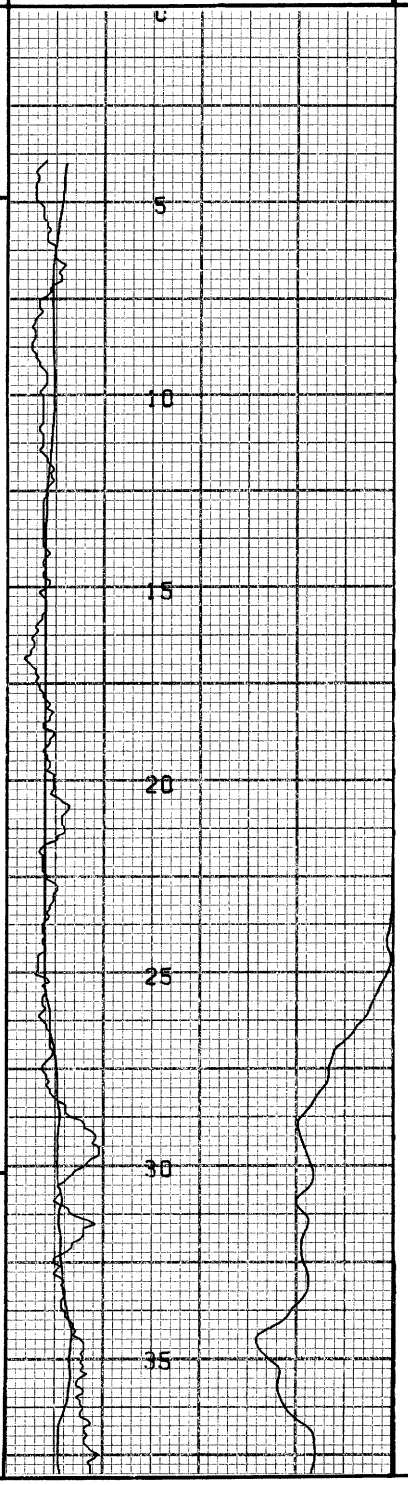
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. VBS-04

PROJECT Virginia Beach Groundwater Development Project (Phase I)	SHT. NO. 1 OF 5
CLIENT Betz, Converse, Murdoch, Inc.	PROJ. NO. 80-07203-01
CONTRACTOR A. C. Schultes and Sons, Inc.	ELEVATION 15±
	DATUM Nat'l Geodedic
	DATE START 1/24/81
	DATE FINISH 1/25/81
	DRILLER Ed Kelly
	CWDD REP. S. Oppenheimer

GROUND WATER				Boring	CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	Mud	S.S.		
				DIA.		2"		
				WT.		140#		
				FALL		30"		

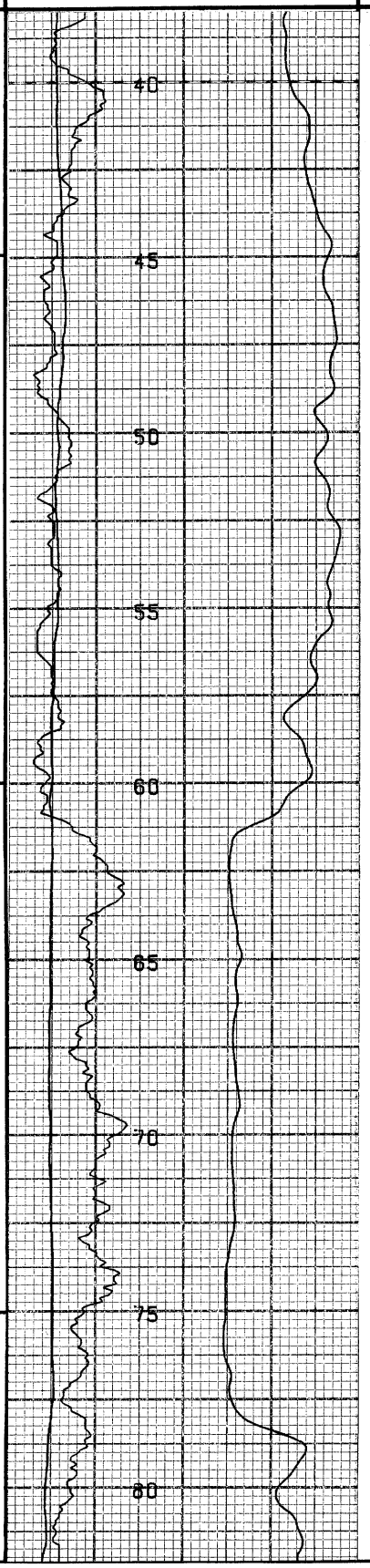
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
2					Gray sandy clay (CL) 5.0		
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28					Light gray silty fine to medium Sand, intercalated layers of clayey silt (SP) 30.0		
30							
32							
34							
36							
38							



FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. VBS-04
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 2 OF 5
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
40							
42					Gray sandy silt (ML) 45.0		
44							
46							
48							
50							
52							
54							
56					Gray coarse to fine Sand, intercalated layers of clayey silt (SW) 60.0		
58							
60							
62							
64							
66							
68							
70							
72					Greenish gray clayey silt, trace mica (MH) 75.0		
74							
76							
78							
80							
82							



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Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. VBS-04
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 5
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
84							
86						85	
88							
90						90	
92					Greenish gray silty fine to medium Sand, some shells (SP) 95.0		
94							
96						95	
98							
100					Gray silty clay and shells (CL) 102.0	100	
102							
104							
106						105	
108							
110						110	
112							
114							
116					Greenish gray silty fine to medium Sand and shells (SP)	115	
118							
120					120.0	120	
122							
124							
126						125	

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Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. VBS-04
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 5
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

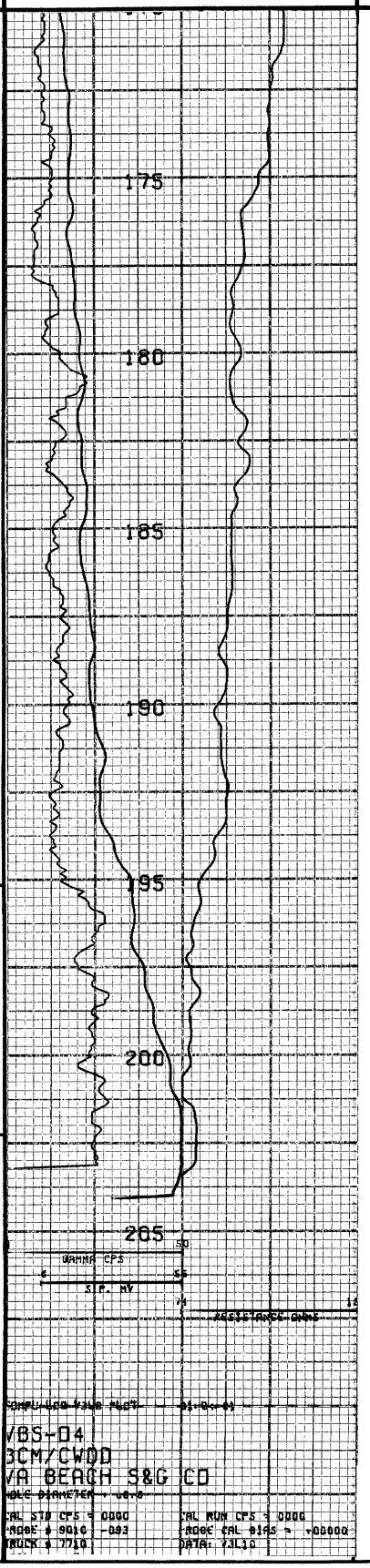
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
128							
130						130	
132							
134							
136						135	
138							
140						140	
142							
144							
146						145	
148							
150					Gray sandy silt, some shells intercalated layers of fine Sand (ML)	150	
152							
154					155.0		
156						155	
158							
160						160	
162							
164							
166						165	
168							
170						170	

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

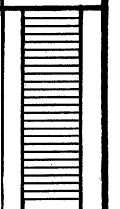
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. VBS-04
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 5 OF 5
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
172					
174					
176					
178					
180					
182					
184					
186					
188					Gray silty fine to medium Sand and shells (SM)
190					
192					
					195.0
194					
196					
198					Some gray clayey silt, little shells (MH)
200					202.0
202					
204					
206					
208					
210					
212					
214					

E - LOG



WELL



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CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
VBS-04	24 JAN 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: VBS-04

AREA: VA BEACH S&G CO.

