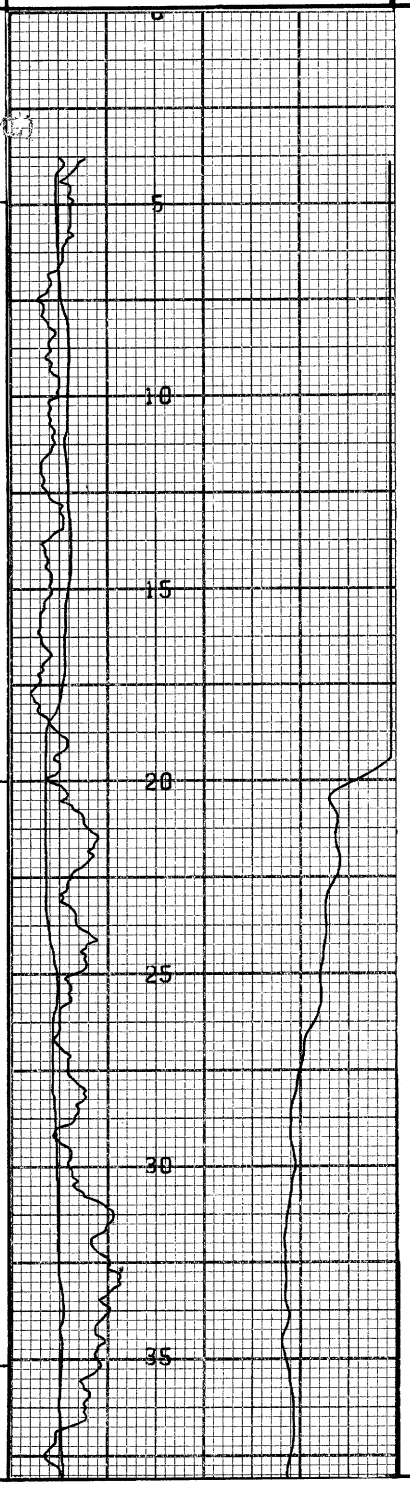
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M1

PROJECT Virginia Beach Groundwater Development Project (Phase I)	SHT. NO. 1 OF 8
CLIENT Betz, Converse, Murdoch, Inc.	PROJ. NO. 80-07203-01
CONTRACTOR Warren George, Inc.	ELEVATION 8.2
	DATUM City of V.B.
	DATE START 1/17/81
	DATE FINISH 1/26/81
	DRILLER E. Tompkins
	CWDD REP. R.J.B.

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

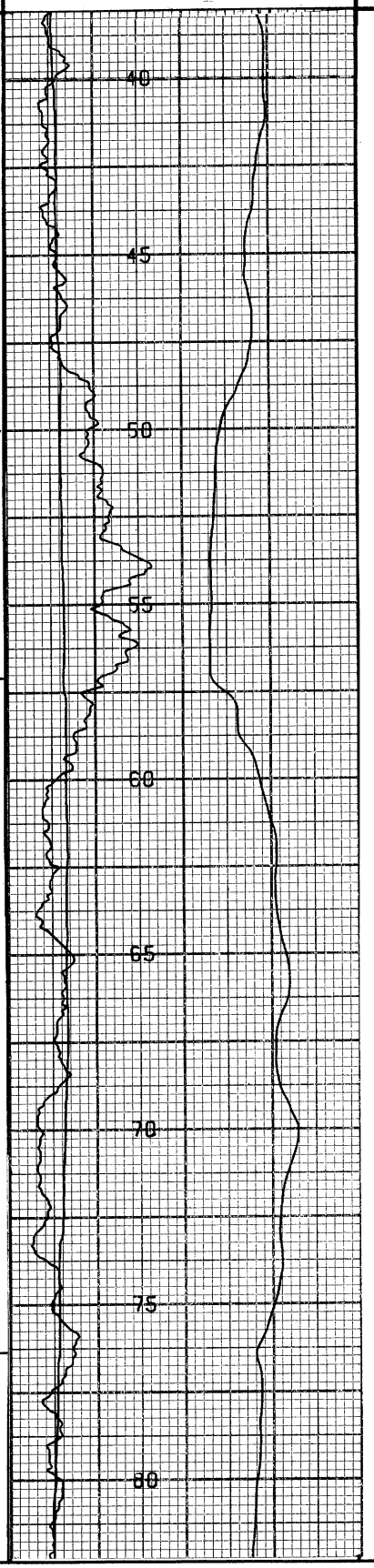
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
2							
4					Yellow brown clayey fine Sand (ML) 5.0		
6							
8							
10							
12							
14							
16							
18					Light brown silty fine to medium Sand (SM) 20.0		
20							
22							
24							
26							
28							
30							
32							
34					Gray clayey fine Sand (ML) 35.0		
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. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 2 OF 8
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	
48					Gray silty fine Sand (SM) 50.0		
50						50	
52							
54					Gray silty clay, some shells (CL) 57.0		
56						55	
58							
60						60	
62							
64							
66						65	
68							
70						70	
72					Gray coarse to fine Sand, gravelly, little intercalated layers of silty Sand (SW) 76.0		
74						75	
76							
78							
80						80	



