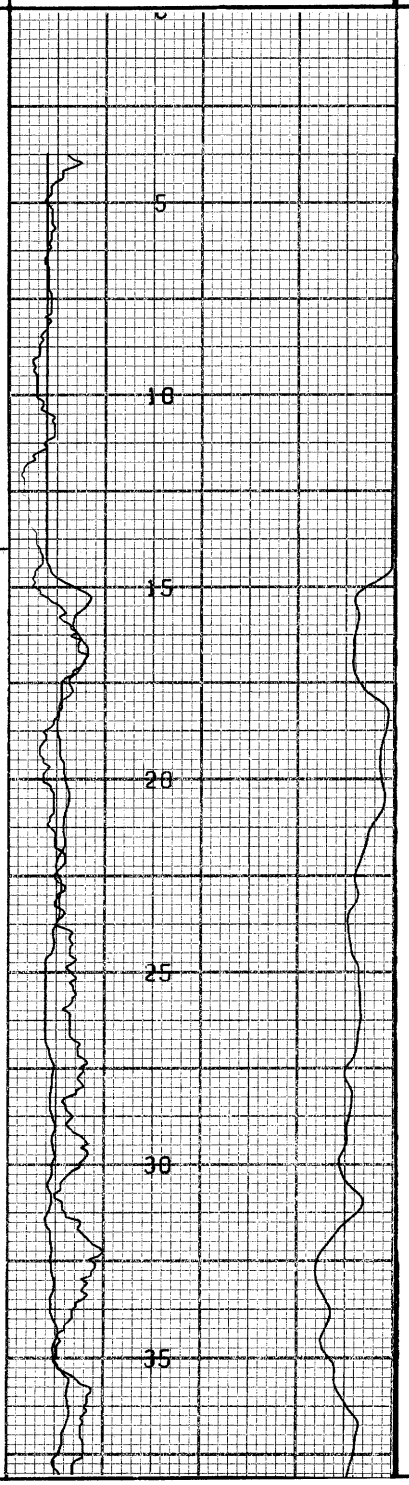
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-03

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 6±	
DATUM	City of V.B.		
DATE START	2/10/81		
DATE FINISH	2/11/81		
DRILLER	J. Kramer		
CWDD REP.	R. Landle		

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

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
2					
4					
6					Dark brown sandy Clay, little roots (CL)
8					
10					
12					
14					14.0'
16					
18					
20					
22					
24					Grayish yellow to gray silty fine to medium Sand, intercalated layers of sandy Silt and sandy Clay (SP)
26					
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-03
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 2 OF 5
CLIENT Betz Converse Murdoch, Inc.		PROJ. NO. 80-07203-01

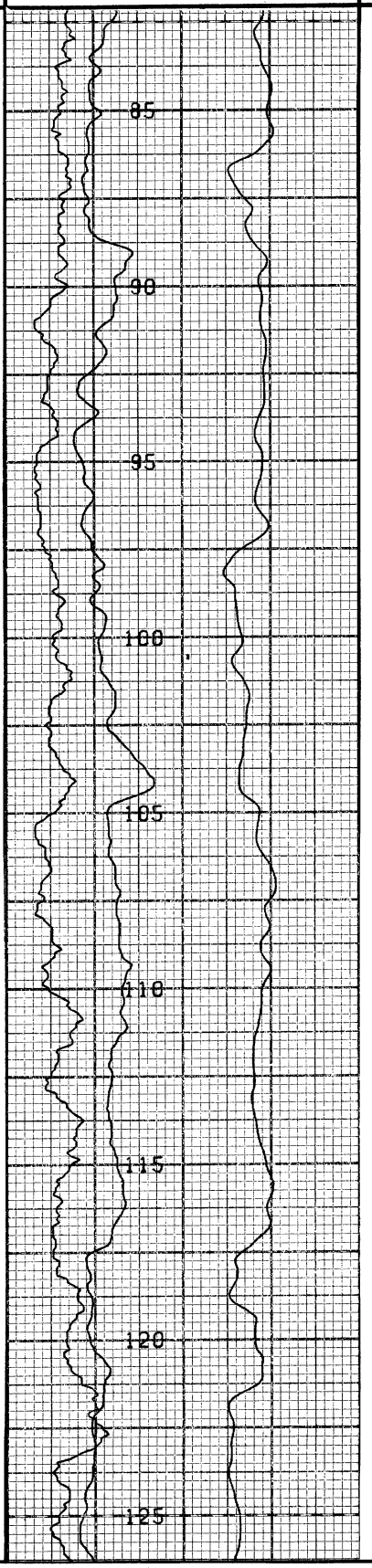
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
40						40	
42							
44							
46						45	
					47.0'		
48							
50					Bluish gray clayey Silt, intercalated layers of silty Sand, little shells (MH)	50	
52							
54							
56						55	
58					58.0'		
60					Light gray coarse to medium Sand, silty downward (SP)	60	
62							
64							
					65.0'		
66					Grayish green sandy Clay (CL)	65	
68							
70					70.0'	70	
72							
74							
76						75	
78							
80						80	
82							