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	210'	BIT SIZE	8 3/4"
TOTAL DEPTH — LOGGER	205'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	205'	CASING DEPTH	NA
LOGGING SPEED	30 FT/MIN	BOREHOLE FLUID	HOH
REFERENCE LEVEL	GL	FLUID RESISTIVITY	— @ —°F
PROBE NO.	9010-093	SOFTWARE LEVEL	V3L10
TIME IN: 1530		SCALE SELECTION	☒ OPERATOR ☐ CLIENT
TIME OUT: 1400		TP 2 - TK3	

REMARKS:

EQUIPMENT DATA

PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.125" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K-FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K-FACTOR $\times 10^{-5}$		—		
	DEADTIME μsec		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	6" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

CT-112 REV. 2/11/80

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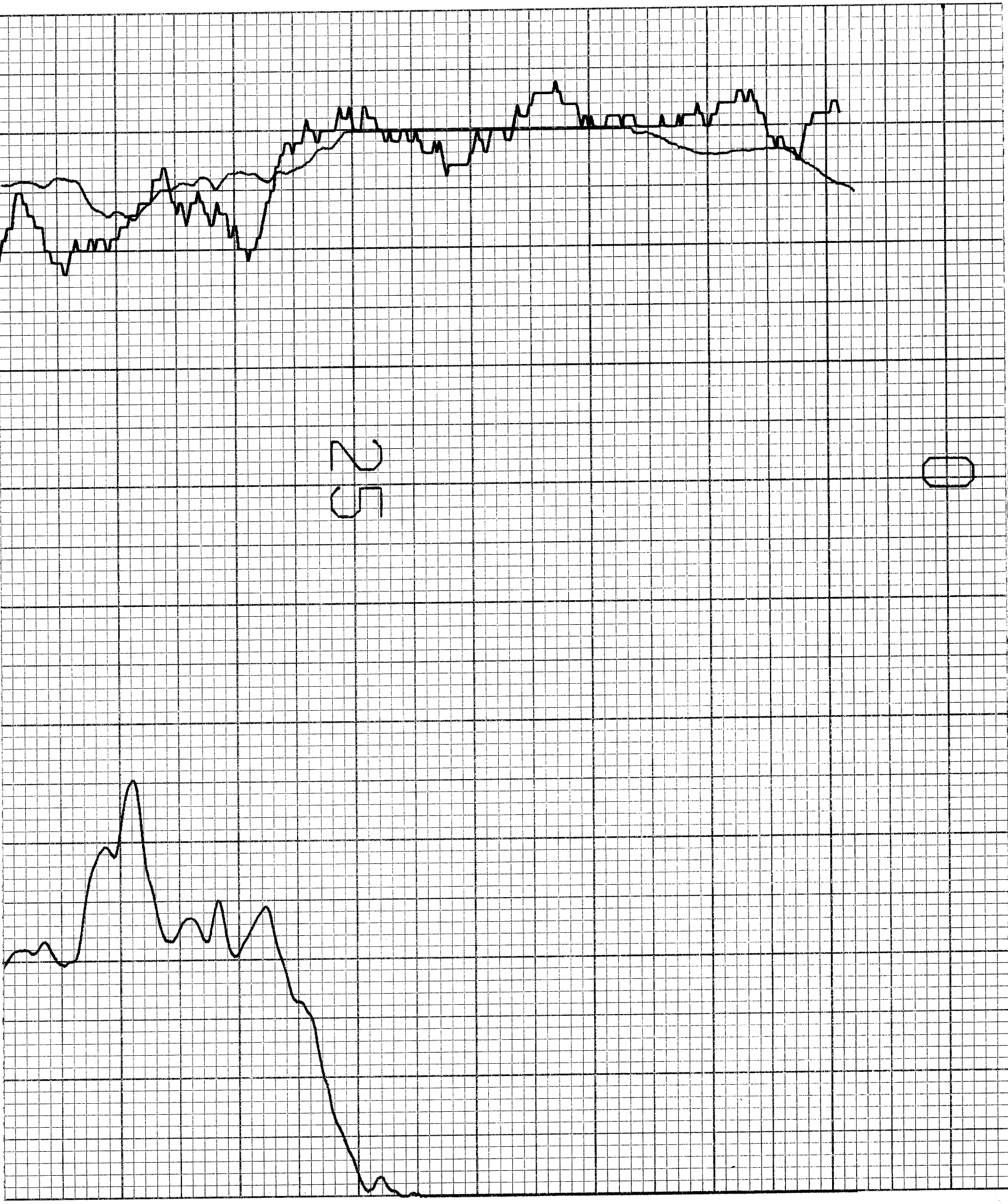

