

FINAL PRINT
Schlumberger

DUAL INDUCTION-SFL



COMPANY: LYCO ENERGY CORPORATION

WELL: #1 WACKER

FIELD: KERSEY
COUNTY: WELD
STATE: COLORADO
NATION: USA
LOCATION: 1780 FNL & 460 FNL

SEC: 10 TWP: 15N RGE: 64W

PERMANENT DATUM: GROUND LEVEL ELEVATIONS-
ELEV. OF PERM. DATUM: 4604.0 F KB: 4615.0 F
LOG MEASURED FROM: KB
11.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB GL: 4604.0 F

DATE: 29 SEP 85
RUN NO: 1

DEPTH-DRILLER: 6859.0 F
DEPTH-LOGGER: 6899.0 F
BTM. LOG INTERVAL: 6893.0 F
TOP LOG INTERVAL: 304.0 F

CASING-DRILLER: 305 F
CASING-LOGGER: 304 F
CASING: 8 5/8
WEIGHT: 24.00 LB/F
BIT SIZE: 12 1/4 7 7/8

OTHER SERVICES-
LDT-CNL-GR
CYBERLOOK

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
465862

TYPE FLUID IN HOLE: FGM
DENSITY: 9.2 LB/G
VISCOSITY: 36.0 S
PH: 8.7
FLUID LOSS: 5.8 C3
SOURCE OF SAMPLE: PIT
RM: 2.740 DHMM AT 70.0 DEGF
RMF: 2.420 DHMM AT 70.0 DEGF
RMC: AT
SOURCE RMF/RMC: PRESSED/
RM AT BHT: 1.065 DHMM AT 191. DEGF
RMF AT BHT: .941 DHMM AT 191. DEGF
RMC AT BHT:

AT 191. DEGF

TIME CIRC. STOPPED: 2230
TIME LOGGER ON BTM.: 0430

MAX. REC. TEMP: 191.0 DEGF

LOGGING UNIT NO: 8367
LOGGING UNIT LOC: FORT MORGAN
RECORDED BY: TOM SARIKAS
WITNESSED BY: DOUG HAMMOND

REMARKS:

TOOL CENTRALIZED BY STANDOFF
SFL READINGS INVALID ABOVE 3600°

EQUIPMENT NUMBERS-

IEM-BC 635 DIC 514 DIS 482

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.

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 85/09/29
PROGRAM FILE: ISN (VERSION 26.2 84/08/31)

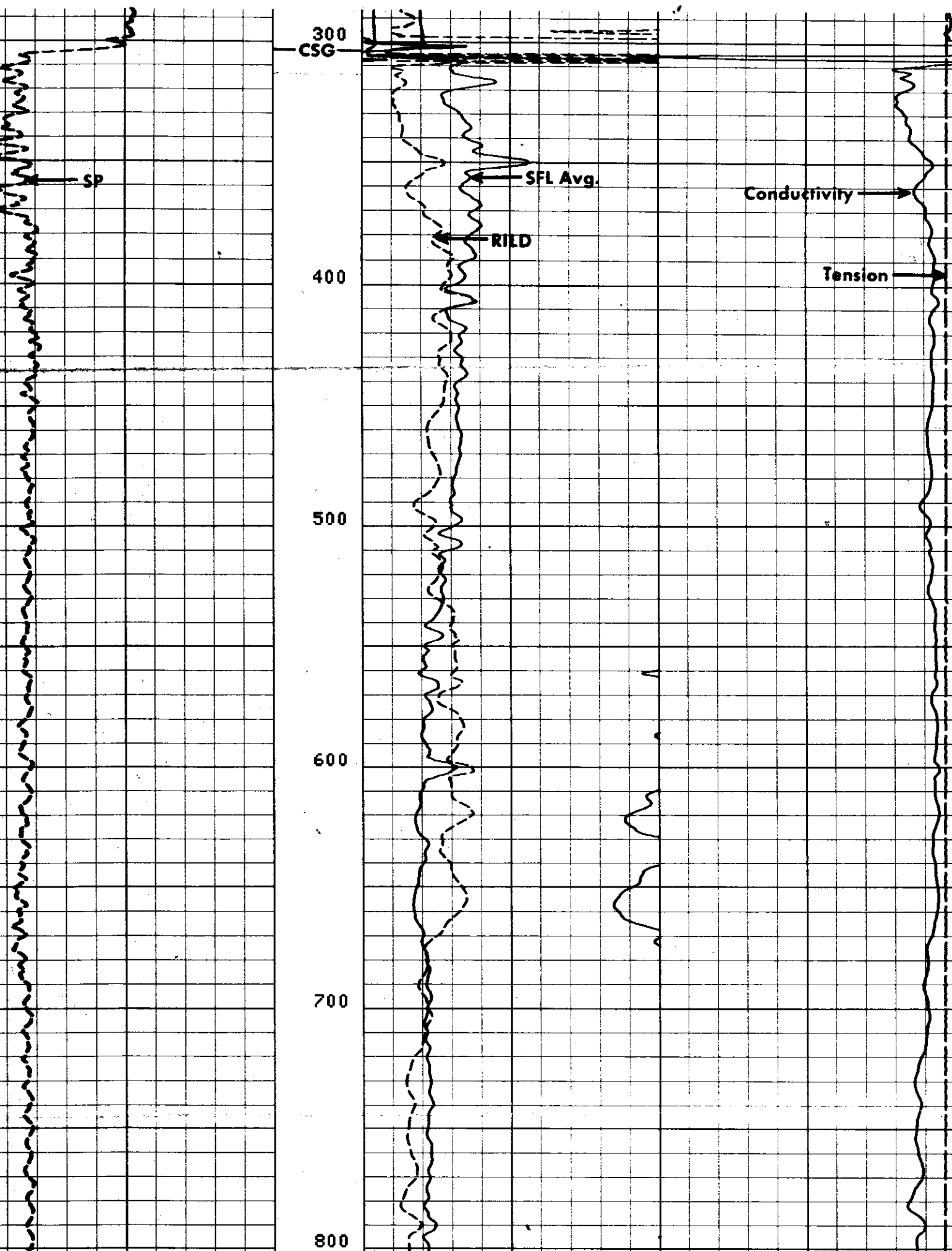
DITD TOOL CHECK

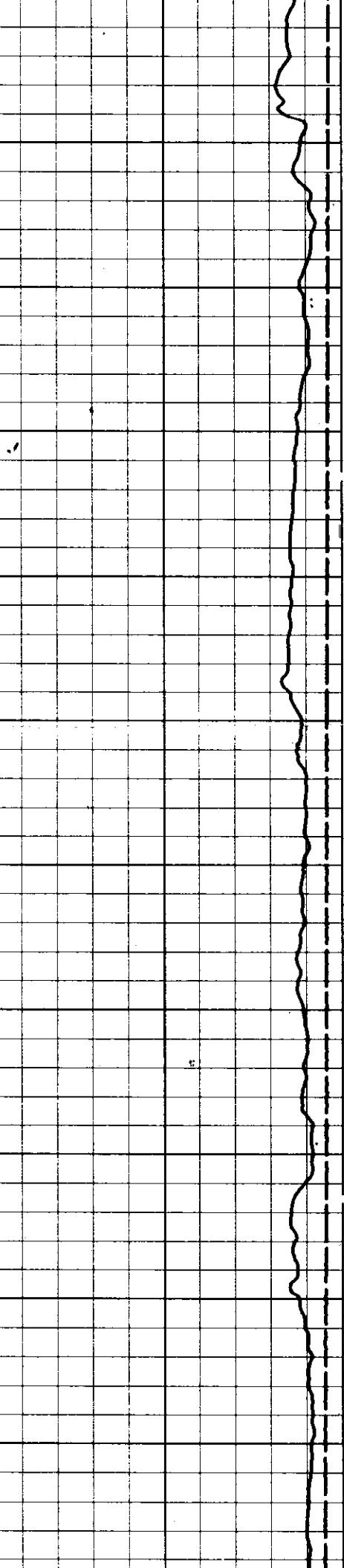
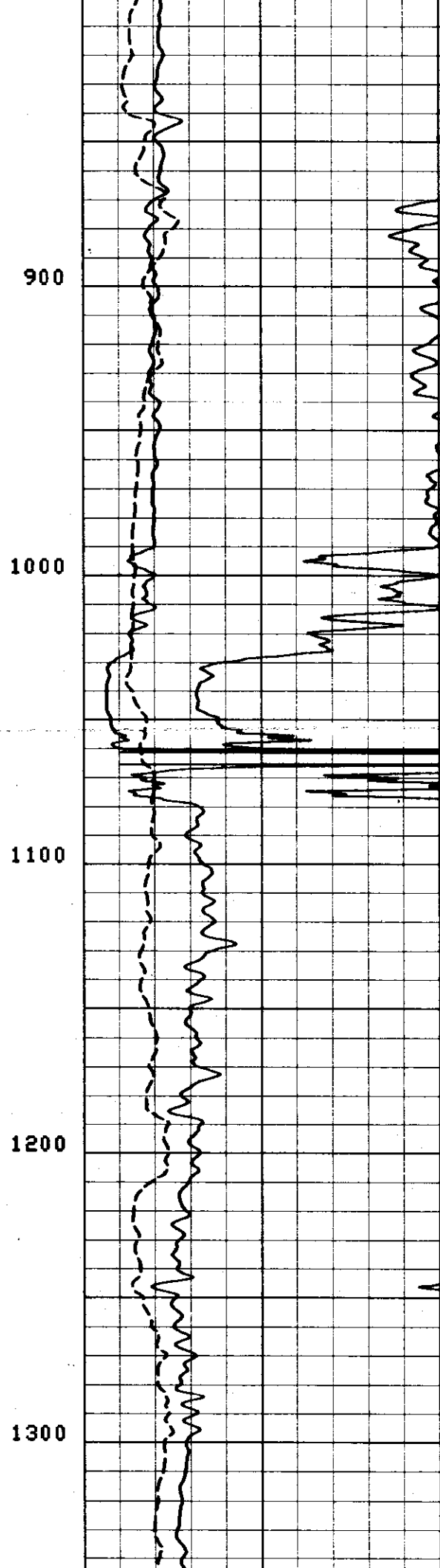
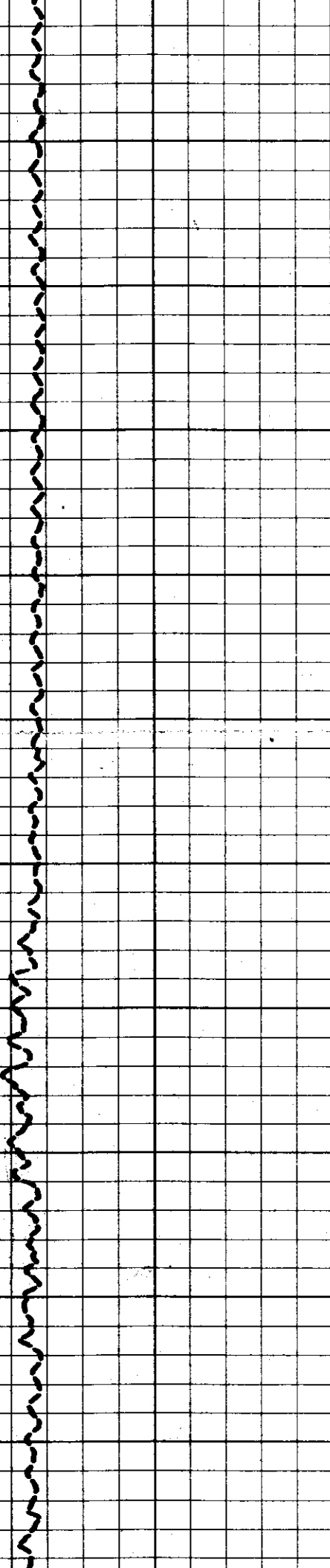
	ZERO		PLUS		
	BEFORE	AFTER	BEFORE	AFTER	UNITS
ILD	0.0	.1	498.4	478.1	MMHO
ILM	0.0	.1	502.8	491.3	MMHO
SFL	0.0	.0	500.0	498.1	MMHO