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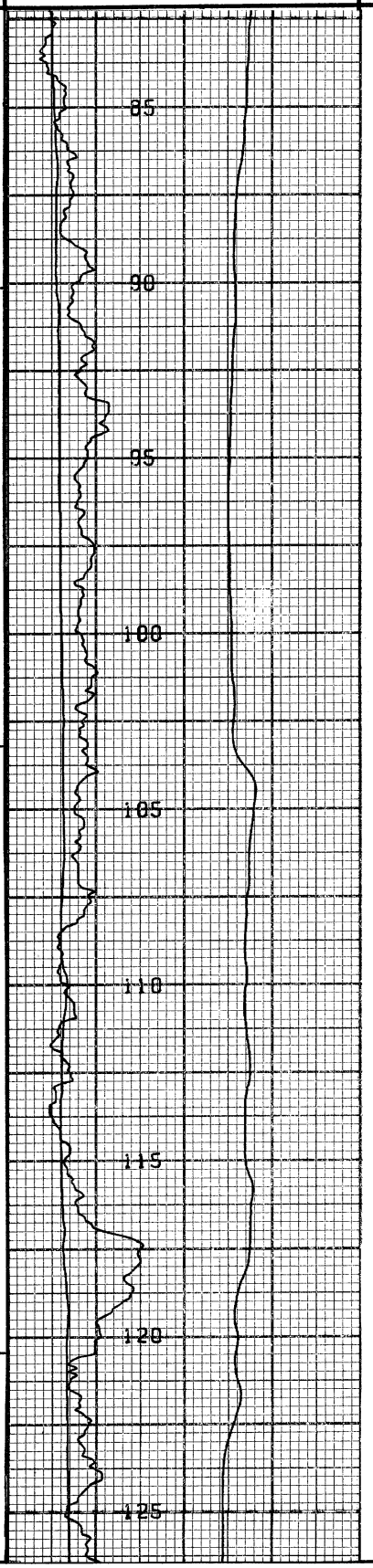
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 8
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
84					Gray silty coarse to fine Sand (SM) 90.0		
86							
88							
90							
92					Gray clayey fine Sand (ML) 103.0		
94							
96							
98							
100							
102							
104					Gray silty fine to medium Sand, some shells (SM) 120.0		
106							
108							
110							
112							
114							
116							
118							
120							
122							
124							
126							



