Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-02

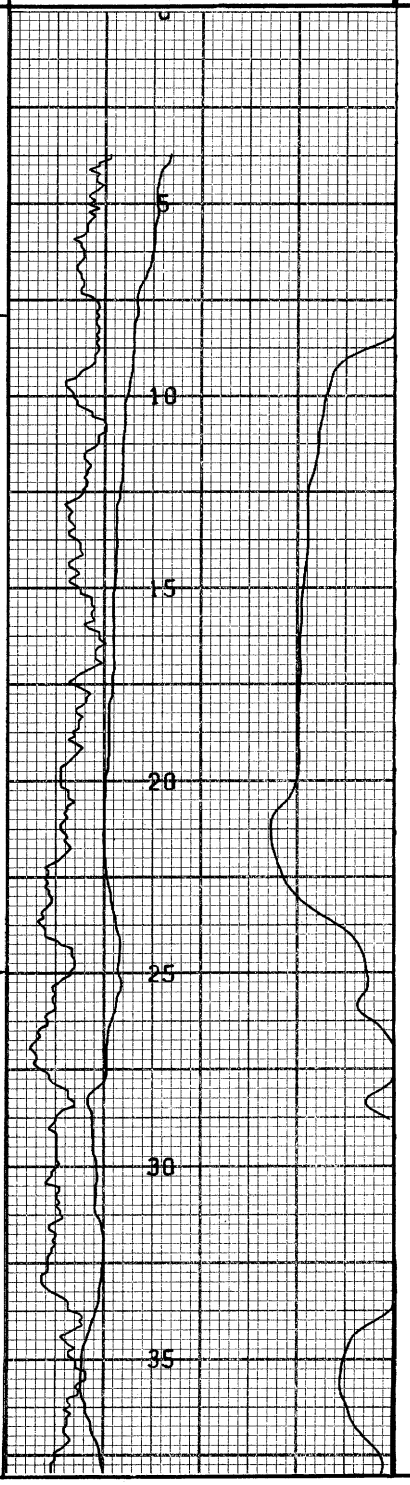
PROJECT	Virginia Beach Groundwater Development Project (Phase I)	SHT. NO. 1 OF 5	
CLIENT	Betz Converse Murdoch, Inc.	PROJ. NO.	80-07203-01
CONTRACTOR	Warren George, Inc.	ELEVATION	6±
GROUND WATER		DATUM	City of V.B.
DATE		DATE START	2/10/81
		DATE FINISH	2/13/81
		DRILLER	E. Tomkins
		CWDD REP.	R. Badone

Boring	CAS.	SAMP.	CORE	TUBE
TYPE	MUD	S.S.		
DIA.		2"		
WT.		140#		
FALL		30"		

TIME	DEPTH	CASING

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
2					Dark yellow silty Clay (CL)
4					
6					
8					8.0'
10					Gray clayey Silt, intercalated layers of fine Sand (ML)
12					
14					
16					
18					
20					
22					
24					25.0'
26					Gray silty fine coarse Sand (SP)
28					
30					
32					
34					
36					
38					

