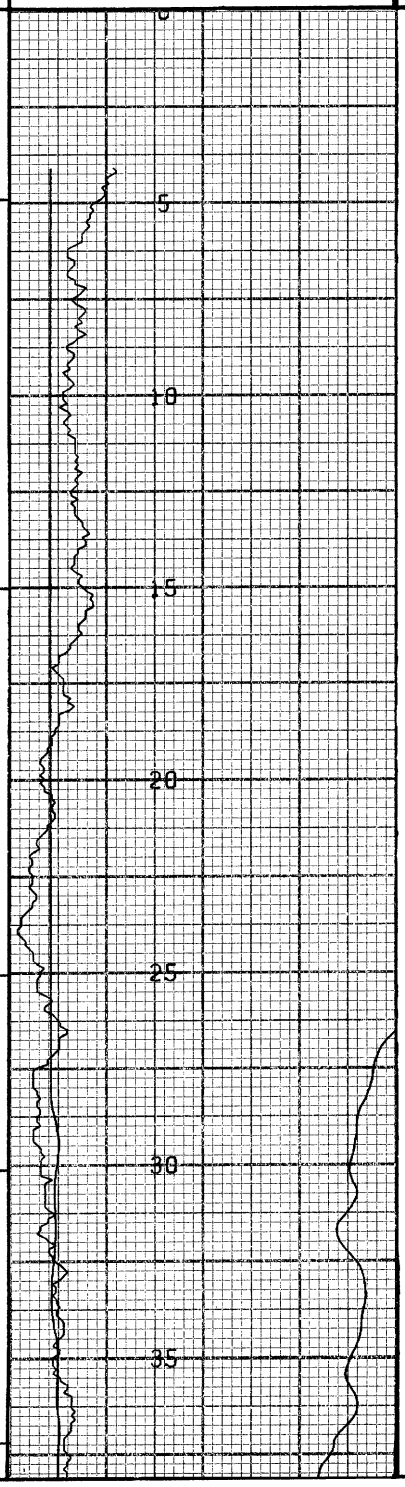
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. CM-02

PROJECT	Virginia Beach Groundwater Development Project (Phase I)	SHT. NO. 1 OF 4
CLIENT	Betz, Converse, Murdoch, Inc.	PROJ. NO. 80-07203-01
CONTRACTOR	A. C. Shultes and Sons, Inc.	ELEVATION 13.1
		DATUM City of V.B.
		DATE START 3/17/81
		DATE FINISH 3/18/81
		DRILLER J. Kramer
		CWDD REP. Robt. Landle

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

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
2							
4					Brown silty fine Sand (SM) 5.0		
6							
8							
10							
12							
14					Gray silty medium to fine Sand (SP) 15.0		
16							
18							
20							
22							
24					Light gray coarse to find Sand (SW) 25.0		
26							
28					Light gray silty coarse to fine Sand (SM) 30.0		
30							
32							
34					Light gray clayey coarse to find Sand (SC) 37.0		
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. CM-02
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 2 OF 4
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					Light gray silty coarse to fine Sand (SM) 40.0	40	
42					Greenish gray clayey silt (MH) 44.0		
44							
46						45	
48							
50						50	
52					Greenish gray clayey Sand, little shells (SC) 55.0		
54					Greenish gray clayey silt (CH) 56.0	55	
56							
58							
60						60	
62					Light gray coarse to medium Sand, trace shells (SW) 63.0		
64						65	
66							
68							
70						70	
72							
74					Grayish green sandy silt, trace mica (ML) 75.0	75	
76							
78					Greenish gray silty fine to medium Sand, little shells (SP) 80.0		
80						80	
82							