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

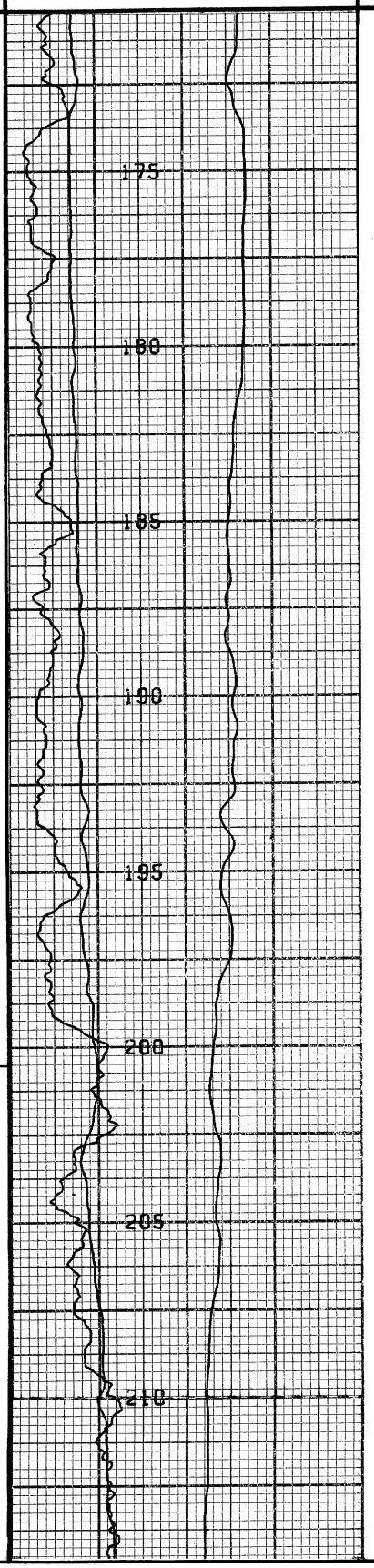
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 8
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
128							
130						130	
132							
134						135	
136							
138							
140						140	
142							
144						145	
146							
148					Gray clayey fine Sands, some shells (ML) 150.0		
150						150	
152							
154						155	
156							
158						160	
160							
162						165	
164							
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. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 5 OF 8
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					Gray silty coarse to fine Sand, little shells, trace mica (SM) 200.0		
198							
200							
202							
204							
206							
208							
210							
212							
214							



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Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 6 OF 8
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
216						215	
218							
220						220	
222							
224						225	
226							
228							
230						230	
232							
234							
236						235	
238							
240						240	
242							
244							
246						245	
248							
250					Gray silty clay, trace shells (CL) 252.0	250	
252							
254							
256						255	
258							

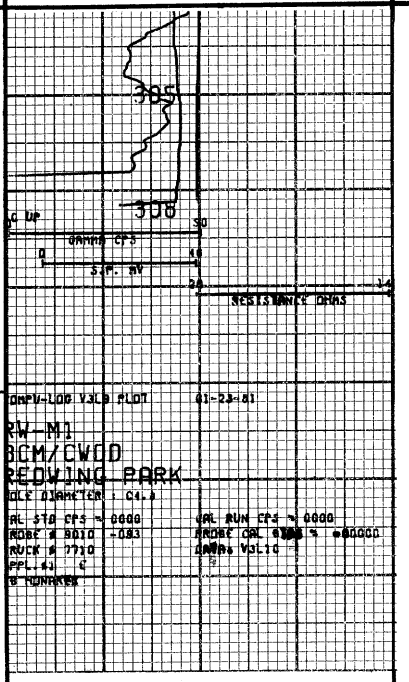
FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M1
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 7 OF 8
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
260						260	
262							
264						265	
266							
268							
270						270	
272							
274						275	
276							
278							
280						280	
282							
284						285	
286							
288							
290						290	
292							
294						295	
296					Gray clayey fine Sand, some shells (SC) 300.0		
298							
300						300	
302							

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. RW-M1
PROJECT Virginia Beach Groundwater Developement Project (Phase I)		SHT. NO. 8 OF 8
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
304							
306							
308							
310					Green gray silty clay (CL) 312.0		
312							
314							
316							
318							
320							
322							
324							
326							
328							
330							
332							
334							
336							
338							
340							
342							
344							
346							

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CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
RW-M1	23 JAN 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: RW-M1