E - LOG



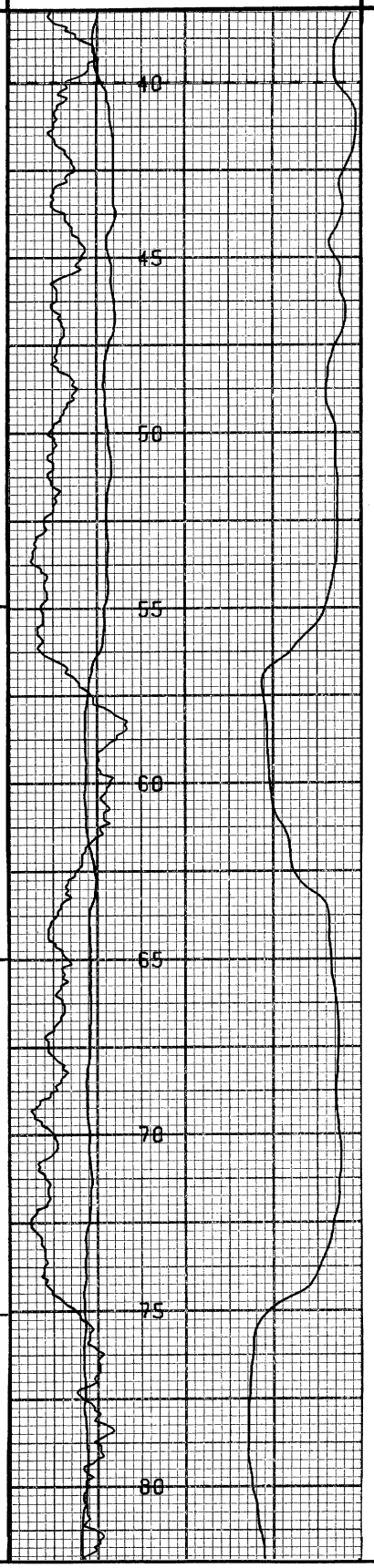
WELL

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. NC-02
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
40					
42					
44					
46					
48					
50					
52					
54					55.0'
56					
58					Dark gray silty fine Sand, trace mica (ML)
60					
62					
64					65.0'
66					
68					Greenish gray silty coarse to fine Sand, trace shells (SP)
70					
72					
74					75.0'
76					
78					
80					
82					

E - LOG



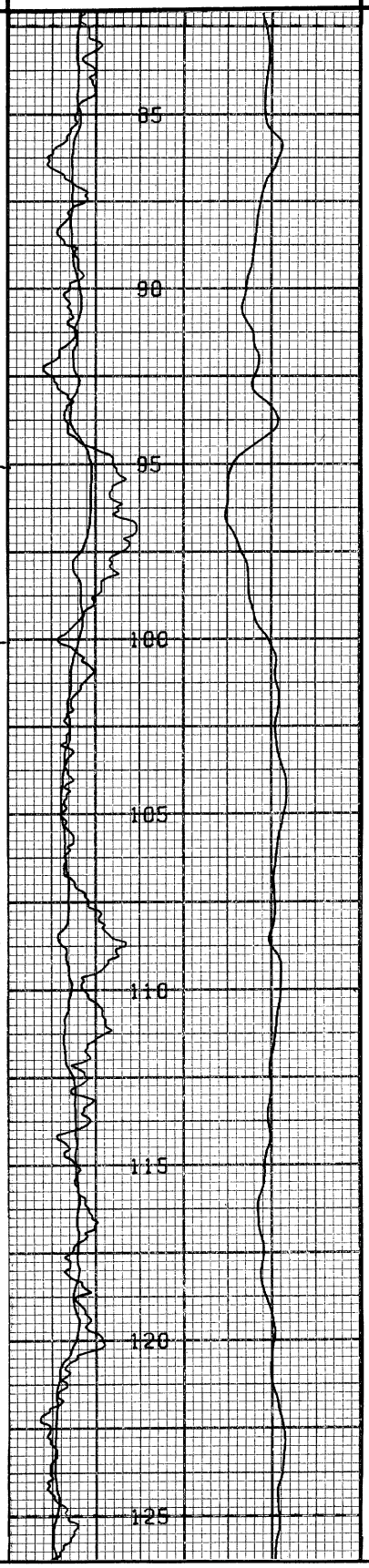
WELL

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

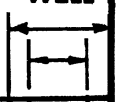
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-02
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 5
CLIENT Betz Converse Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
84					Greenish gray sandy Silt to silty fine Sand downward, trace mica, trace shells (MH)
86					
88					
90					
92					
94					95.0'
96					Gray Clay, some shells (CH)
98					100.0'
100					Dark gray silty fine to coarse Sand, intercalated beds of clayey fine Sand, trace mica, little shells (SC)
102					
104					
106					
108					
110					
112					
114					
116					
118					
120					
122					
124					
126					