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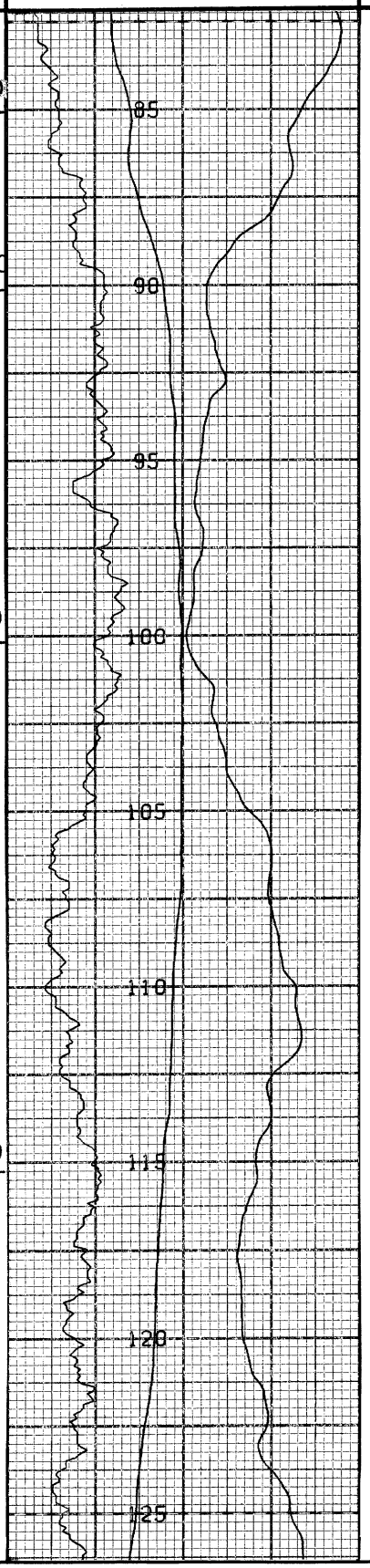
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. CM-02
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 4
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
84					Greenish gray coarse to fine Sand, little shells (SW) 85.0		
86							
88					Greenish gray silty coarse to fine Sand and shells (SM) 90.0		
90							
92							
94							
96							
98					Greenish gray silt, trace mica (ML) 100.0		
100							
102							
104							
106							
108							
110							
112							
114					Greenish gray to green silty medium to fine Sand, some shells, (SM) 115.0		
116					intercalated layers of clayey Sand (SM)		
118							
120							
122							
124							
126							



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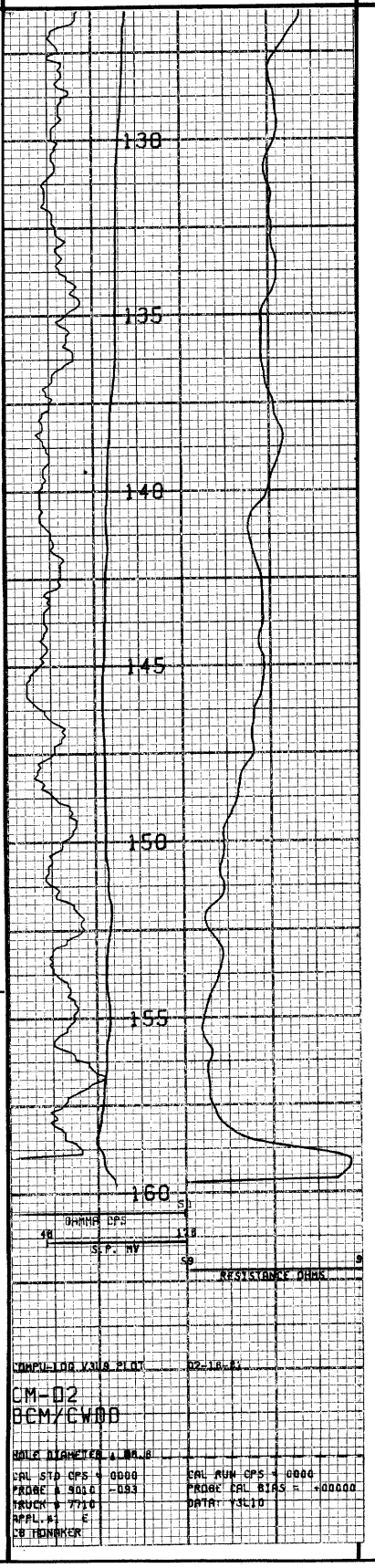
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. CM-02
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 4
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150					Greenish gray to green silty medium to fine Sand, some shells (SM) intercalated layers of clayey Sand (SM)		
152							
154					154.0		
156							
158							
160							
162							
164							
166							
168							
170							



