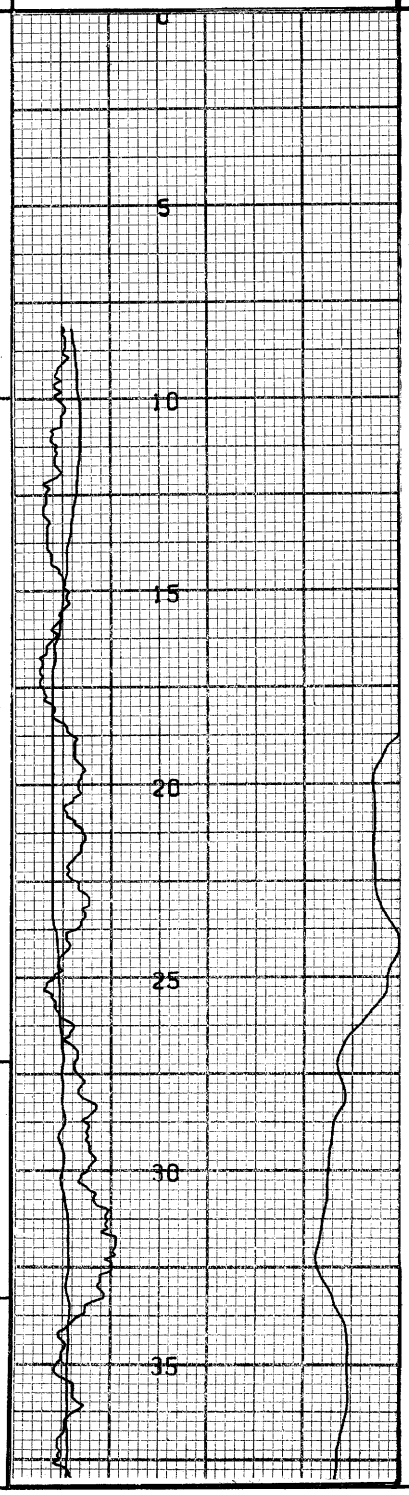
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M2

PROJECT Virginia Beach Groundwater Development Project (phase I)	SHT. NO. 1 OF 6
CLIENT Betz, Converse, Murdoch, Inc.	PROJ. NO. 80-07203-01
CONTRACTOR	ELEVATION 7.5
GROUND WATER	DATUM City of V.B.
	DATE START 1/19/81
	DATE FINISH 1/24/81
	DRILLER V. Aimar
	CWDD REP. J.C.D./R.J.B.

DATE	TIME	DEPTH	CASING

Boring	CAS.	SAMP.	CORE	TUBE
TYPE				
DIA.				
WT.				
FALL				

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
2							
4							
6							
8					Brown clayey fine to medium Sand (SC) 10.0		
10							
12							
14							
16							
18							
20							
22							
24					Light gray silty fine to medium Sand, clayey downward (SM) 27.0		
26							
28							
30					Gray clayey fine Sand (ML) 33.0		
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. RW-M2
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 2 OF 6
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