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

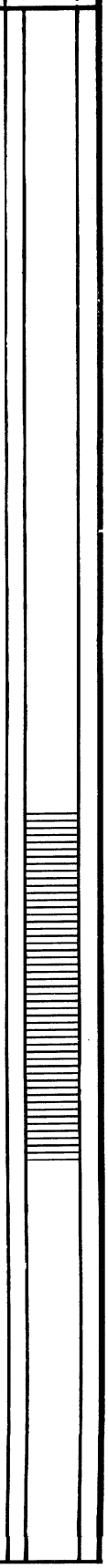
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-03
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 5
CLIENT Betz Converse Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
84					
86					
88					
90					
92					
94					
96					
98					
100					Dark gray to grayish green silty fine to medium Sand, intercalated layers of sandy Silt, little shells (SM)
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.

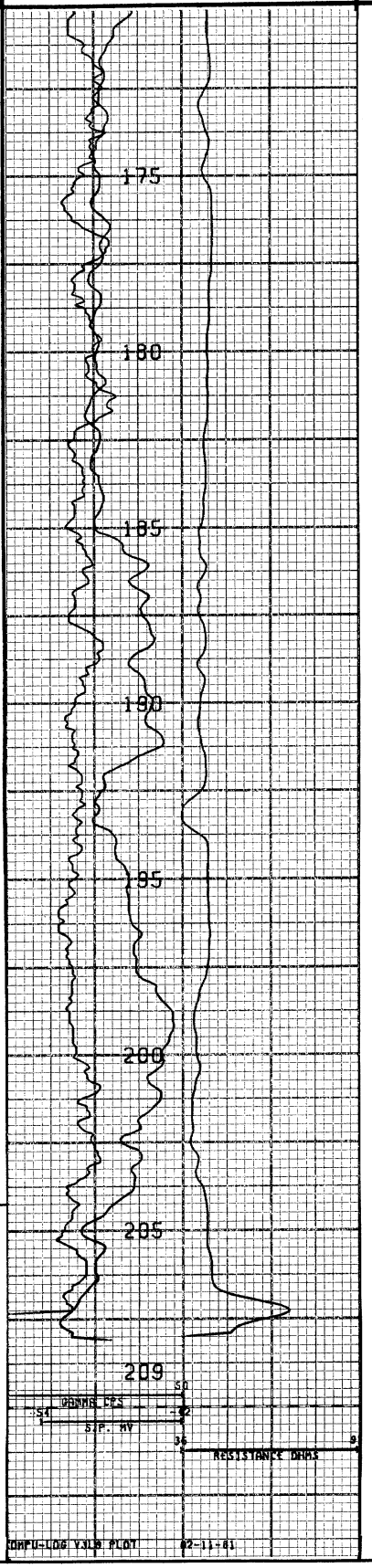
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. NC-03
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 5
CLIENT Betz Converse Murdoch, Inc.		PROJ. NO. 80-07203-01

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					140.0'	140	
142							
144							
146						145	
148							
150						150	
152					Grayish green sandy Silt, intercalated layers of fine Sand, trace mica, little shells (ML)		
154						155	
156							
158							
160						160	
162							
164						165	
166							
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-03
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							
176							
178							
180							
182							
184							
186							
188							
190							
192							
194							
196							
198							
200							
202							
204					204.0'		



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CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
NC-03	11 FEB 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: NC-03

AREA: NIMMO CHURCH

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	210'	BIT SIZE	8 3/4"
TOTAL DEPTH — LOGGER	209'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	209'	CASING DEPTH	NA
LOGGING SPEED	30 FT/MIN	BOREHOLE FLUID	HOH
REFERENCE LEVEL	GL	FLUID RESISTIVITY	— @ —°F
PROBE NO.	9010-093	SOFTWARE LEVEL	V3L10
		SCALE SELECTION	☒ OPERATOR ☐ CLIENT

