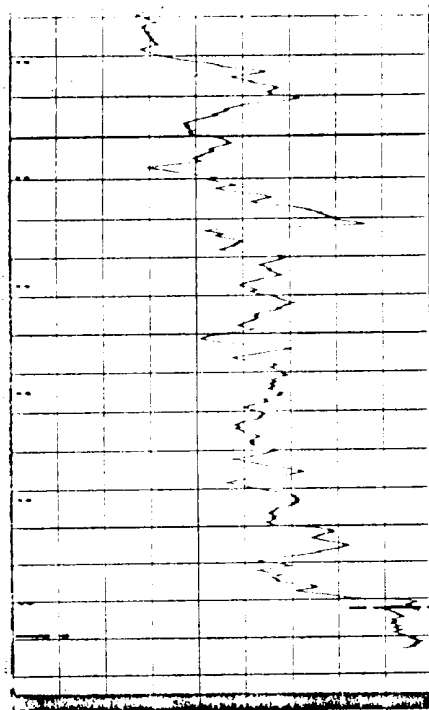
KB 6104

DF 6103

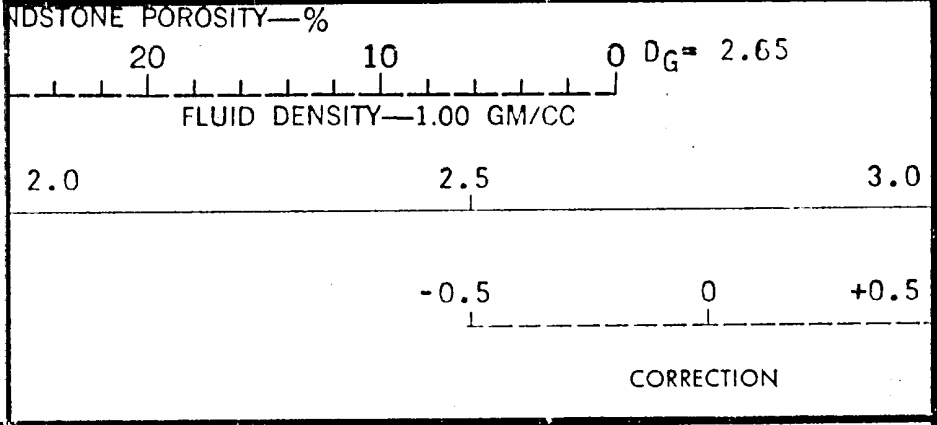
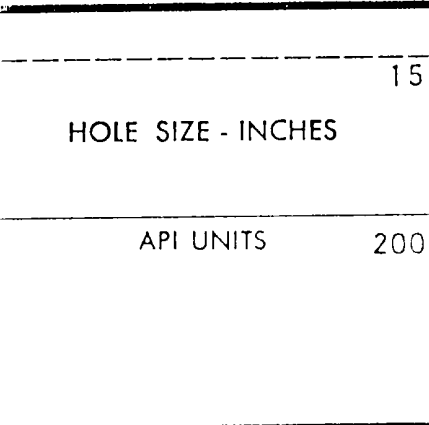
GL 6091

Date	2-14-75	2-21-75		
Run No.	ONE	TWO		
Depth—Driller	3180	5436		
Depth—Logger	3188	5431		
Bottom Logged Interval	3186	5429		
Top Logged Interval	1500	3900		
Casing—Driller	10 3/4 @ 160	7" @ 3187	@	(2)
Casing—Logger	160	3187		
Bit Size	8 3/4	6"		
Type Fluid in Hole	CHEM-GEL	GAS-DRILLED		
Density and Viscosity	10.9 50	- -		
pH and Fluid Loss	10.5 6.0 cc	- - cc		cc
Source of Sample	CIRC	-		
Rm @ Meas. Temp.	2.3 @ 60 °F	- @ - °F	@ °F	(2) °F
Rmf @ Meas. Temp.	1.6 @ 60 °F	- @ - °F	@ °F	(2) °F
Rmc @ Meas. Temp.	2.8 @ 60 °F	- @ - °F	@ °F	(2) °F
Source of Rmf and Rmc	M M	- -		
Rm @ BHT	1.3 @ 105 °F	- @ - °F	@ °F	(2) °F
Time Since Circ.	3 HRS	-		
Max. Rec. Temp. Deg. F.	105 °F	174 °F		°F
Equip. No. and Location	6103 FARM	6103 FARM		
Recorded By	SIMON	SIMON		
Witnessed By	MR. LATCH	MR. LATCH		

*Tops
perfs on 5"*



RUN TWO



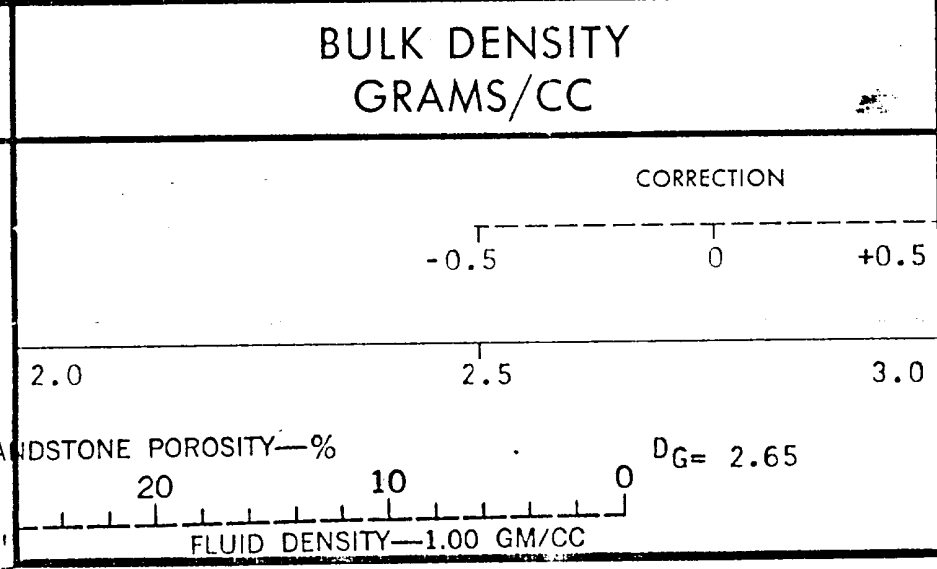
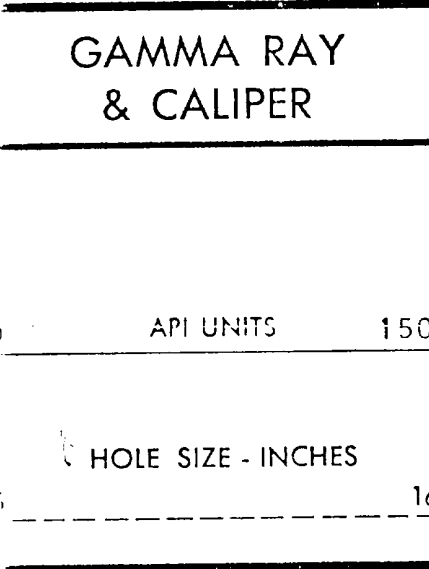
GAMMA RAY
& CALIPER

DEPTH

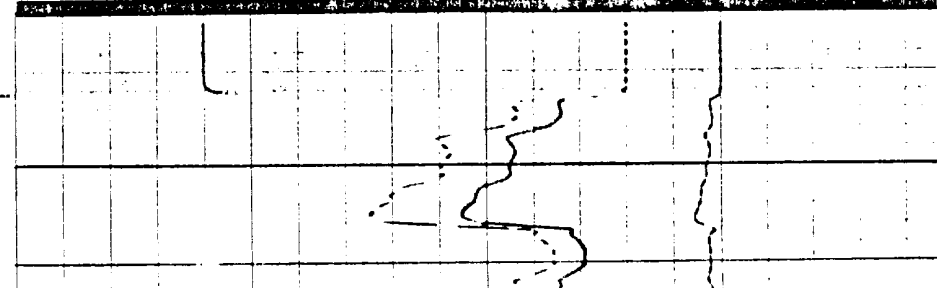
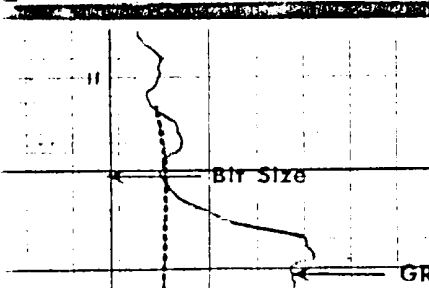
BULK DENSITY
GRAMS/CC

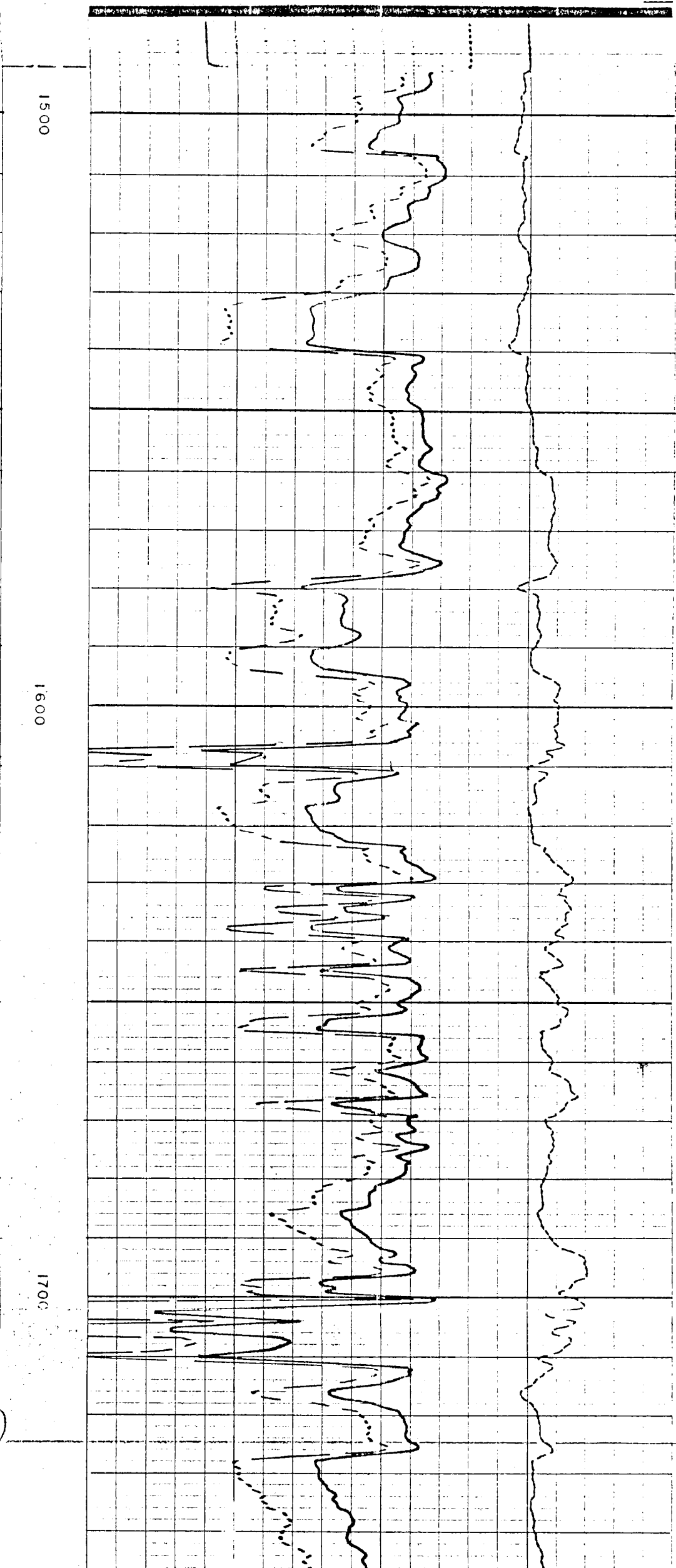
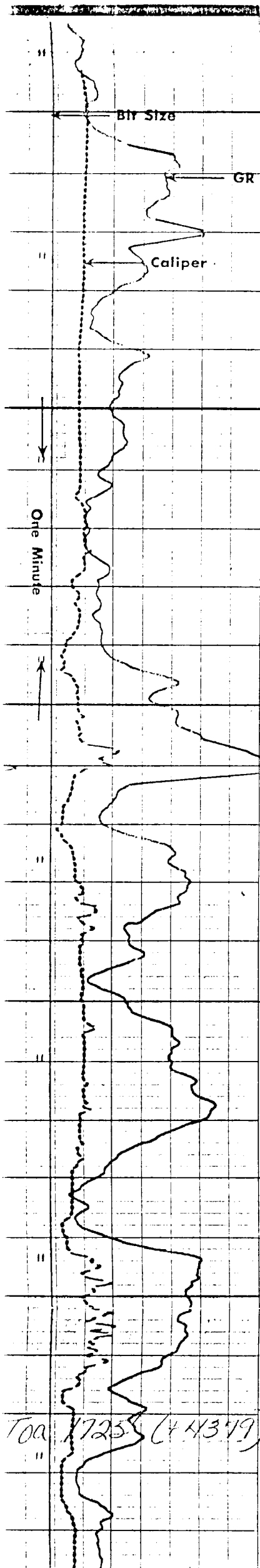
Company MESA PETROLEUM CO.
Well HAMILTON FEDERAL # 2A
Field BLANCO MESAVERDE
County SAN JUAN
State NEW MEXICO

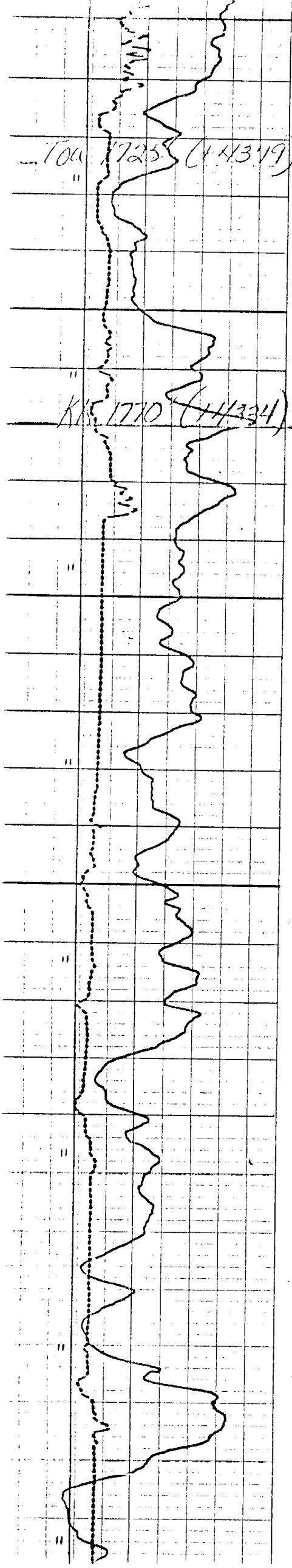
Drillers T.D. 5436
Log F.R. 5429
Log T.D. 5431
Elevations:
K.B. 6104 D.F. 6103 G.L. 6091