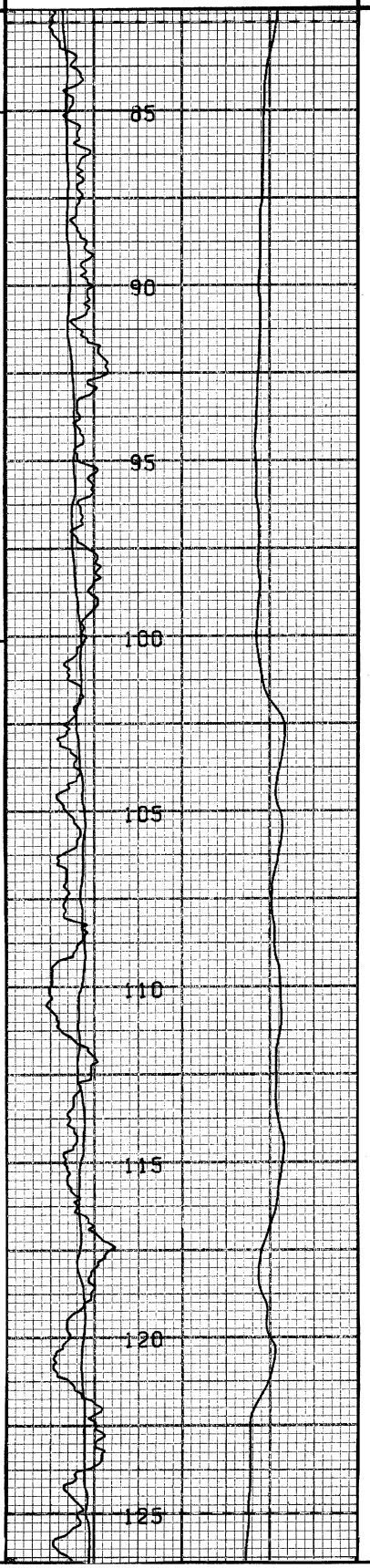
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
40						40	
42							
44					Gray silty fine to medium Sand (SM) 47.0		
46						45	
48							
50						50	
52							
54					Gray silty clay (CL) 56.0		
56						55	
58							
60						60	
62							
64							
66						65	
68							
70						70	
72					Gray coarse to fine Sand, gravelly, trace intercalated layers of silty Sand (SW) 75.0		
74						75	
76							
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.

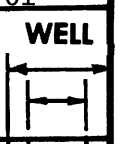
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M2
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 3 OF 6
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
84					Gray silty coarse to fine Sand (SM) 85.0
86					
88					
90					
92					
94					
96					Gray clayey fine Sand (ML) 100.0
98					
100					
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. RW-M2
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 4 OF 6
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

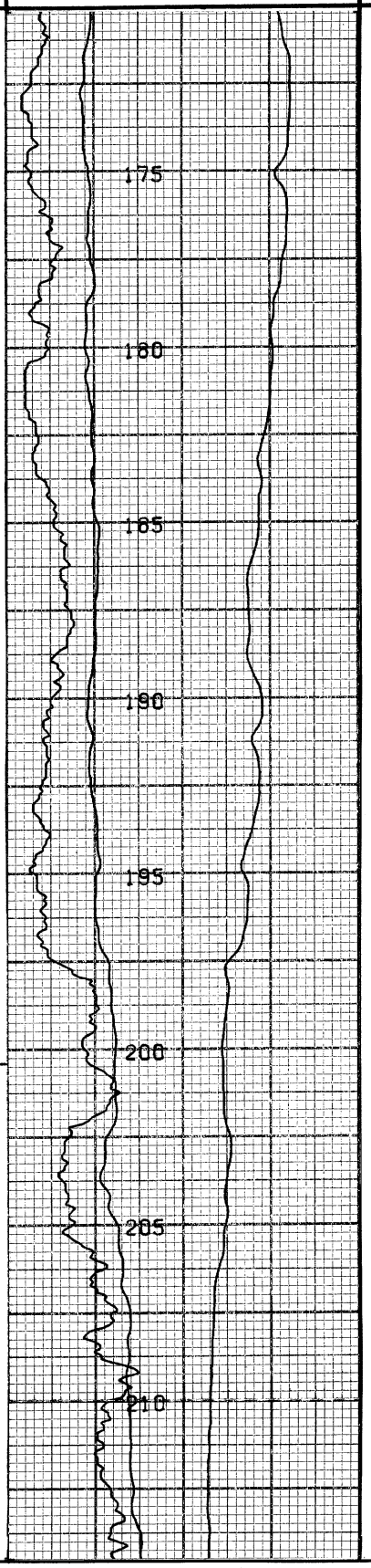
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
128					Gray silty fine to coarse Sand, some shells (SM) 127.0		
130						130	
132							
134							
136						135	
138							
140						140	
142							
144					Gray sandy silt, some shells (ML) 147.0		
146						145	
148							
150						150	
152							
154							
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.