REMARKS:

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	—	—

CT-112 REV. 2/11/80

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

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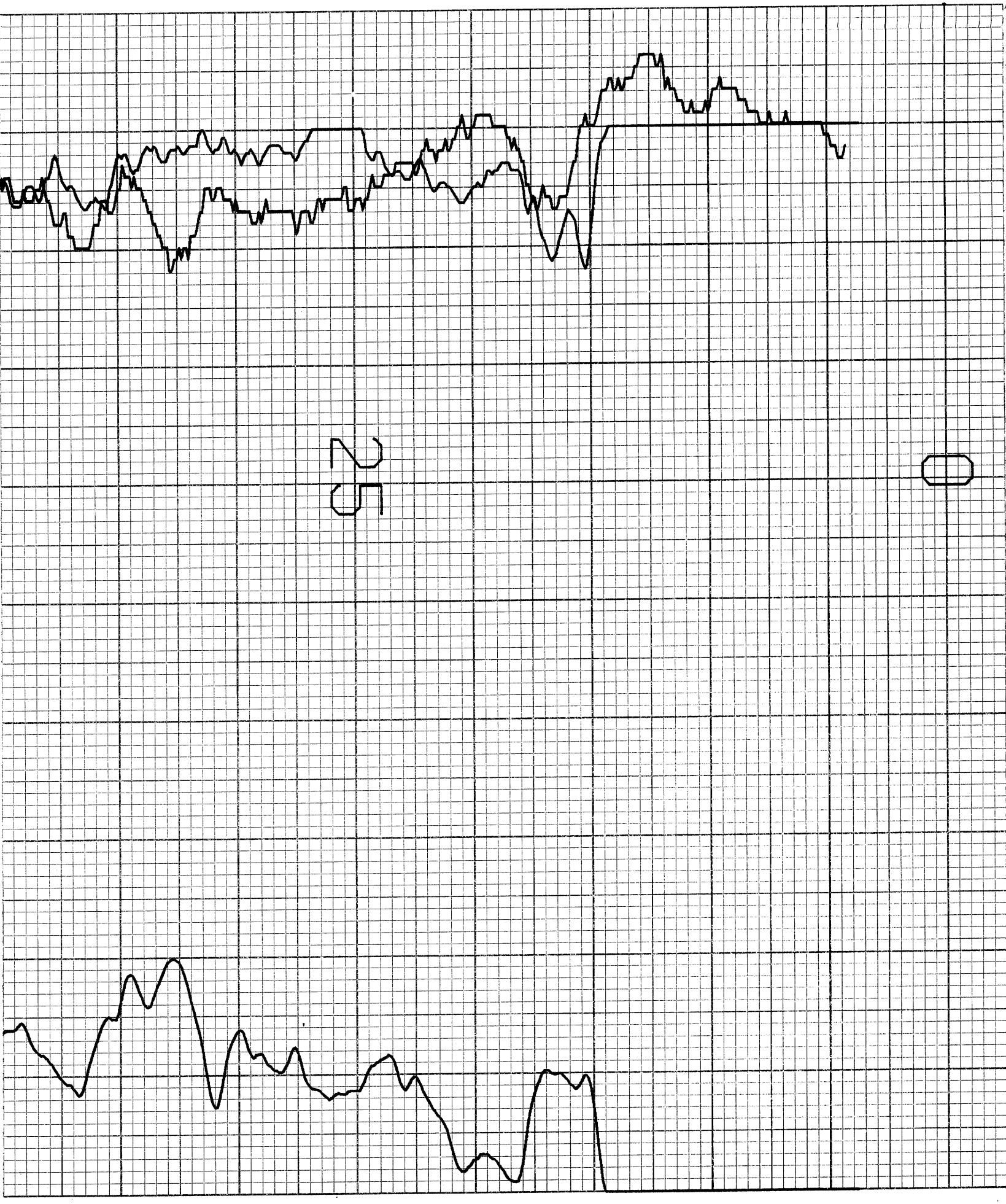