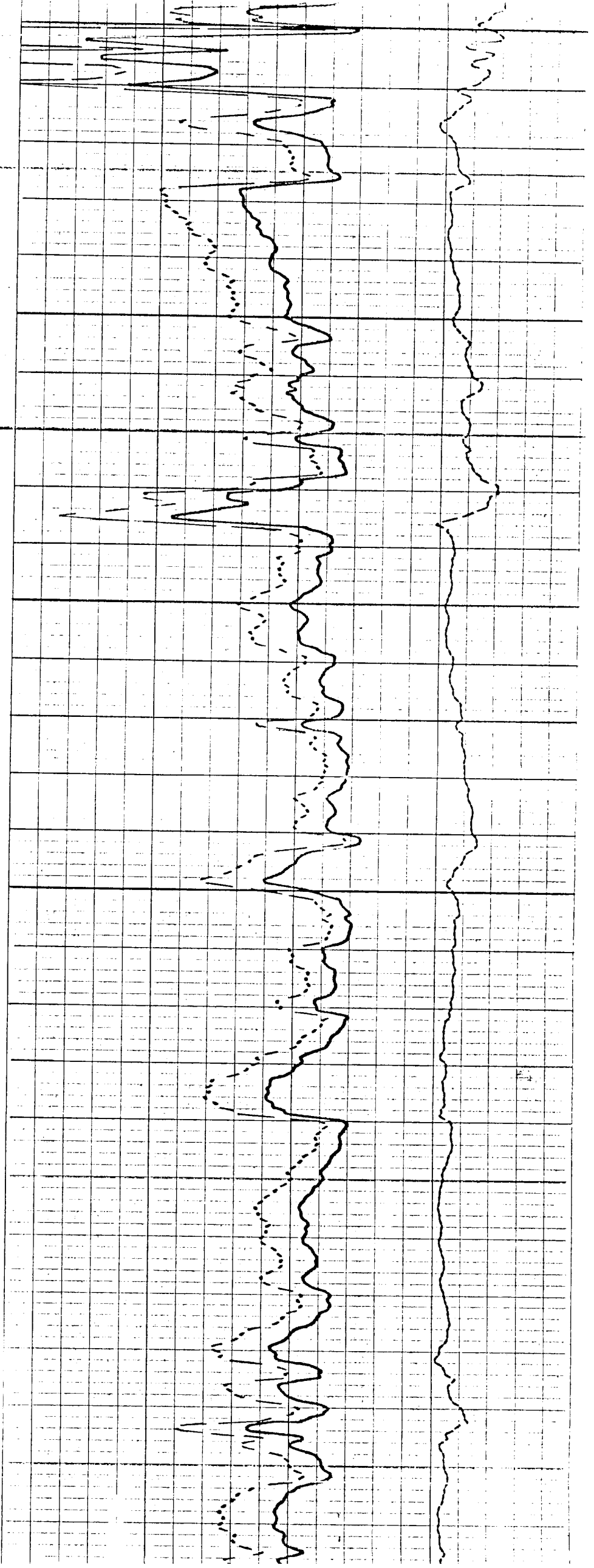
5"=100'
RUN ONE

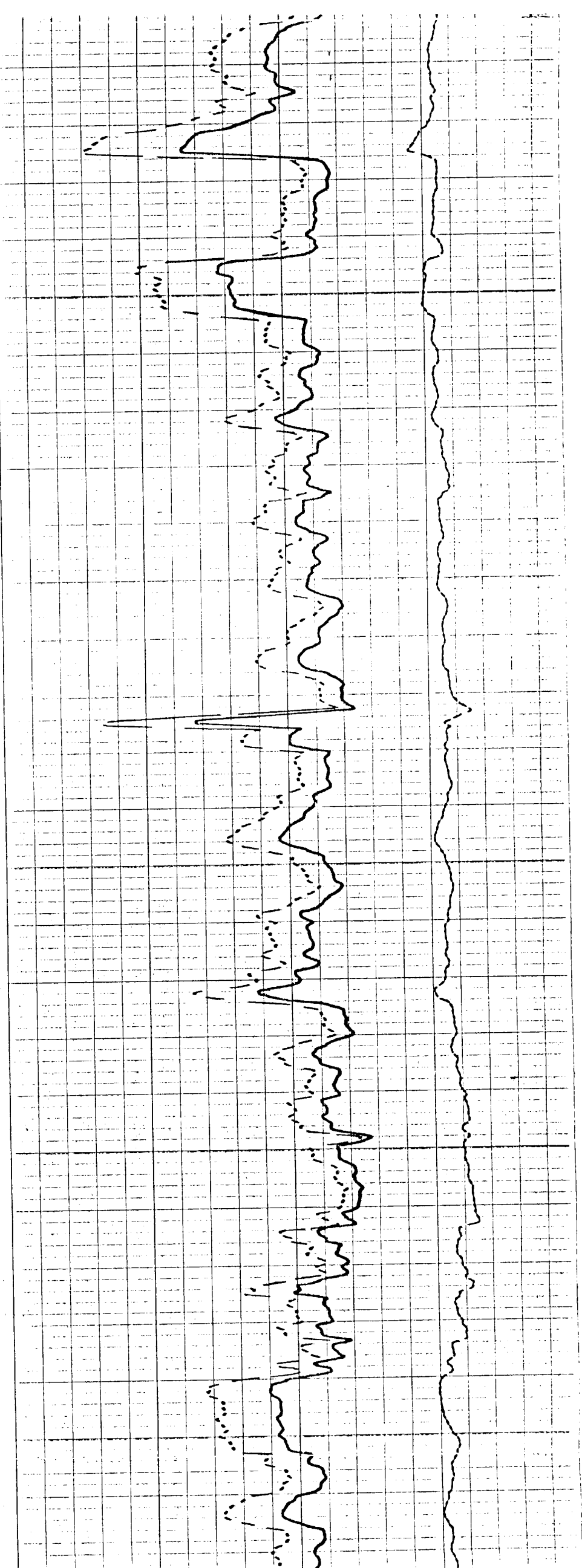






700
1800
1900

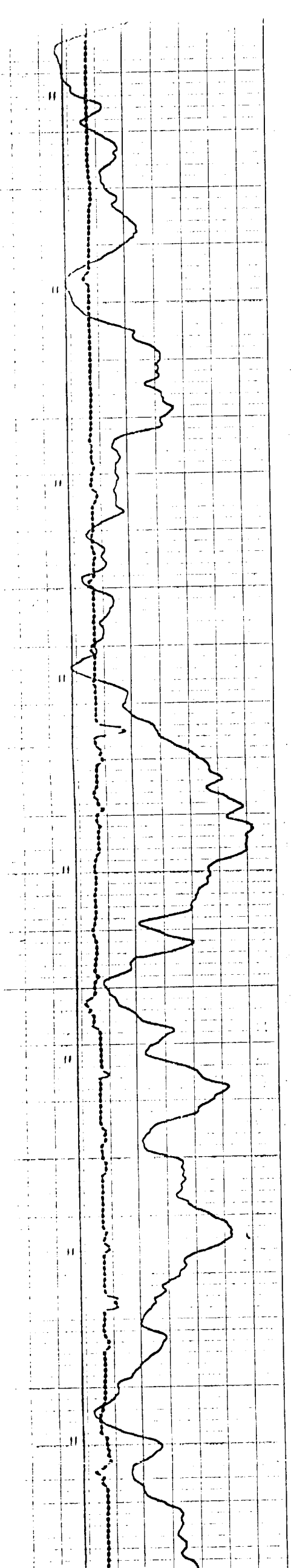


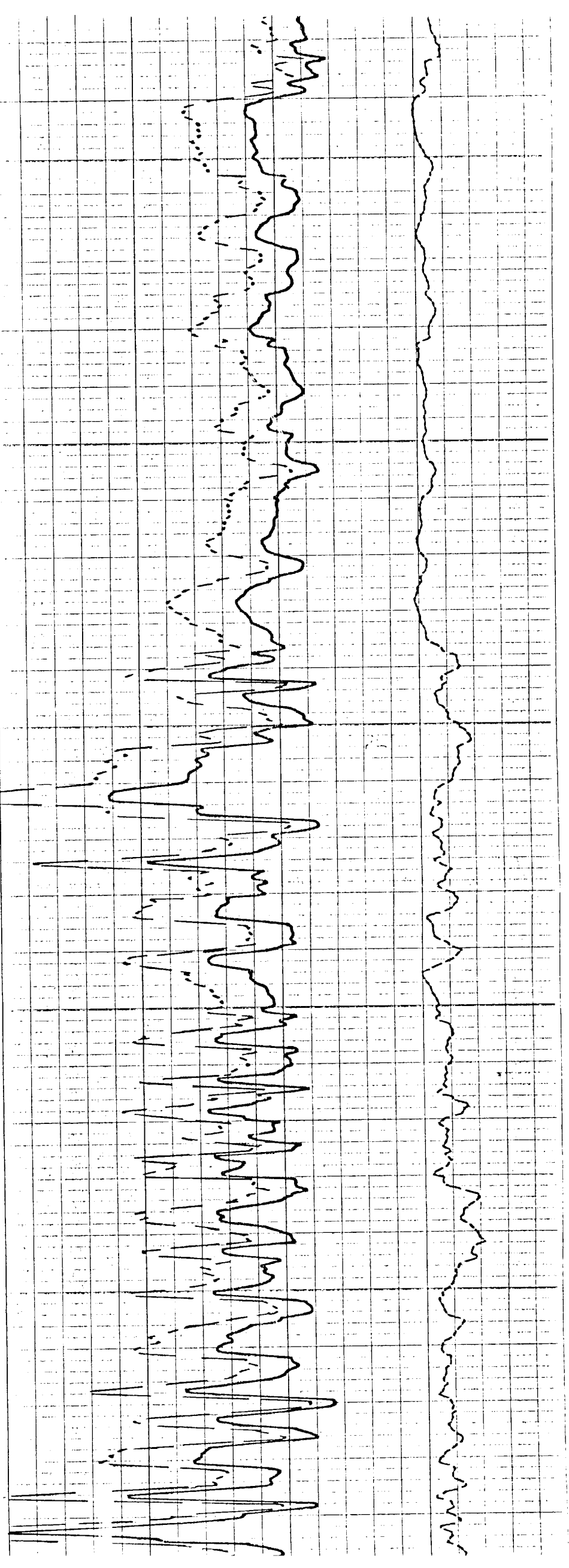


2000

2100

2200

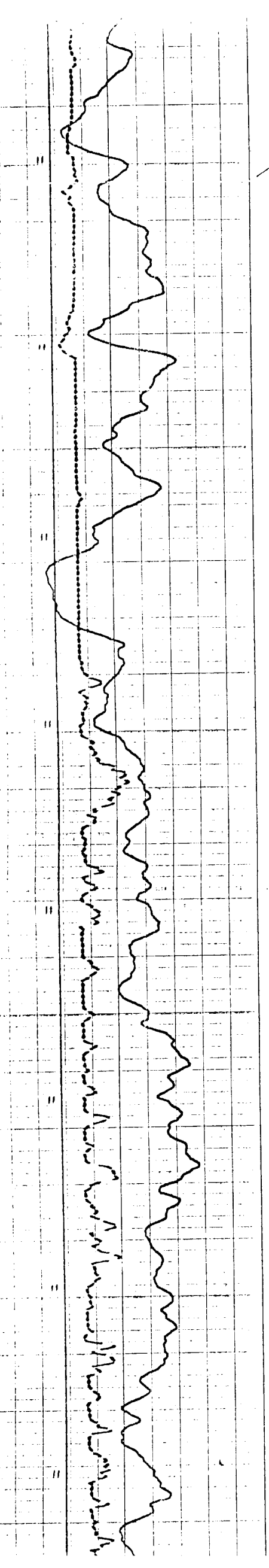


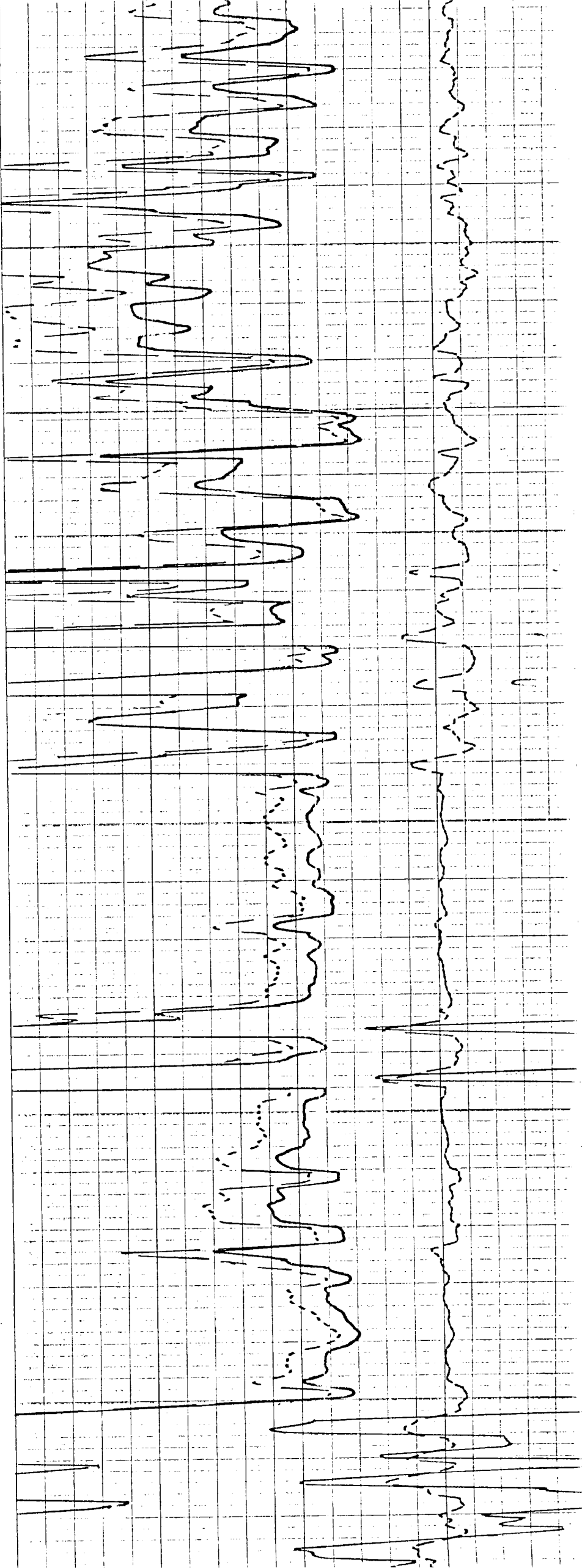


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2300

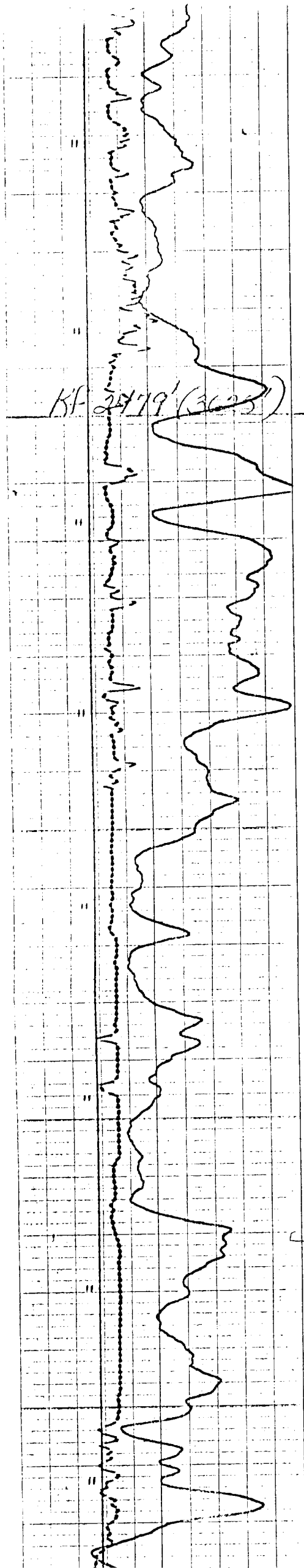