E - LOG



WELL



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

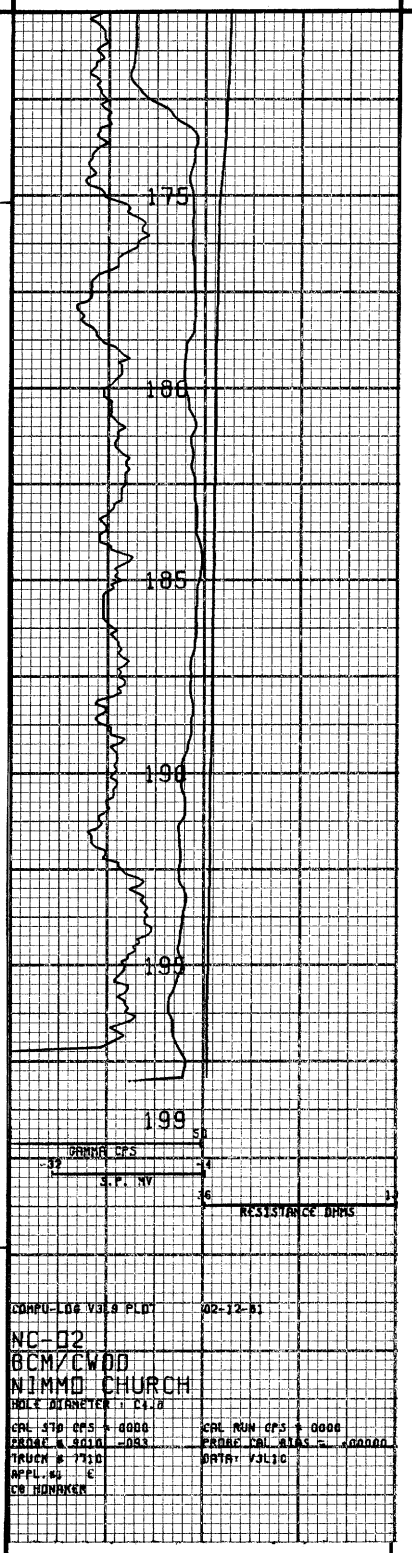
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-02
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 5
CLIENT Betz Converse Murdoch, Inc.		PROJ. NO. 80-07203-01

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					150.0'	150	
152							
154							
156						155	
158							
160					Dark gray sandy Silt, trace mica, intercalated layers of silty Sand (SC)	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. NC-02
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	E - LOG	WELL
172							
174							
					175.0'		
176							
178							
180							
182							
184							
186					Dark gray clayey Silt, trace shells (MH)		
188							
190							
192							
194							
196							
198							
200							
202							
					202.0'		



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CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
NC-02	12 FEB 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: NC-02

AREA: NIMMO CHURCH

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	200'	BIT SIZE	4 3/4"
TOTAL DEPTH — LOGGER	199'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	199'	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: 1606		SCALE SELECTION	☒ OPERATOR ☐ CLIENT
TIME OUT: 1642		TP 9-TK1	

REMARKS: DRILLER DRAINED MUD

EQUIPMENT DATA

		9010	9030	9050/55	9060
	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	—	—