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CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
CM-02	18 FEB 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: CM/02

AREA:

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	160'	BIT SIZE	8 3/4"
TOTAL DEPTH — LOGGER	160'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	160'	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: 0624		SCALE SELECTION	☒ OPERATOR ☐ CLIENT
TIME OUT: 0654		TD 8-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	—	—	

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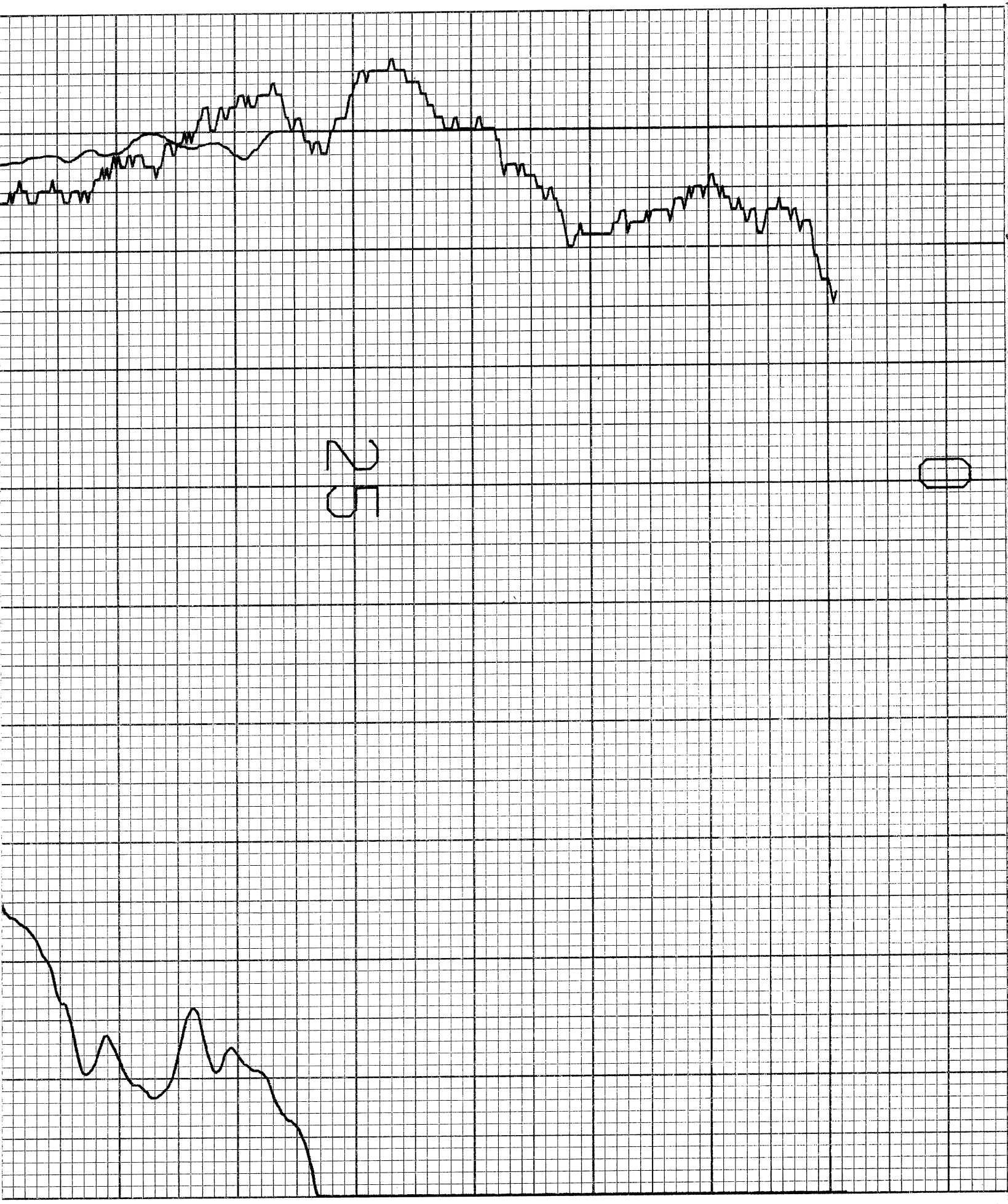