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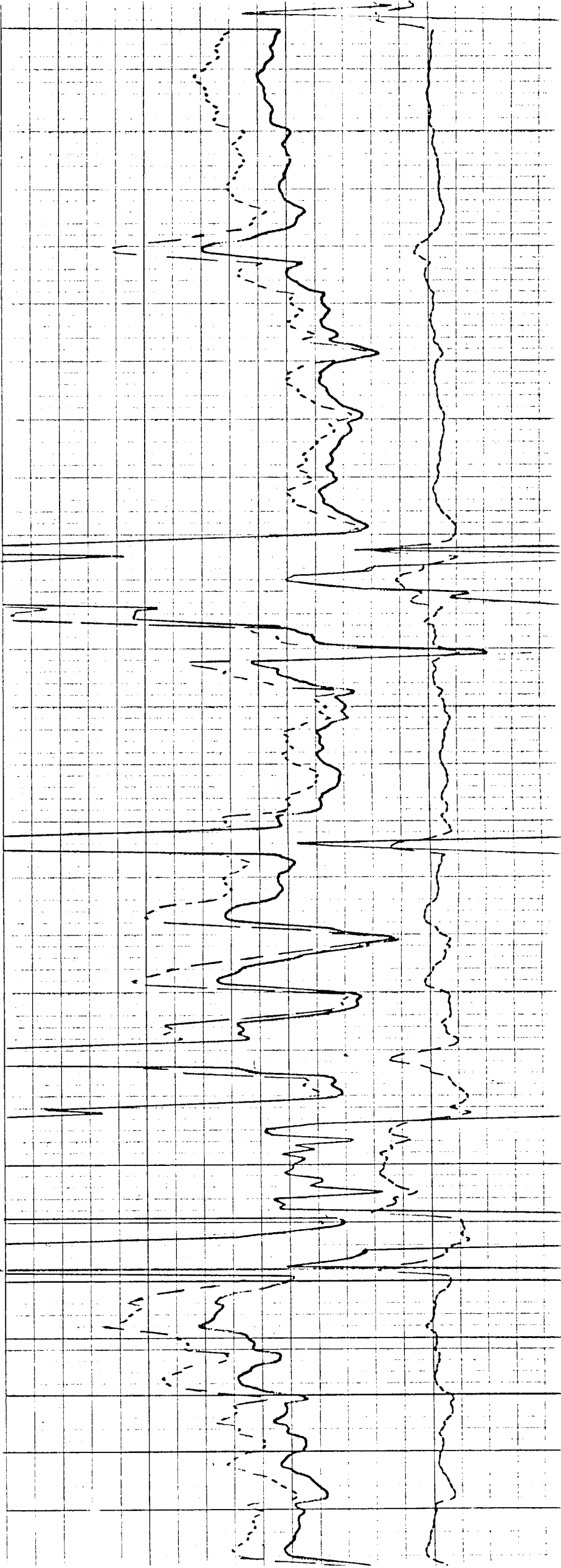




2500

2600

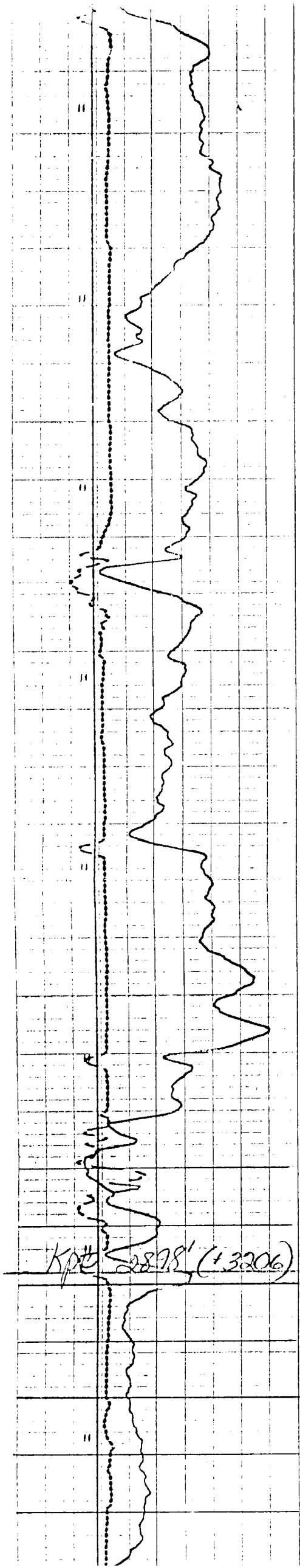


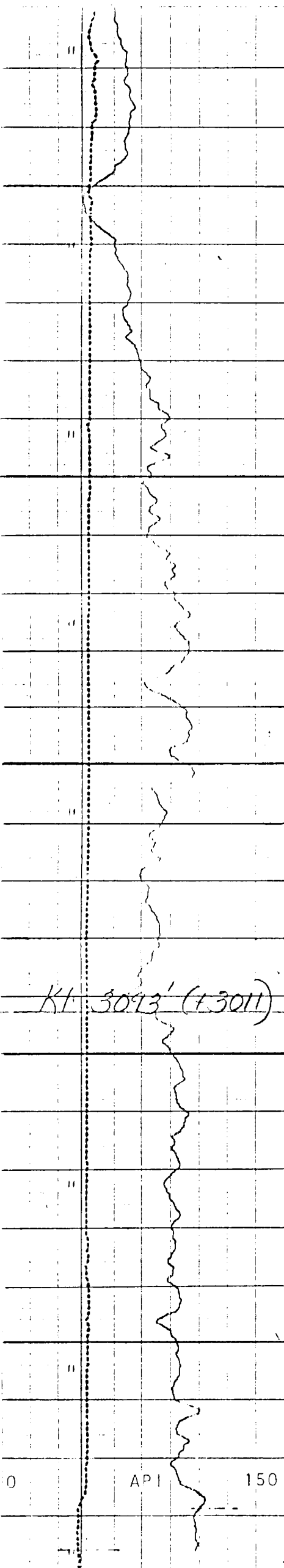


2700

2800

2900

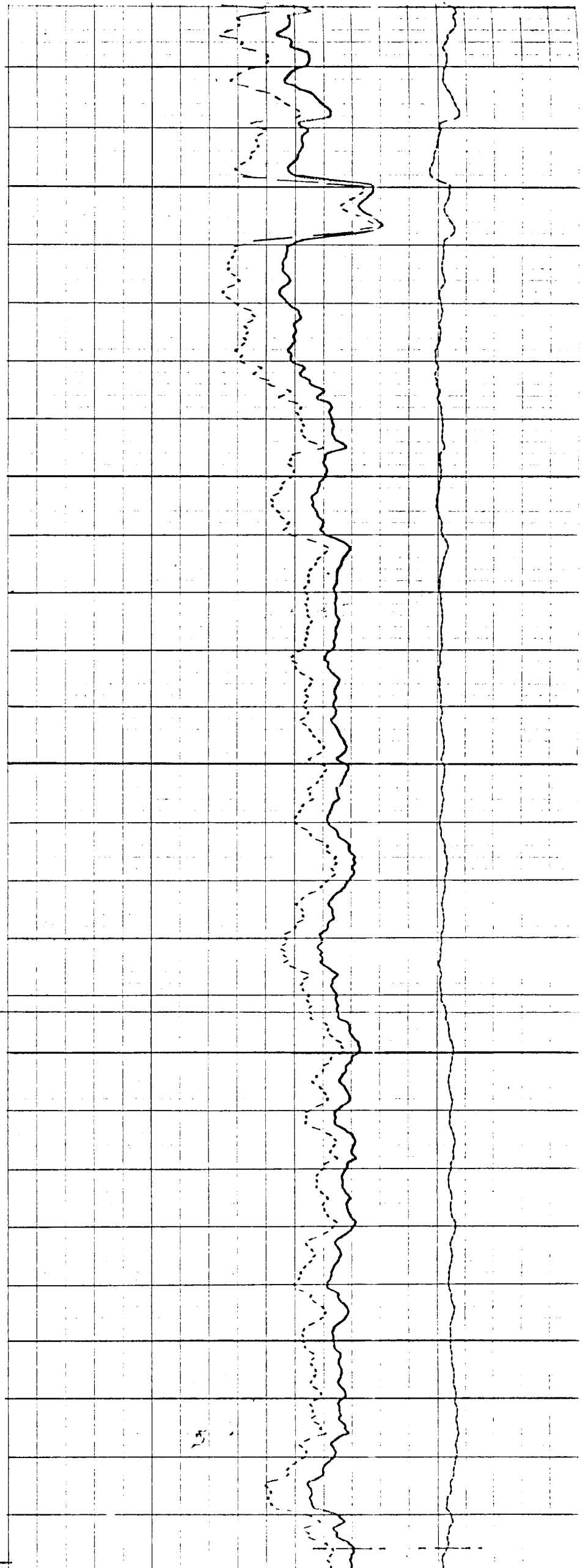


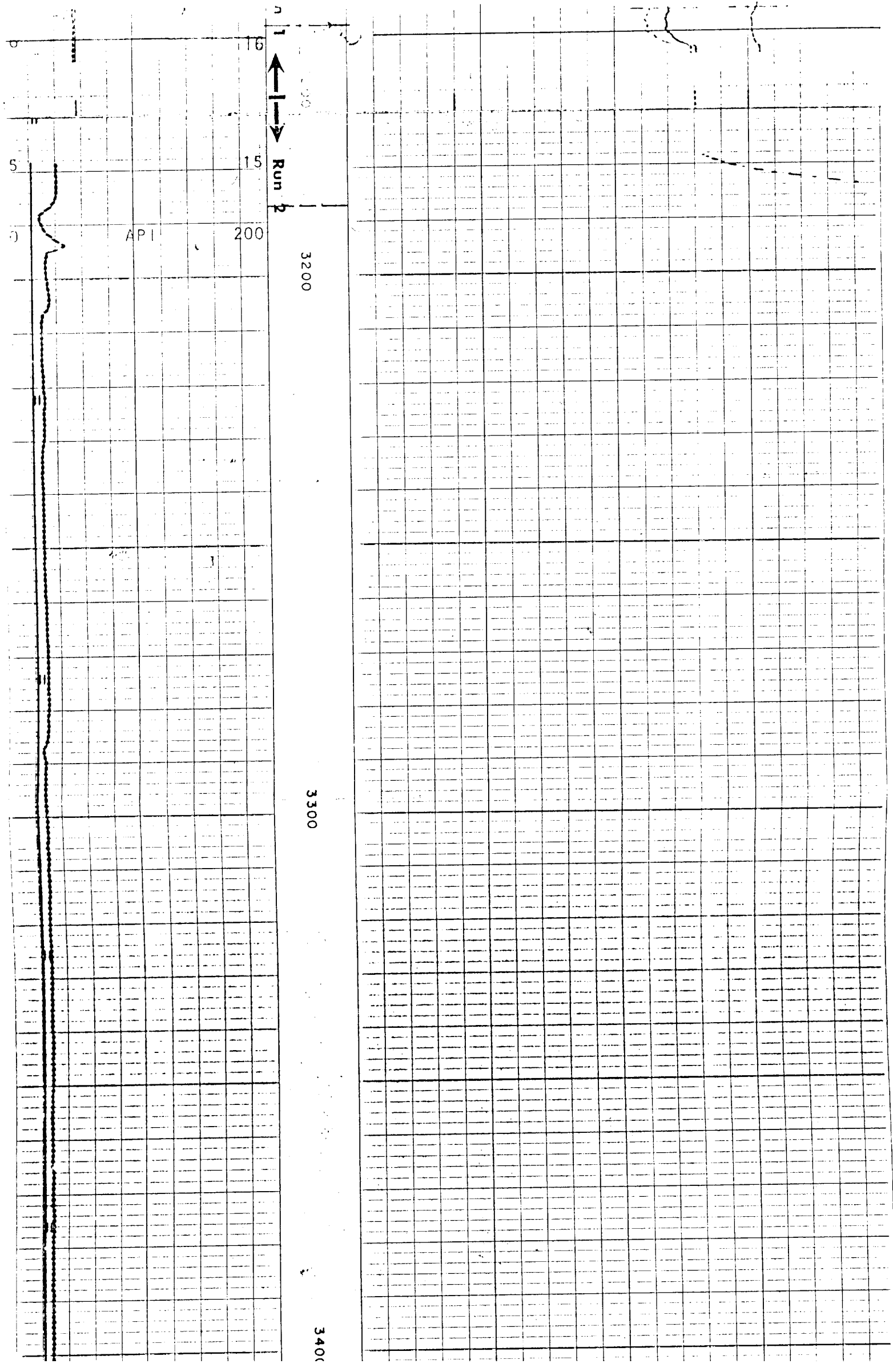


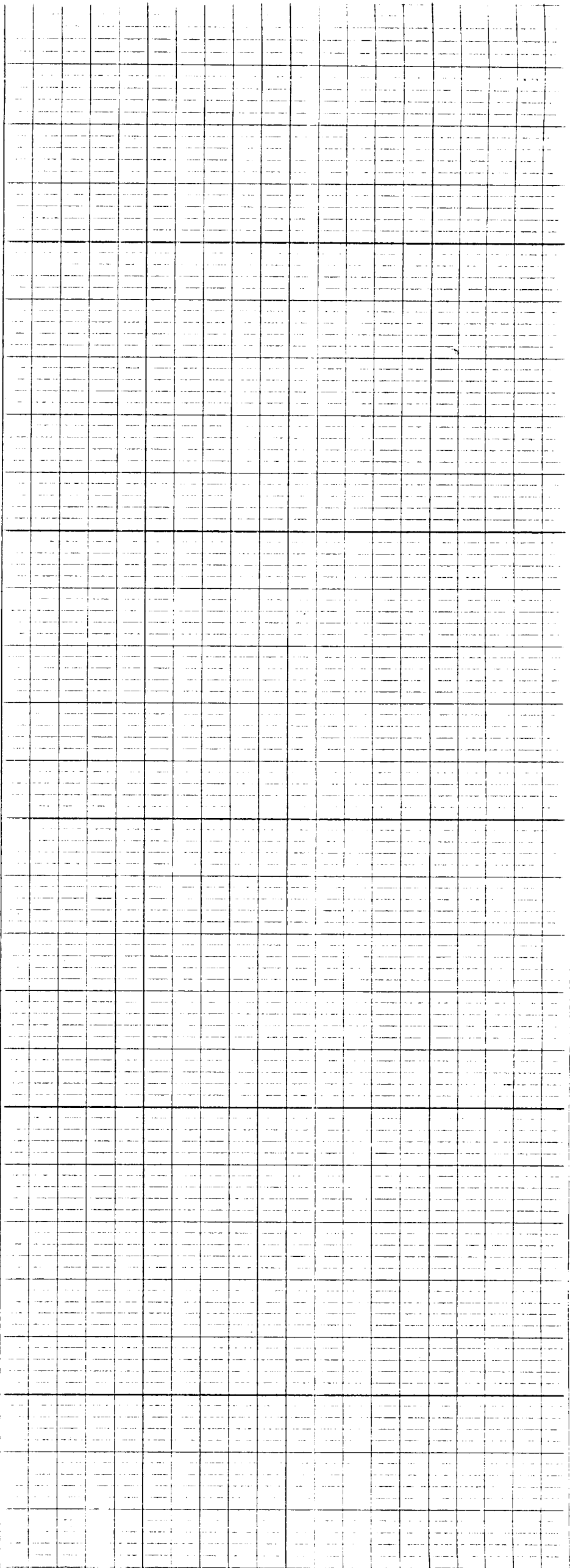
3000

3100

KI 3093' (+3011)