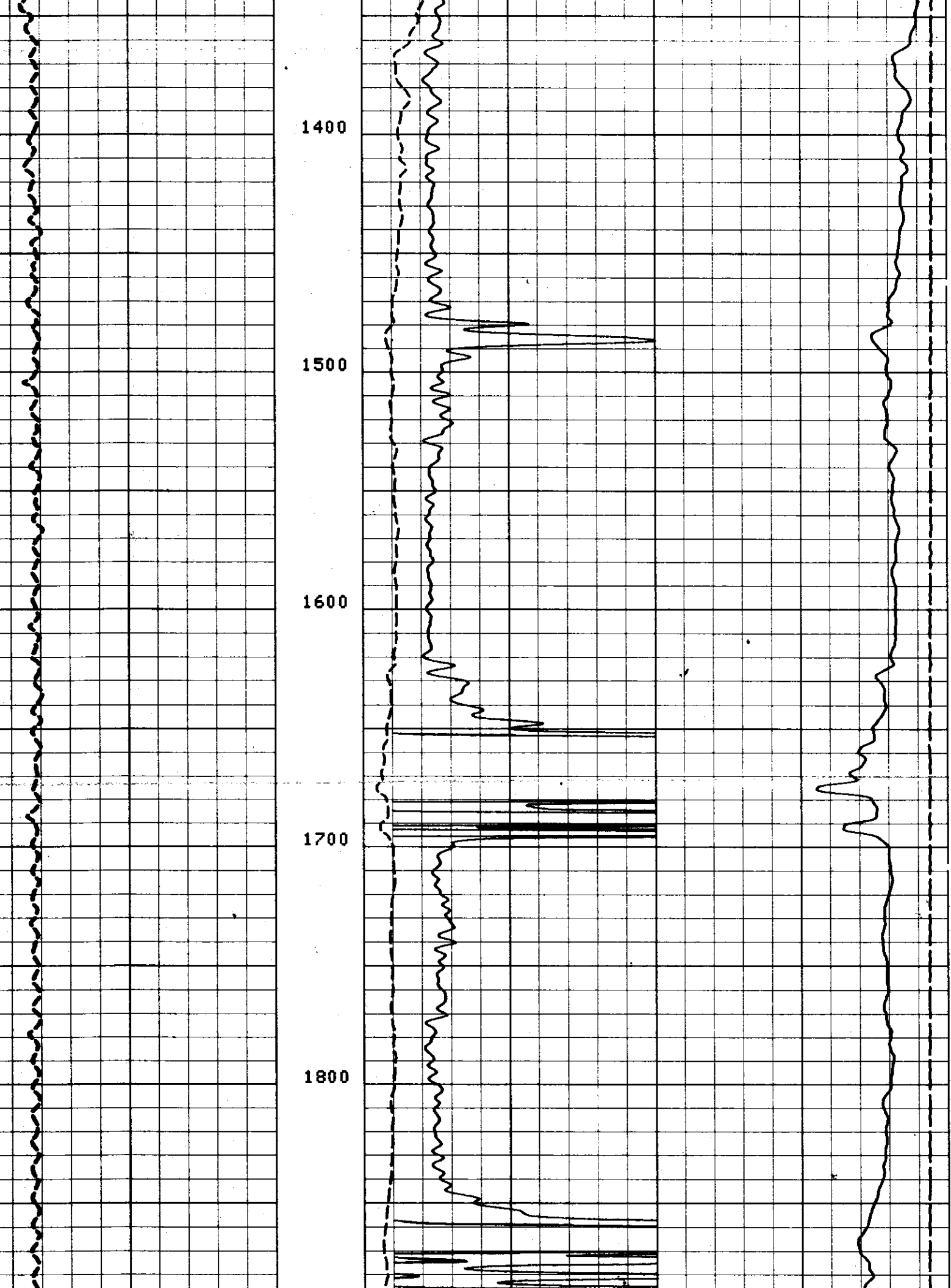
ILD SONDE ERROR CORRECTION : 8.4 MMHO
ILM SONDE ERROR CORRECTION : 6.6 MMHO

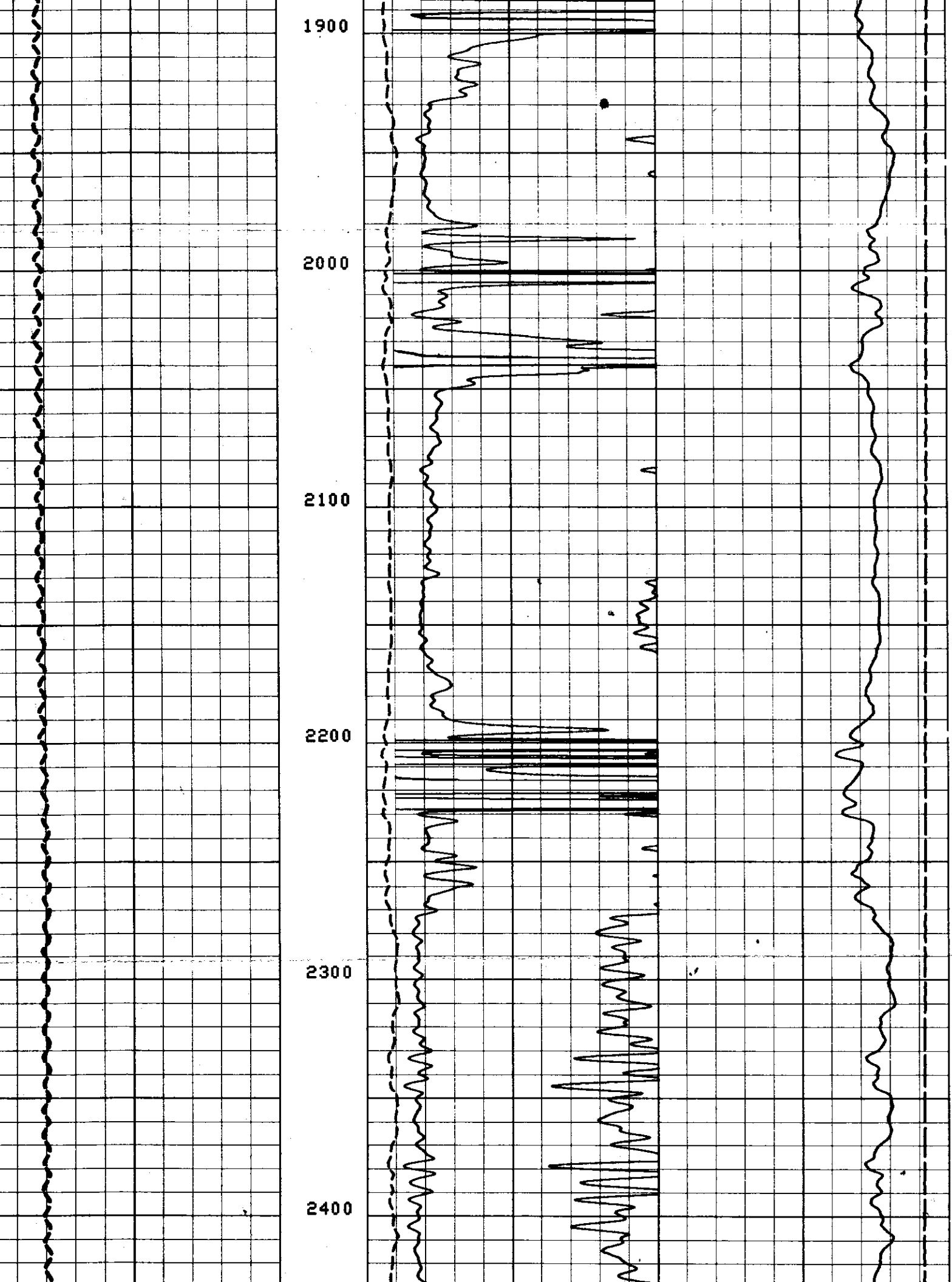
FILE 10 29-SEP-85 07:43

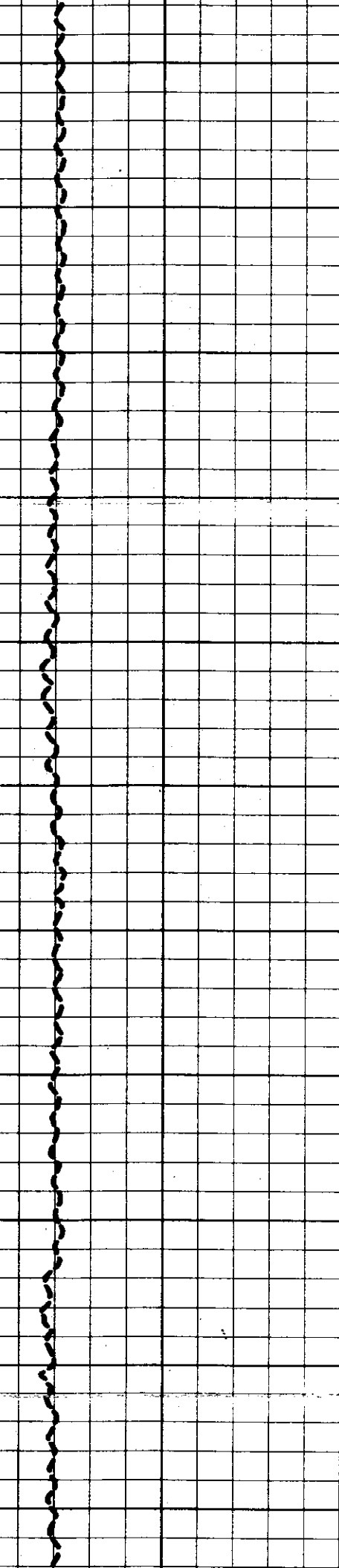
		ILD (OHMM)	TENS(LB)
		0.0 50.000	
		SFLA(OHMM)	
		0.0 10.000	
SP (MV)	40.000	SFLA(OHMM)	
		0.0 50.000	10000. 0.0
		CILD(MMHO)	
160.0		2000.0	0.0











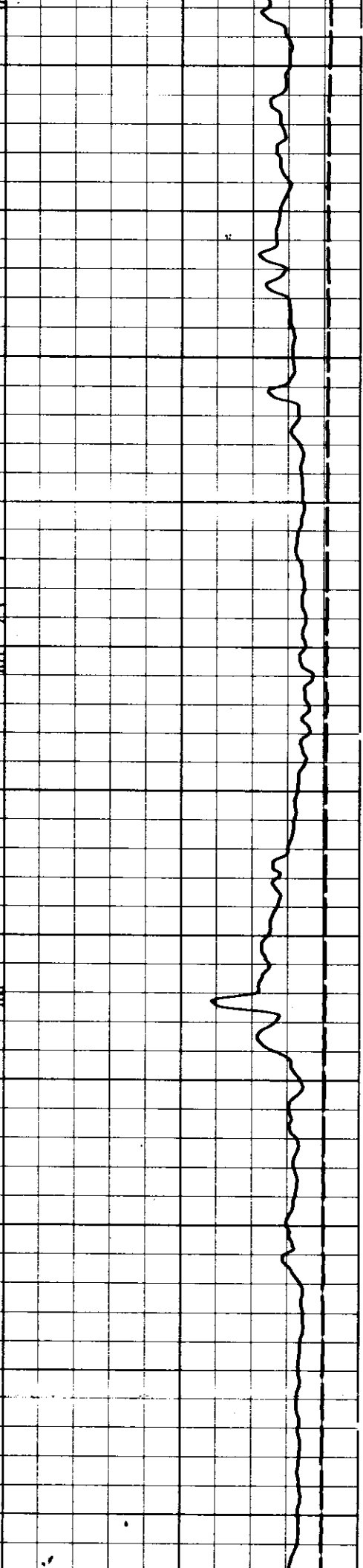
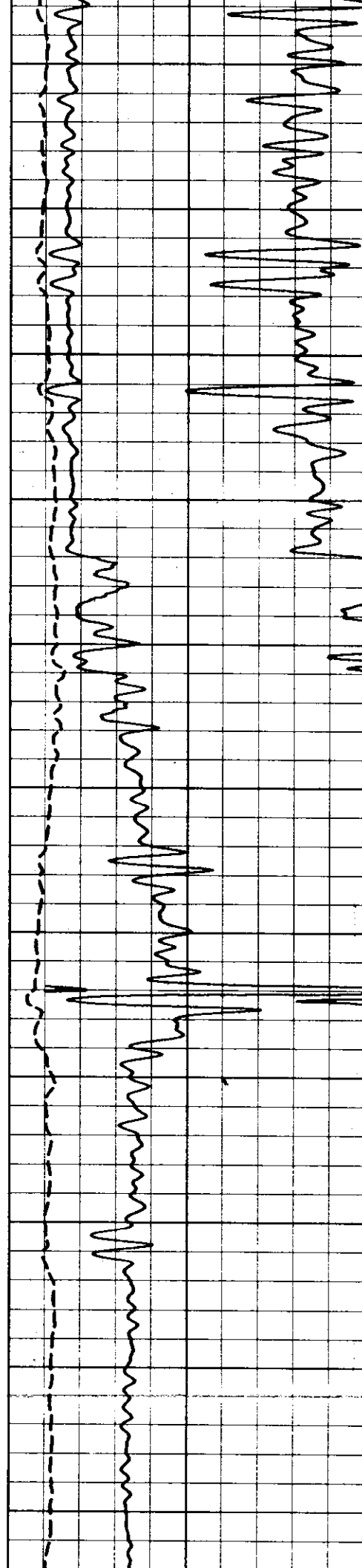
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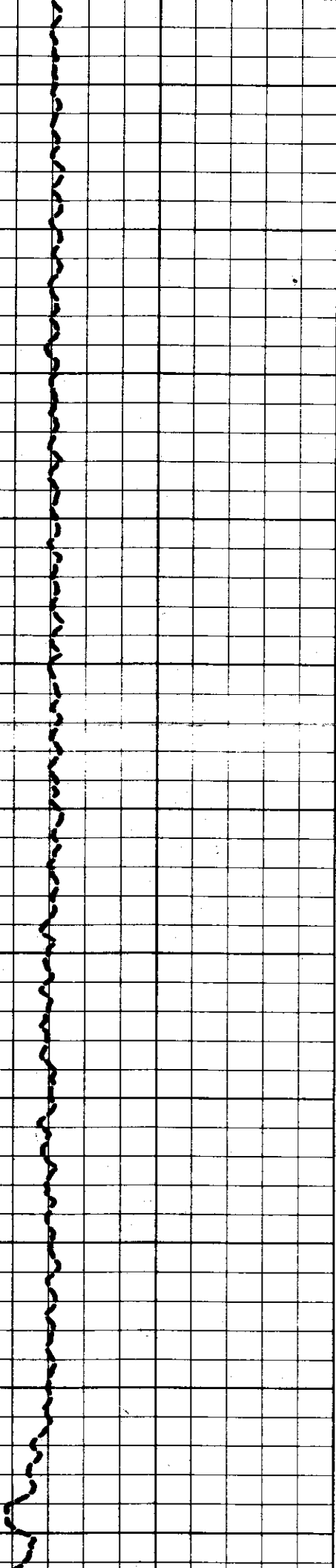
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2700

2800

2900





3000

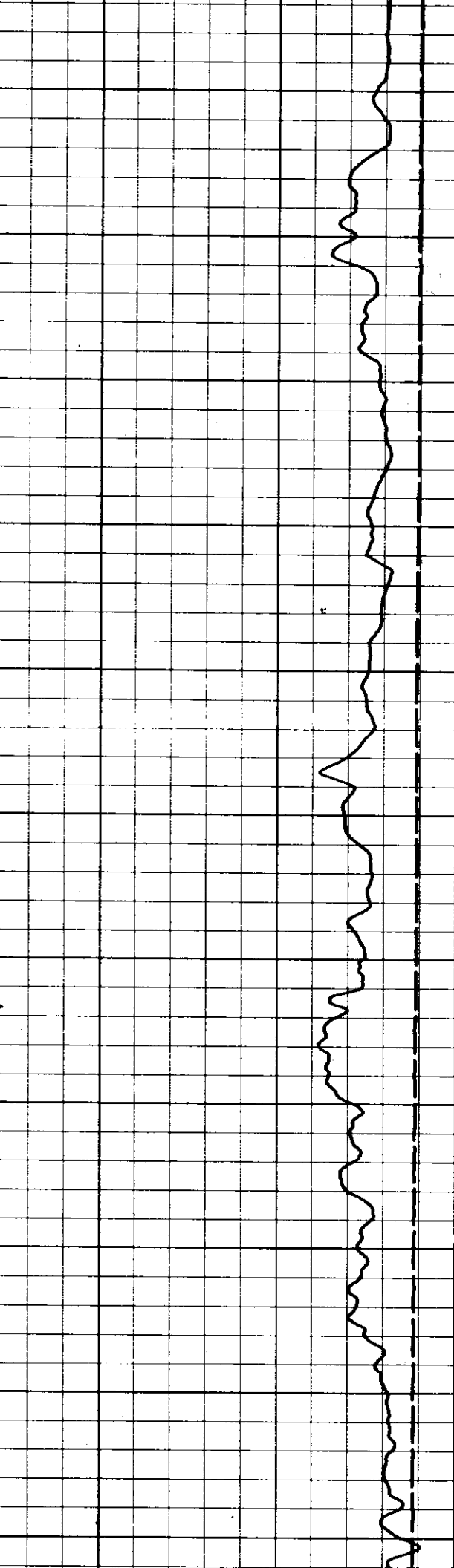
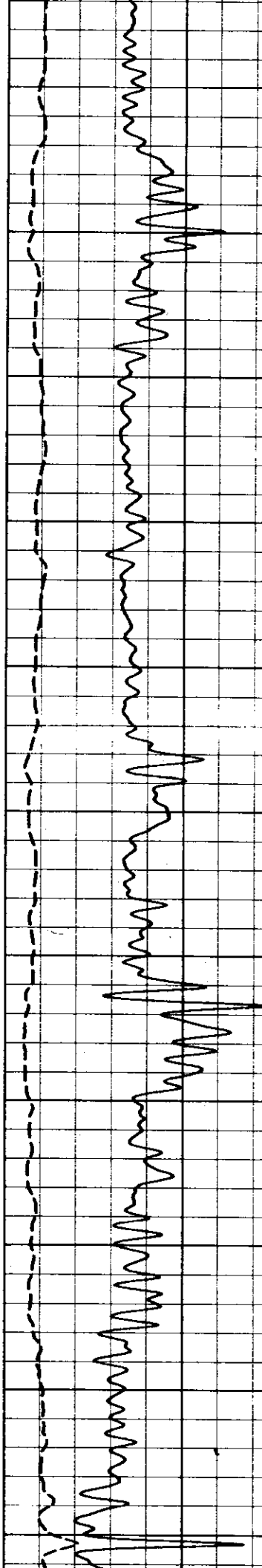
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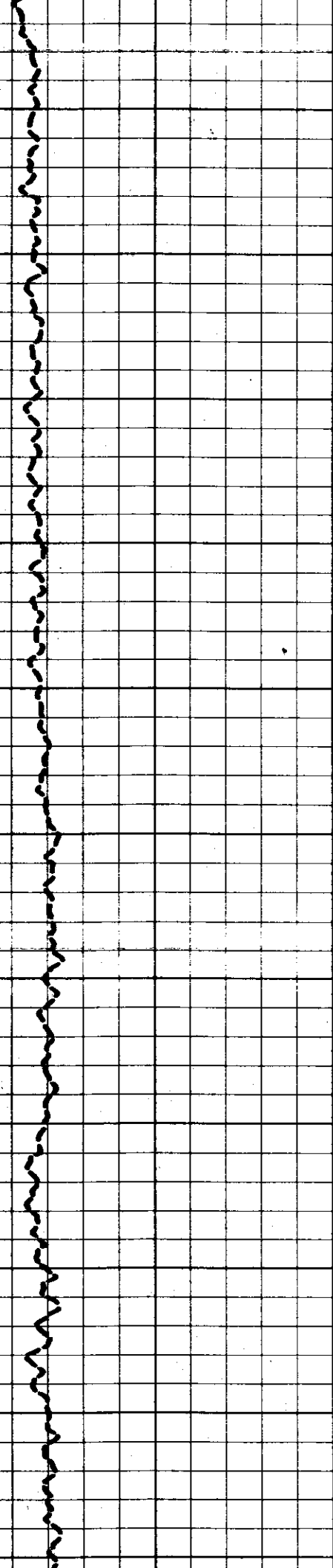
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3300

3400

3500





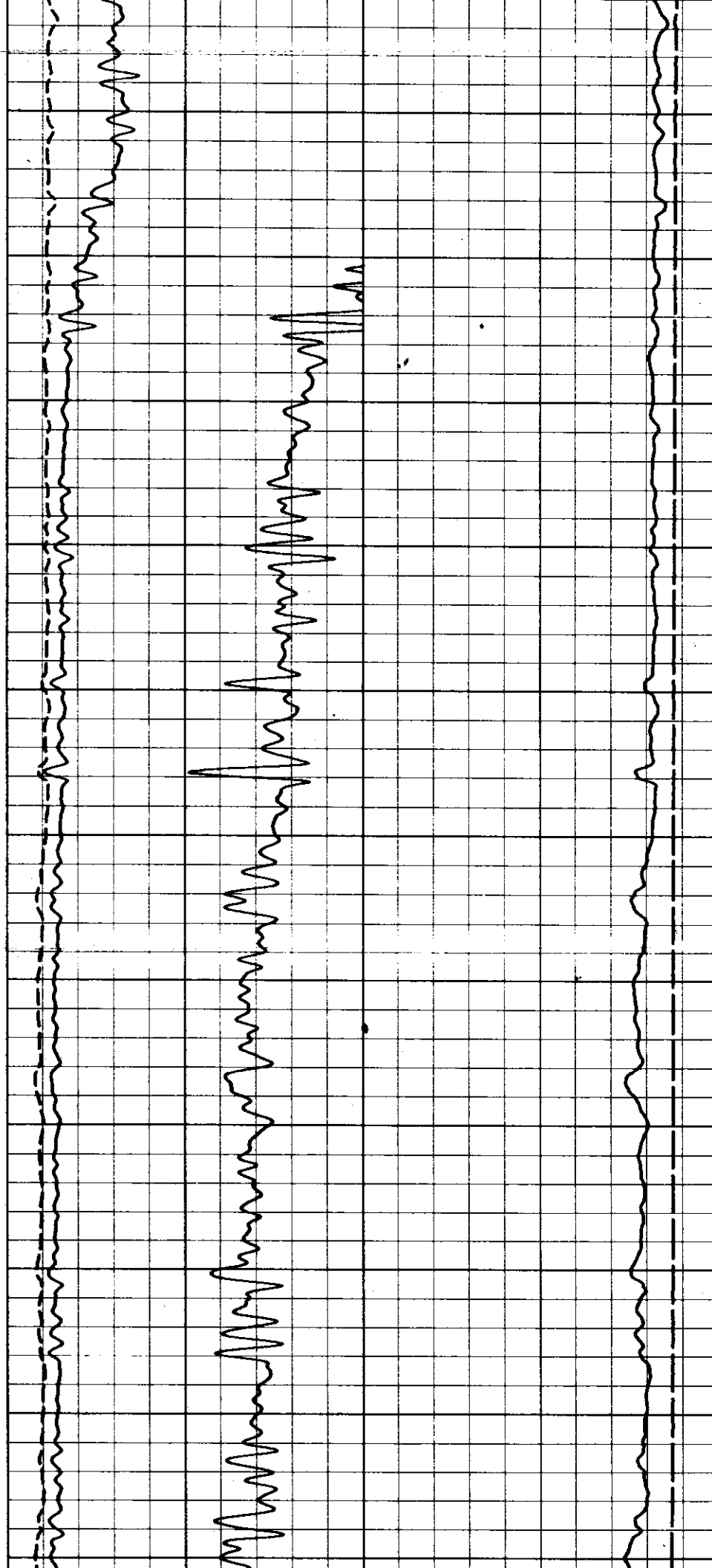
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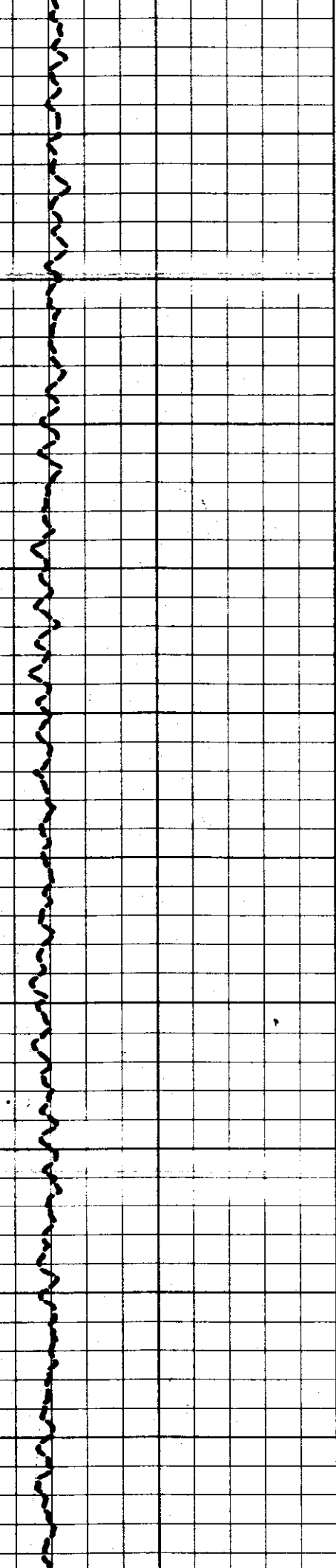
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3800