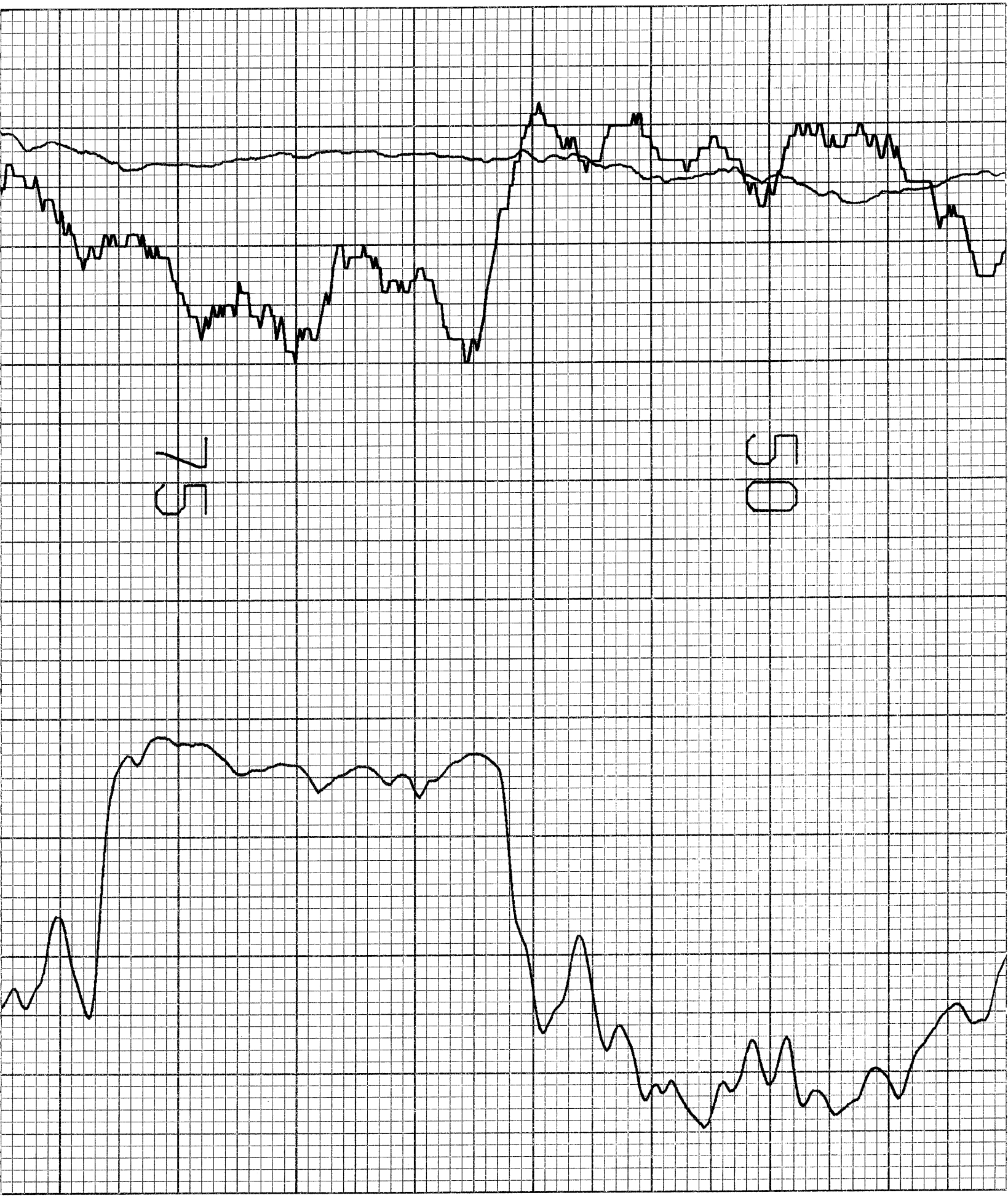