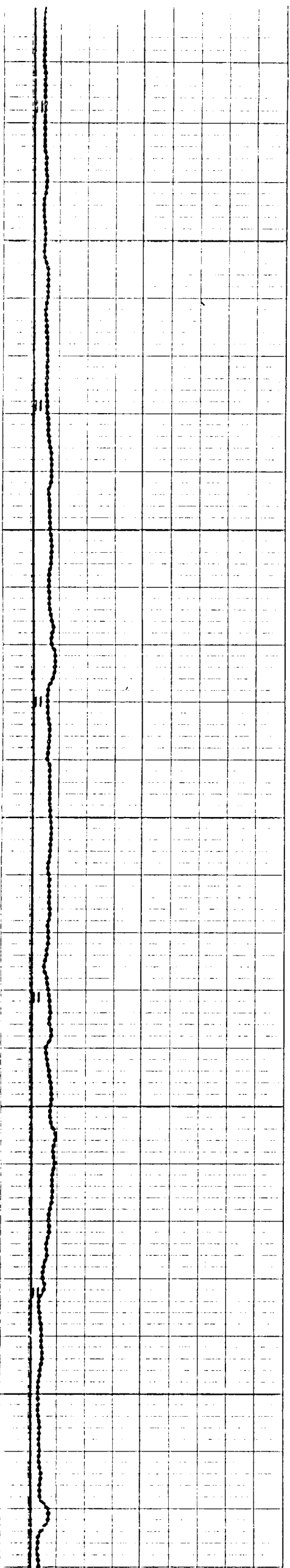


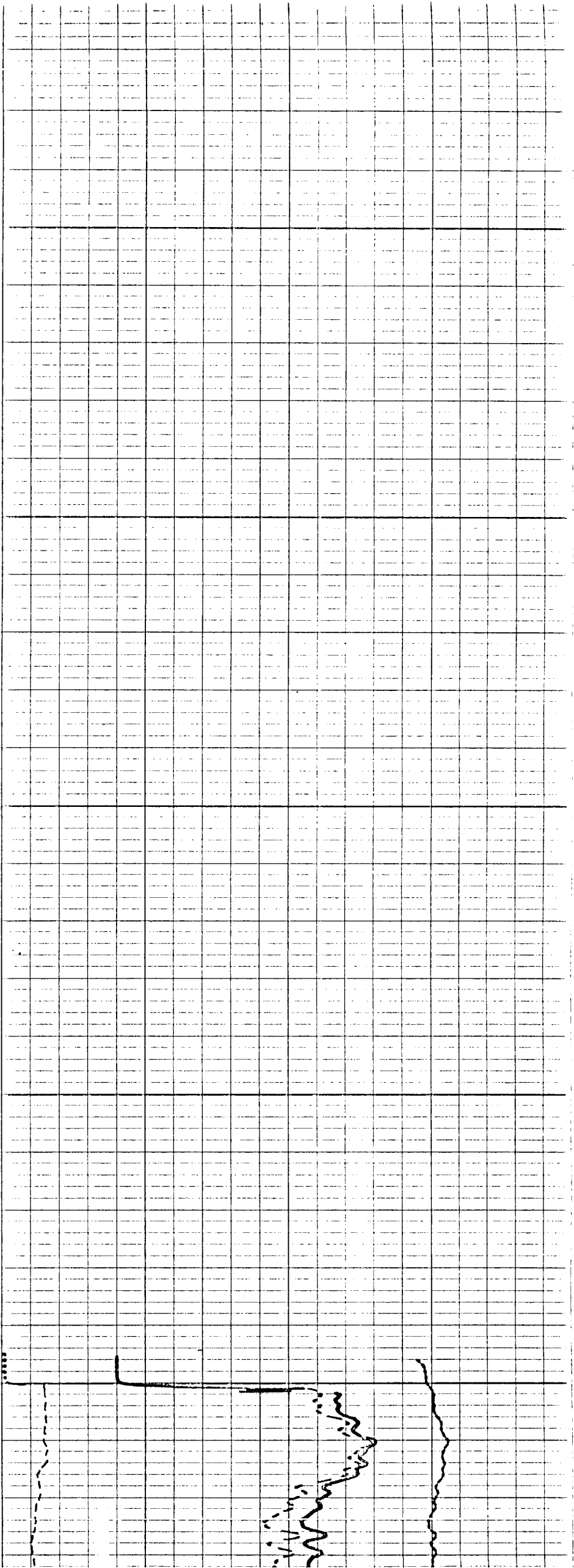




3500

3600

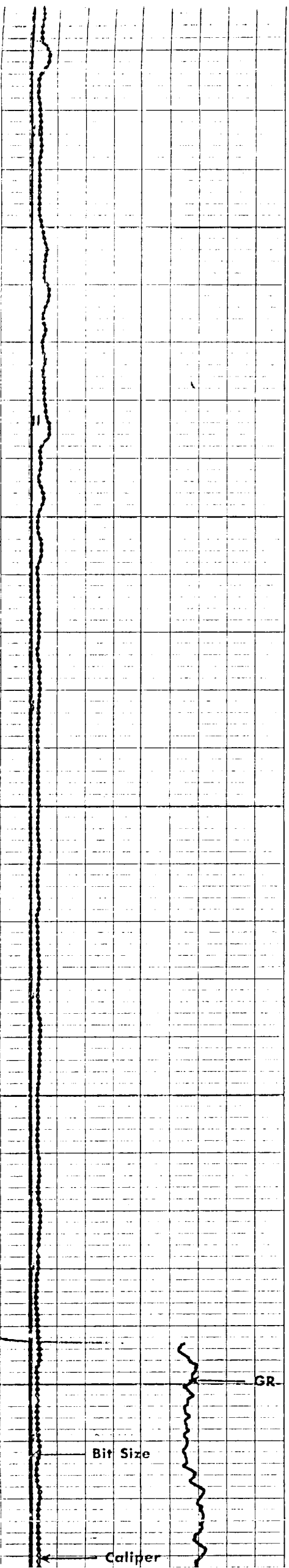


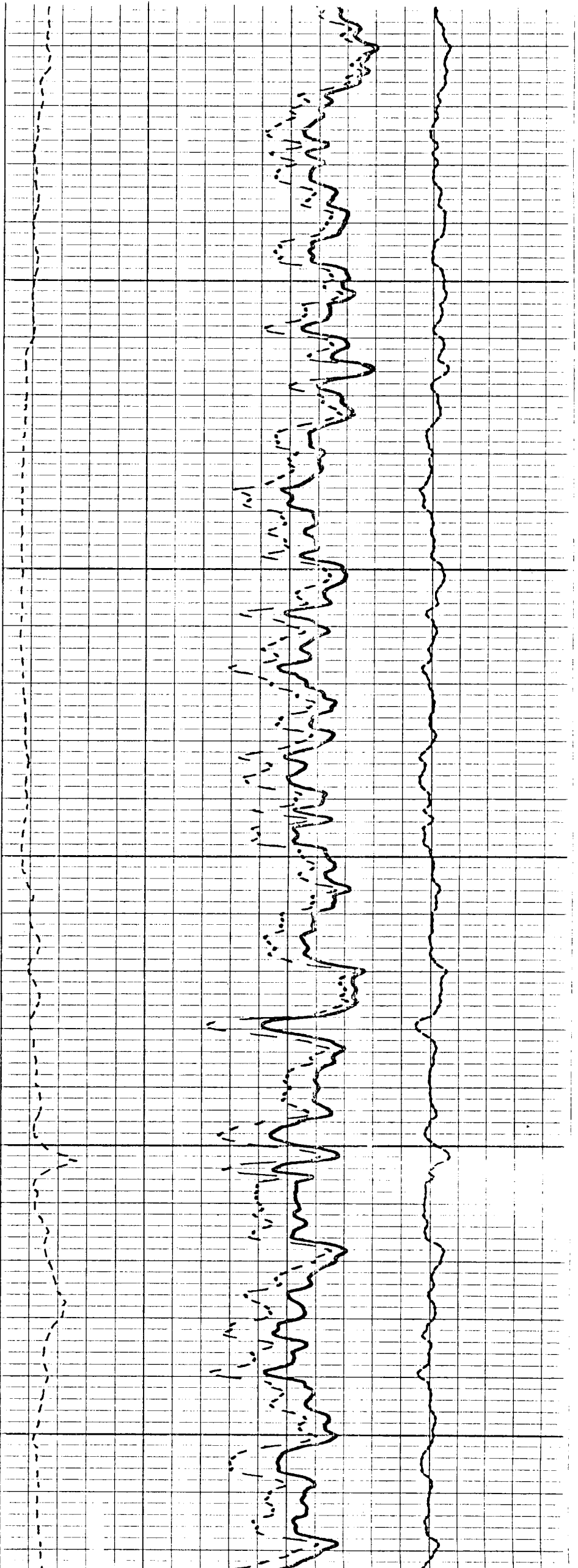


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3800

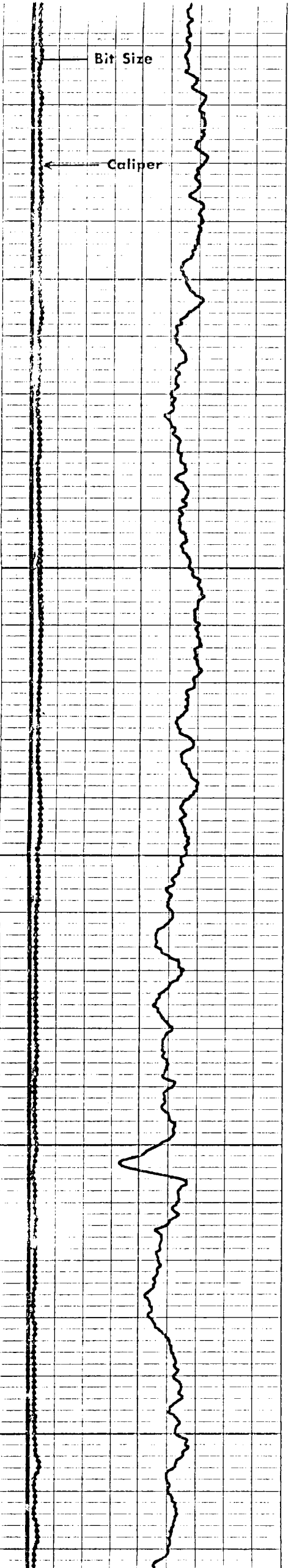
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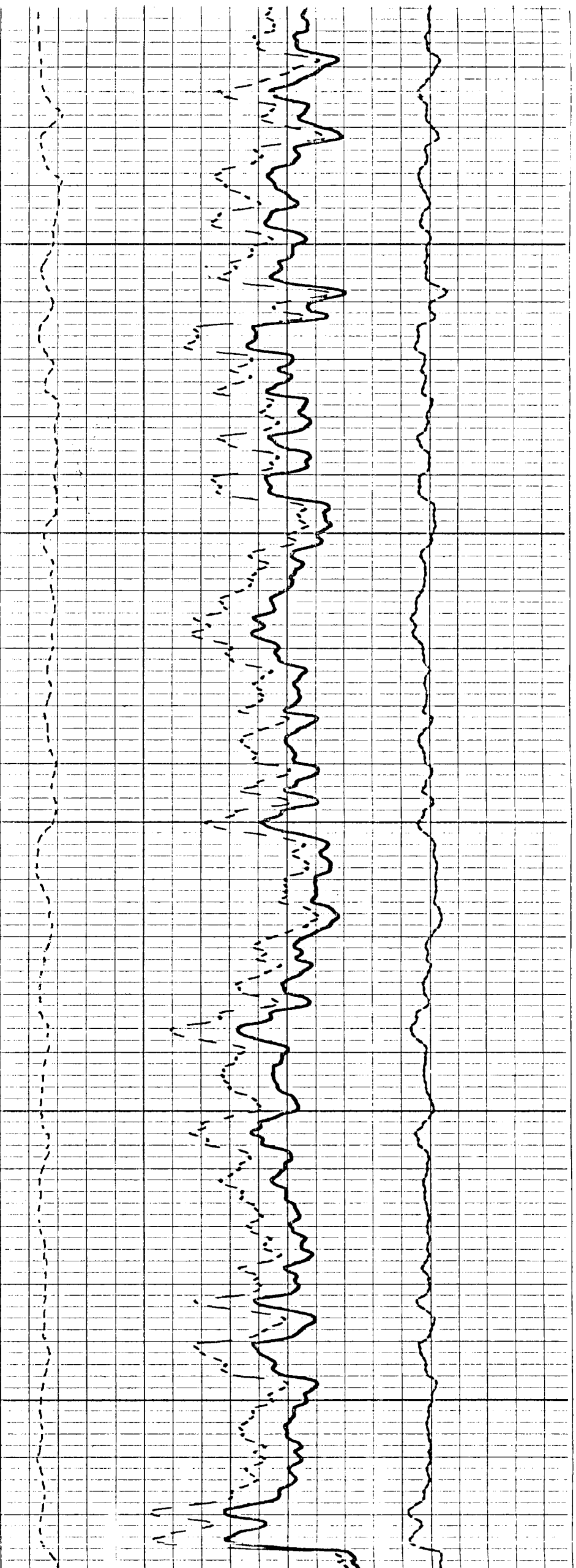