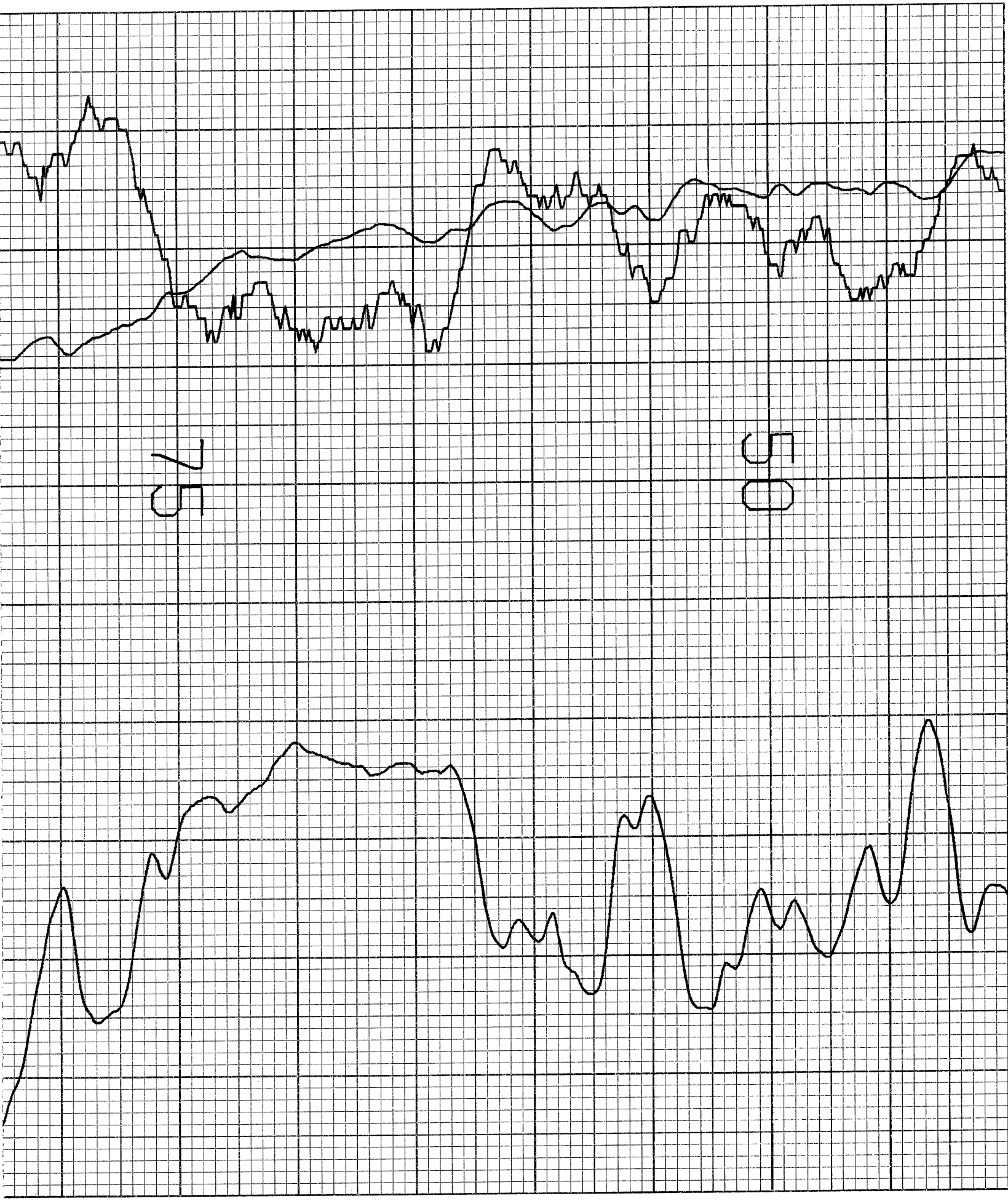