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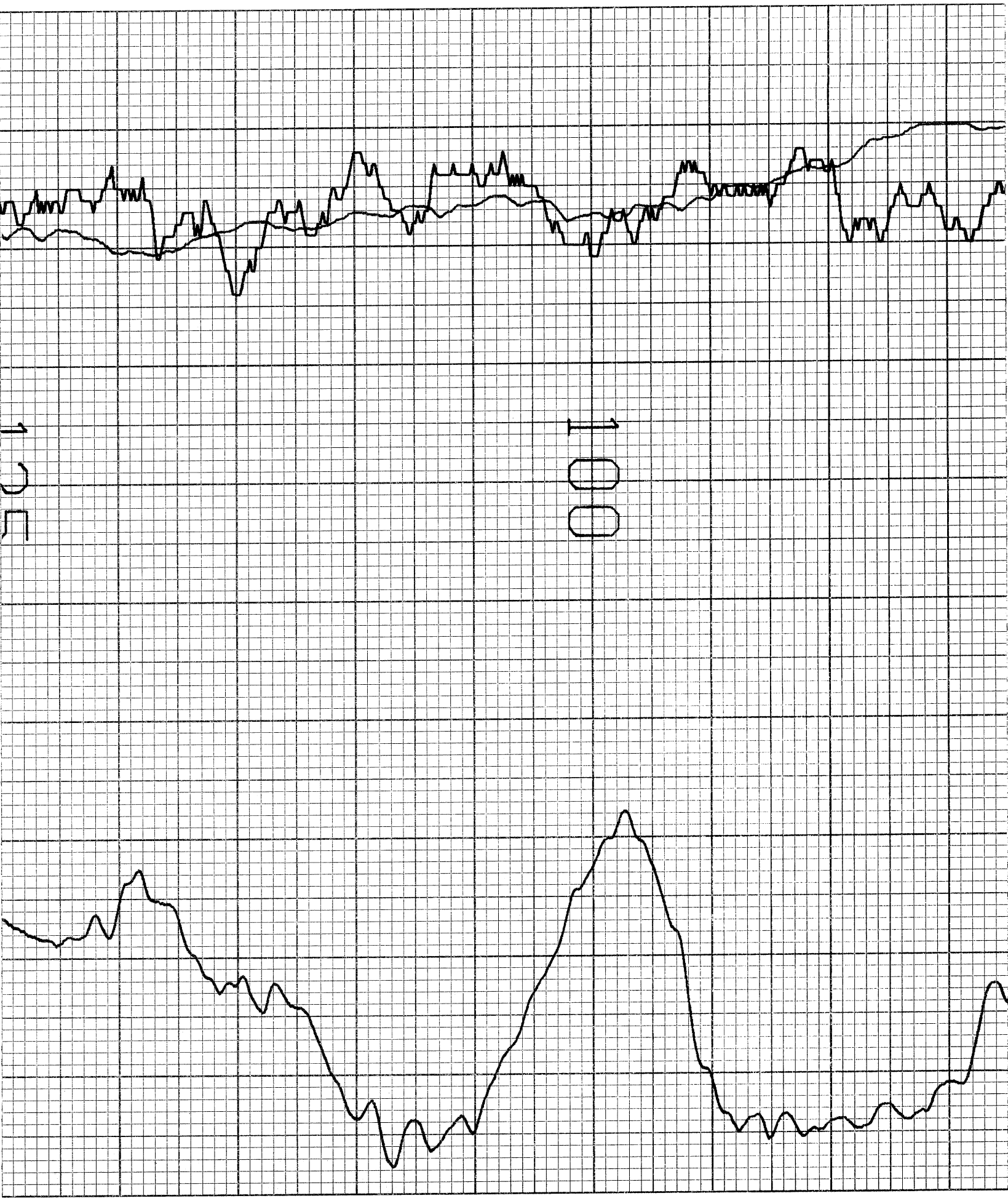