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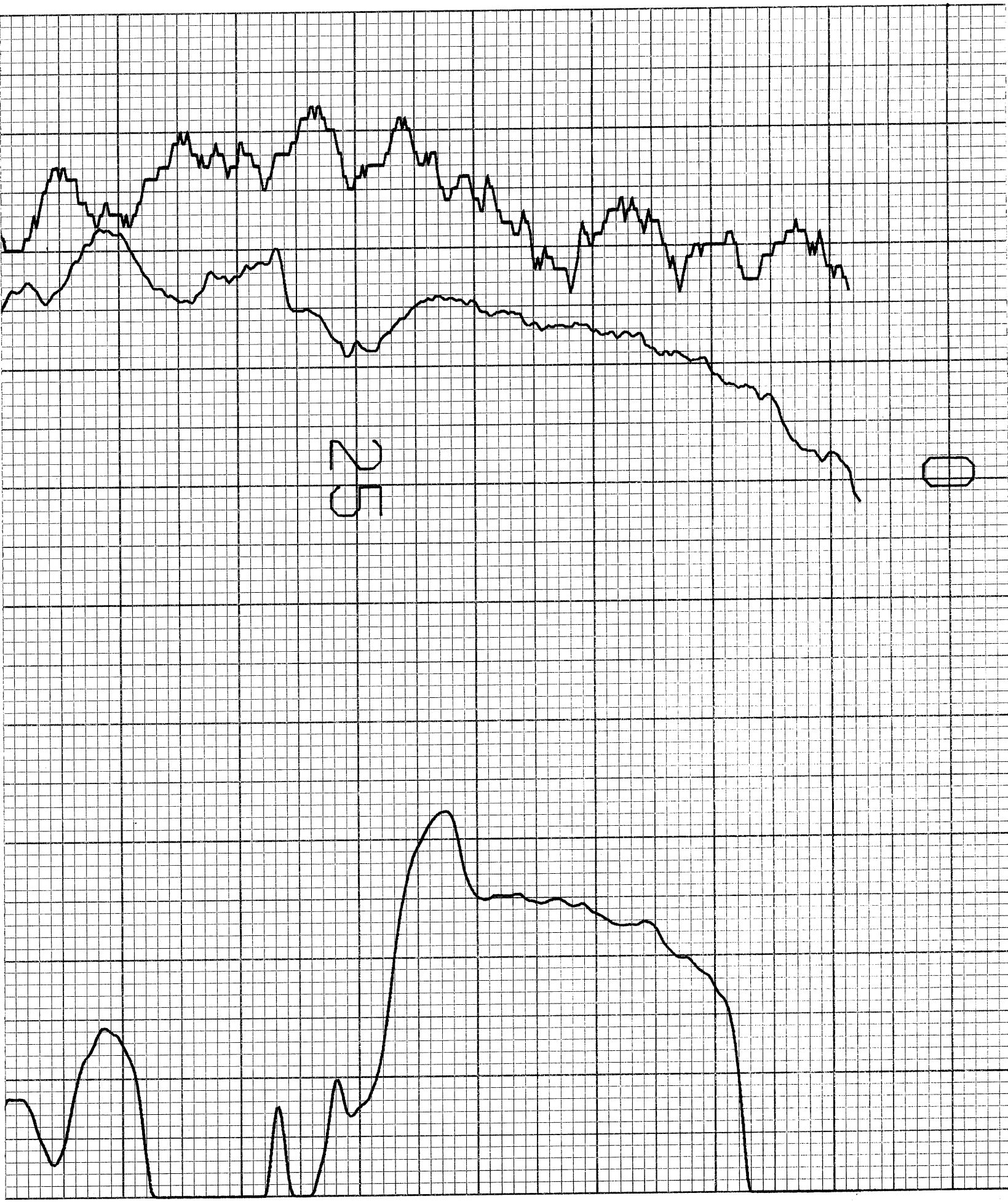