3900

4000





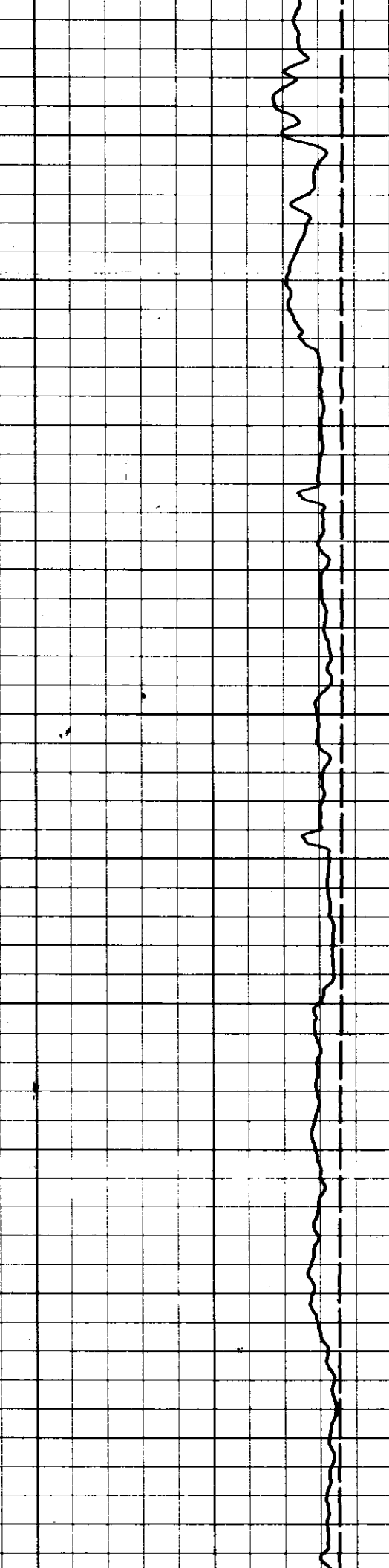
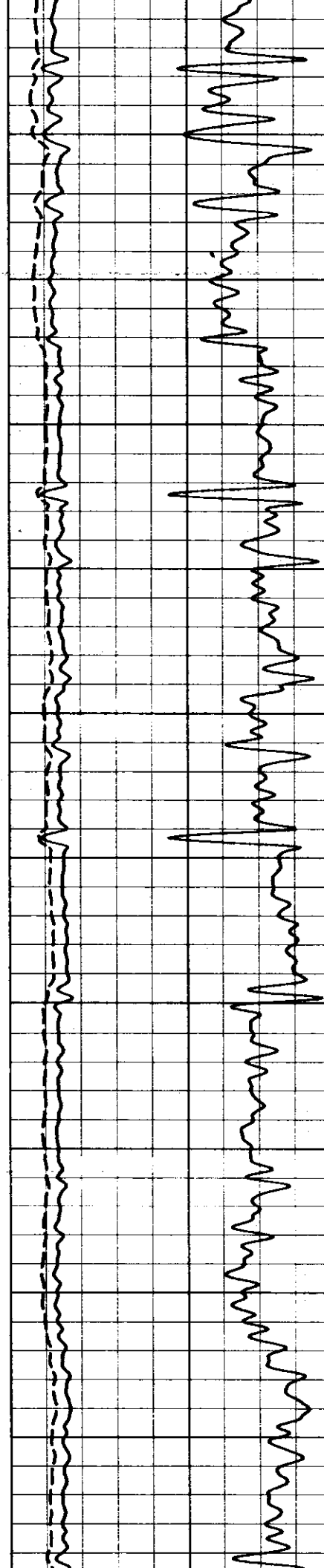
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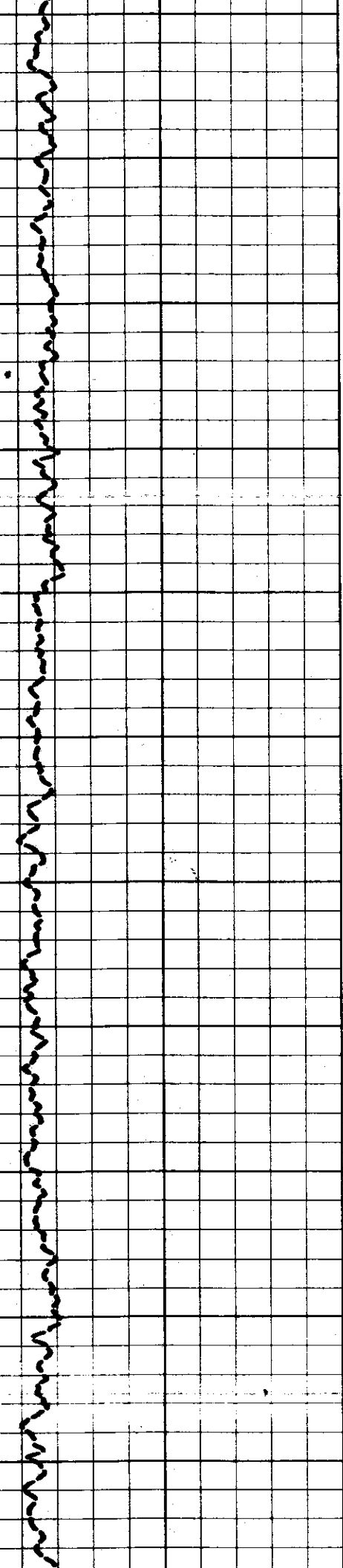
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4300

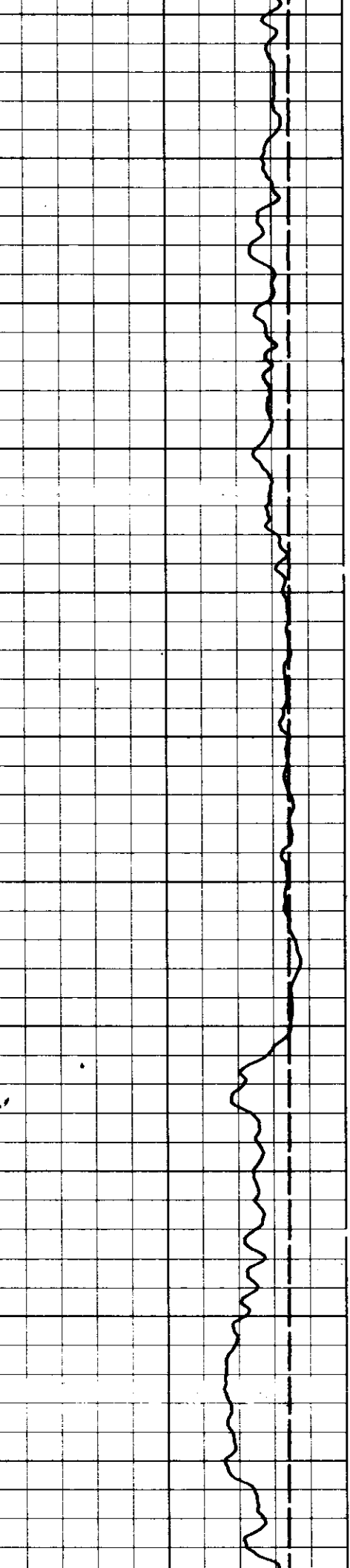
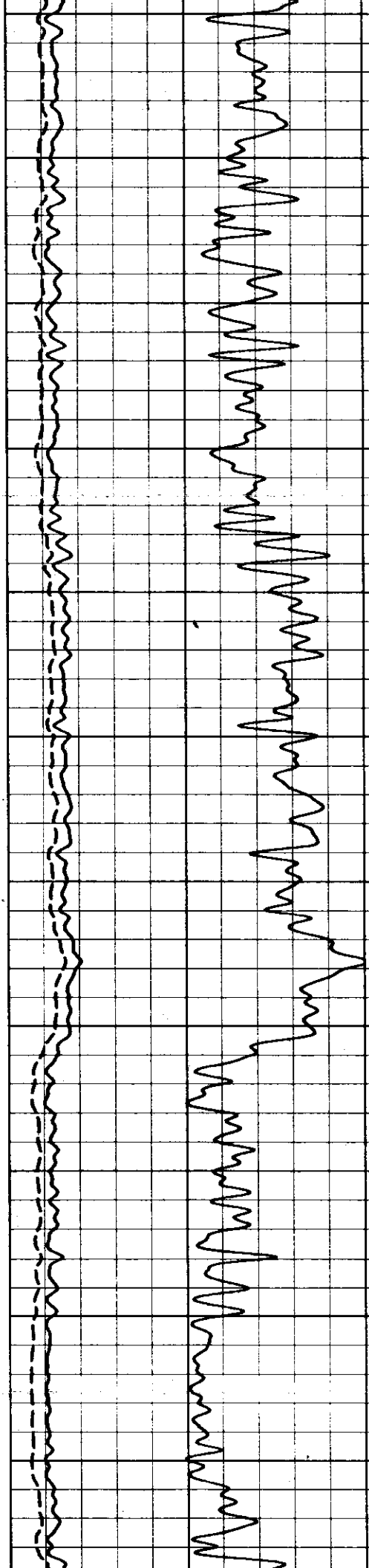
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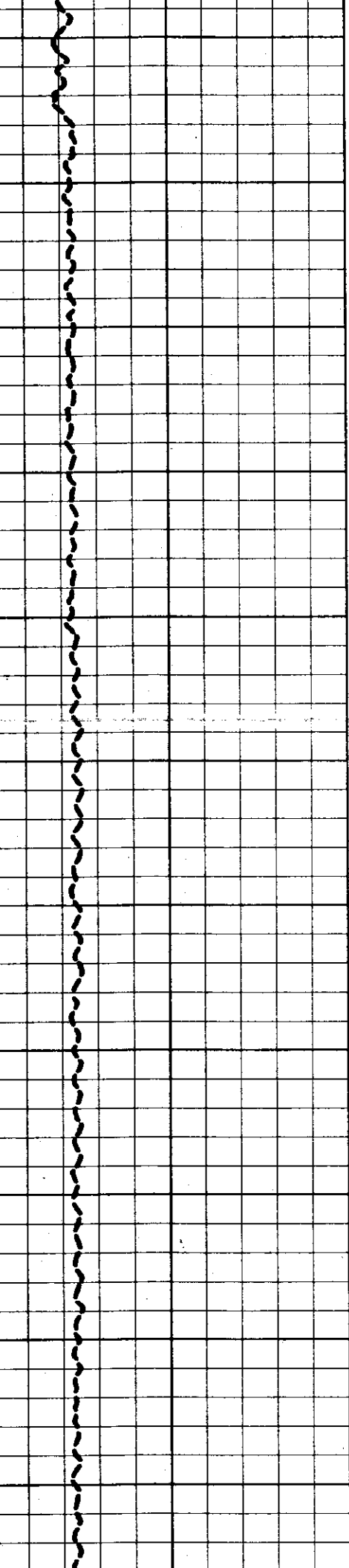
4500





4600
4700
4800
4900
5000
5100





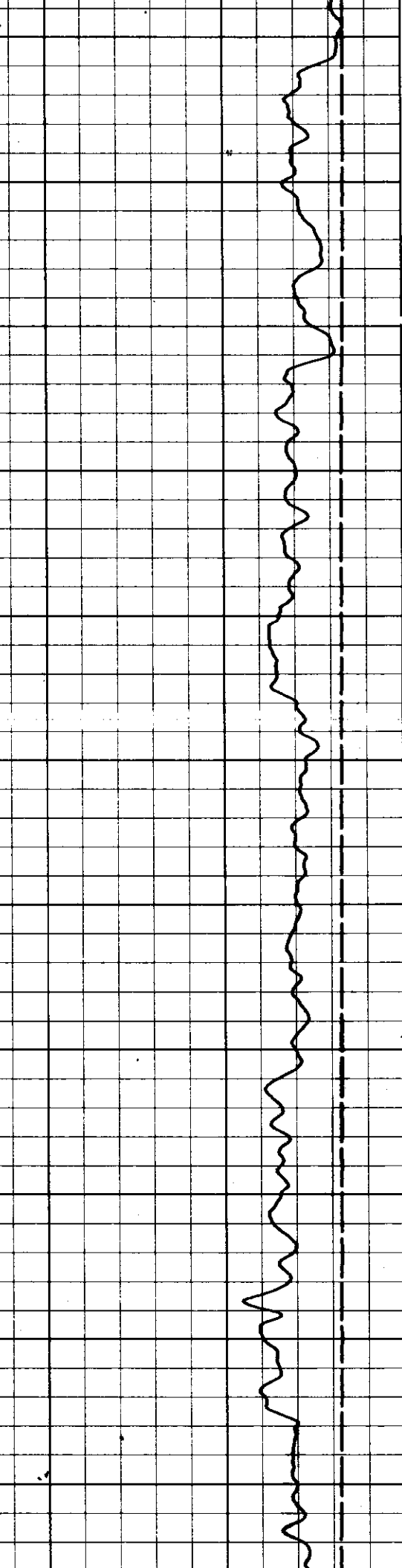
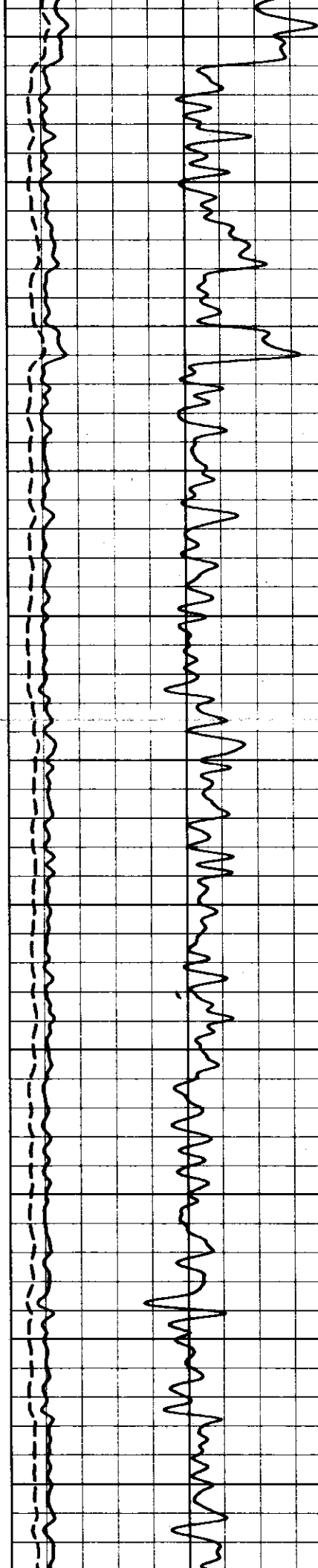
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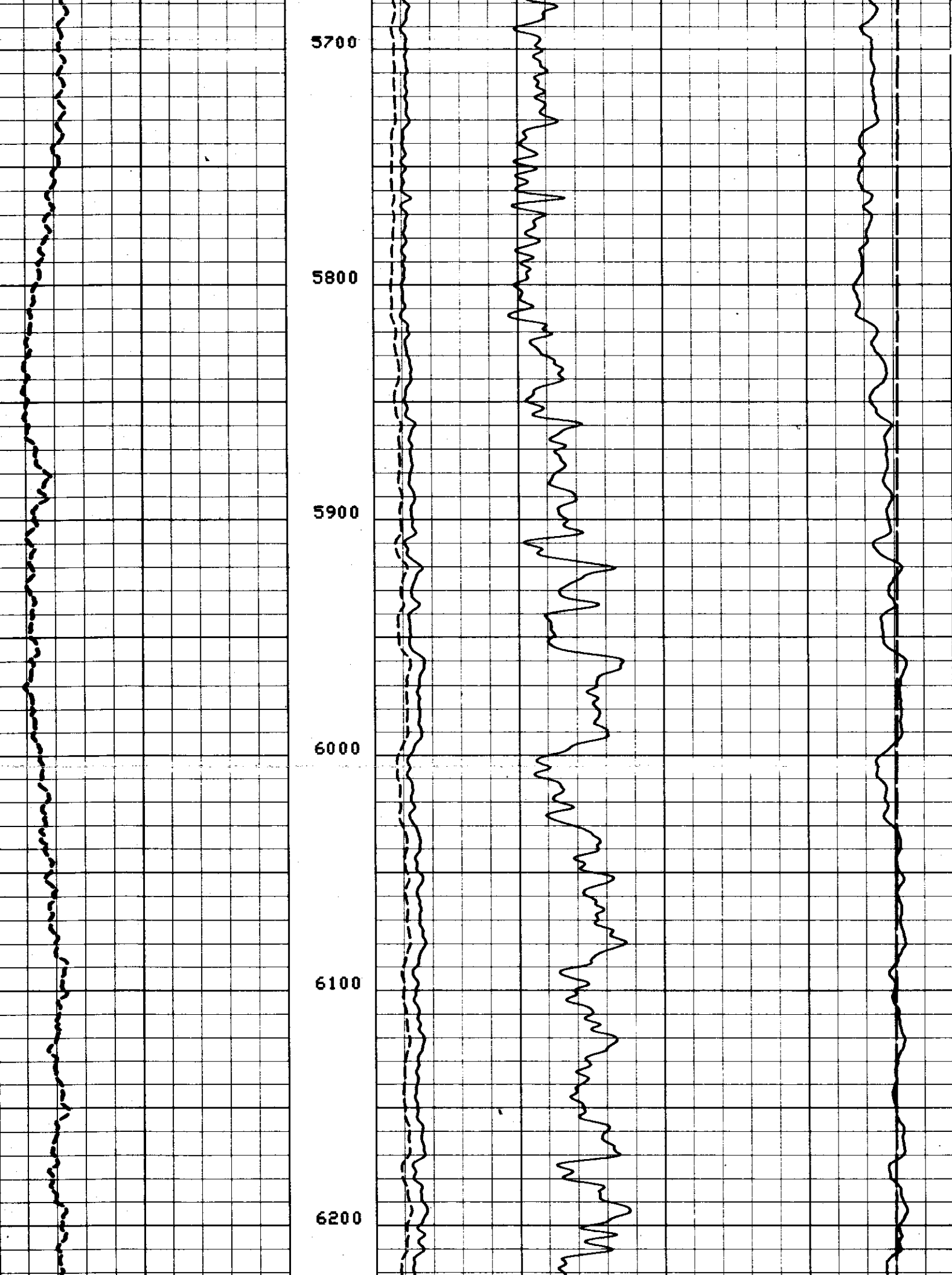
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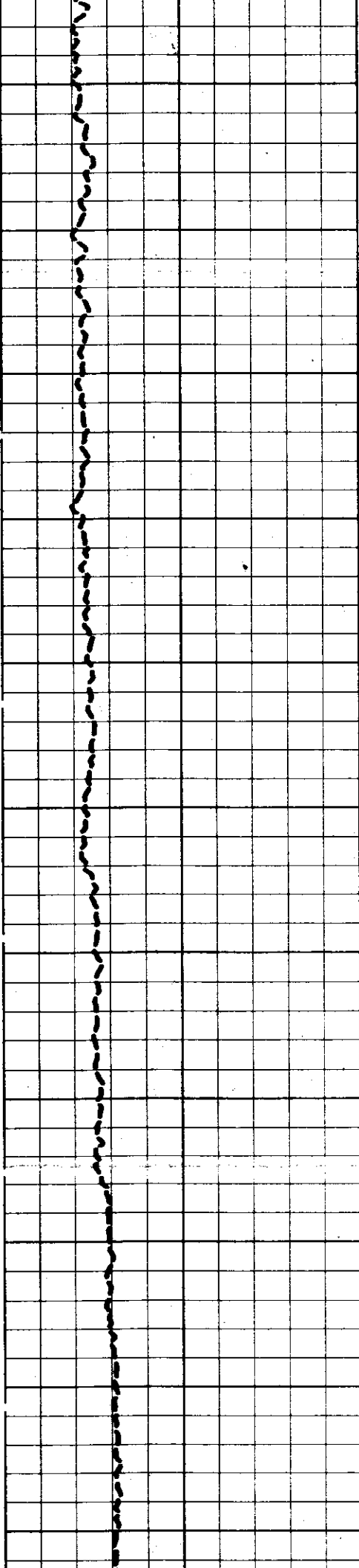
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5600