AREA: REDWING PARK

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	312'	BIT SIZE	4 3/4"
TOTAL DEPTH — LOGGER	308'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	308'	CASING DEPTH	NA
LOGGING SPEED	30FT/MIN	BOREHOLE FLUID	HOH
REFERENCE LEVEL	GL	FLUID RESISTIVITY	— @ — °F
PROBE NO.	9010-093	SOFTWARE LEVEL	V3L10
TIME IN: 1248		SCALE SELECTION	☒ OPERATOR ☐ CLIENT
TIME OUT: 1318			

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

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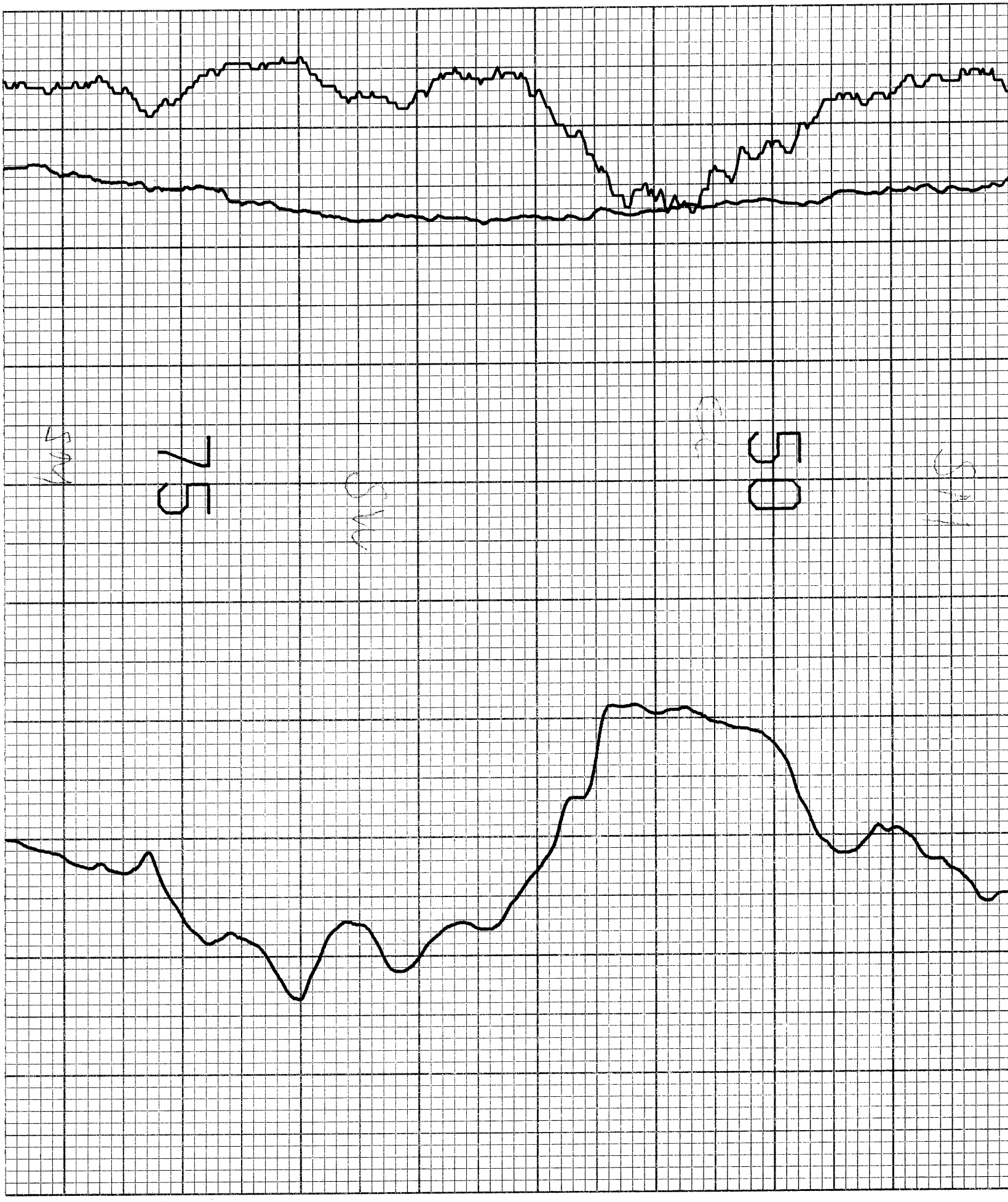