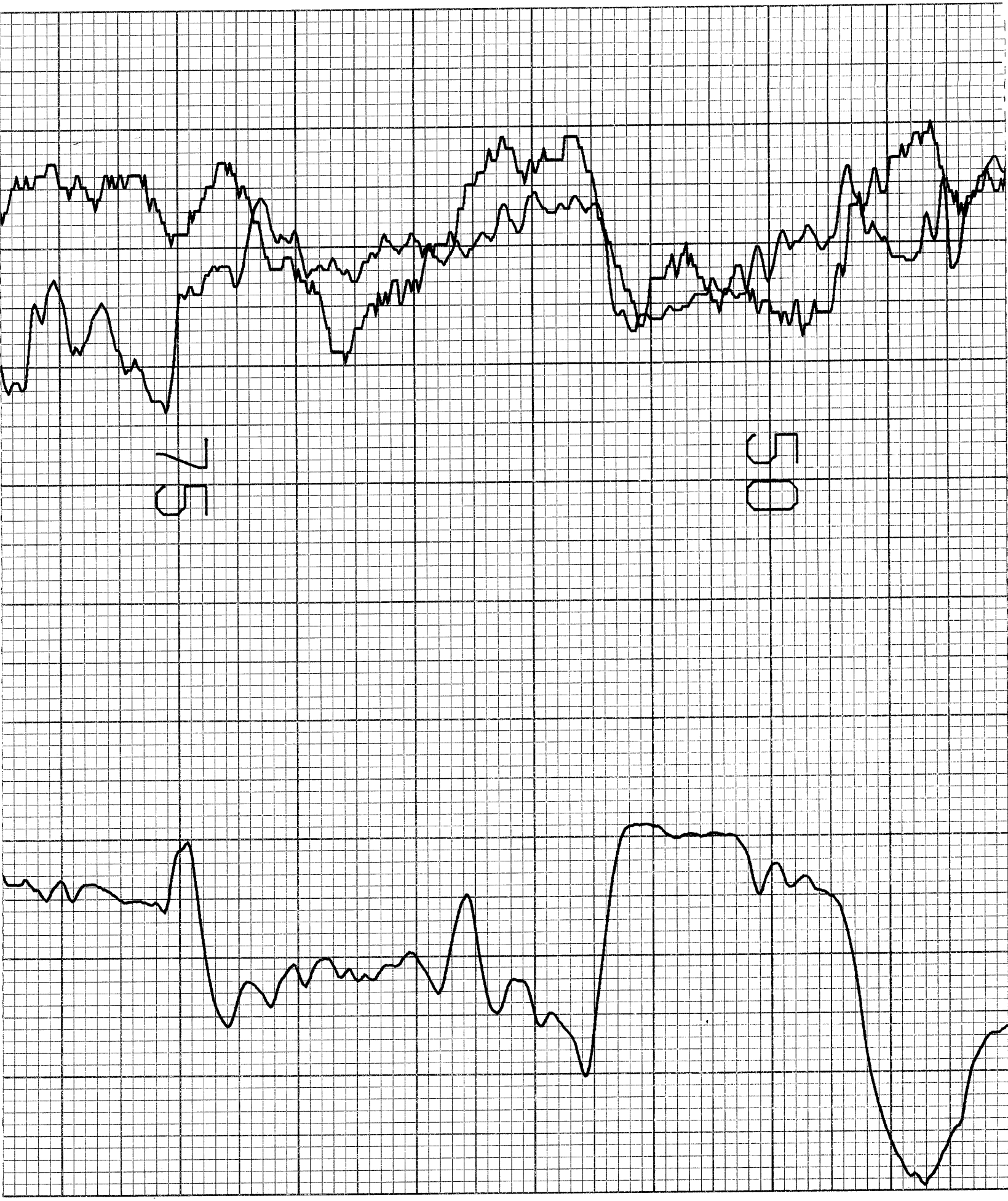