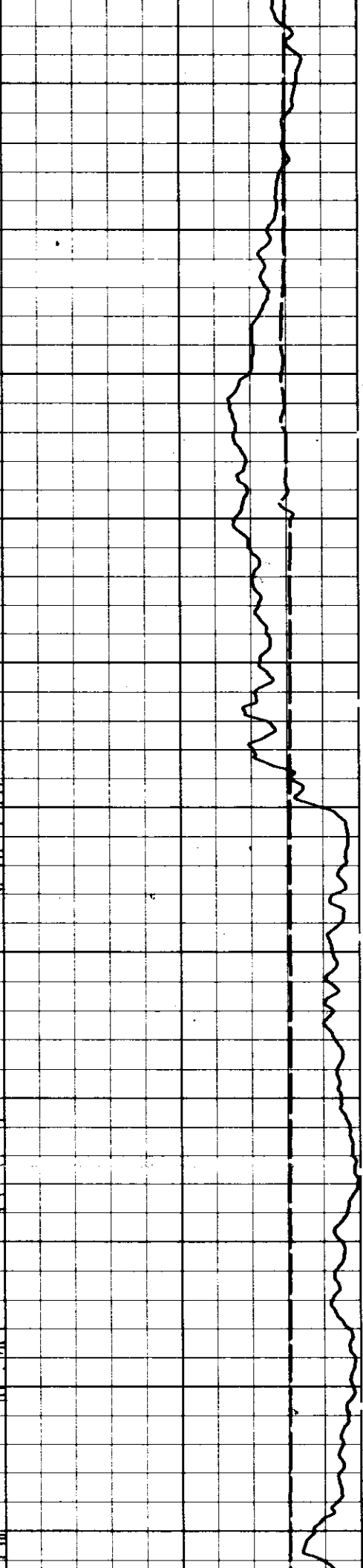
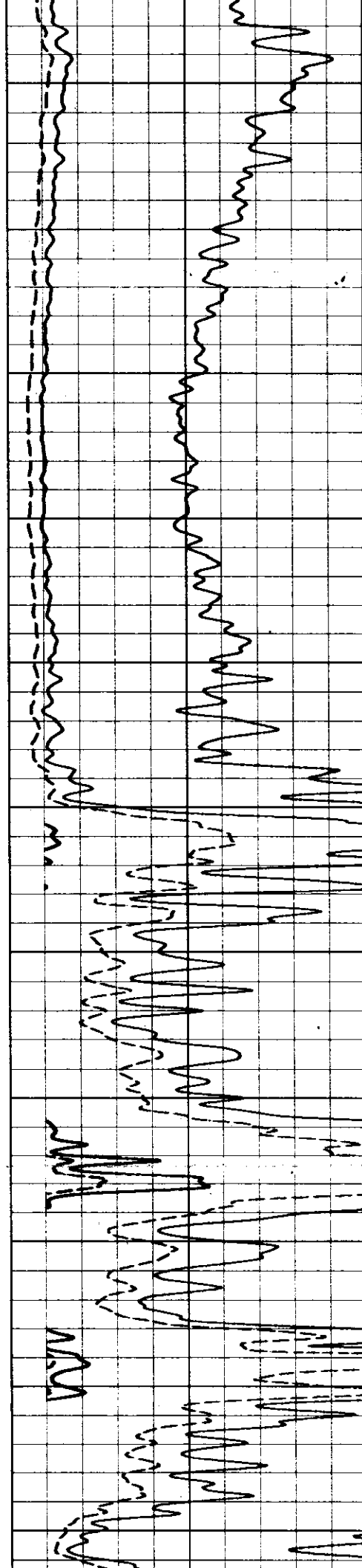
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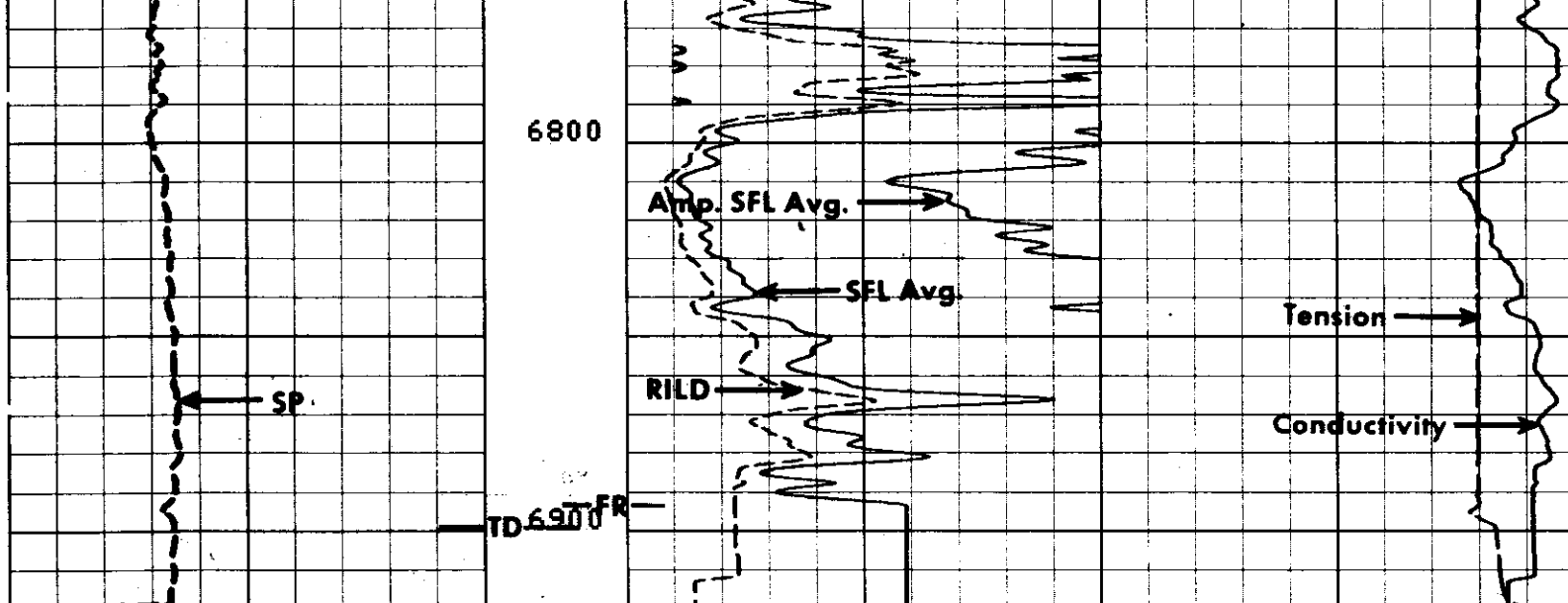
6400

6500

6600

6700





FILE 8 29-SEP-85 07:07

SP (MV)	-160.0	40.000	ILD (QHMM)		TENS(LB)	0.0
			0.0	50.000		
			SFLA(QHMM)			
			0.0	10.000		
			SFLA(QHMM)			
			0.0	50.000	10000.	0.0
			CILD(MMHO)			
			2000.0			0.0

SENSOR MEASURE POINT TO TOOL ZERO

SFL	6.4	FEET	ILD	9.4	FEET
SP	2.5	FEET	ILM	5.7	FEET
TENS	2.5	FEET	SPAR	2.5	FEET

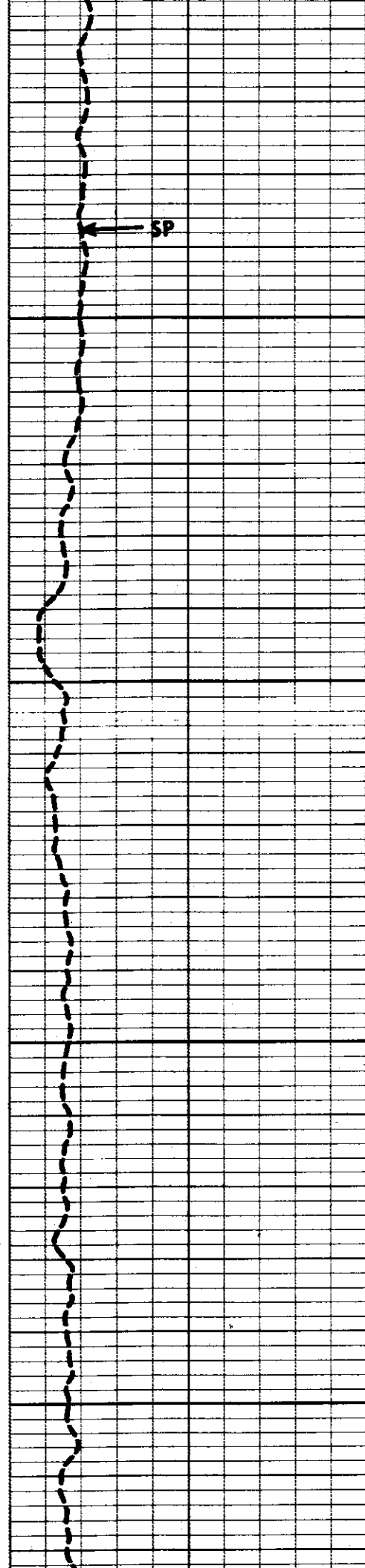
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SBR	1.00000	QHMM	DSEC	8.40000	MMHO
FPHI	DPHI		MSEC	6.60000	MMHO
BS	7.87500	IN	BHS	OPEN	

			TENS(LB)	
			10000.	0.0
			ILD (QHMM)	
		.20000		2000.0
			ILM (QHMM)	
		.20000		2000.0
		SFLU(QHMM)		
		.20000		2000.0
SP (MV)				
-160.0	40.000			

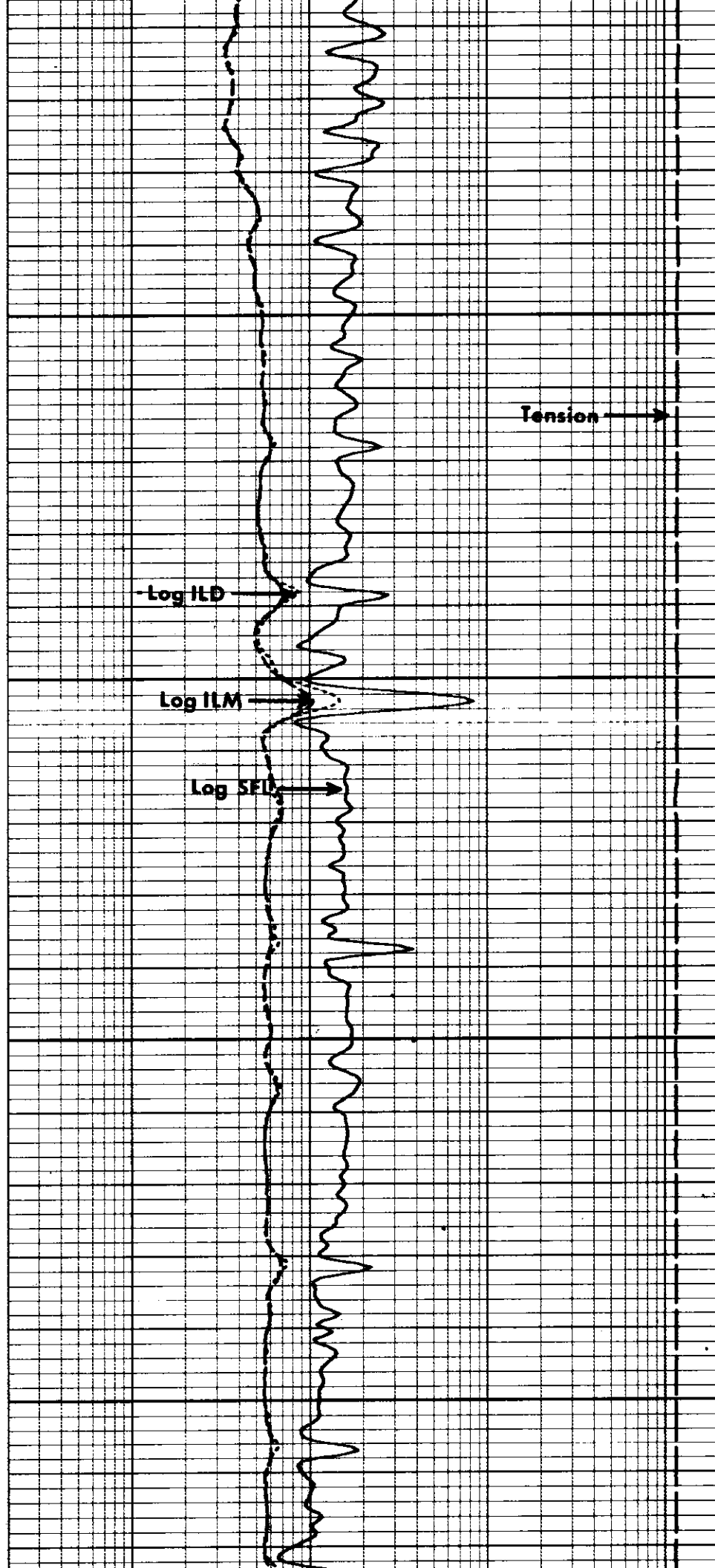
FILE 8 29-SEP-85 07:40

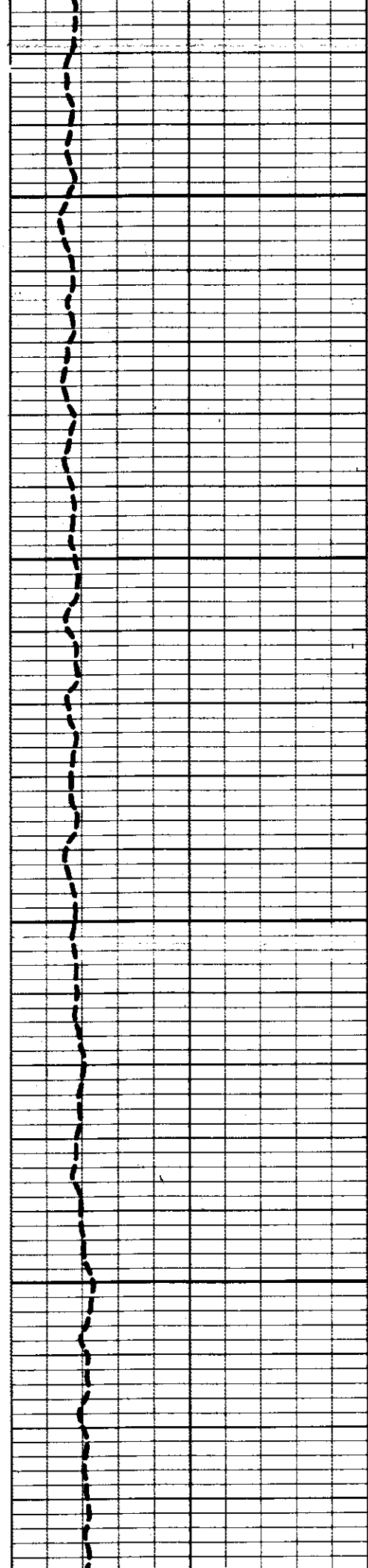
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3500