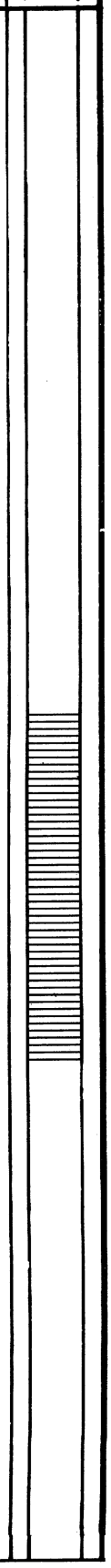
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. RW-M2
PROJECT Virginia Beach Groundwater Development Project (phase I)		SHT. NO. 5 OF 6
CLIENT Betz, Converse, Murdoch, Inc.		PROJ. NO. 80-07203-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY
172					
174					
176					
178					
180					
182					
184					
186					
188					
190					
192					
194					
196					Gray silty fine to coarse Sand intercalated layers of sandy clay, some shells (SM)
198					200.0
200					
202					
204					
206					
208					
210					
212					
214					

E - LOG



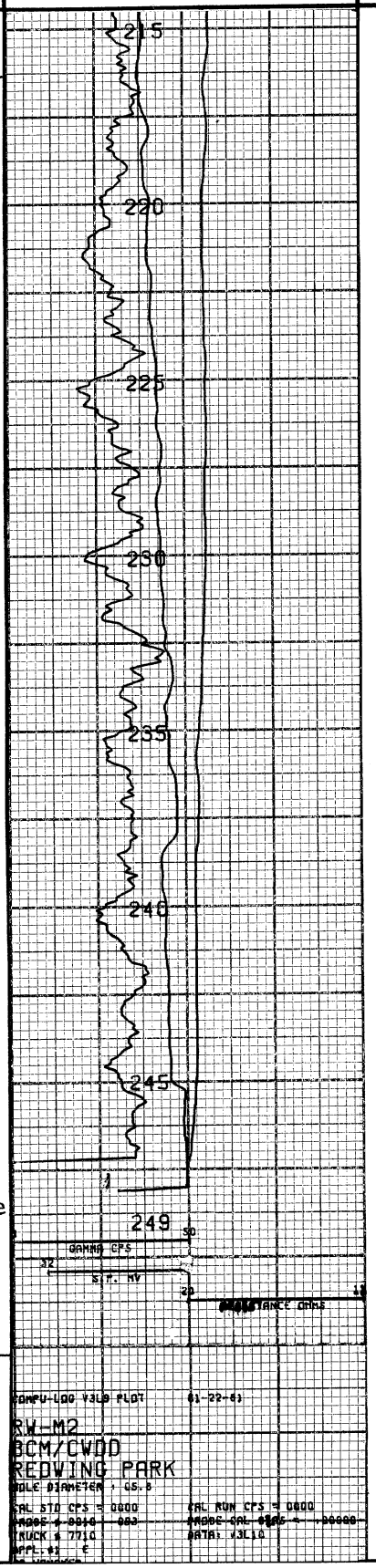
WELL



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. RW-M2
PROJECT Virginia Beach Groundwater Development Project (Phase I)		SHT. NO. 6 OF 6
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					215.0 Gray sandy silt, trace mica (ML)		
218							
220							
222							
224							
226							
228							
230							
232							
234							
236							
238							
240							
242							
246							
246							
248					Greenish gray sandy clay, trace mica (CL)		
250					252.0		
252							
254							
256							
258							



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

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

BOREHOLE	DATE
RW-M2	22 JAN 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWTDD

BOREHOLE: RW-M2

AREA: REDWING PARK

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	250'	BIT SIZE	5 3/4"
TOTAL DEPTH — LOGGER	249'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	249'	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: 1648		SCALE SELECTION	☒ OPERATOR ☒ CLIENT
TIME OUT: 1512			