4000

4100

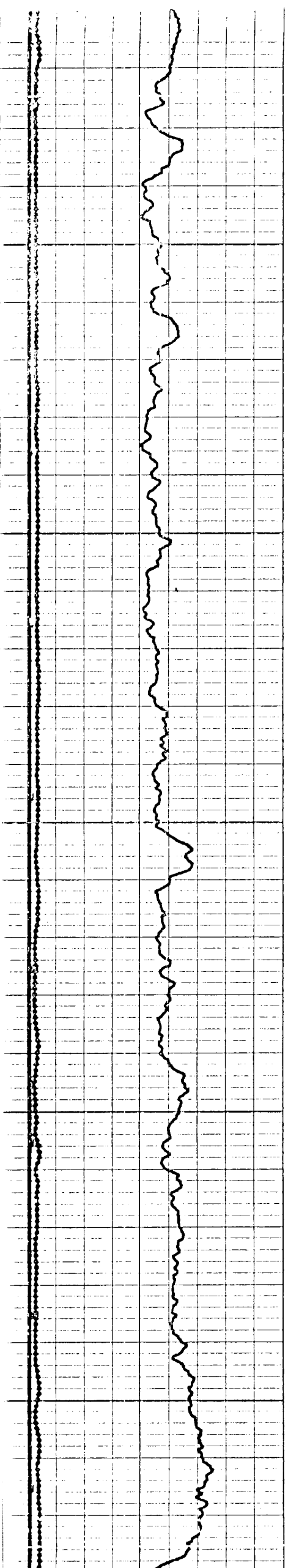


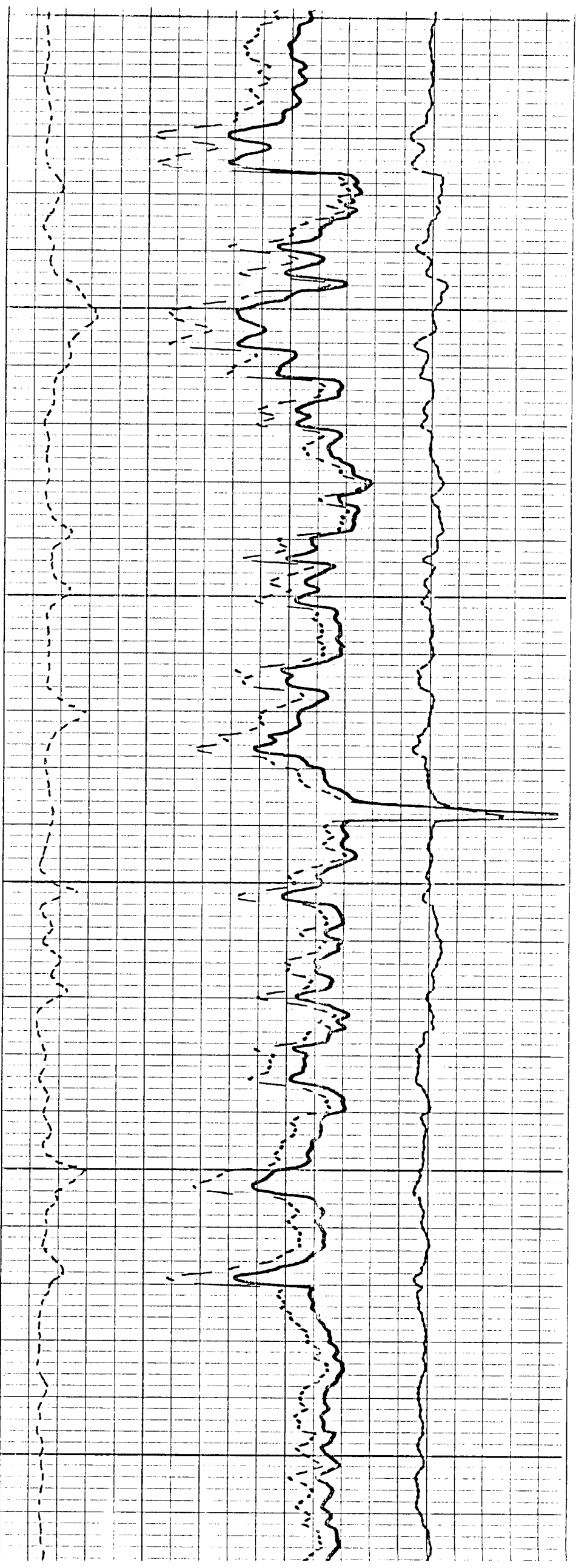


4200

4300

4400





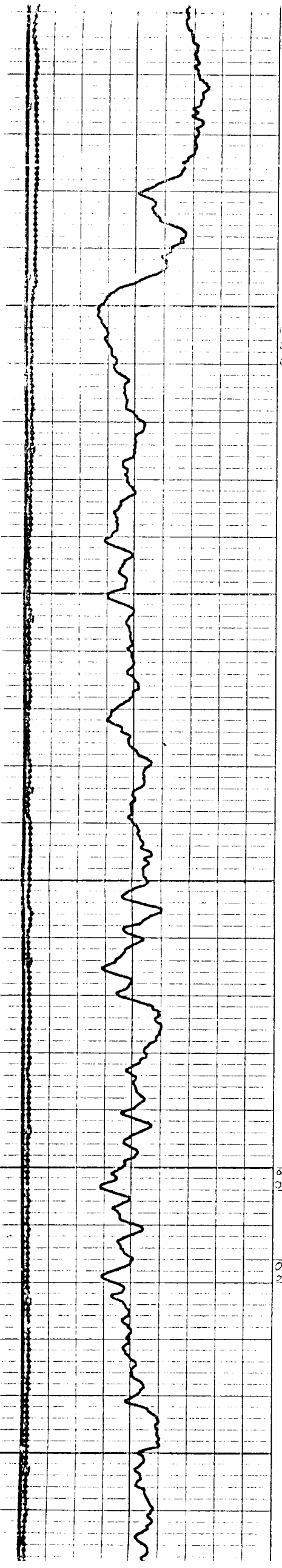
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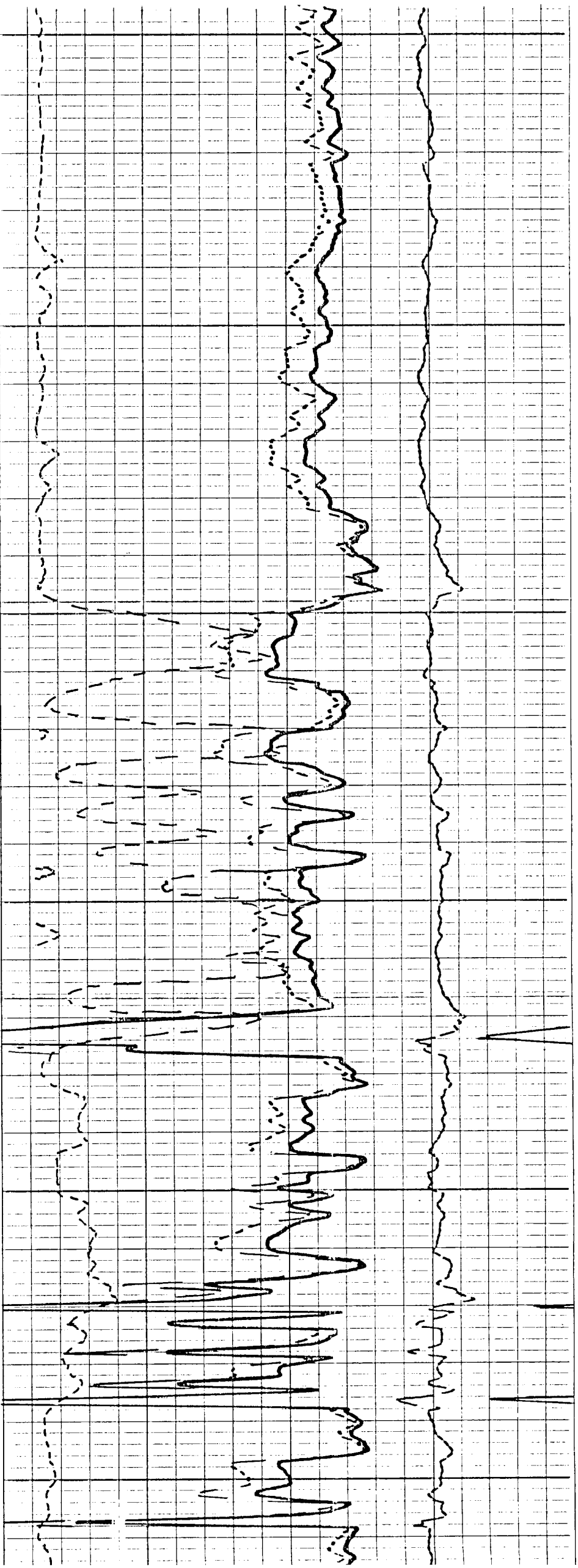
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0 0 0

0 0

0 0





4700

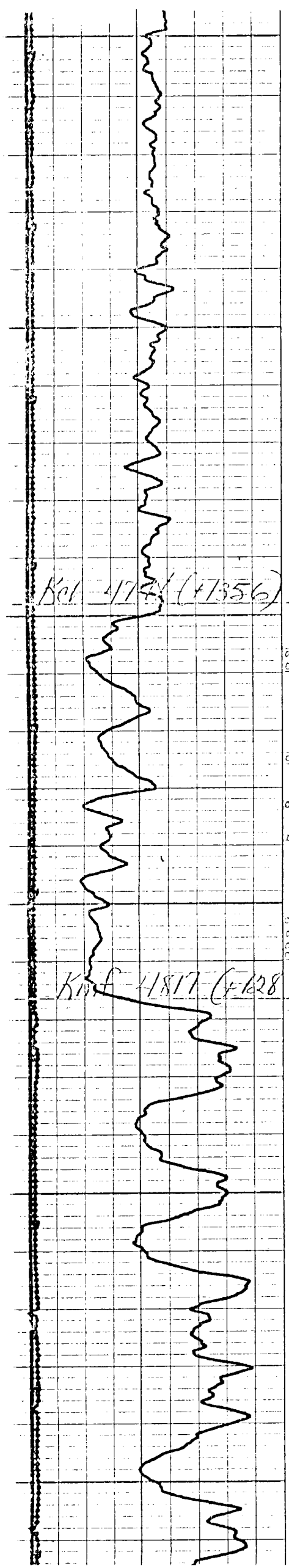
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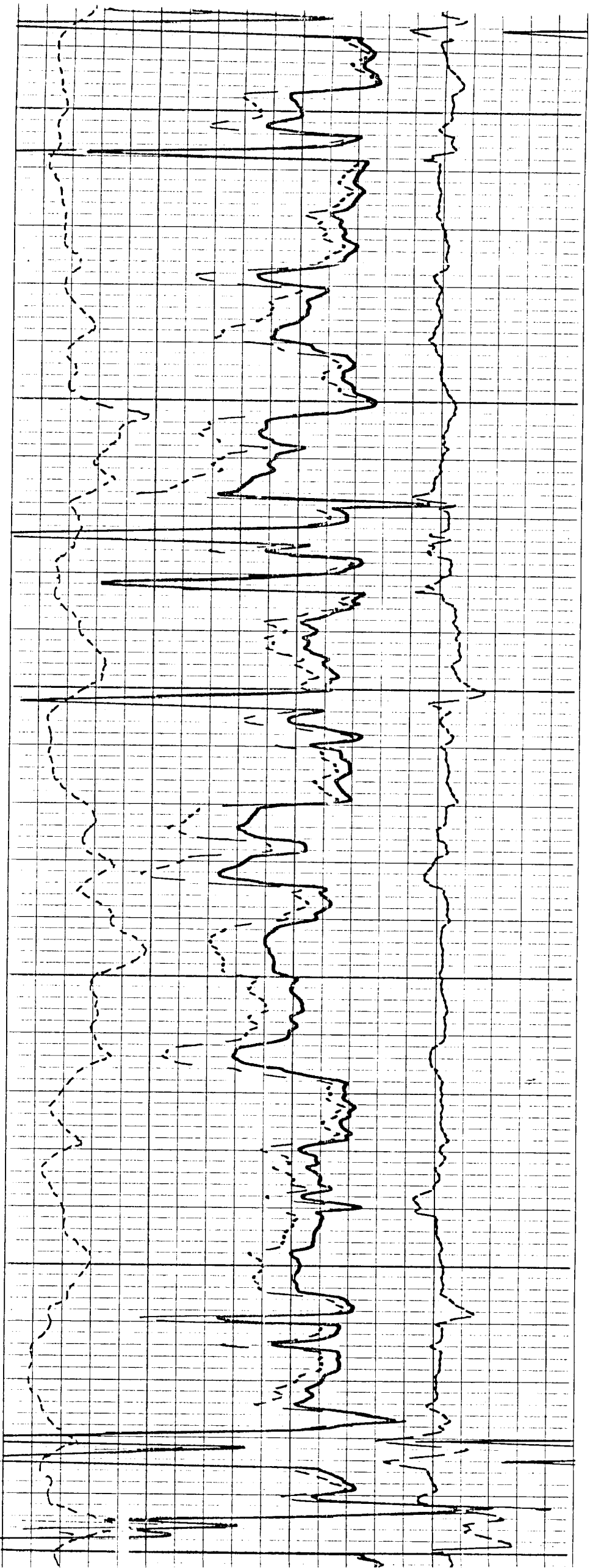
4900

50 50 50 50 50 50 50 50 50 50

Kel 4774 (+1356)

Kel 4817 (+1287)