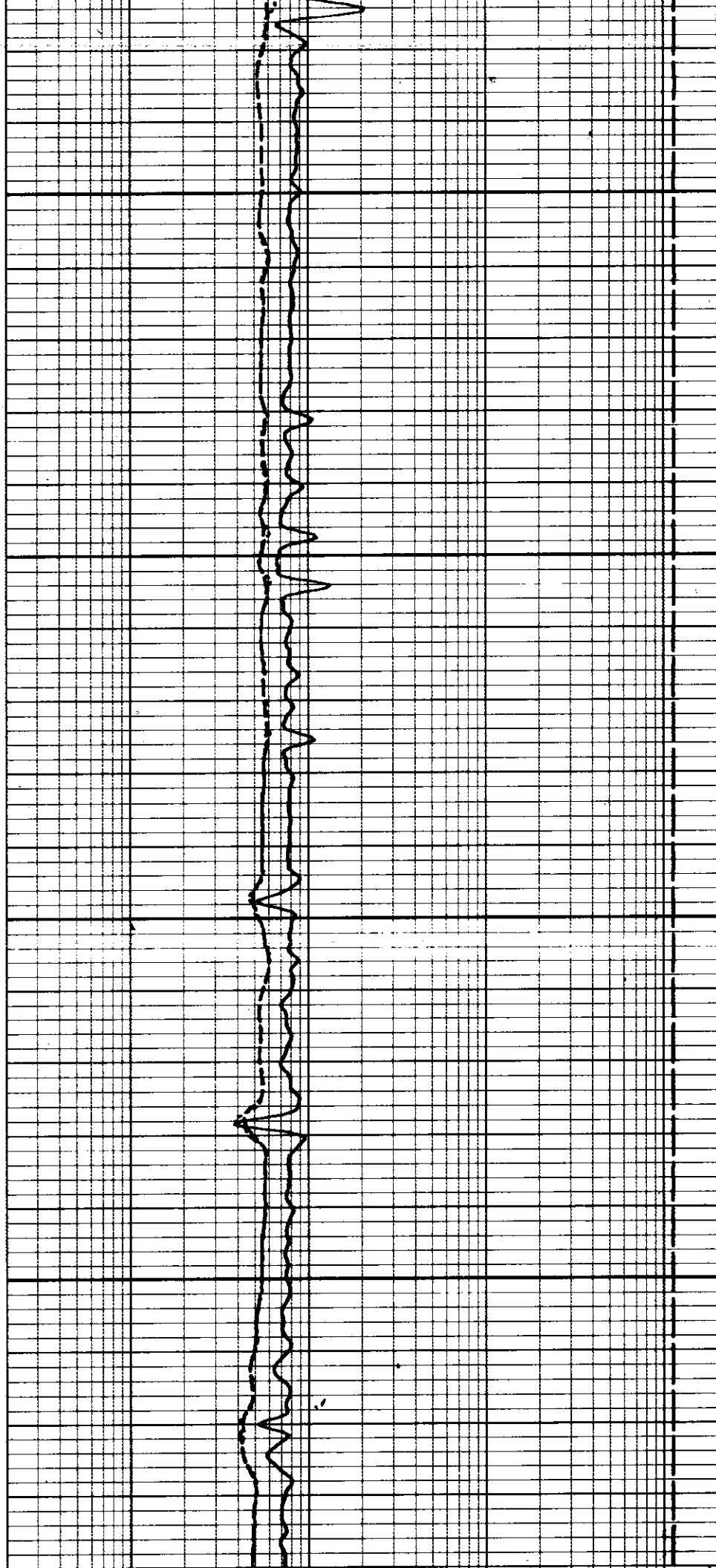
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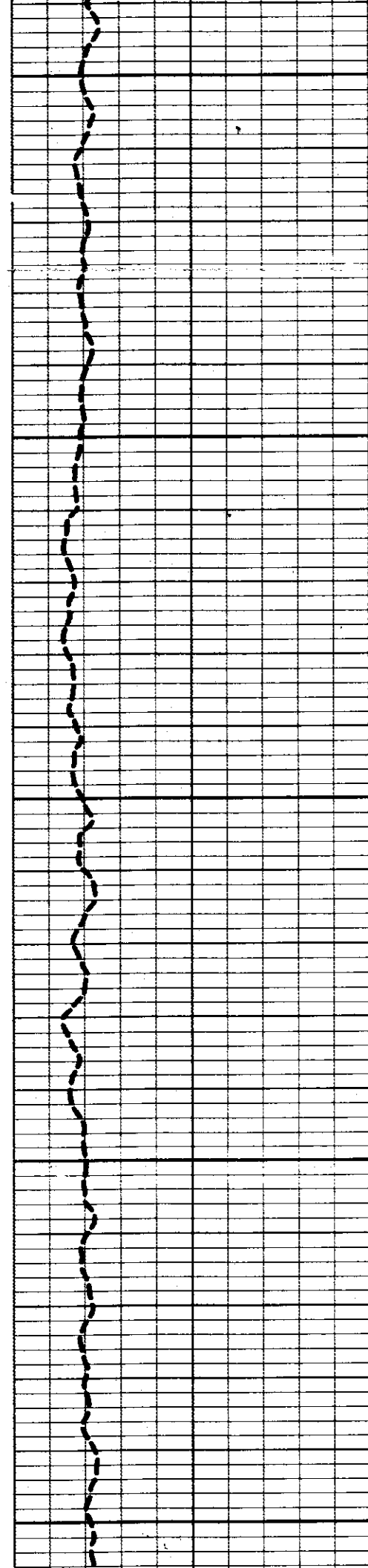




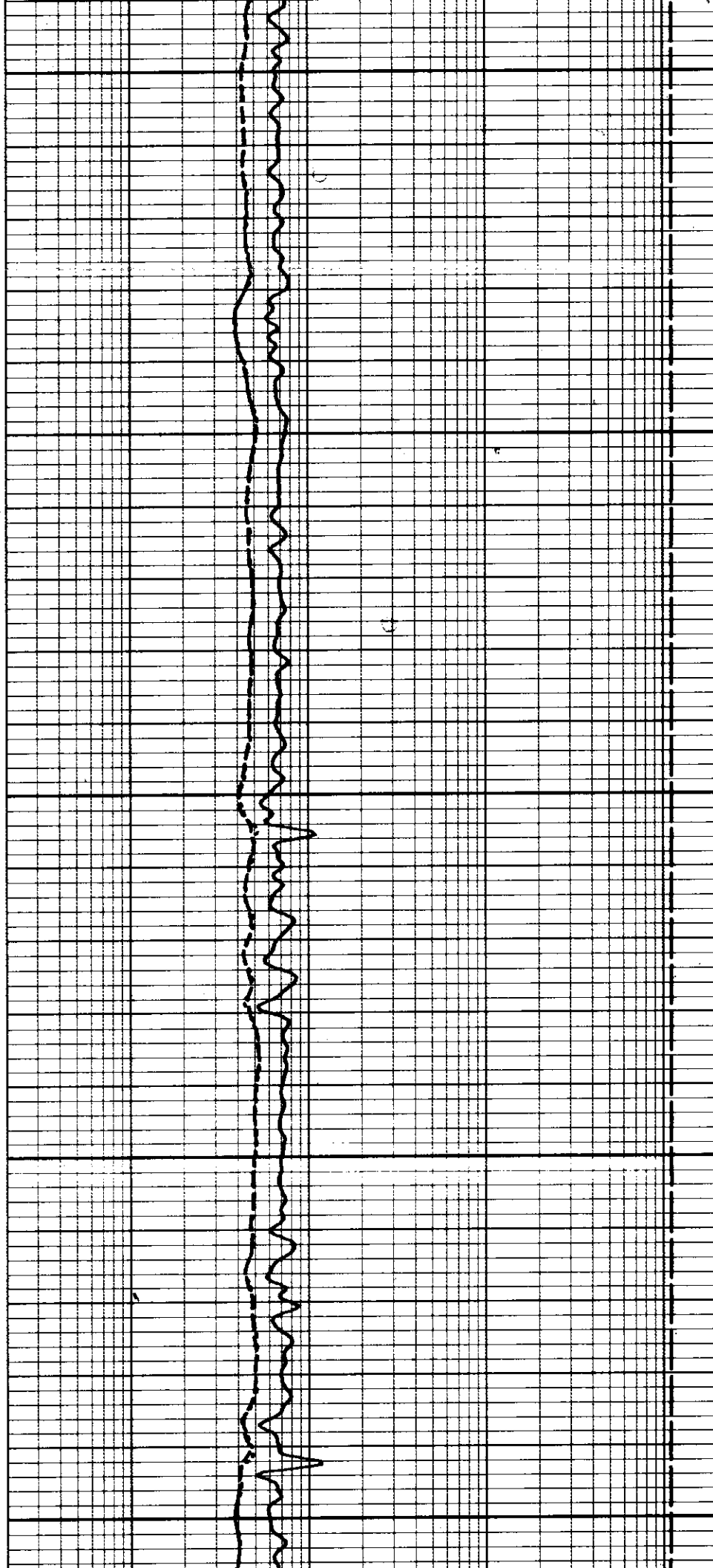
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3800





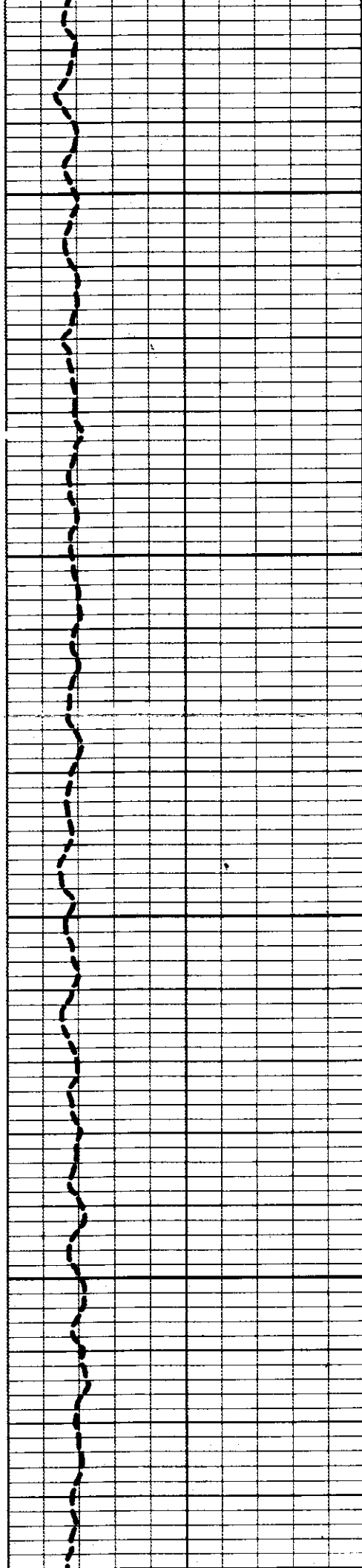
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4000

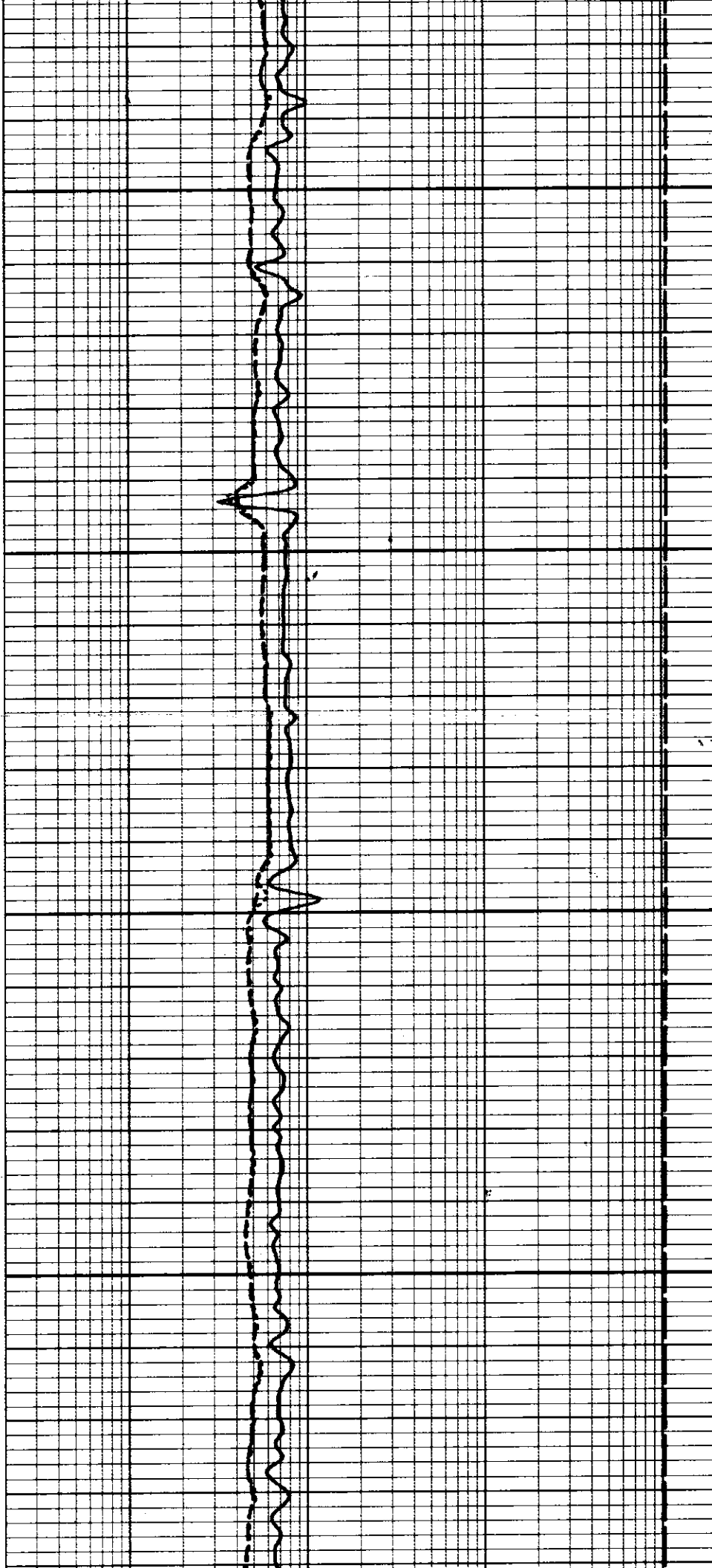
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4200



4300

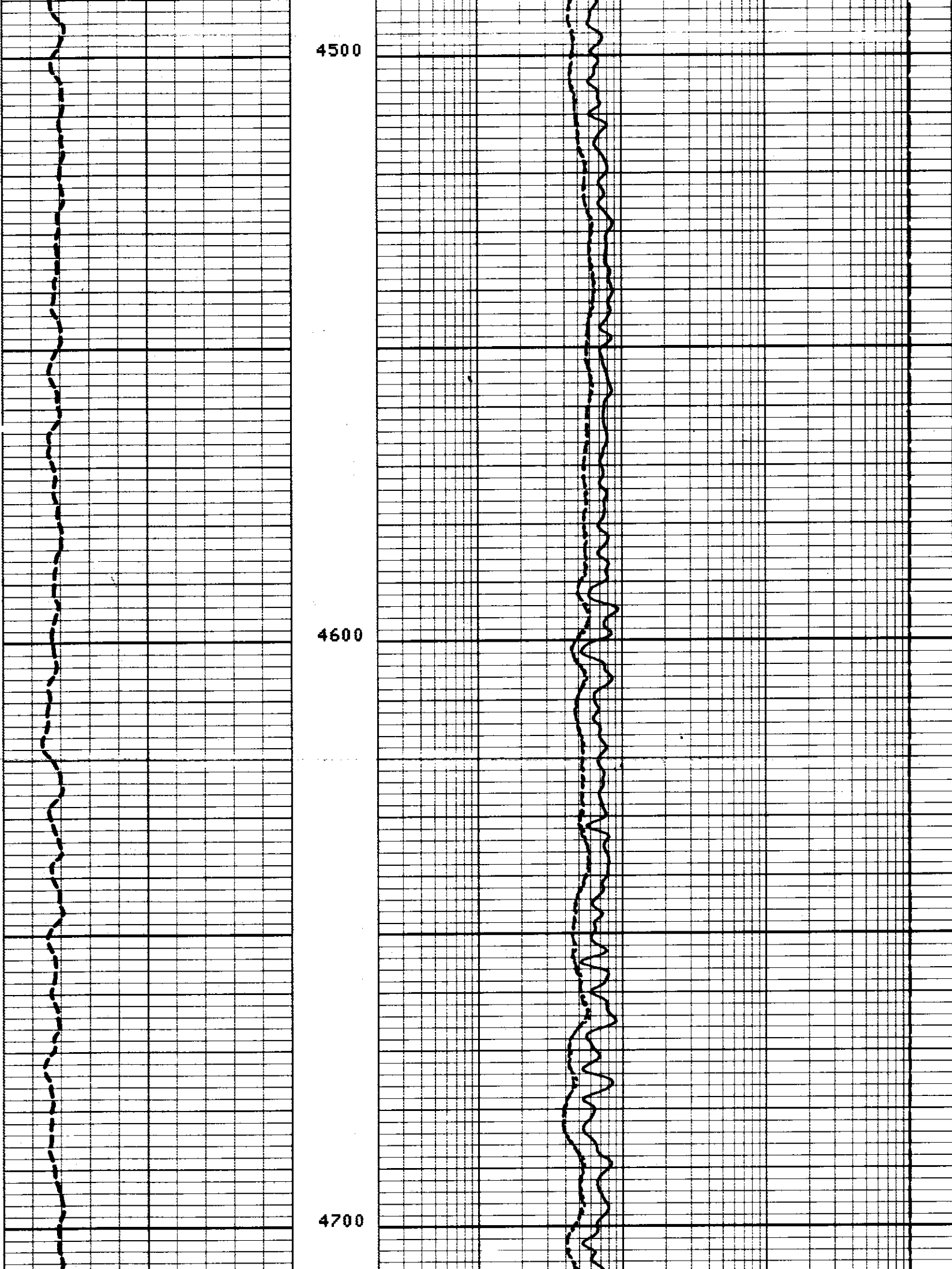
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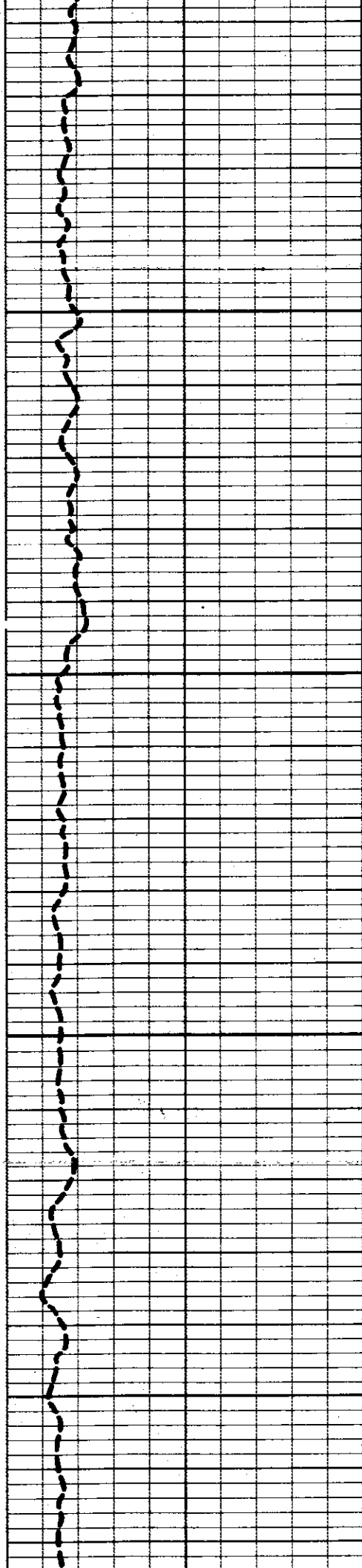