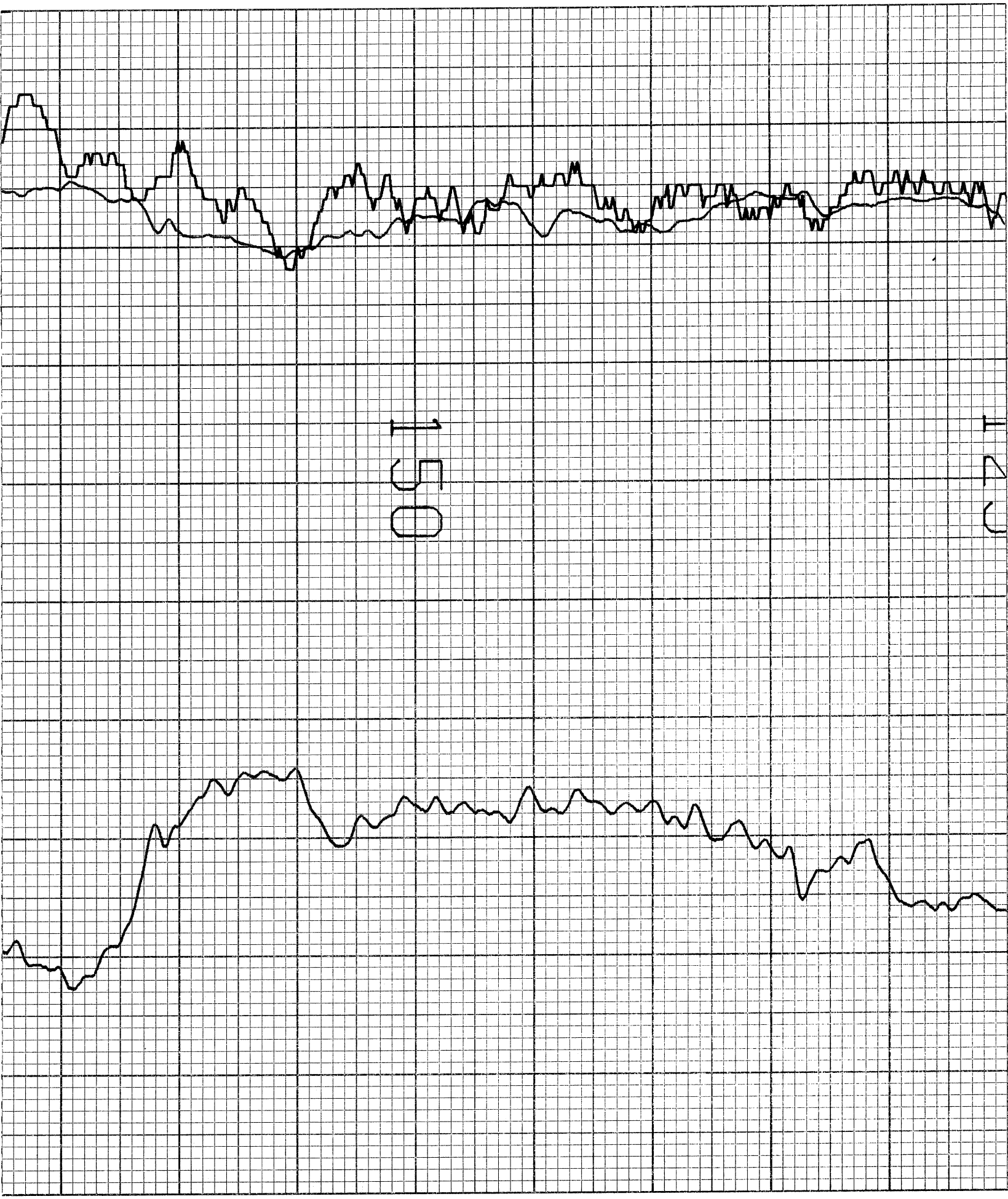