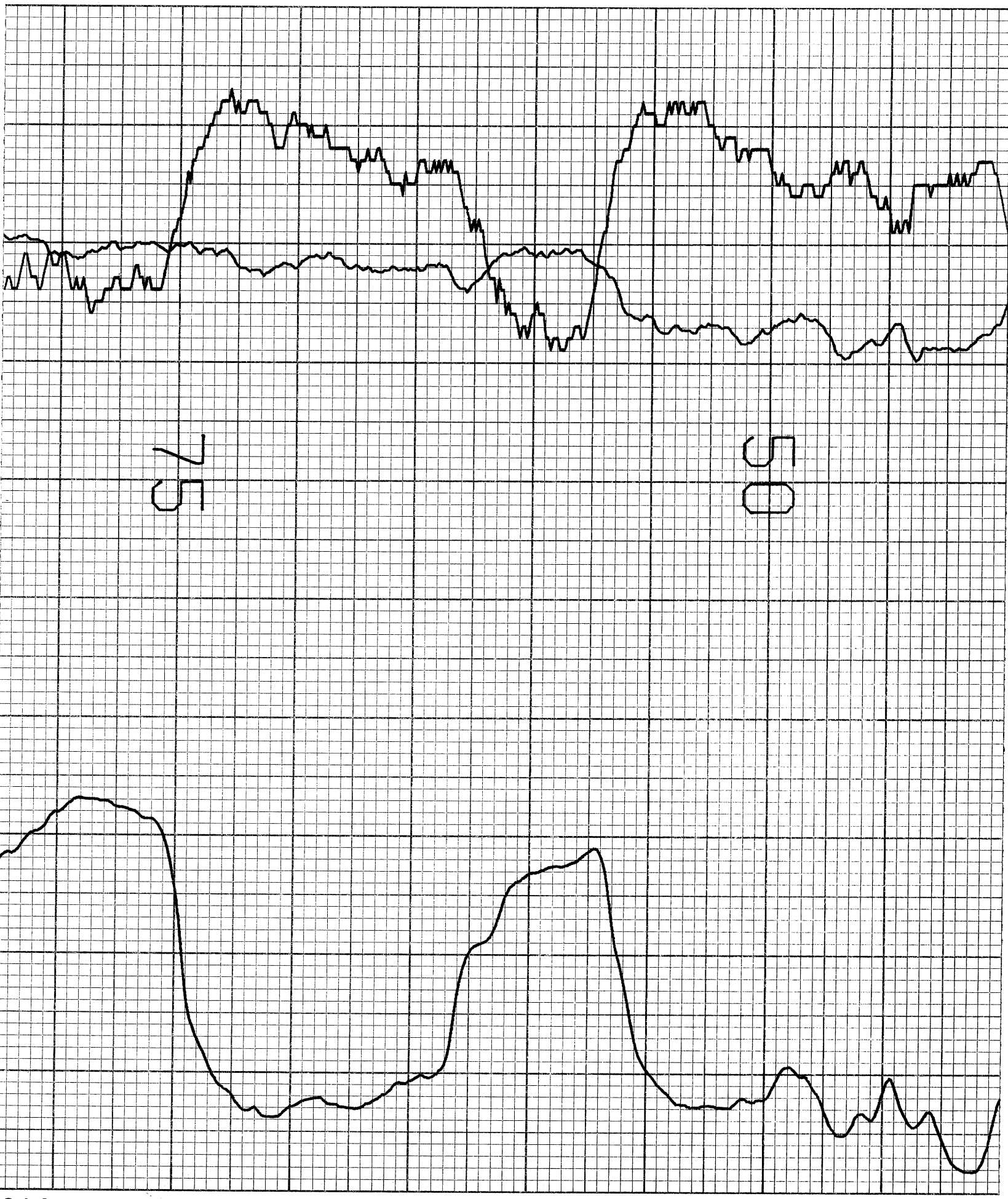