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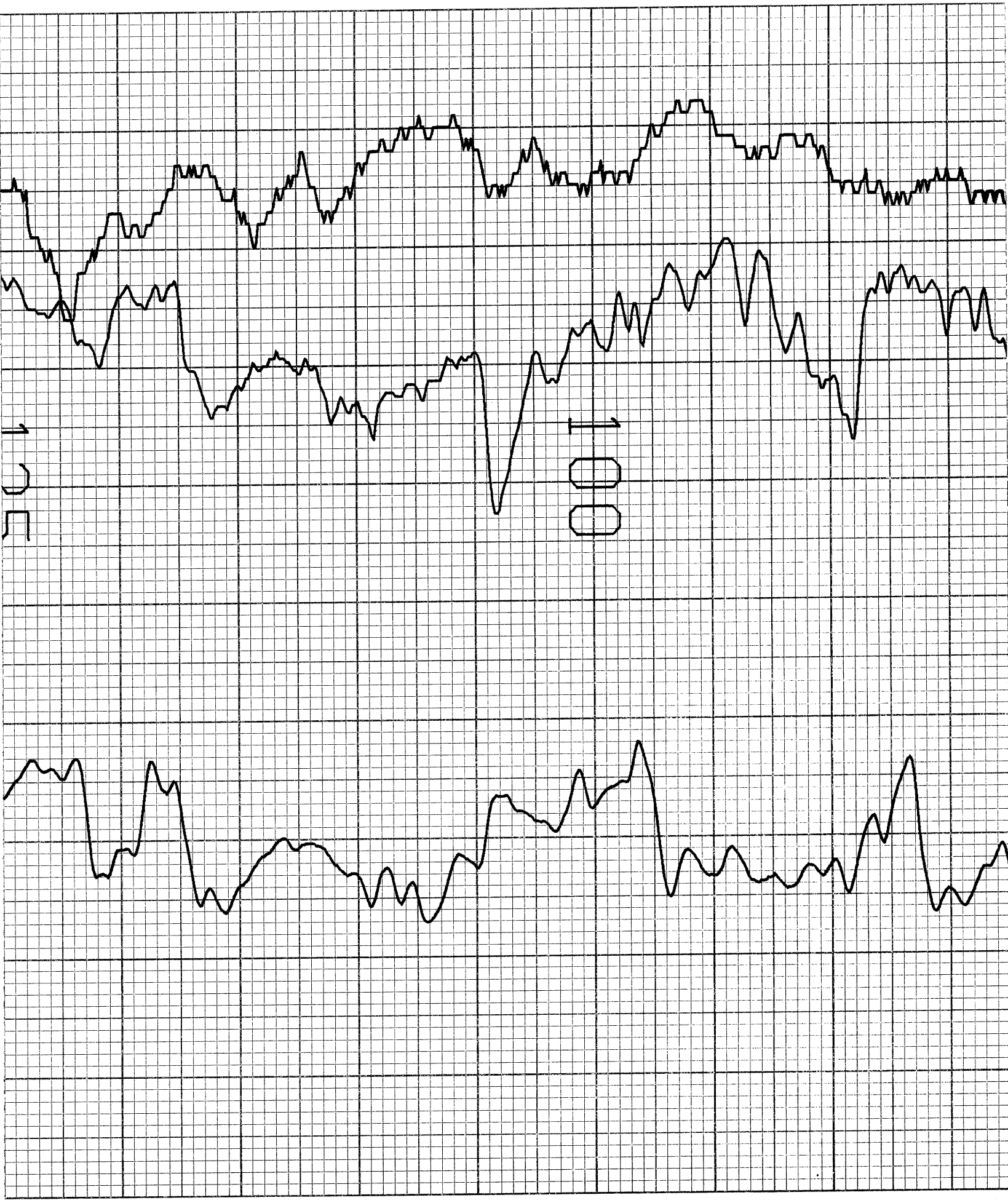