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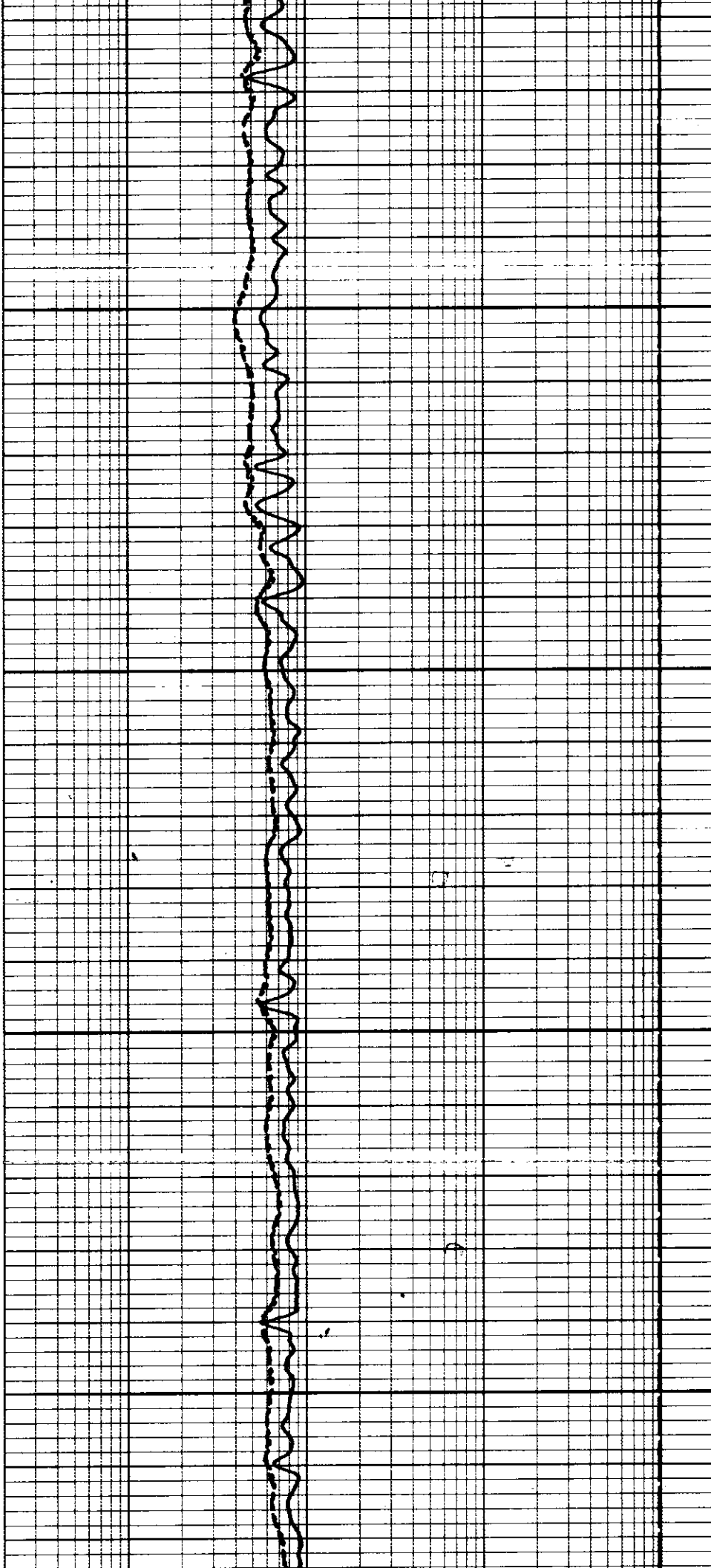
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4700

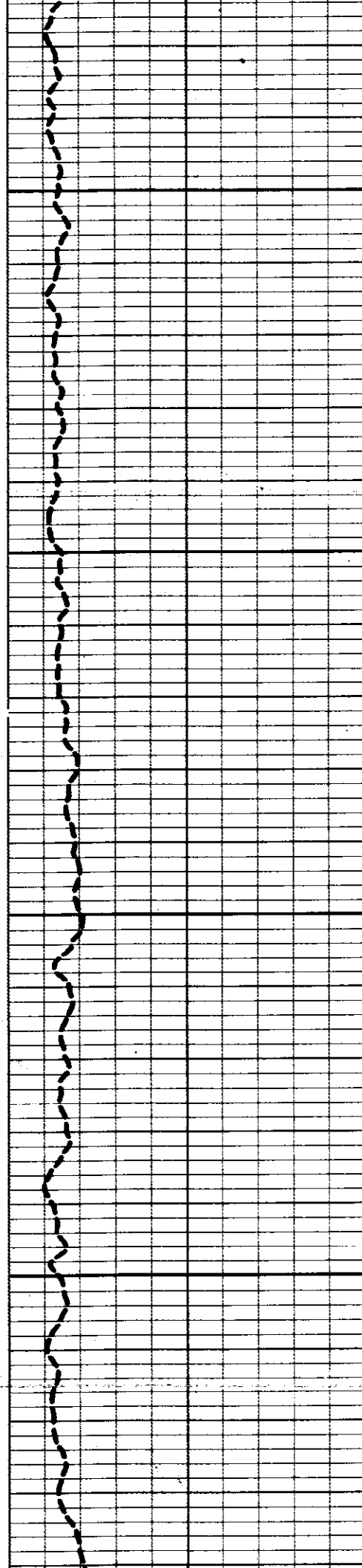




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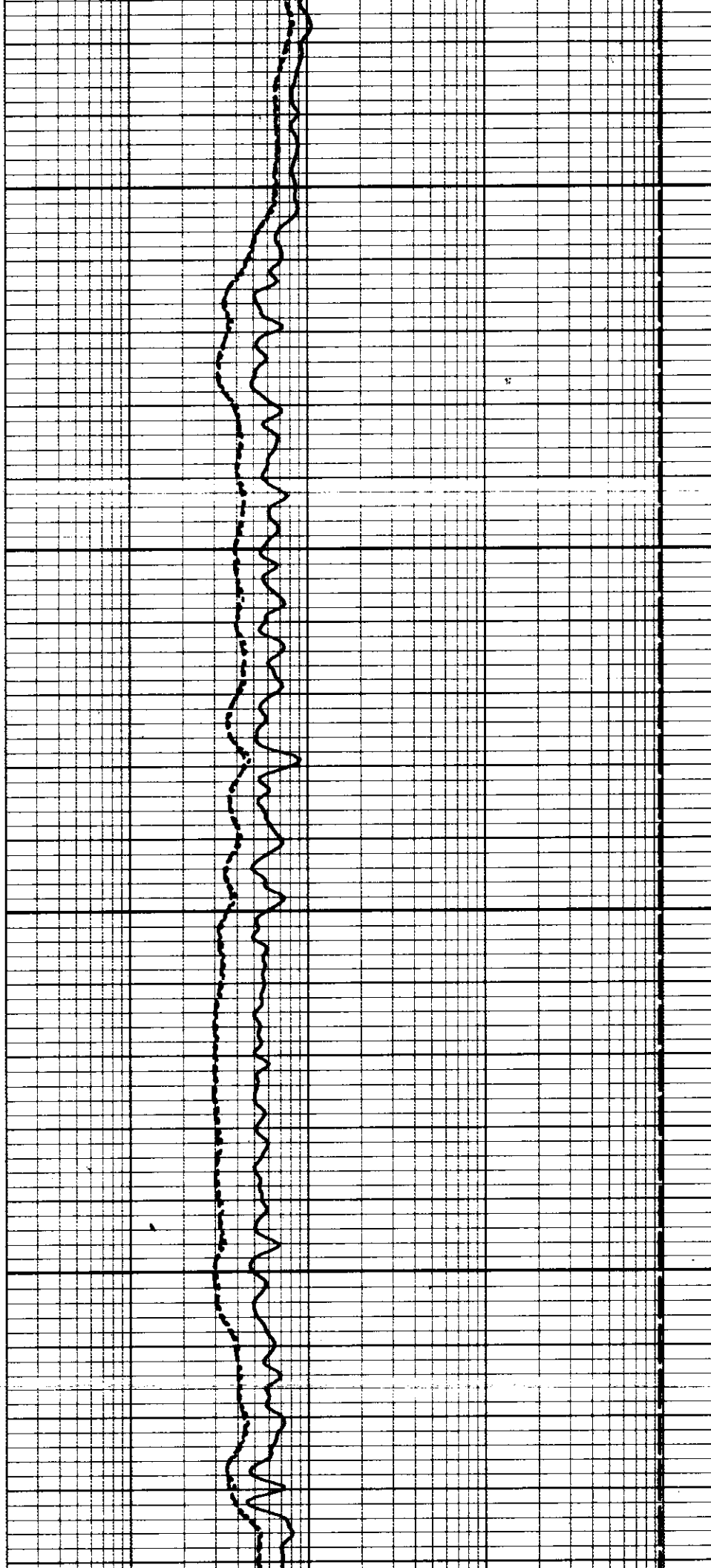


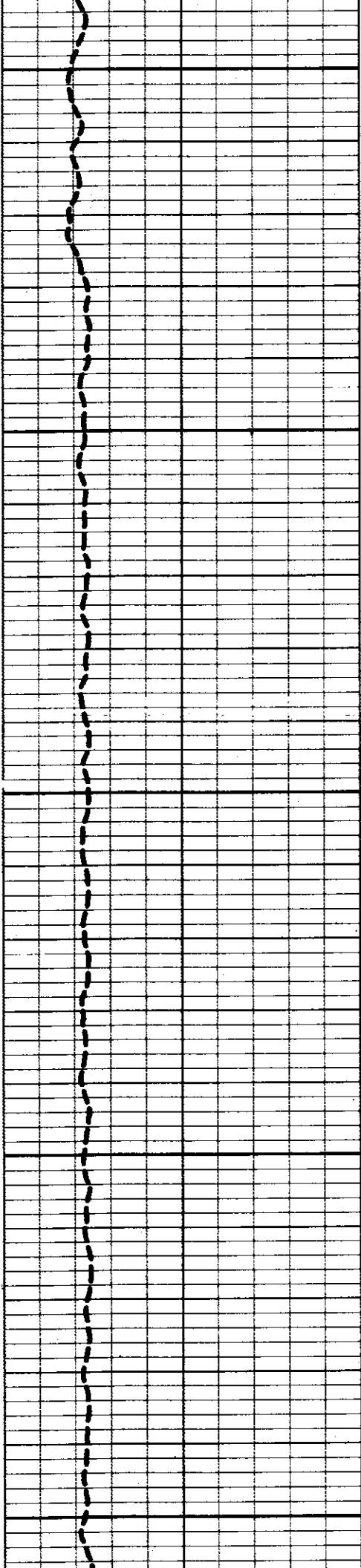
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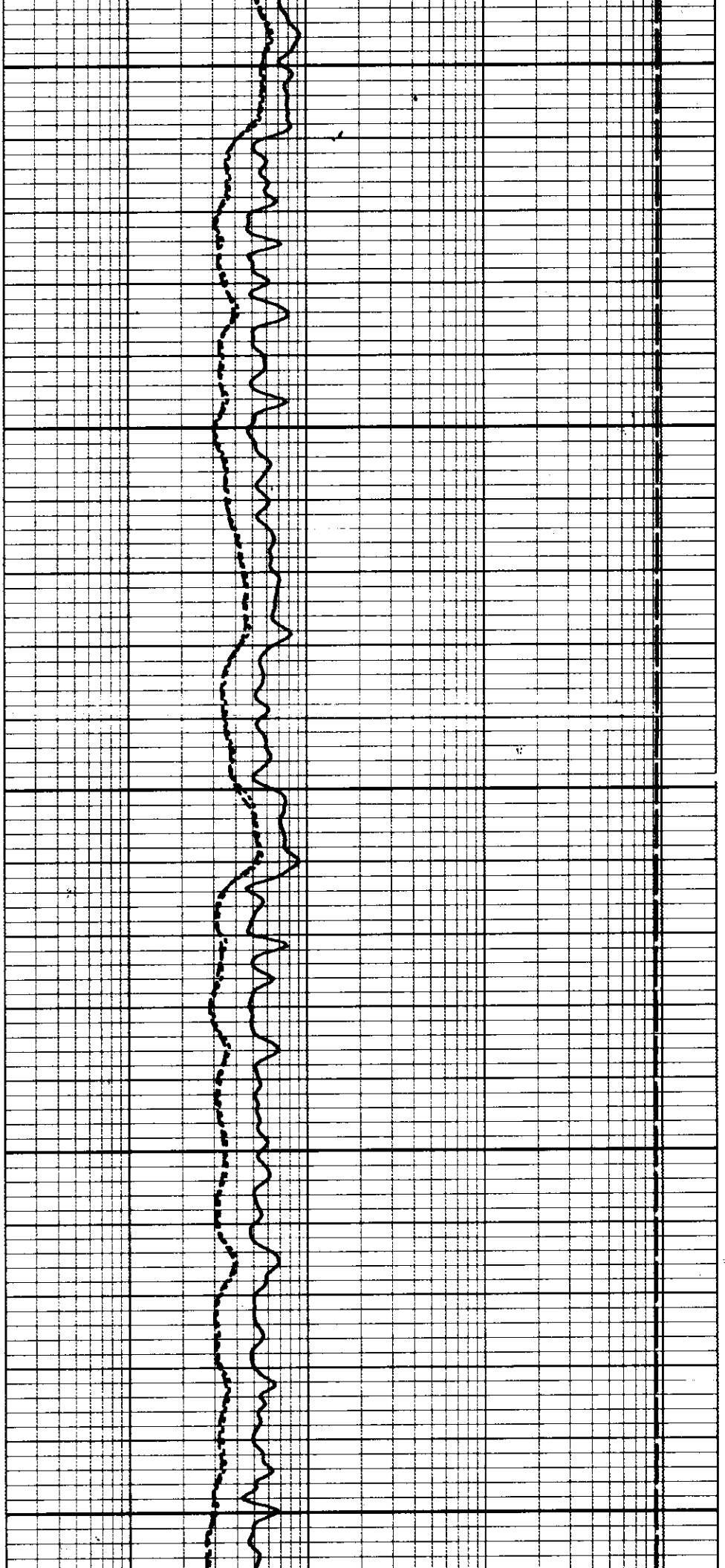
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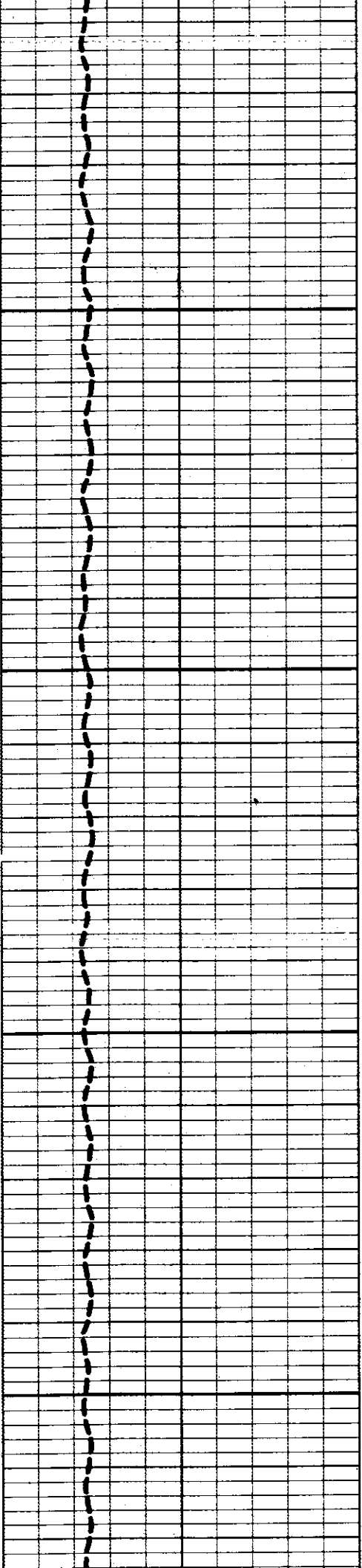




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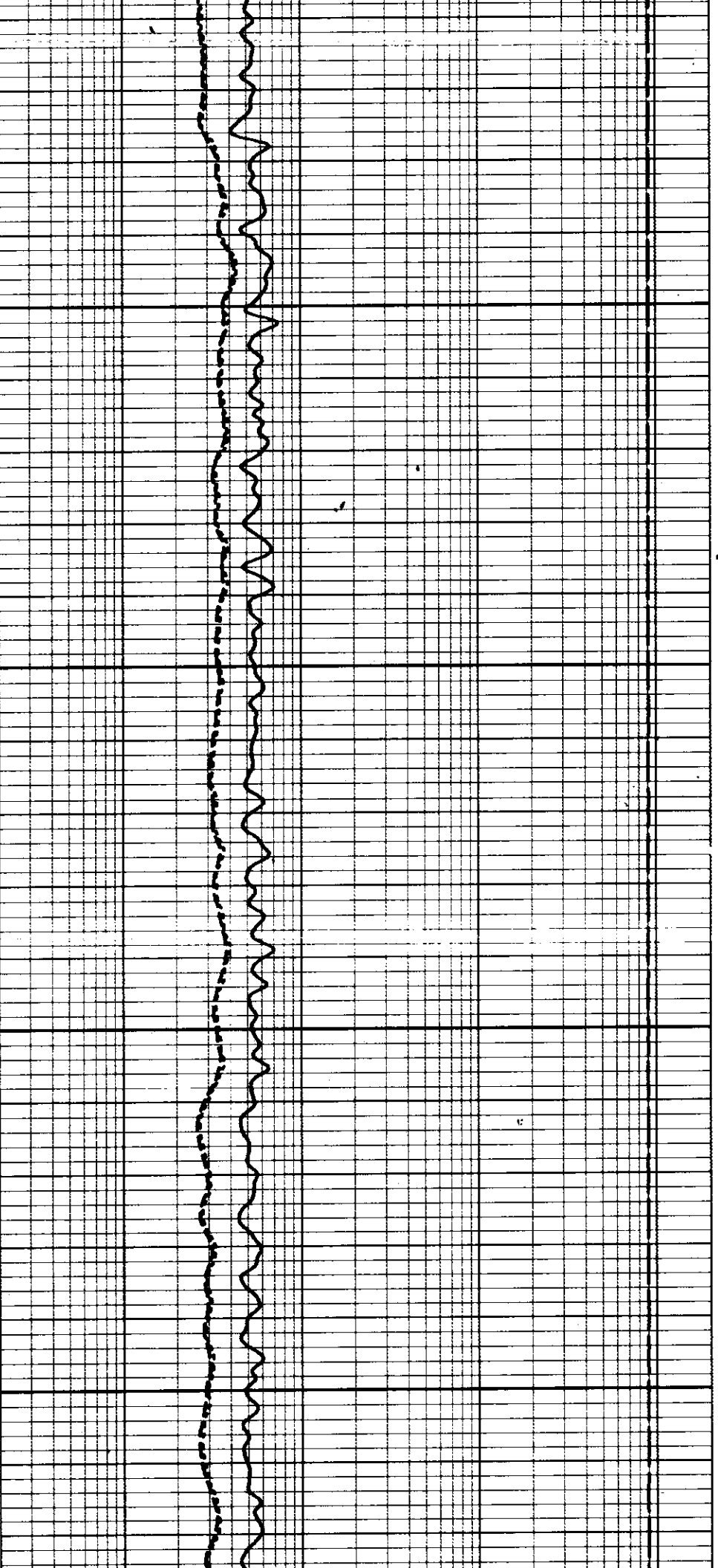