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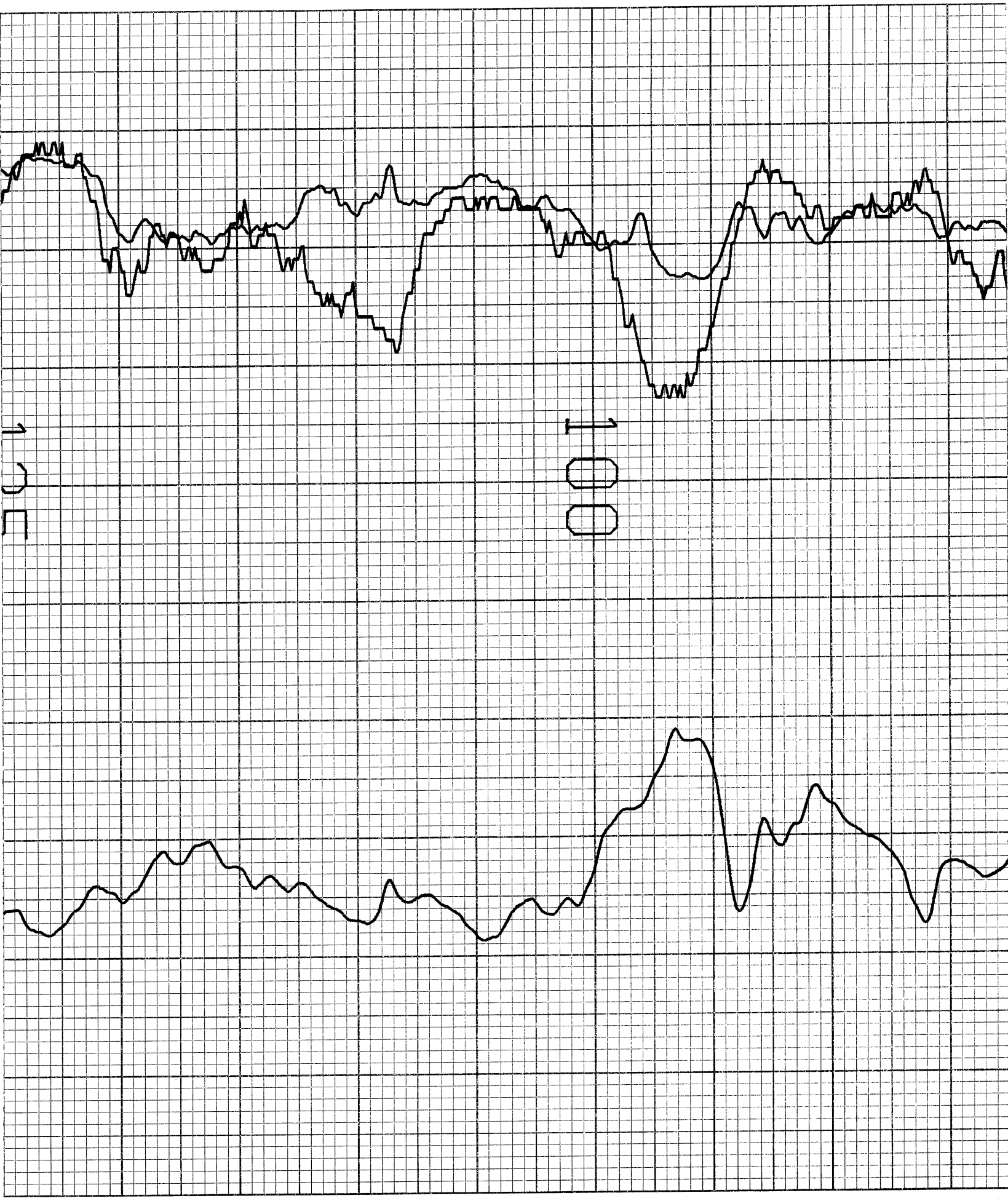