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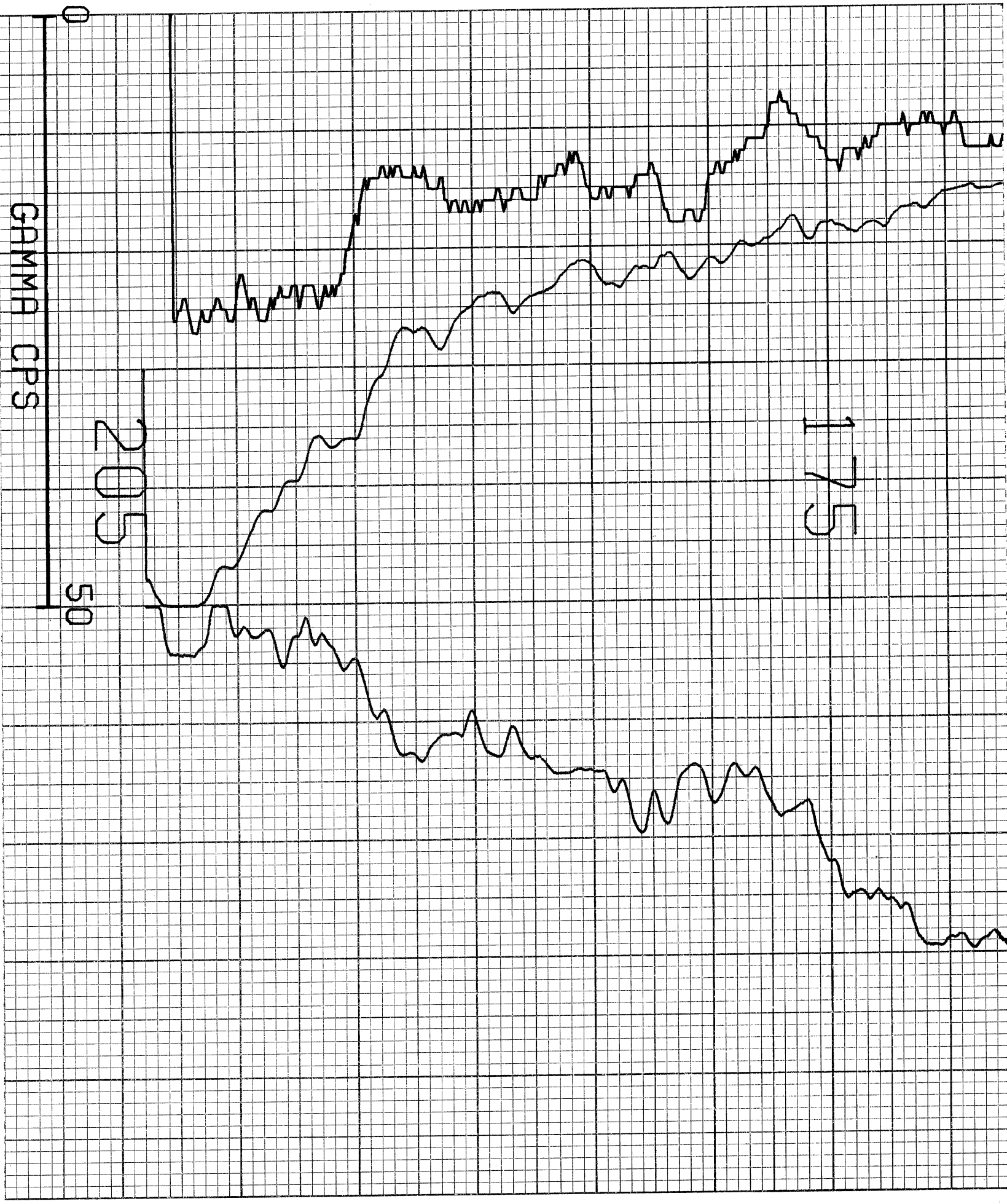