4900

5000

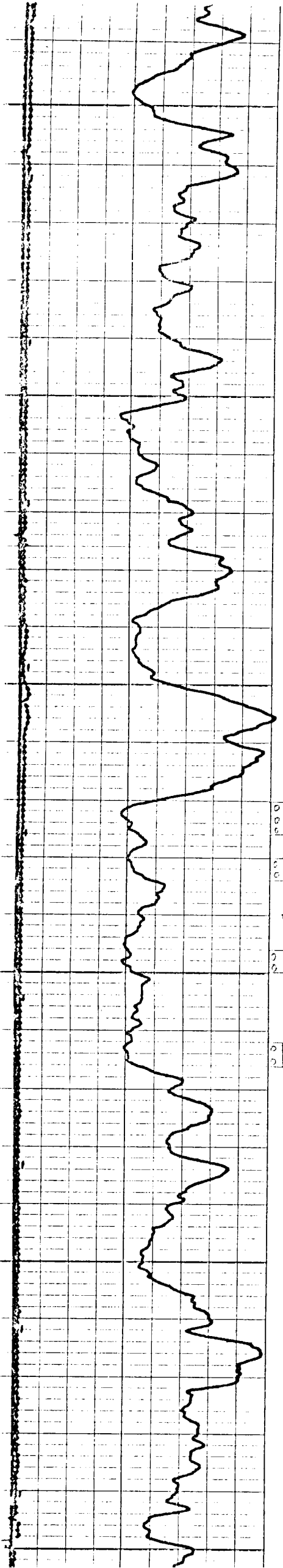
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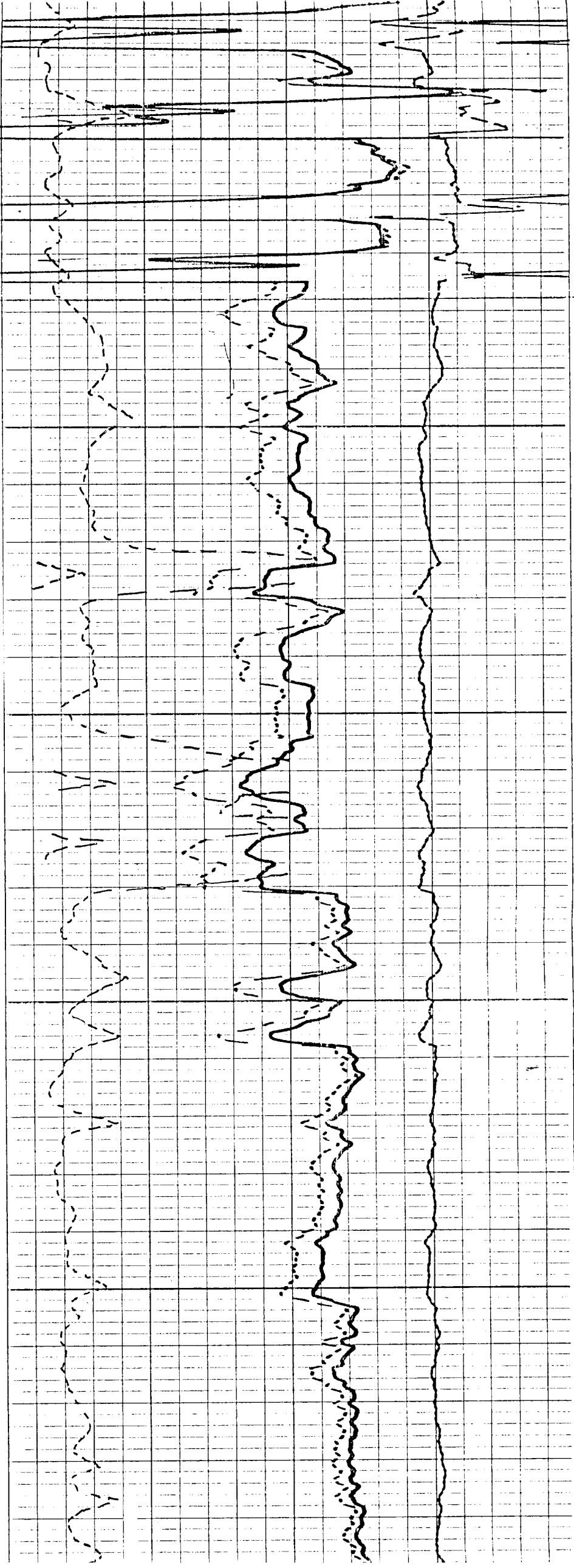
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0.5

0.5

0.5



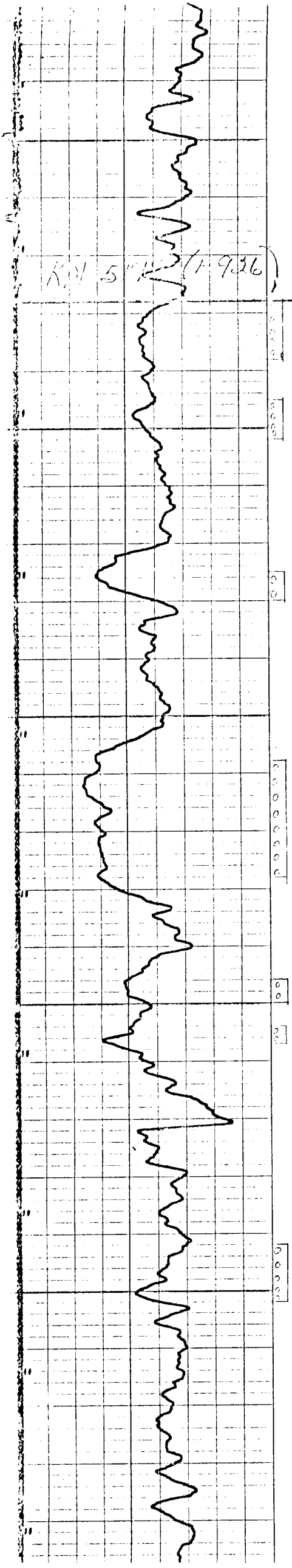


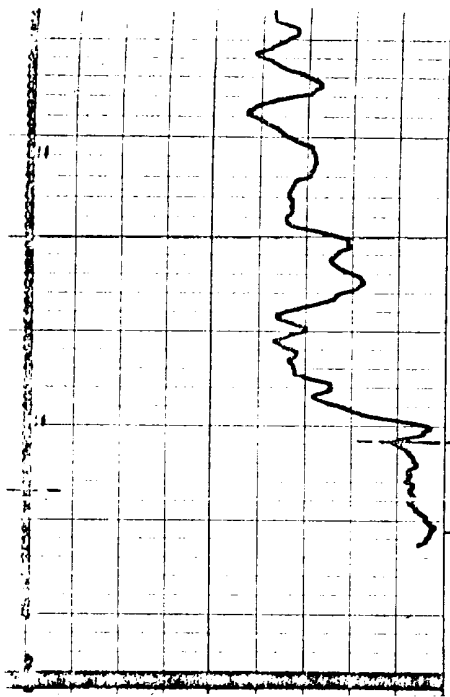
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5300

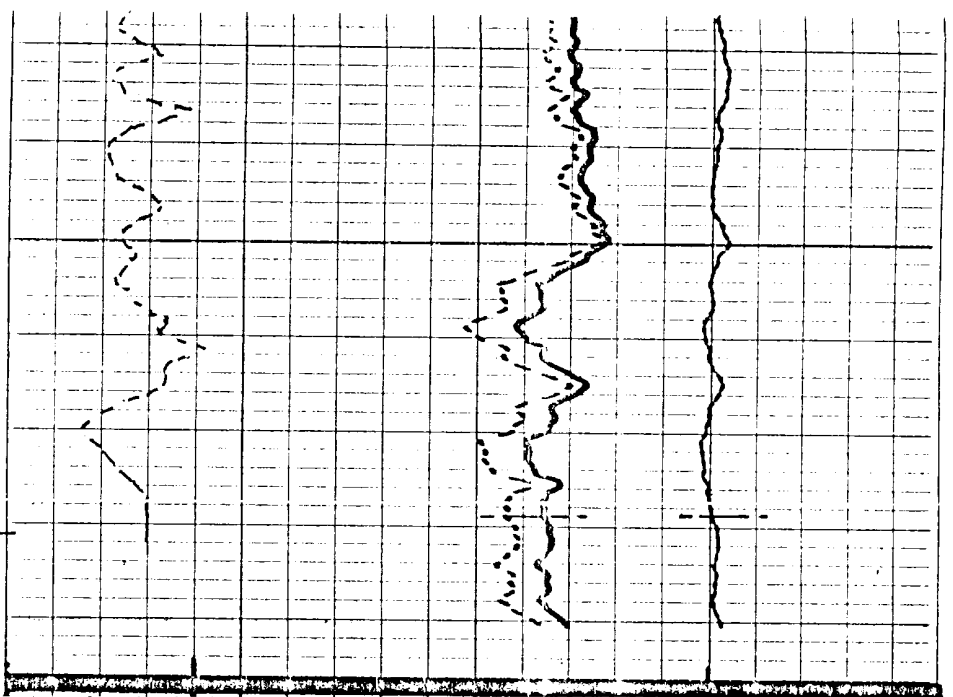
5

KM 5" (1936)





5400



RUN TWO

HOLE SIZE - INCHES	15
API UNITS	200

SANDSTONE POROSITY—%

20

10

$D_G = 2.65$

FLUID DENSITY—1.00 GM/CC

2.0

2.5

3.0

-0.5

0

+0.5

CORRECTION

GAMMA RAY
& CALIPER

DEPTH

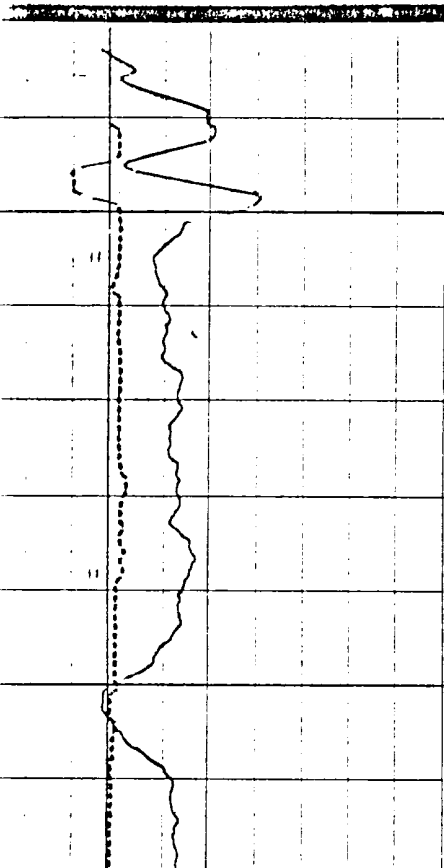
BULK DENSITY
GRAMS/CC

Company MESA PETROLEUM CO.
Well HAMILTON FEDERAL # 2A
Field BLANCO MESAVERDE
County SAN JUAN
State NEW MEXICO

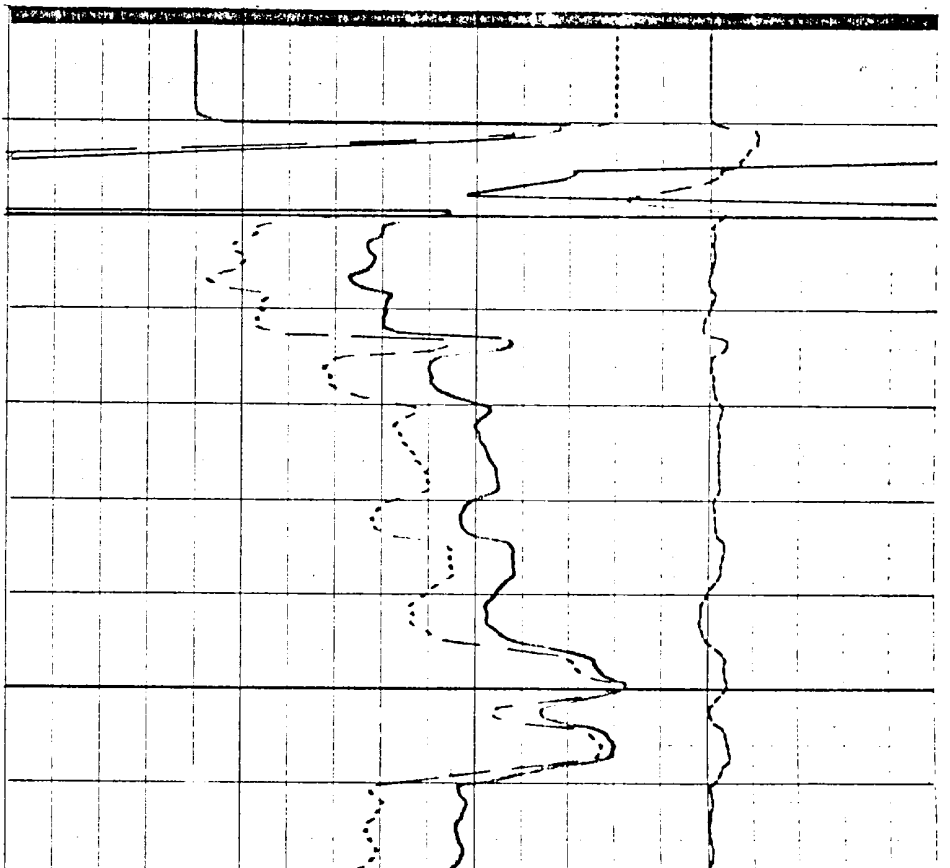
Drillers T.D. 5436
Log F.R. 5429
Log T.D. 5431
Elevations:
K.B. 6104 D.F. 6103 G.L. 6091