REMARKS:

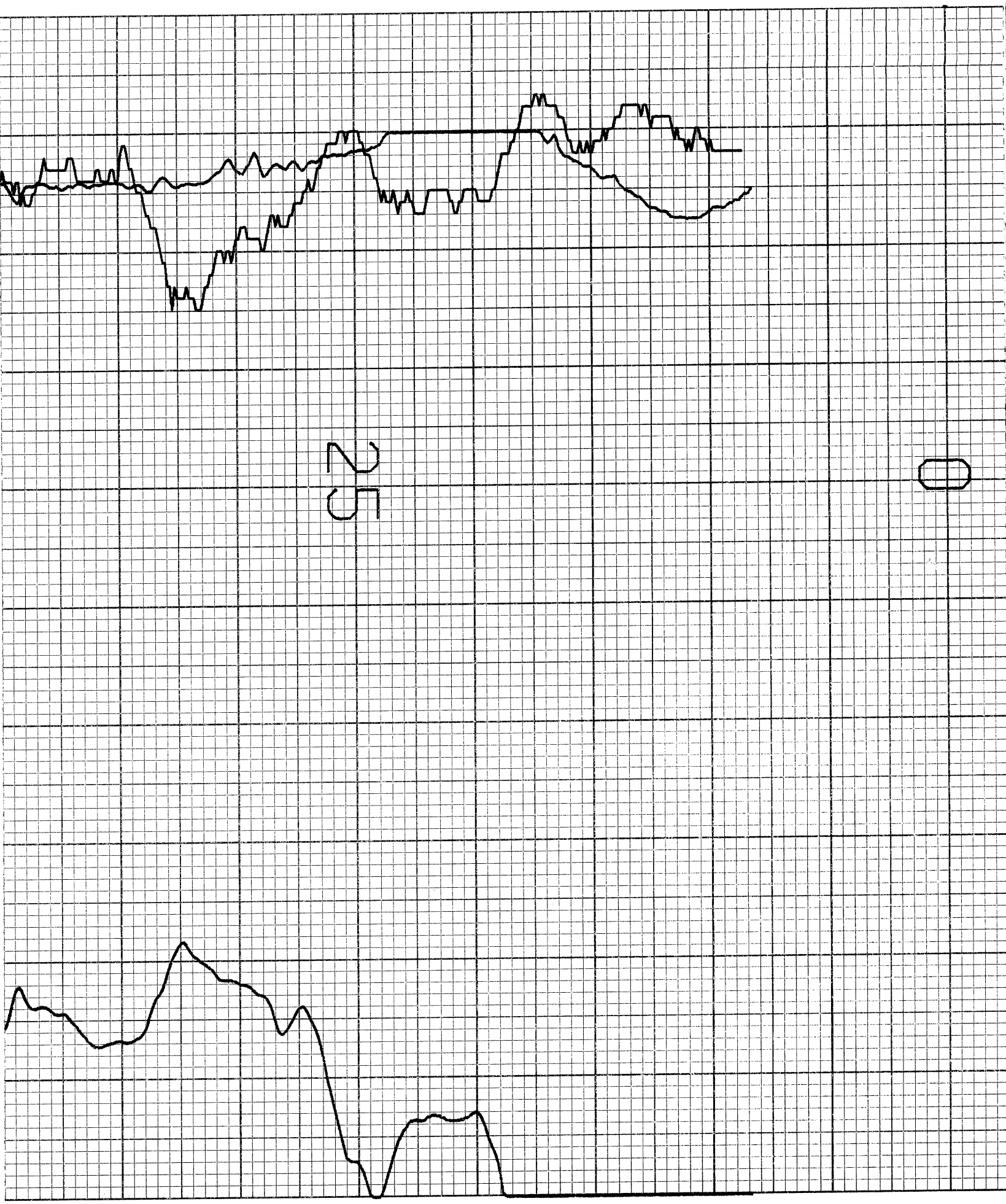
EQUIPMENT DATA

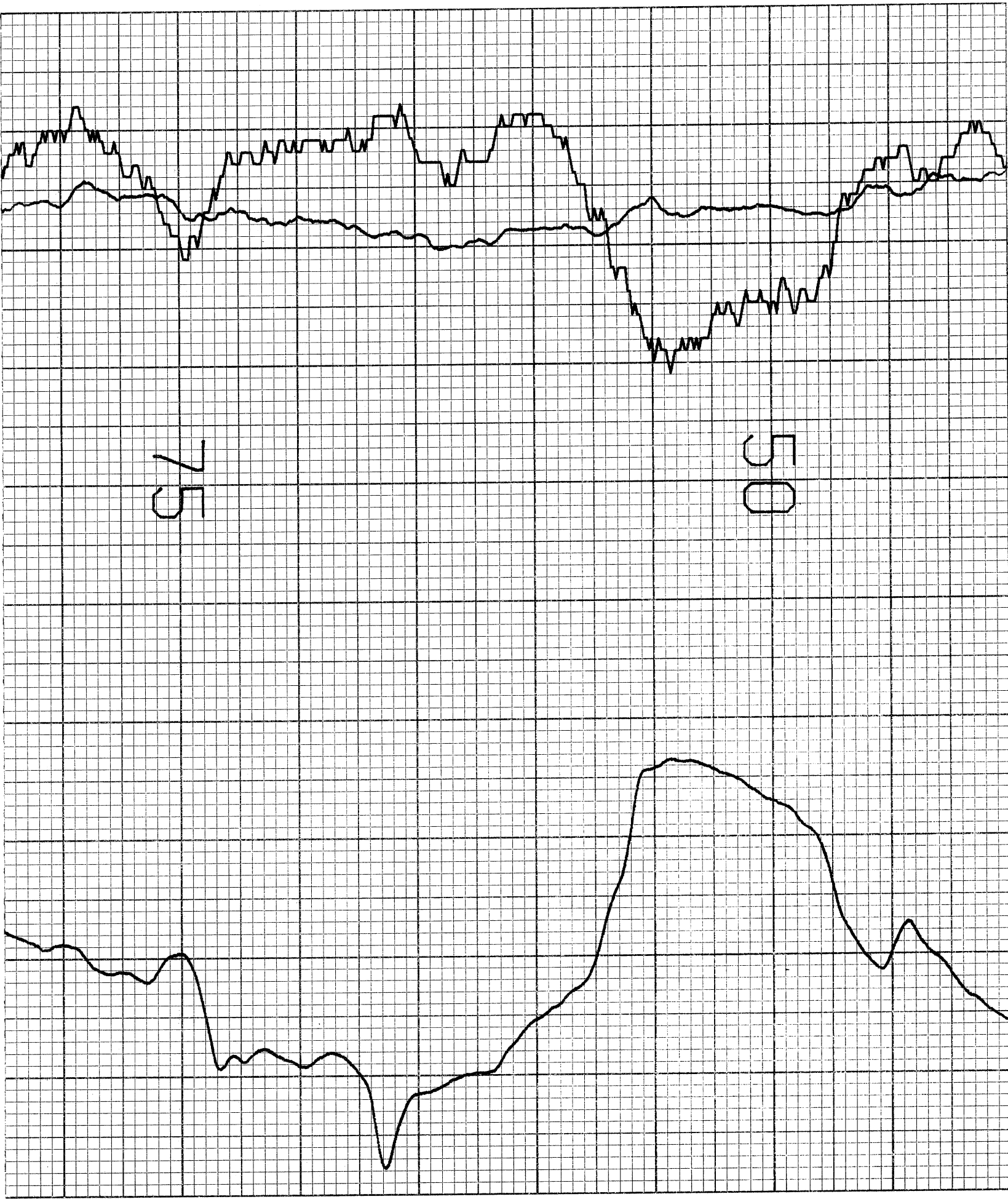
		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.125" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K-FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K-FACTOR x 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