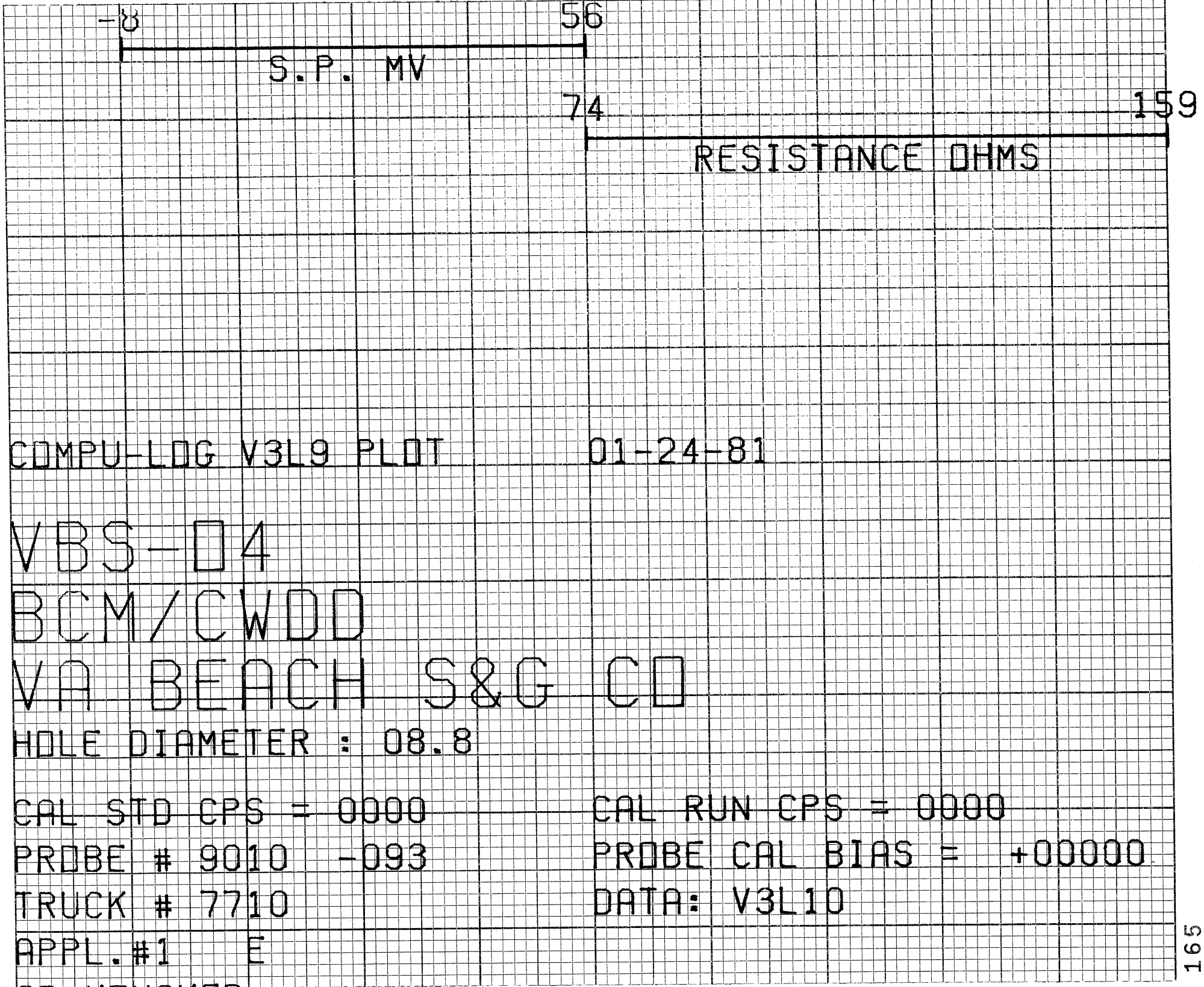

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