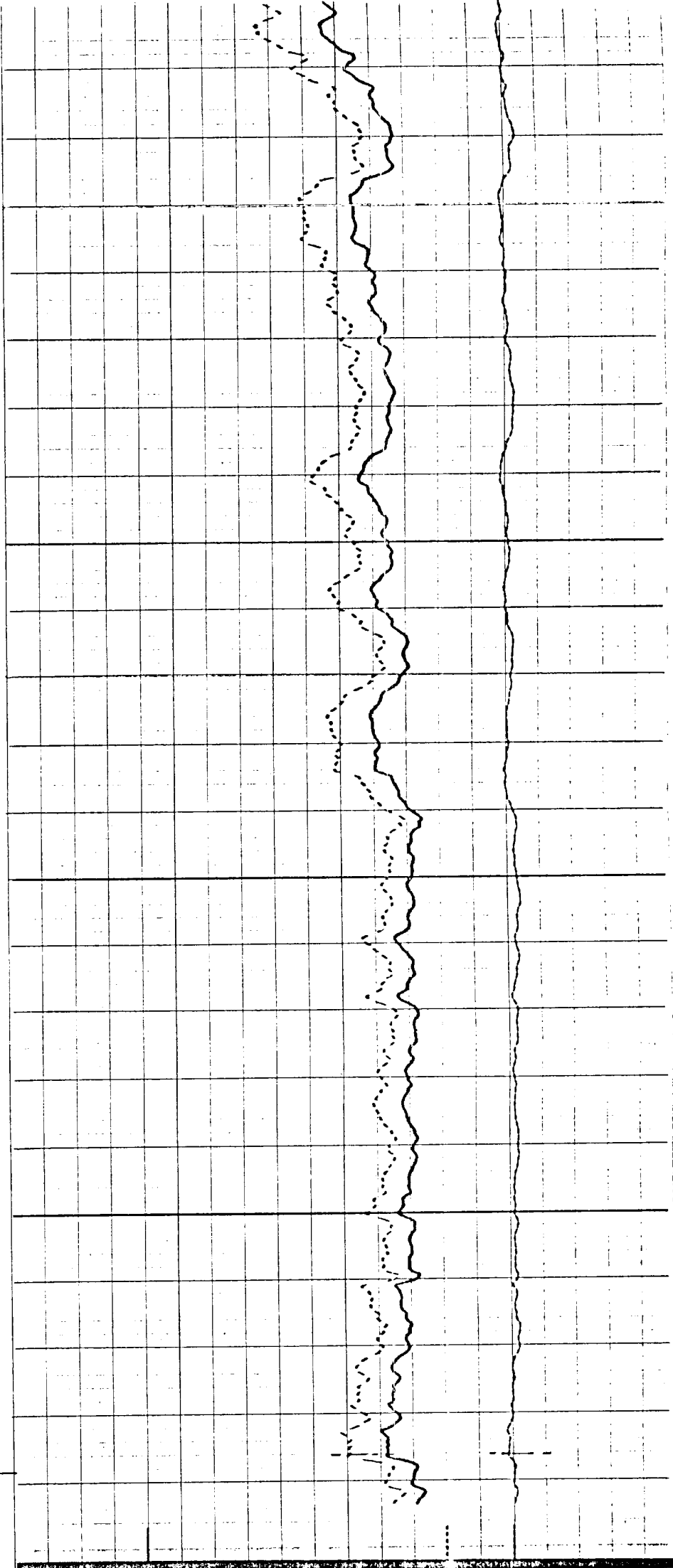
REPEAT SECTION

RUN ONE



2900





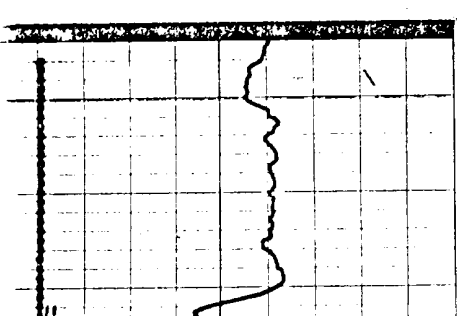
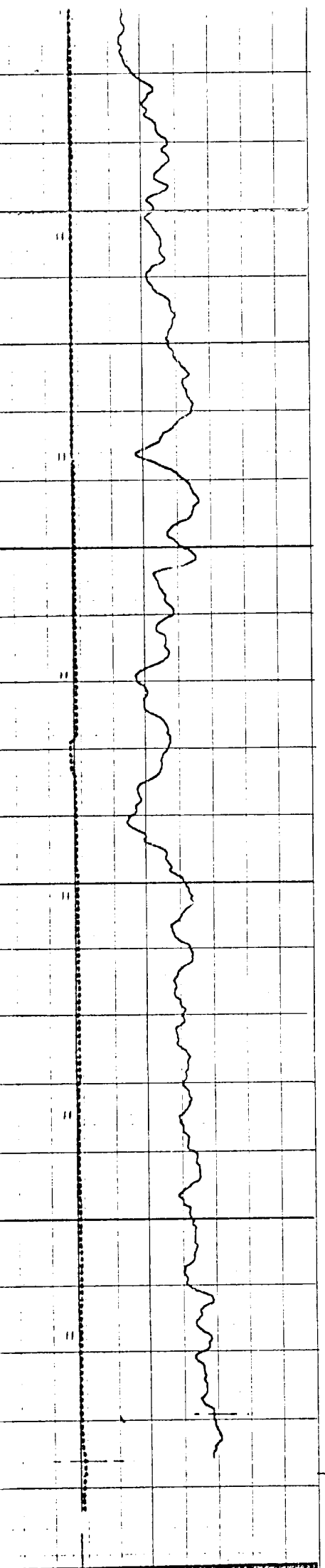
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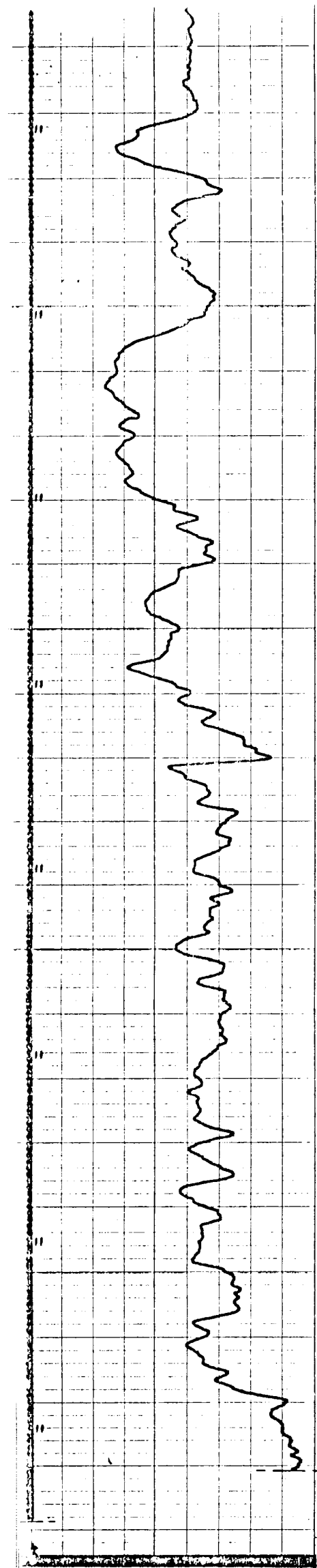
3100

3200

Run 2

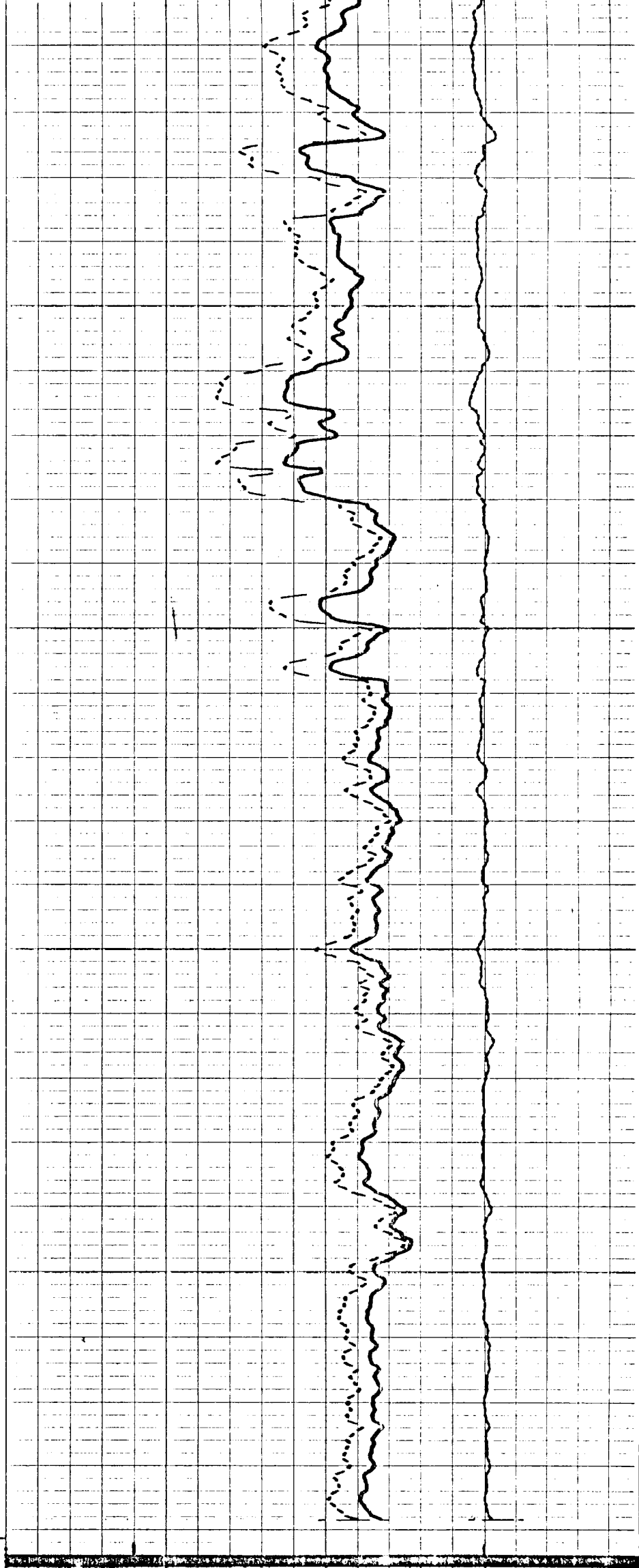
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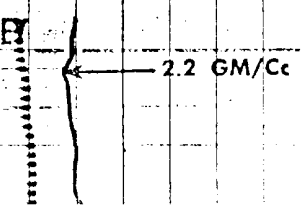
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5400

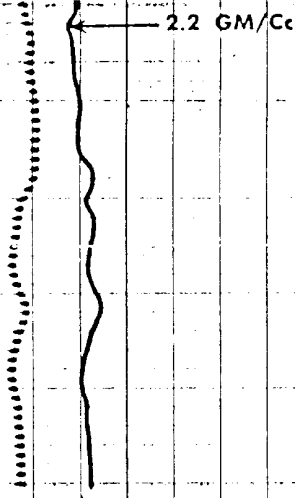


CALIBRATION Run 1

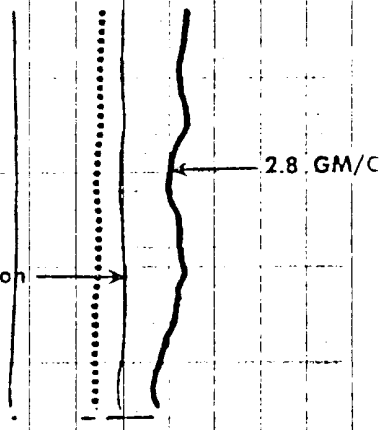
CALIBRATION — AFTER SURVEY



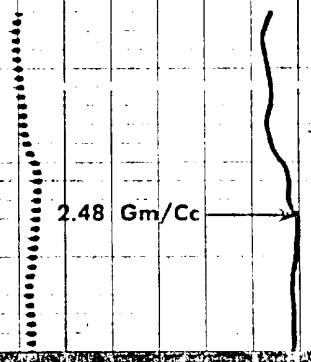
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0 Correction

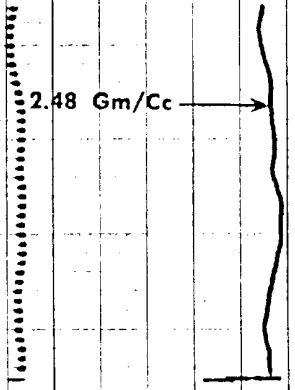


0 Correction

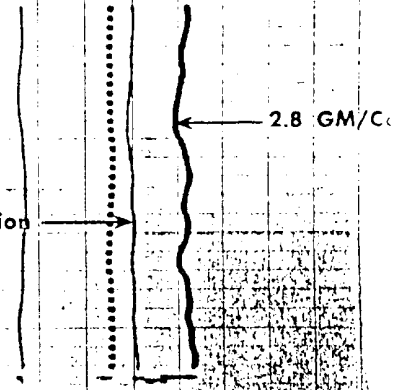


+ 0.23 Correction

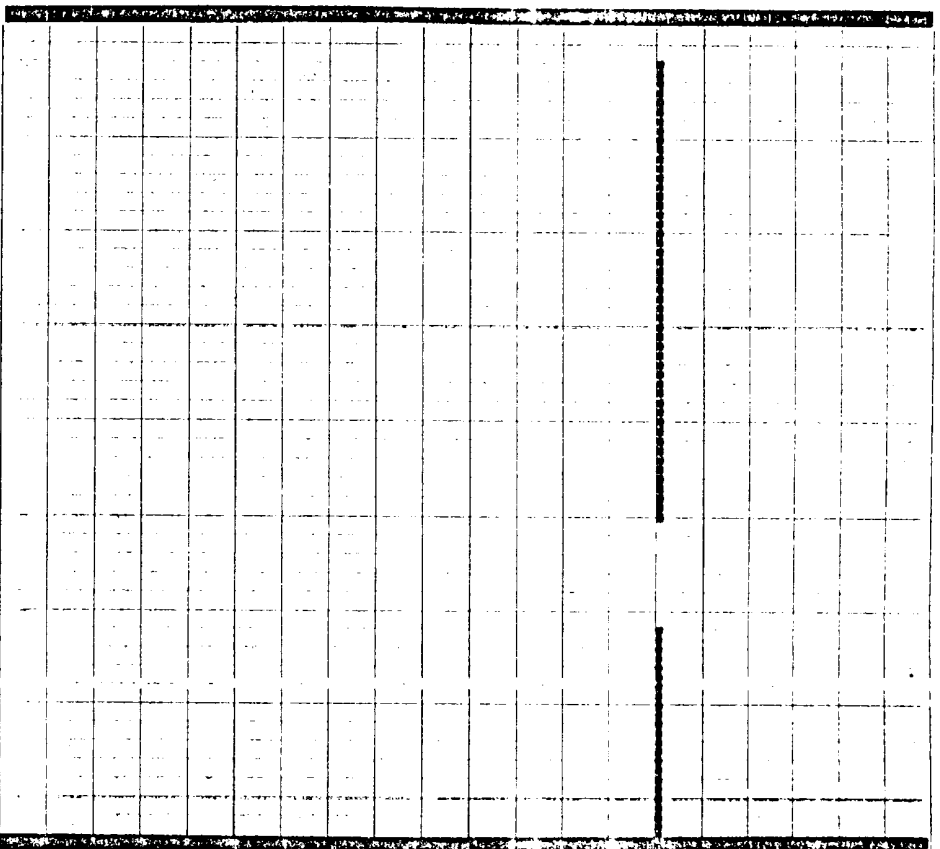
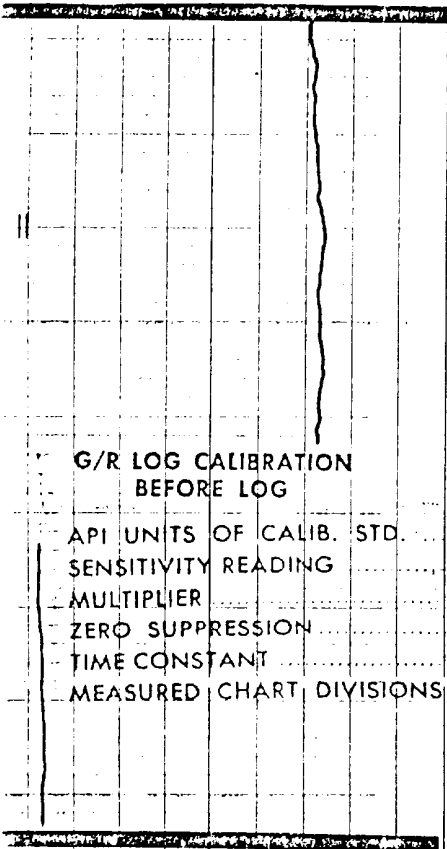
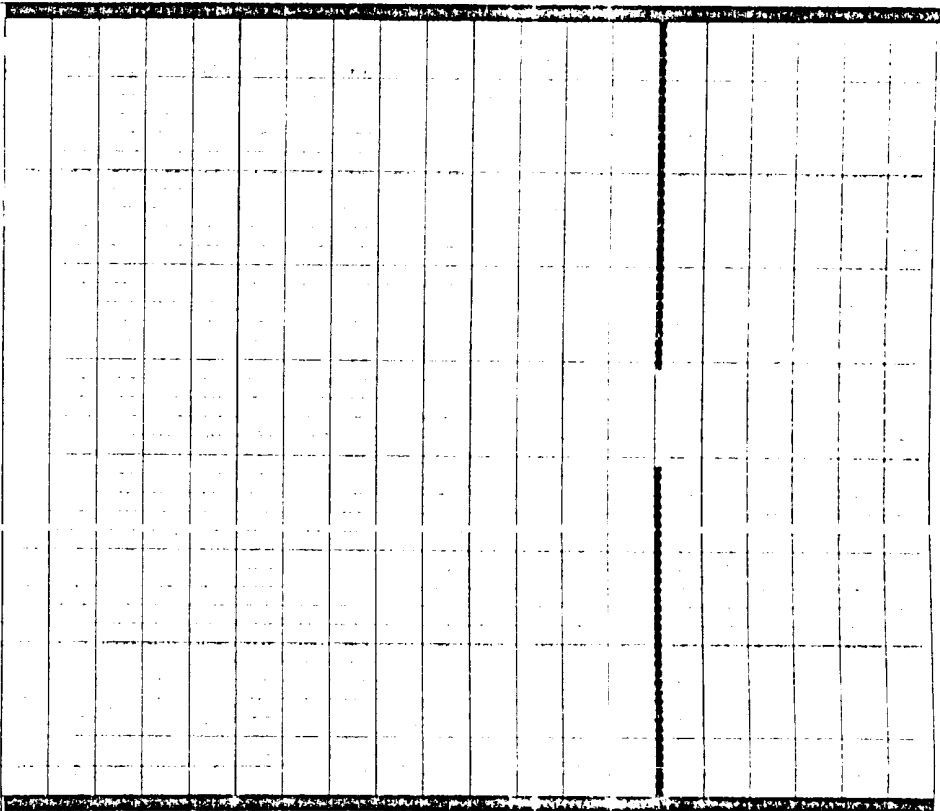
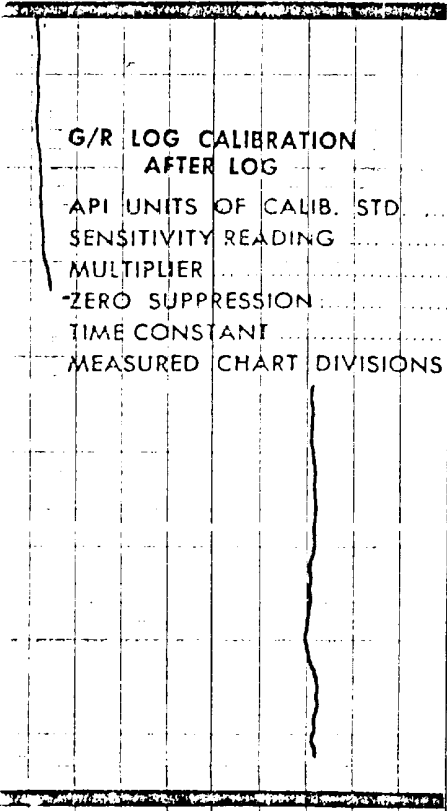
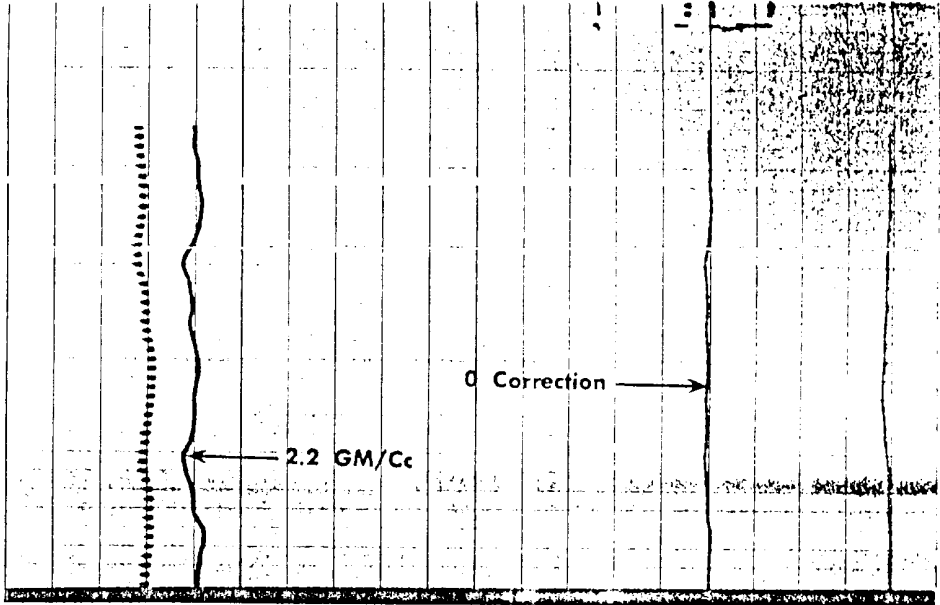
CALIBRATION — BEFORE SURVEY