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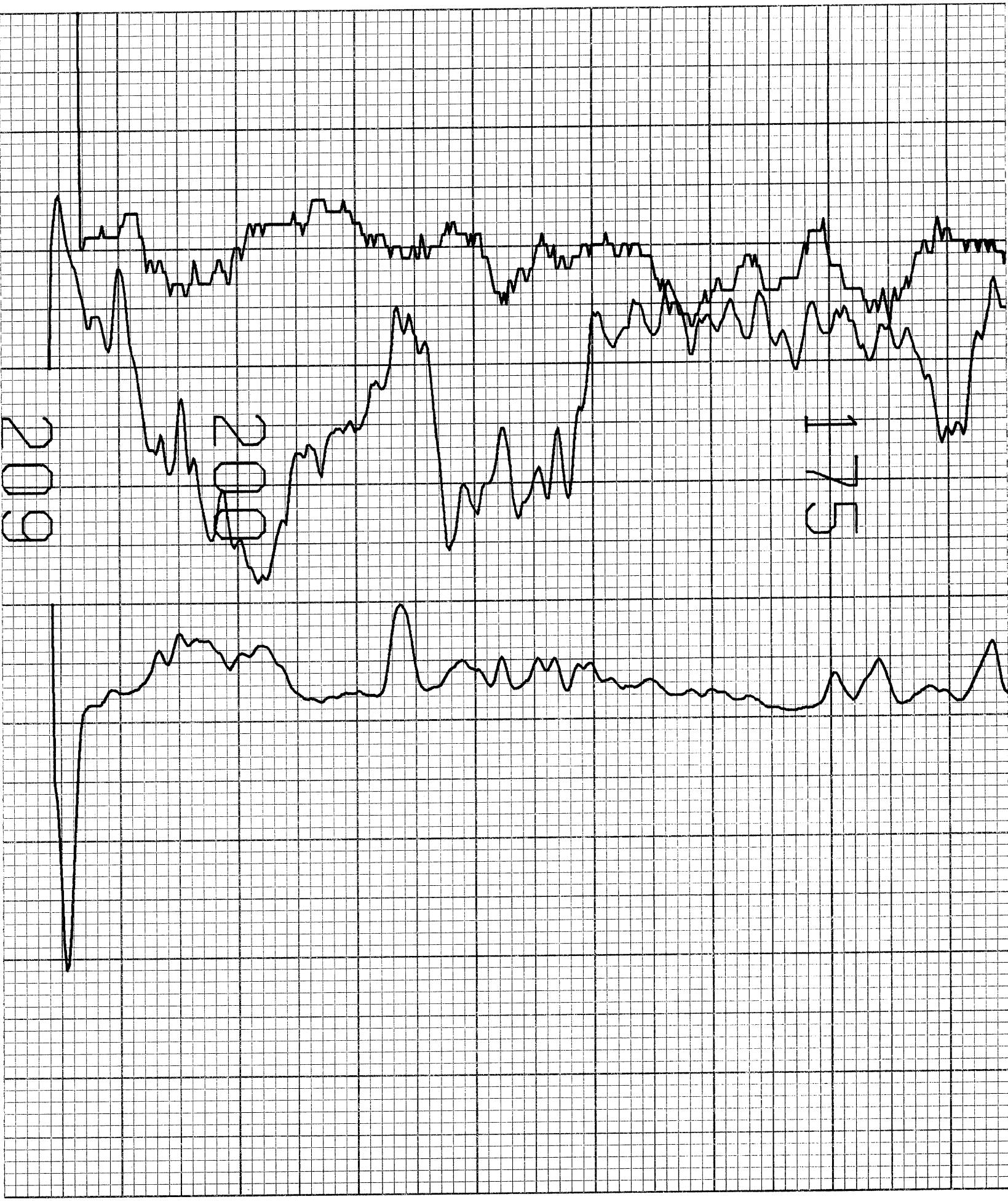

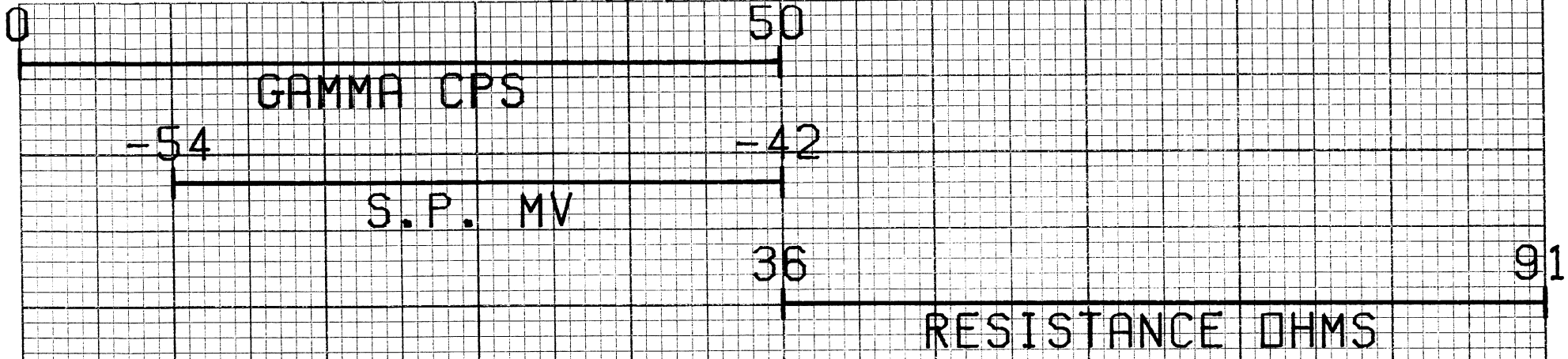

COMPU-LOG V3L9 PLOT 02-11-81

NC-03
BCM/CWDD
NIMMO CHURCH
HOLE DIAMETER : 08.8

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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