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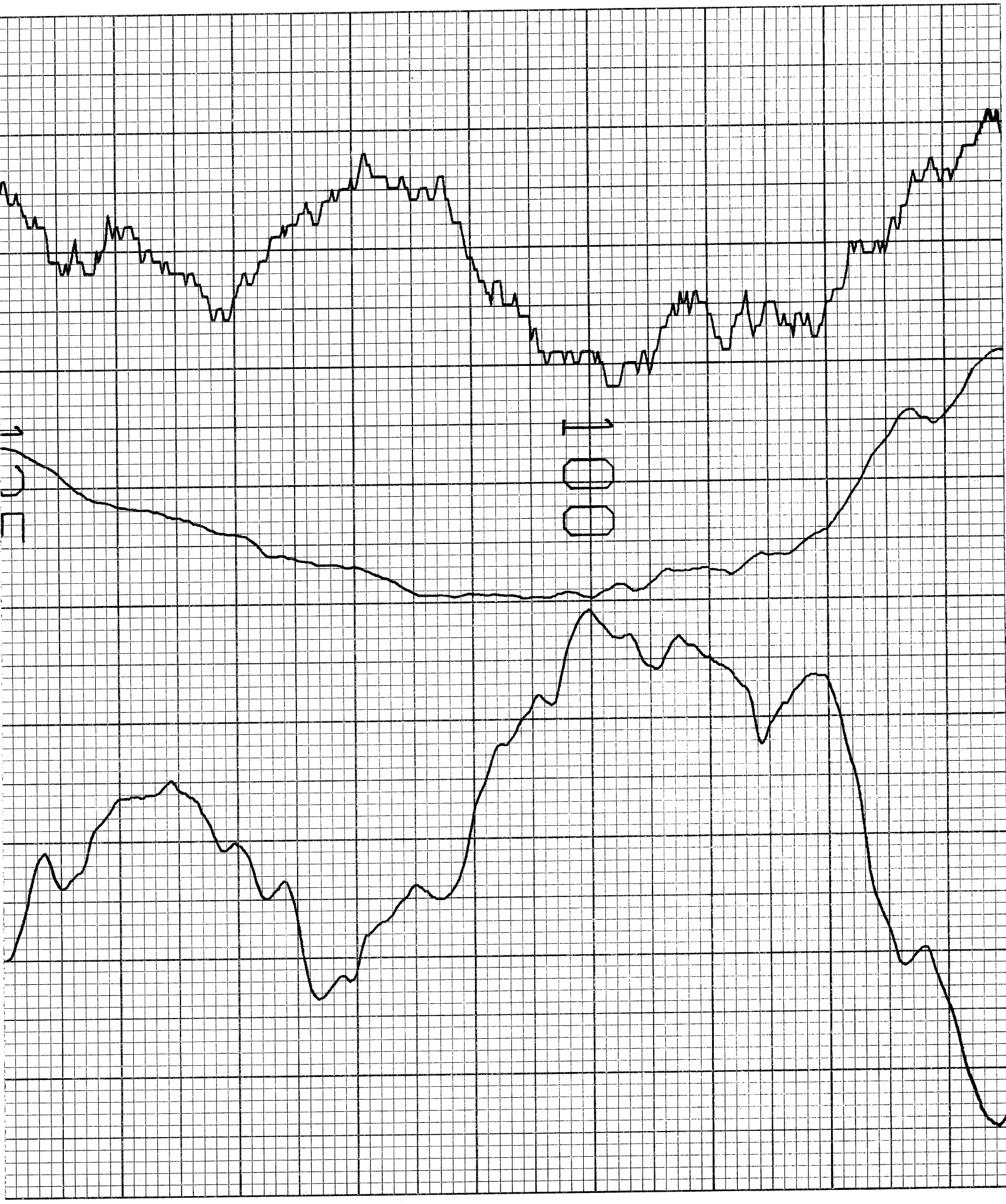