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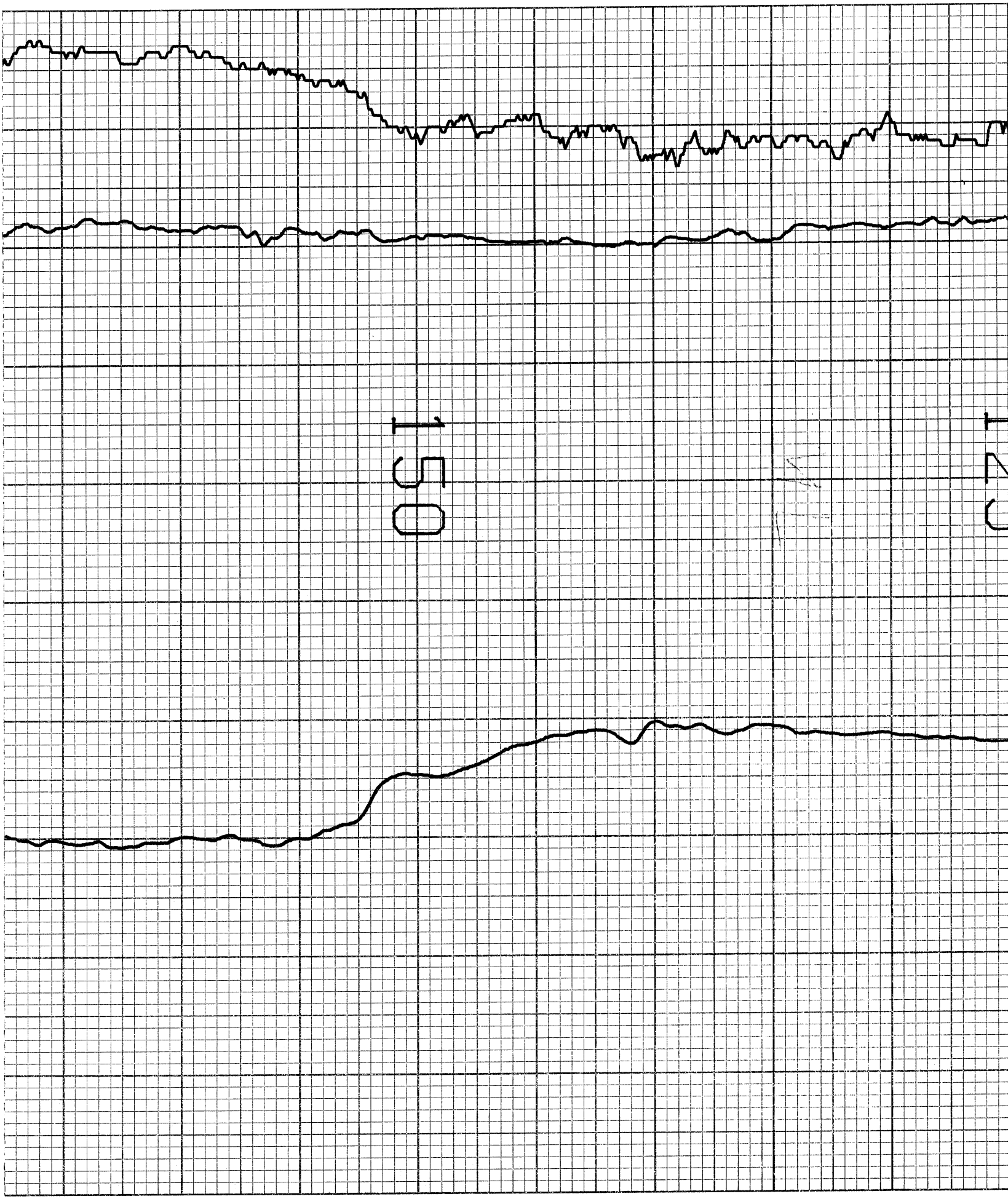