+ 0.23 Correction



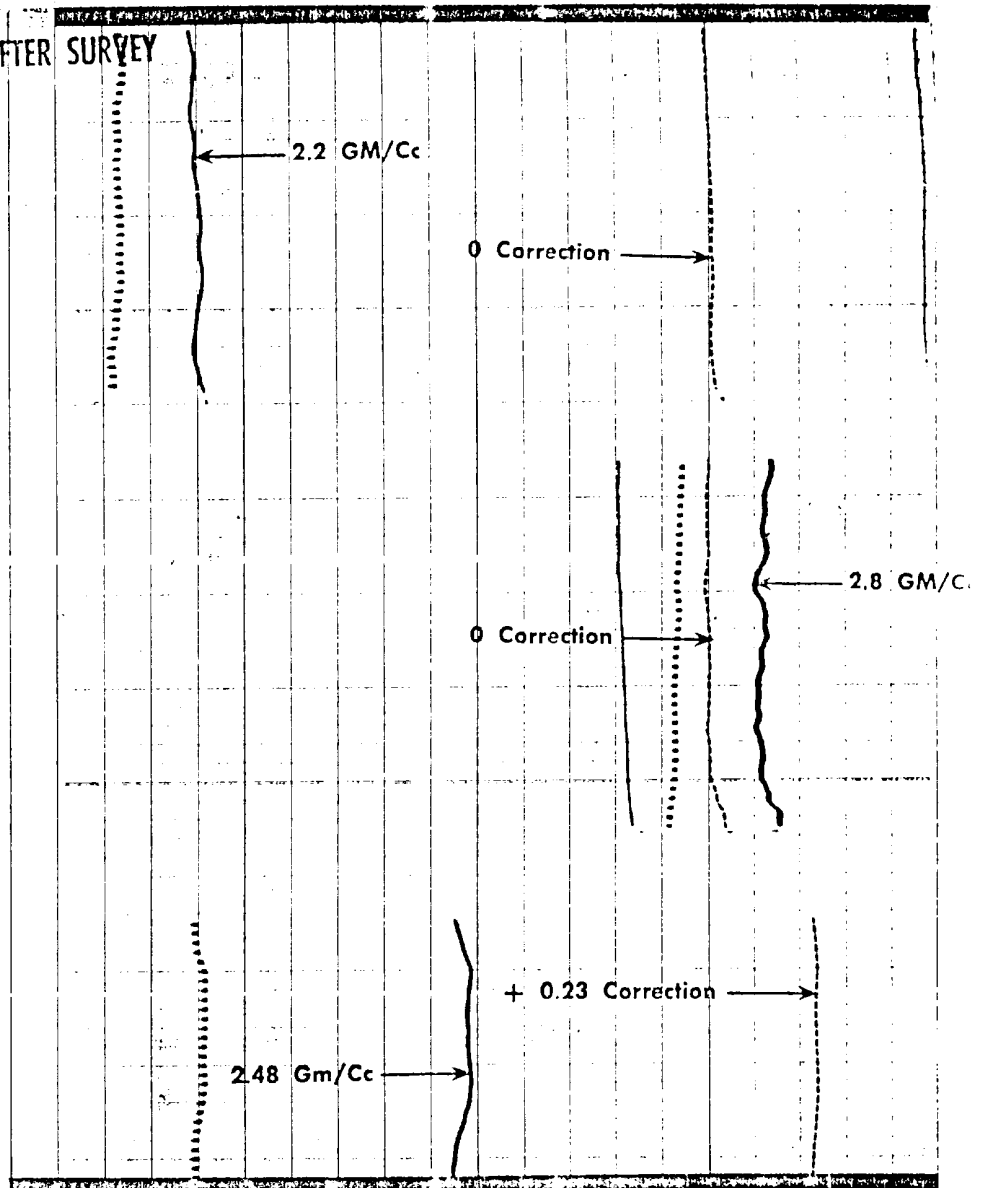
0 Correction



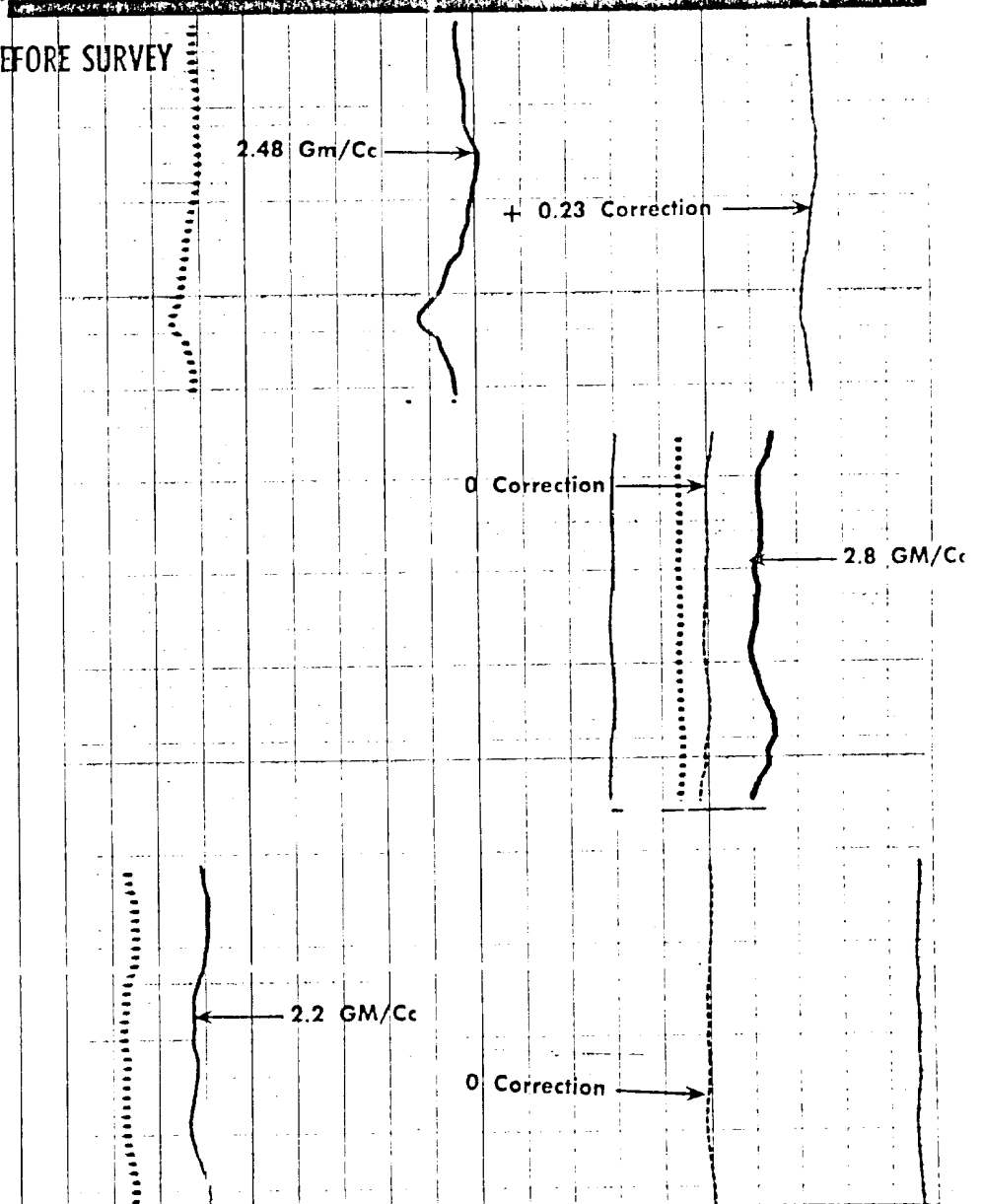
Run 2

CALIBRATION—AFTER SURVEY

CALIBRATION—AFTER SURVEY



CALIBRATION—BEFORE SURVEY



G/R LOG CALIBRATION
AFTER LOG

API UNITS OF CALIB. STD. 224
SENSITIVITY READING 200
MULTIPLIER X2
ZERO SUPPRESSION 0
TIME CONSTANT 3.0
MEASURED CHART DIVISIONS 5.5

II

G/R LOG CALIBRATION
BEFORE LOG

API UNITS OF CALIB. STD. 224
SENSITIVITY READING 200
MULTIPLIER X2
ZERO SUPPRESSION 0
TIME CONSTANT 3.0
MEASURED CHART DIVISIONS 5.5

II

Quantitative Log Interpretation

This interpretation represents our best judgement. However, because all log analysis is based on best assumptions and empirical relationships, we cannot guarantee the accuracy of these figures. For this reason, we must disclaim any responsibility for any loss or expense which results from the use of this interpretation.

DresserAtlas

RUN ONE

ZONE INTERVAL	NET PAY	R _T	R _W	POROSITY	AVE. WTR. SAT.
2960 TO 2980	20	4	.25	10%	100%
2940 TO 2950	10	4	.25	9%	100%

References

T_m =

T_f =

because all of the analysis is based on best assumptions and empirical relationships, we cannot guarantee the accuracy of these figures. For this reason, we must disclaim any responsibility for any loss or expense which results from the use of this interpretation.

	ZONE	INTERVAL	NET PAY	R _T	R _W	POROSITY	AVE. WTR. SAT.	References
RUN ONE	2960	TO 2980	20	14	.25	10%	100%	T _m =
	2940	TO 2950	10	14	.25	9%	100%	T _f =
	2900	TO 2910	10	20	.25	16%	60%	D _g = 2.65
	2910	TO 2920	10	22	.25	14%	70%	D _f = 1.0
	2612	TO 2620	8	70	.25	12%	45%	
	2598	TO 2610	12	40	.25	9%	78%	
RUN TWO	5340	TO 5352	12	32	.2	6%	100%	
	5304	TO 5308	4	40	.2	10%	65%	EQUATIONS
	5296	TO 5300	4	35	.2	10%	72%	
	5270	TO 5280	10	300	.2	12%	20%	
	5256	TO 5266	10	400	.2	14%	15%	
	5176	TO 5214	38	35	.2	8%	90%	
	5020	TO 5034	14	30	.2	14%	53%	CHART MANUAL
	5040	TO 5050	10	48	.2	12%	50%	PAGE REFERENCE
	4988	TO 4994	14	28	.2	8%	79%	
	4856	TO 5360	4	30	.2	11%	67%	T _m =
	4834	TO 4844	10	30	.2	7%	100%	T _f =
	4800	TO 4810	10	200	.2	8%	40%	D _g = 2.65
	4750	TO 4762	12	80	.2	10%	48%	D _f = 1.0
	4450	TO 4456	6	30	.2	13%	57%	
	4600	TO 4604	4	30	.2	12%	60%	
	4616	TO 4620	4	20	.2	12%	75%	
		TO						EQUATIONS
		TO						
		TO						
		TO						
		TO						
		TO						CHART MANUAL
		TO						PAGE REFERENCE
		TO						

KENNETH J. SIMON
DRESSER ATLAS ENGINEER

2-21-75
DATE