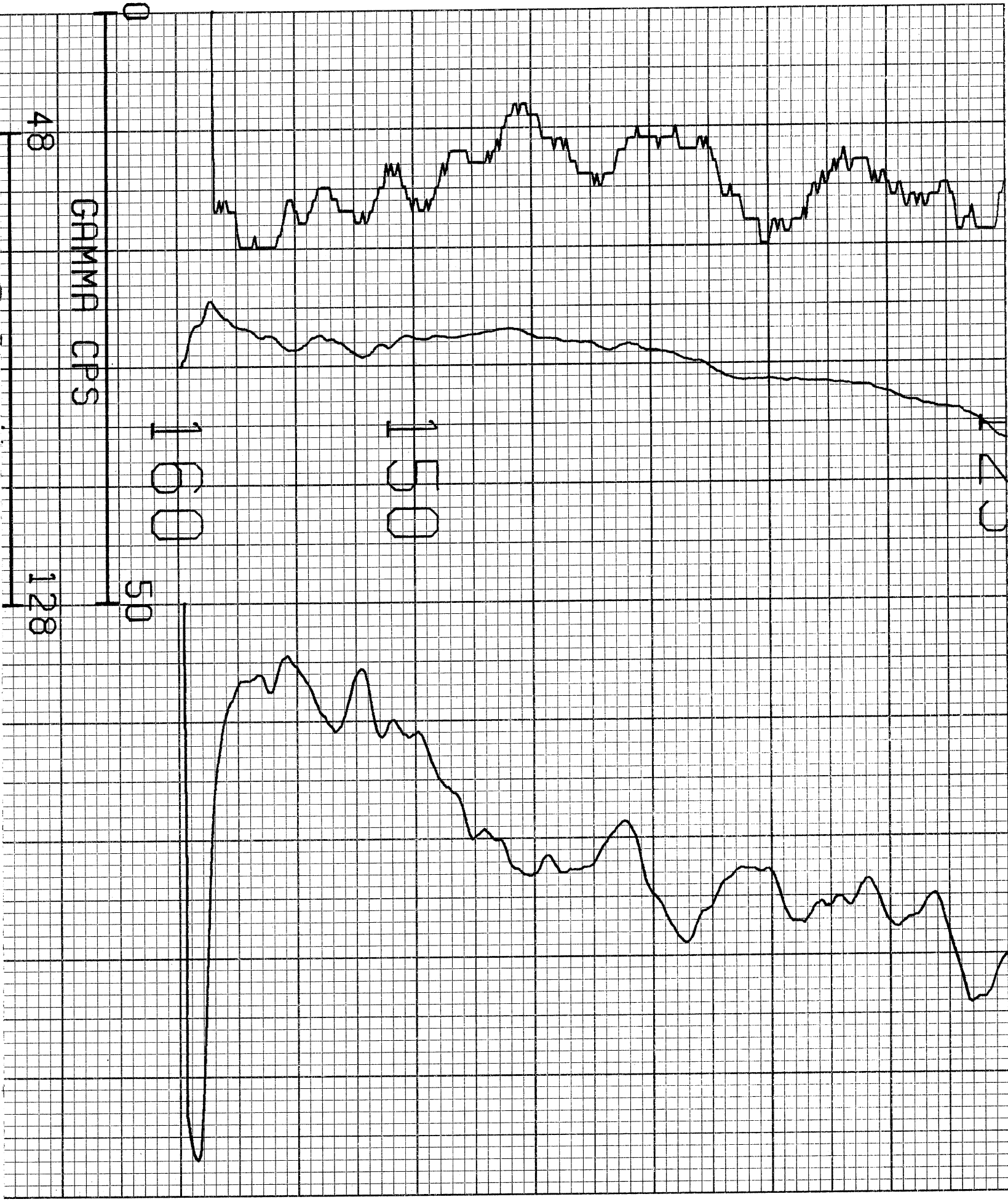
0
48
GAMMA CPS
128
50

S.P. MV

59 99

RESISTANCE OHMS

COMPU-LOG V3L9 PLOT 02-18-81

CM-02

BCM/CWDD

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 E

CB HONAKER

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