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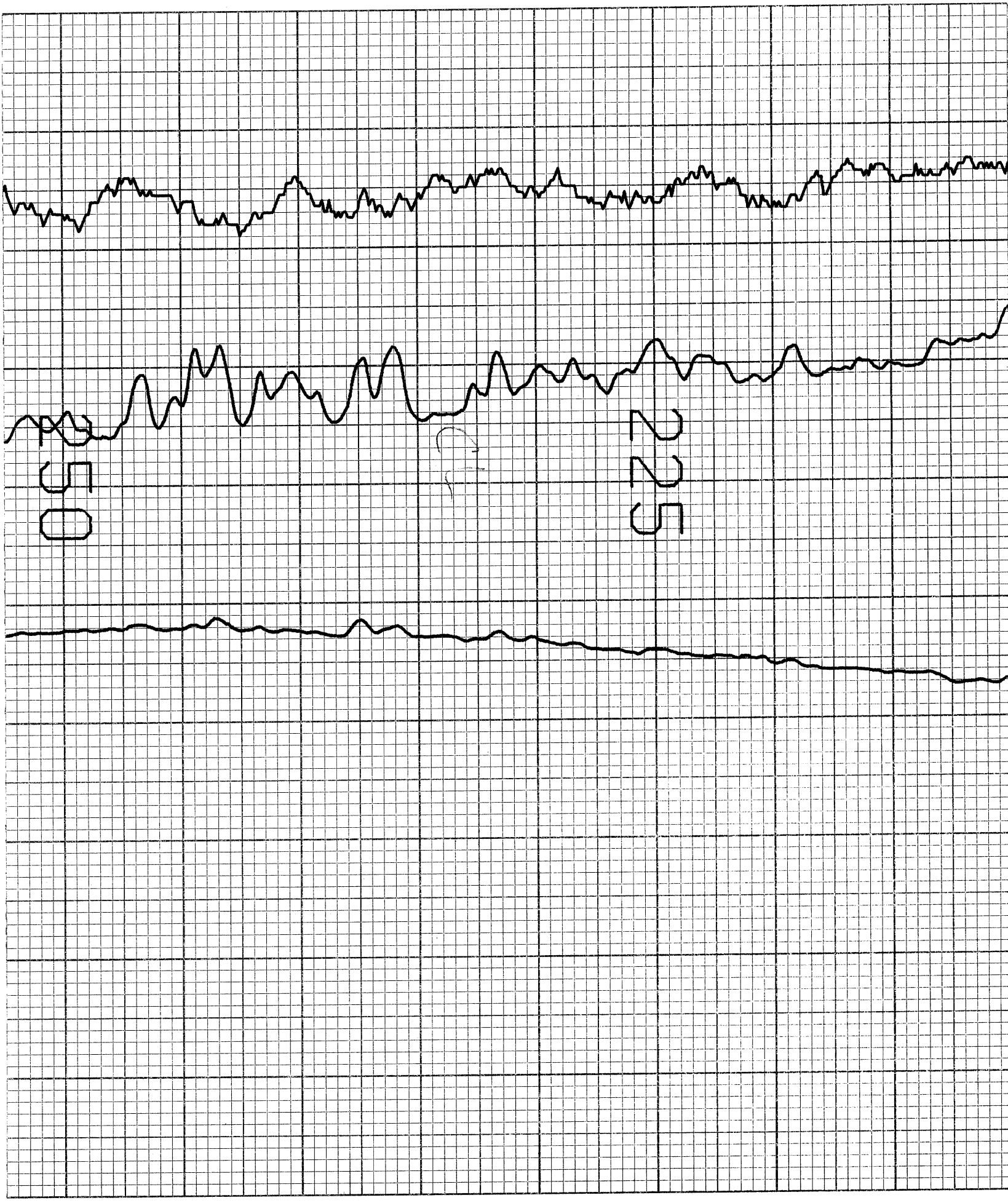