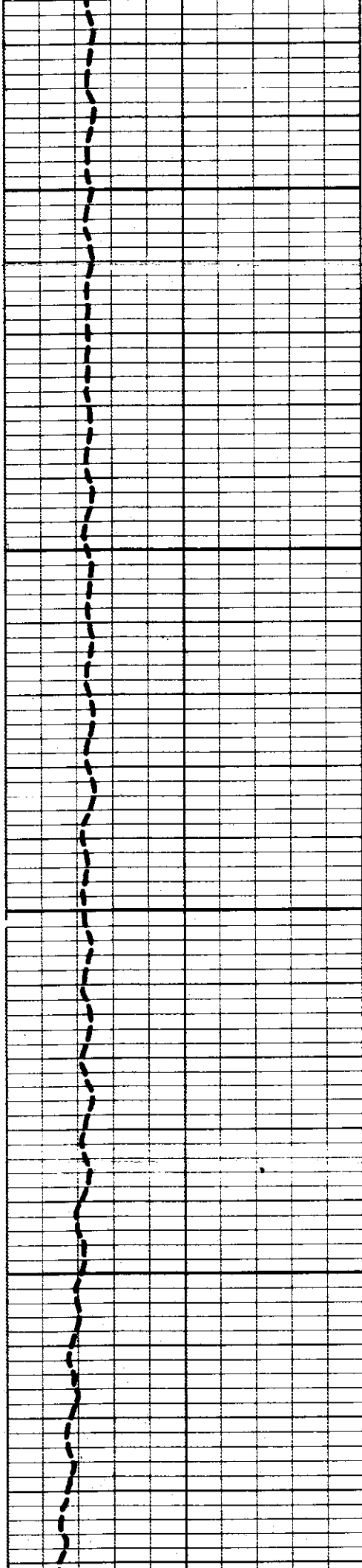
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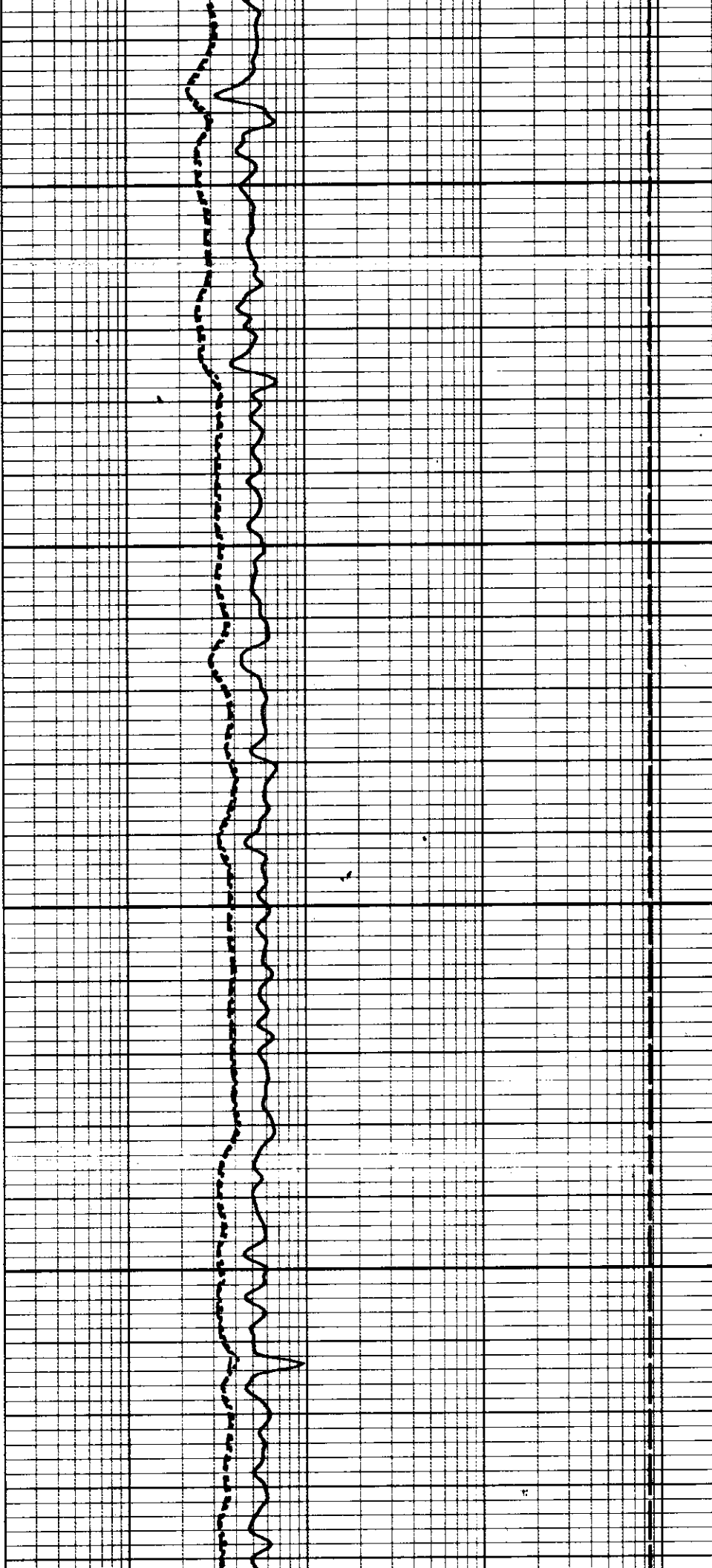
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5600

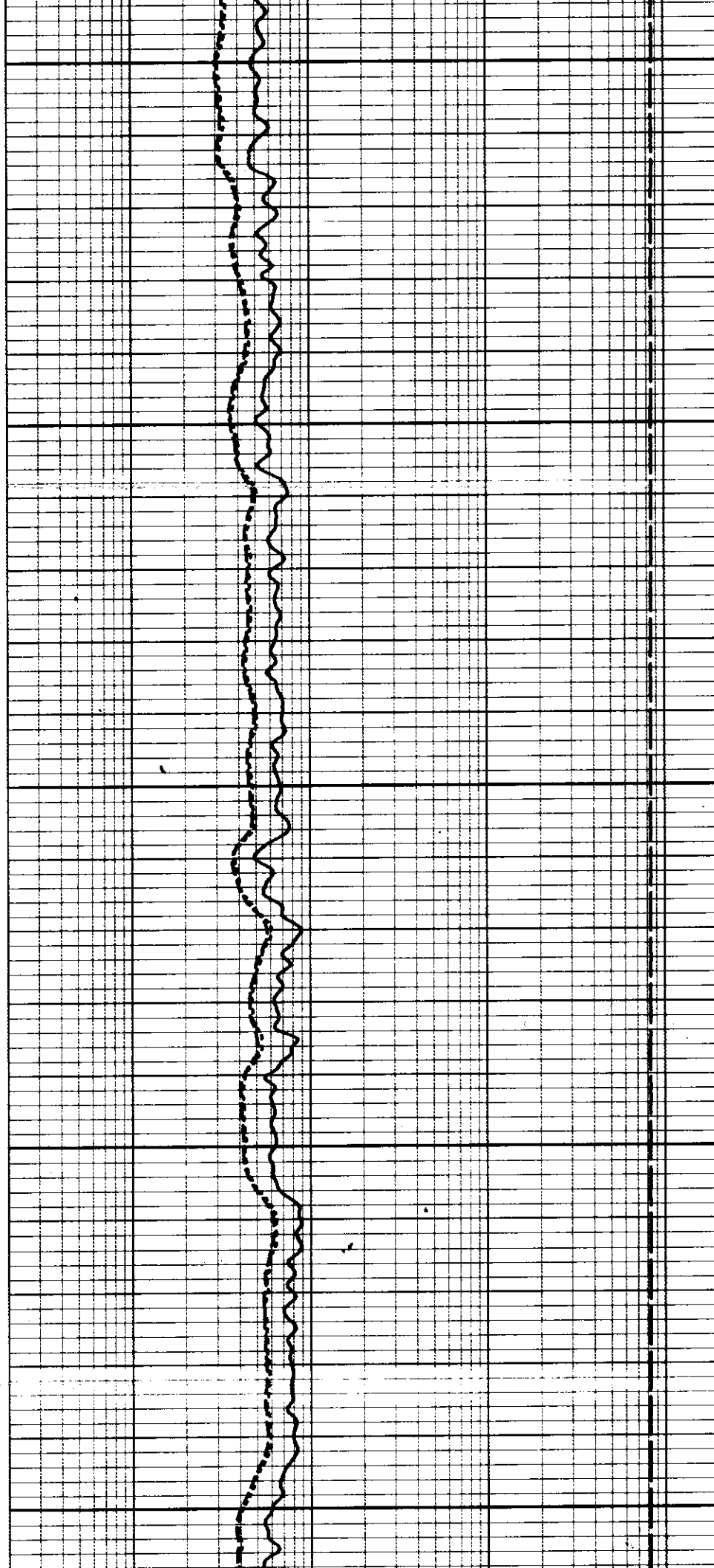
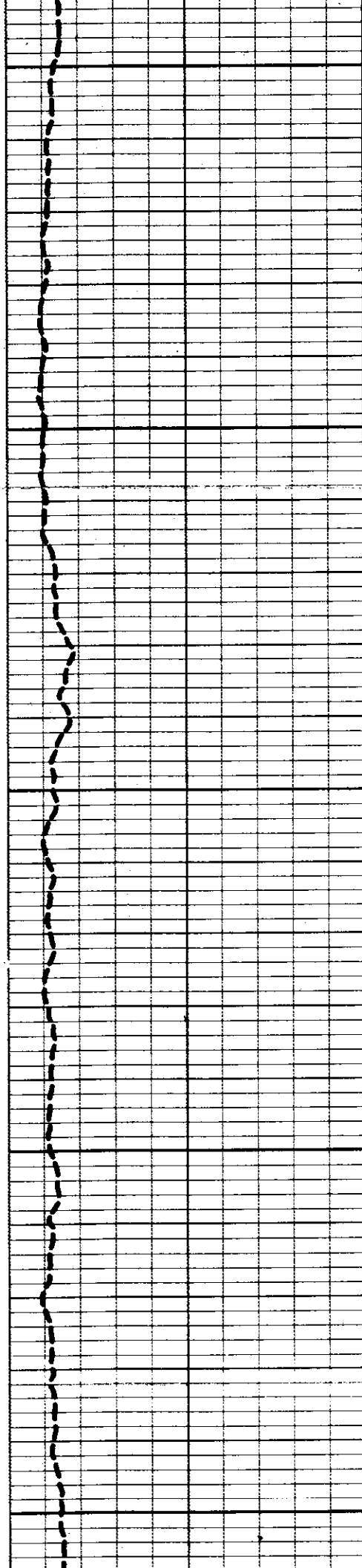
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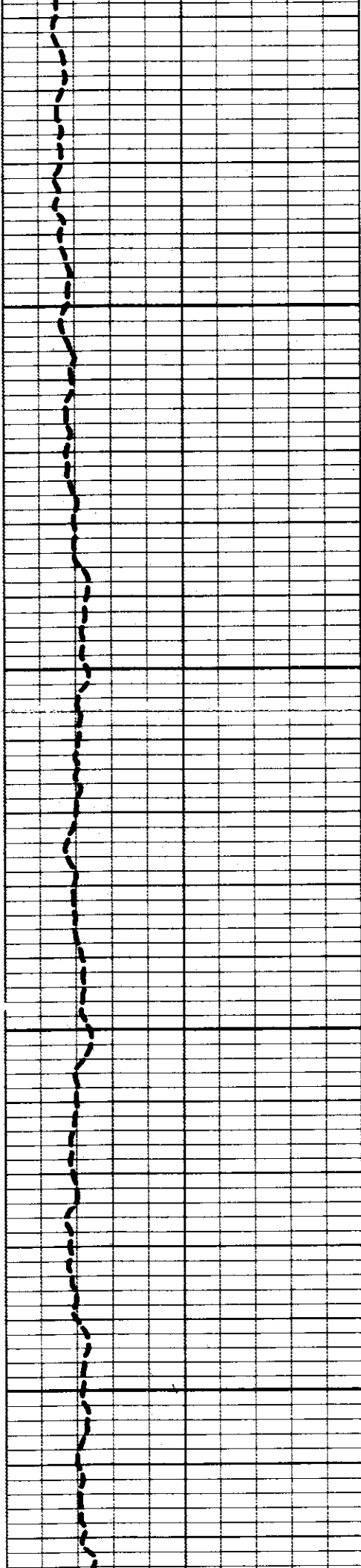


5800

5900

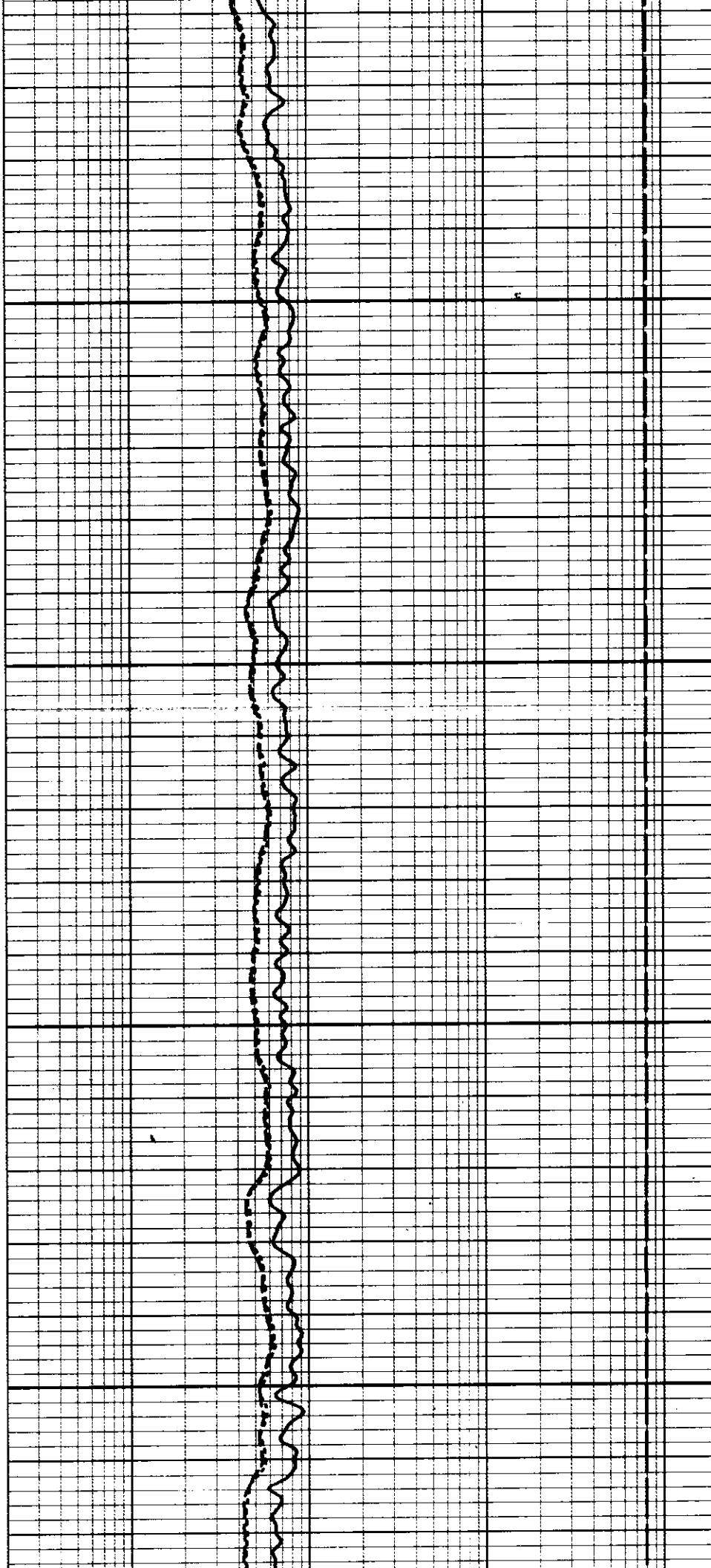
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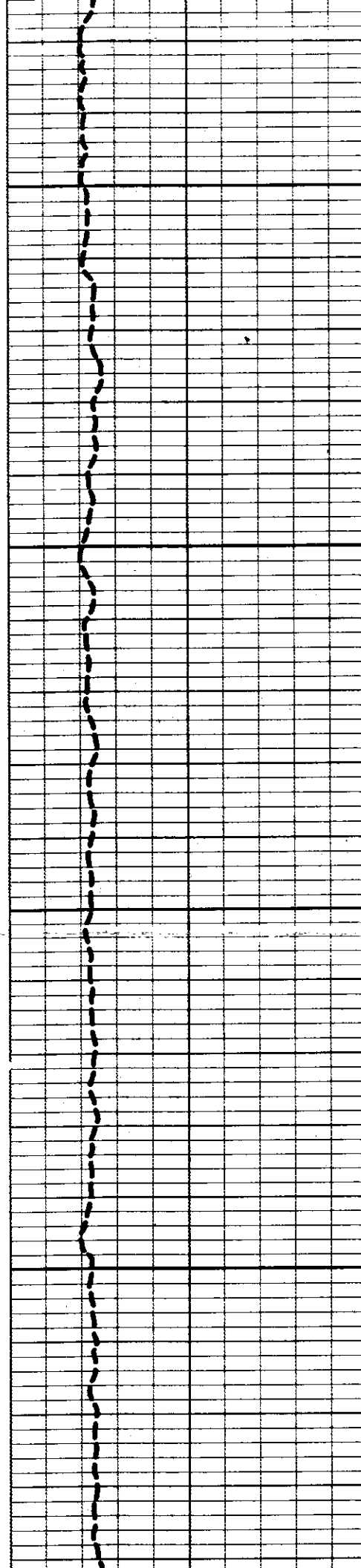