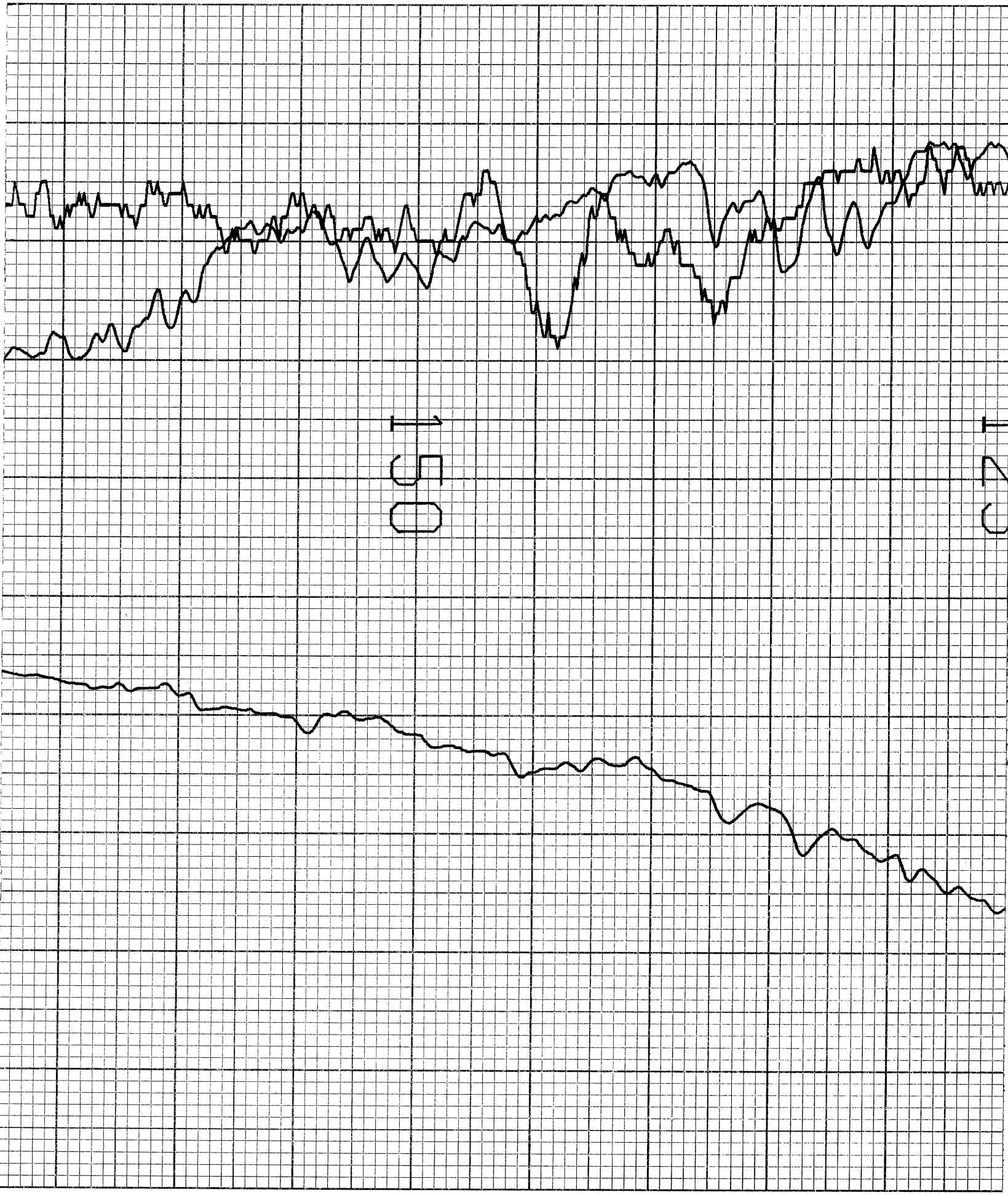

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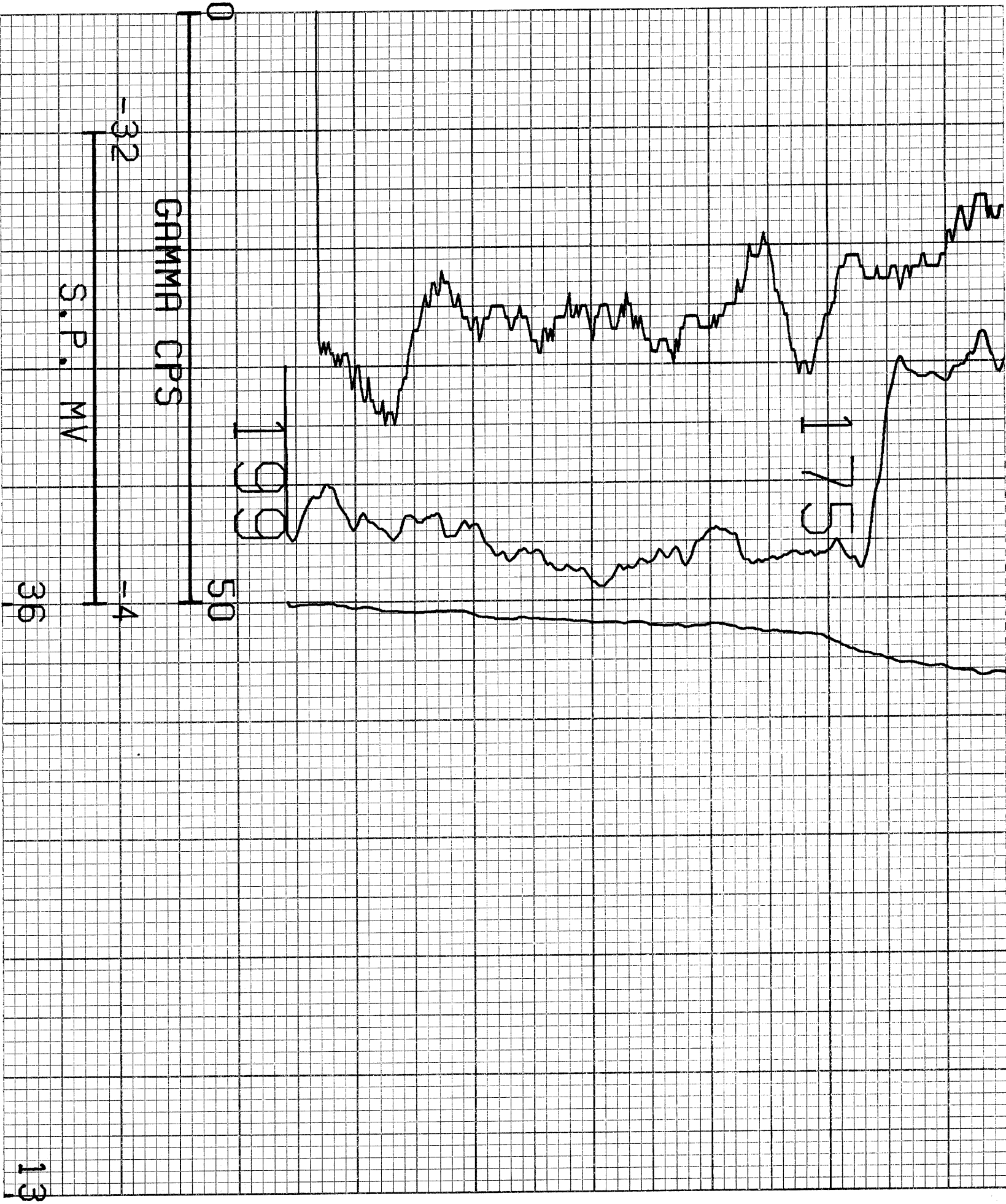

RESISTANCE OHMS

COMPU-LOG V3L9 PLOT 02-12-81

NC-02
BCM/CWDD
NIMMO CHURCH
HOLE DIAMETER : 04.8

CAL STD CPS = 0000 CAL RUN CPS = 0000
PROBE # 9010 -093 PROBE CAL BIAS = +00000
TRUCK # 7710 DATA: V3L10
APPL. #1 D
CB HONAKER

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