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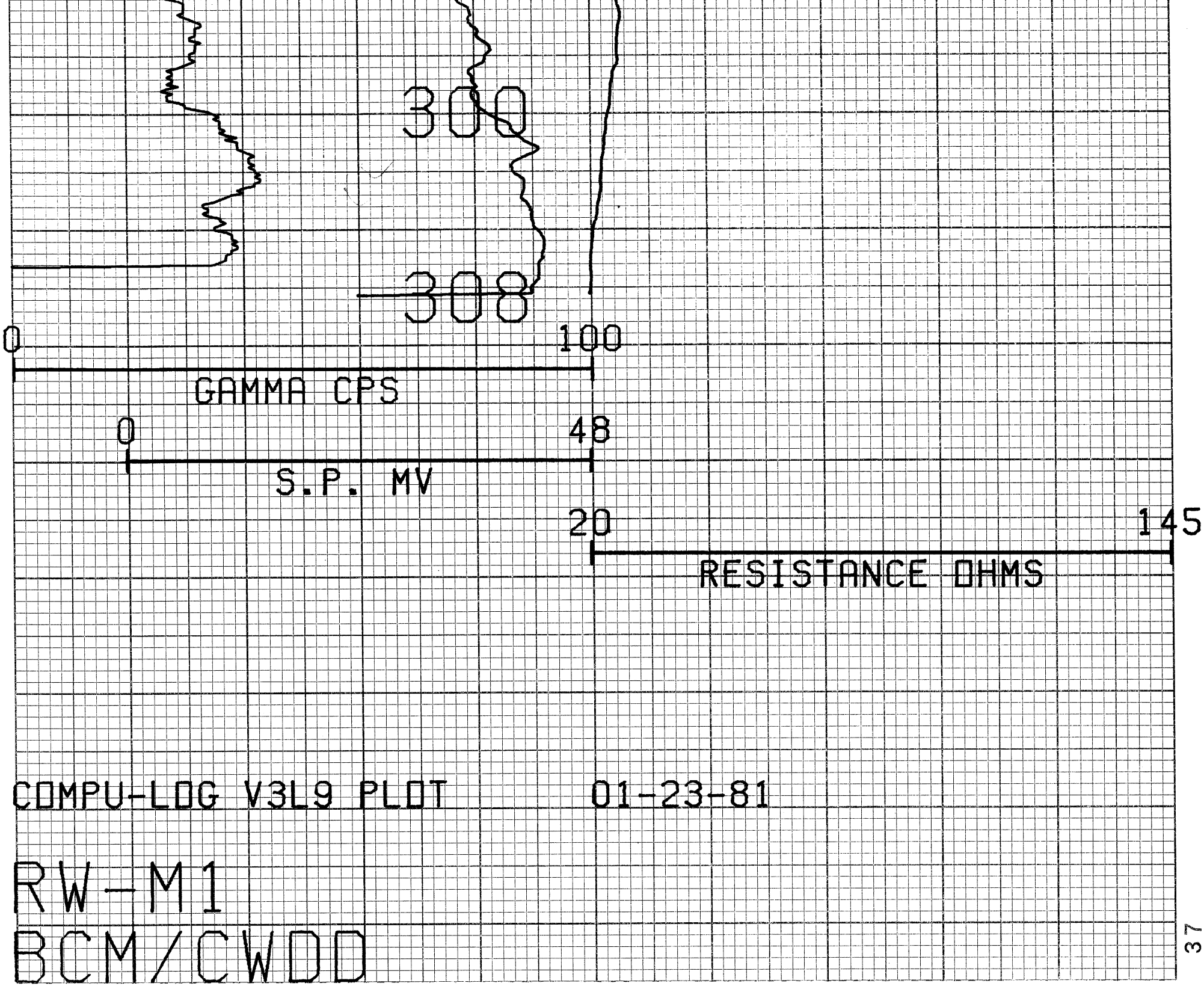

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REDWING PARK

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 E

CB HONAKER

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