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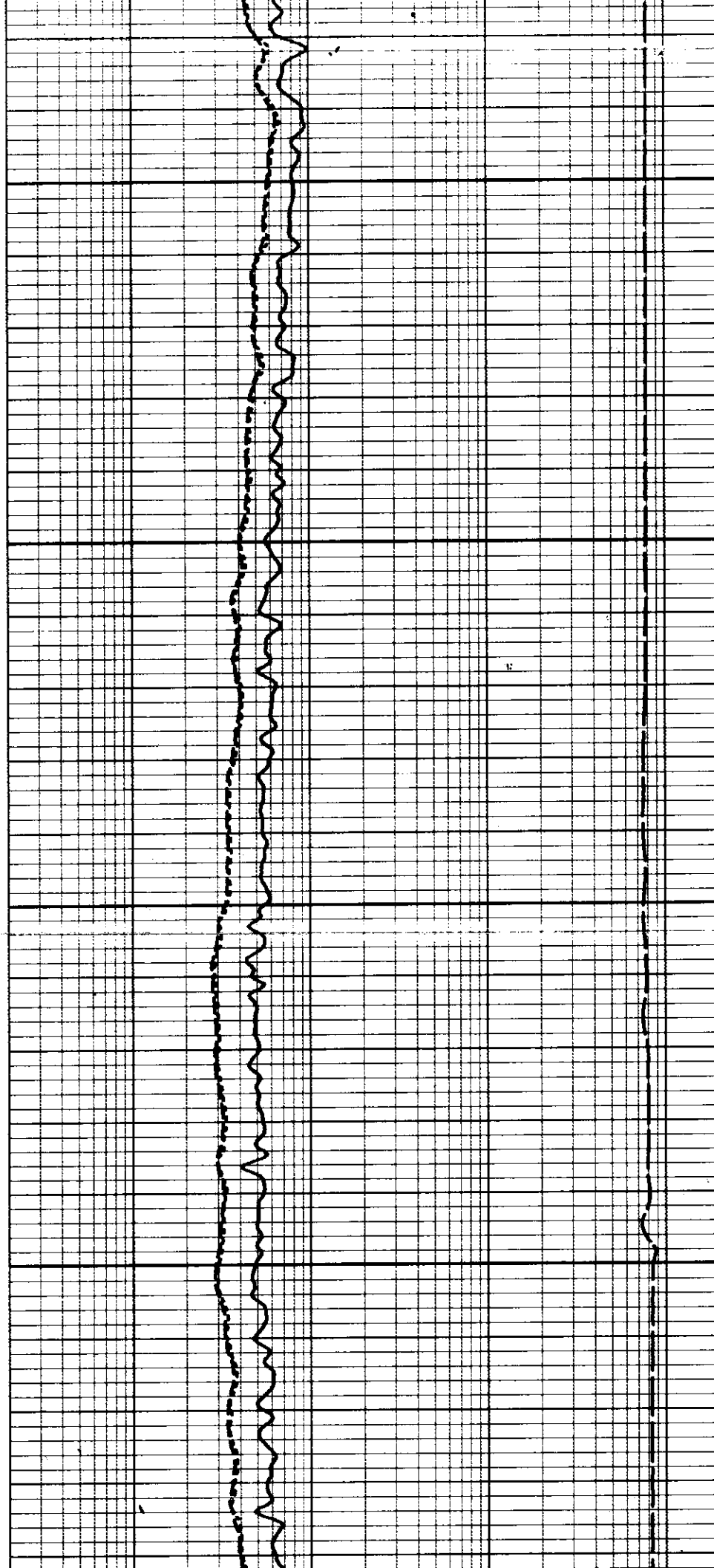
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6300

6400

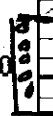


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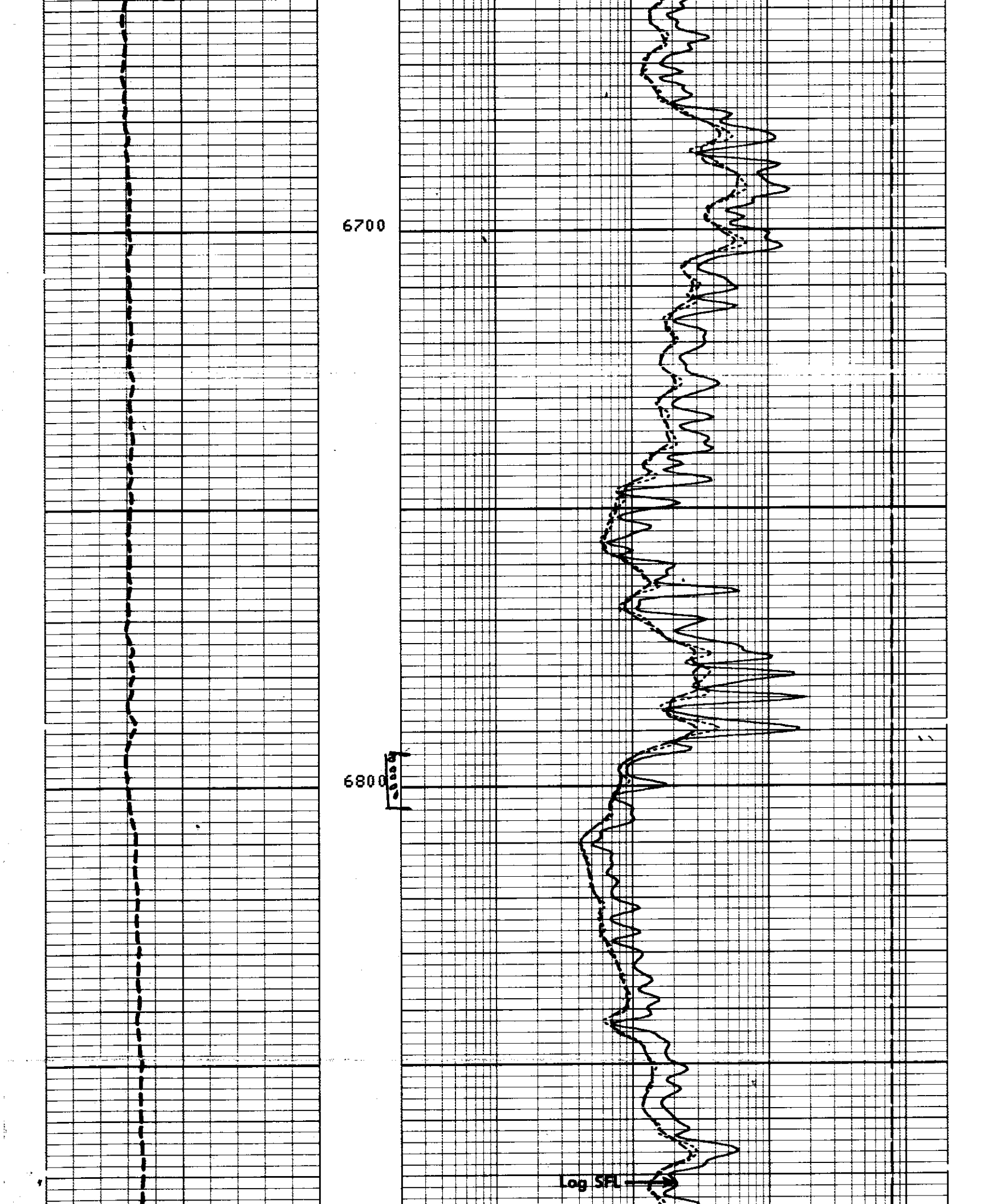
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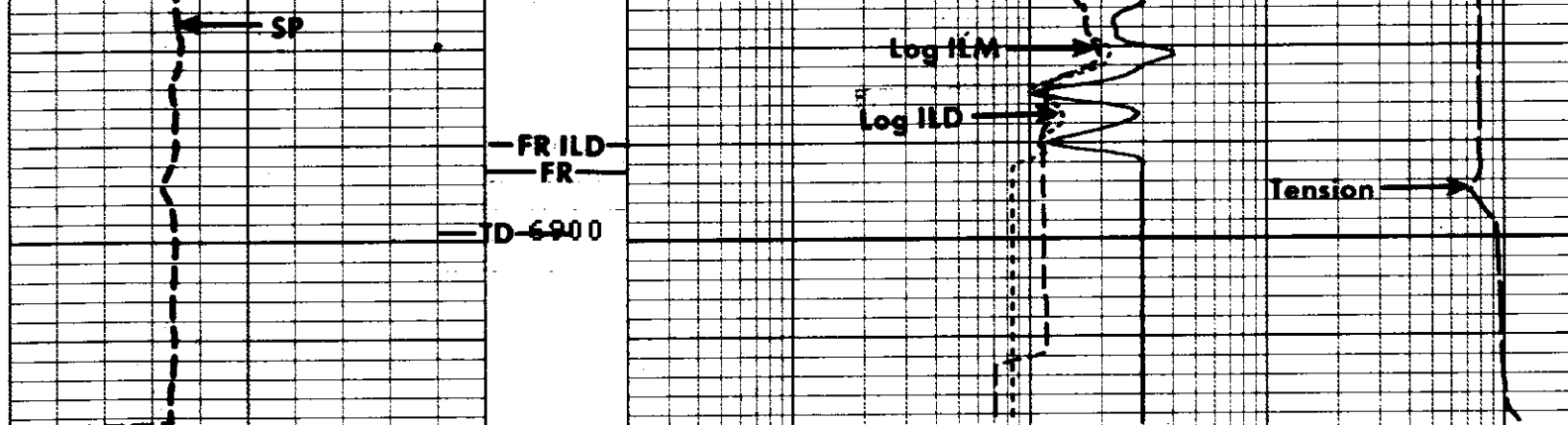
6700

6800



Log SPL





FILE 8 29-SEP-85 07:07

		TENS(LB)	
		10000.	0.0
		ILD (DHMM)	
		.20000	2000.0
		ILM (DHMM)	
		.20000	2000.0
		SFLU(DHMM)	
		.20000	2000.0
SP (MV)			
-160.0	40.000		

SENSOR MEASURE POINT TO TOOL ZERO

SFL 6.4 FEET
 SP 2.5 FEET
 TENS 2.5 FEET

ILD 9.4 FEET
 ILM 5.7 FEET
 SPAR 2.5 FEET

PARAMETERS

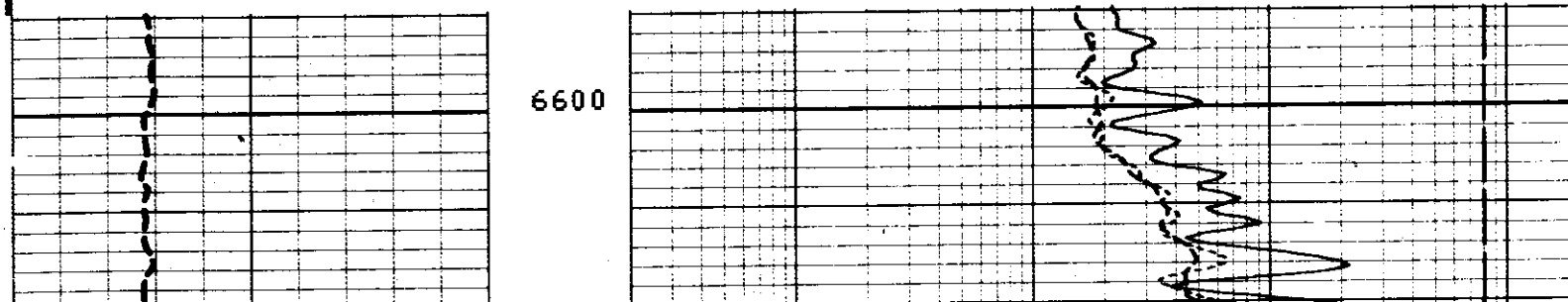
NAME VALUE UNIT
 SBR 1.00000 DHMM
 FPHI DPHI
 BS 7.87500 IN

NAME VALUE UNIT
 DSEC 8.40000 MMHD
 MSEC 6.60000 MMHD
 BHS OPEN

		TENS(LB)	
		10000.	0.0
		ILD (DHMM)	
		.20000	2000.0
		ILM (DHMM)	
		.20000	2000.0
		SFLU(DHMM)	
		.20000	2000.0
SP (MV)			
-160.0	40.000		

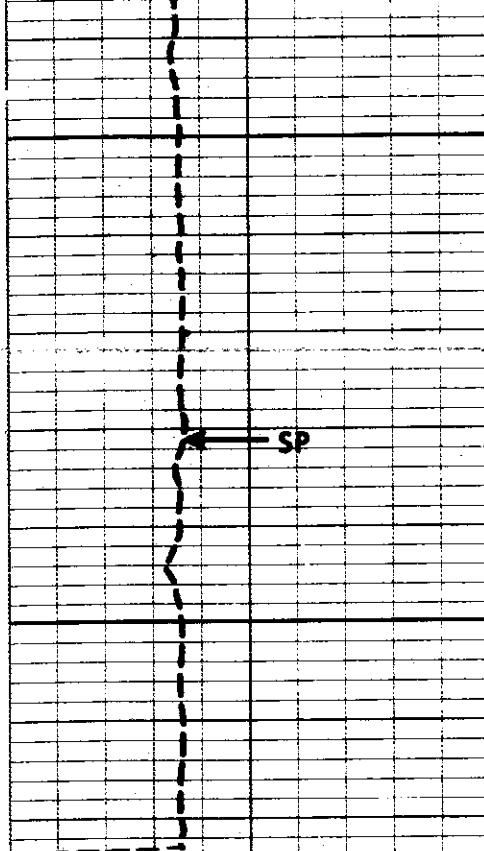
FILE 7 29-SEP-85 07:05

REPEAT SECTION

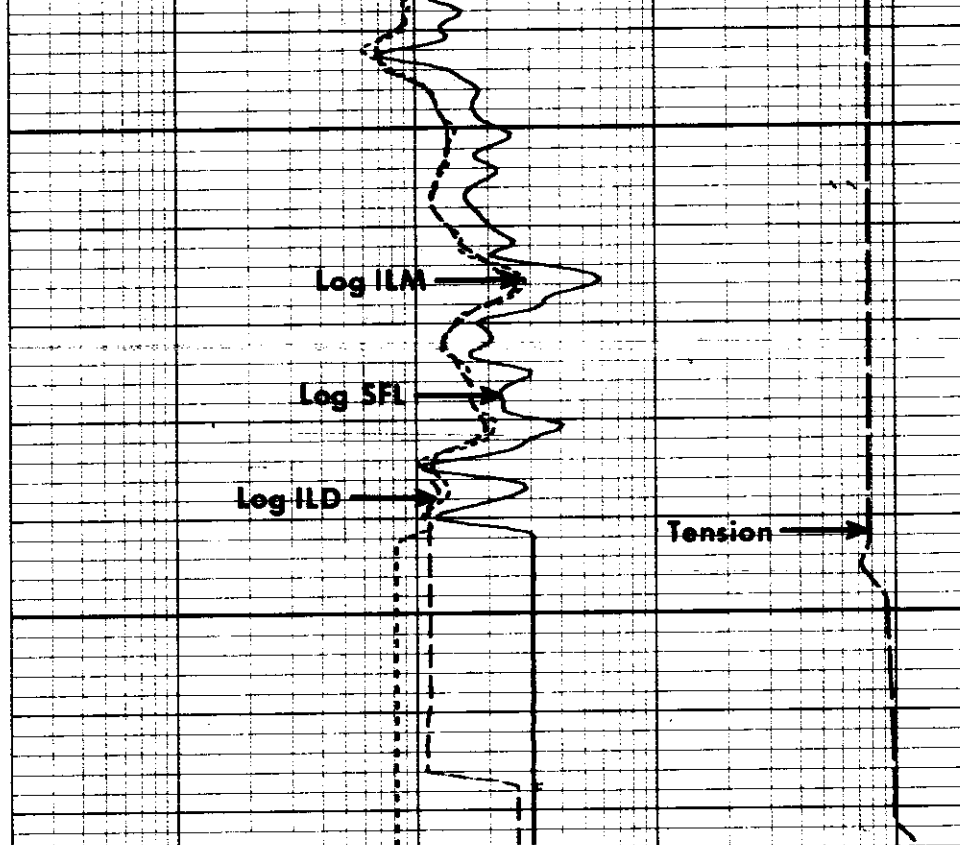


6700

6800



6900



FILE 7 29-SEP-85 07:01 REPEAT SECTION

		TENS(LB)	
		10000.	0.0
		ILD (DHMM)	
		.20000	2000.0
		ILM (DHMM)	
		.20000	2000.0
		SFLU(DHMM)	
		.20000	2000.0
SP (MV)			
-160.0	40.000		

SENSOR MEASURE POINT TO TOOL ZERO

SFL	6.4	FEET	ILD	9.4	FEET
SP	2.5	FEET	ILM	5.7	FEET
TENS	2.5	FEET	SPAR	2.5	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SBR	1.00000	DHMM	DSEC	8.40000	MMHO
FPHI	DPHI		MSEC	6.60000	MMHO
BS	7.87500	IN	BHS	OPEN	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/09/29
 PROGRAM FILE: ISN (VERSION 26.2 84/08/31)

DITD

ELECTRONICS CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
	ZERO	PLUS	ZERO	PLUS	
ILD	-.1	570.4	0.0	498.4	MMHO
ILM	-.1	566.4	0.0	502.8	MMHO
SFL	-.3	534.0	0.0	500.0	MMHO

ILD SONDE ERROR CORRECTION : 8.4 MMHO
ILM SONDE ERROR CORRECTION : 6.6 MMHO

FILE 0 29-SEP-85 06:52

SHOP SUMMARY

PERFORMED: 85/09/16
PROGRAM FILE: SHOP (VERSION 26.2 83/11/17)

DITD

ELECTRONICS CALIBRATION SUMMARY

	TEST LOOP CALIBRATION				TOOL CHECK		UNITS
	MEASURED		CALIBRATED		CALIBRATED		
	ZERO	PLUS	ZERO	PLUS	ZERO	PLUS	
ILD	-9.5	549.6	0.0	500.0	0.0	498.2	MMHO
ILM	-7.6	547.2	0.0	500.0	0.0	502.7	MMHO

ILD SONDE ERROR CORRECTION : 8.4 MMHO
ILM SONDE ERROR CORRECTION : 6.6 MMHO

(IS:482 , IC:514)

FILE 0 16-SEP-85 14:11