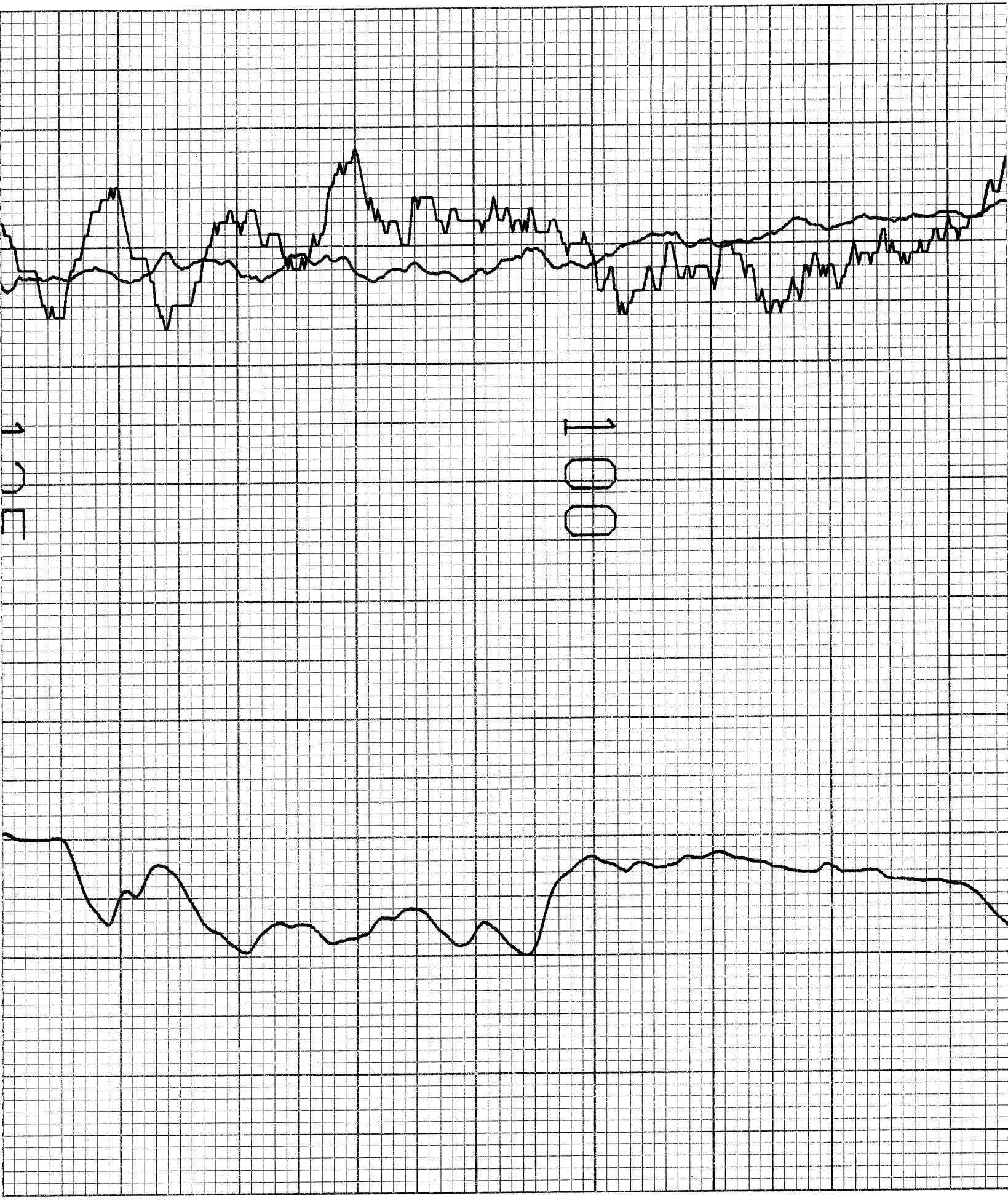
PRINTED IN U.S.A.





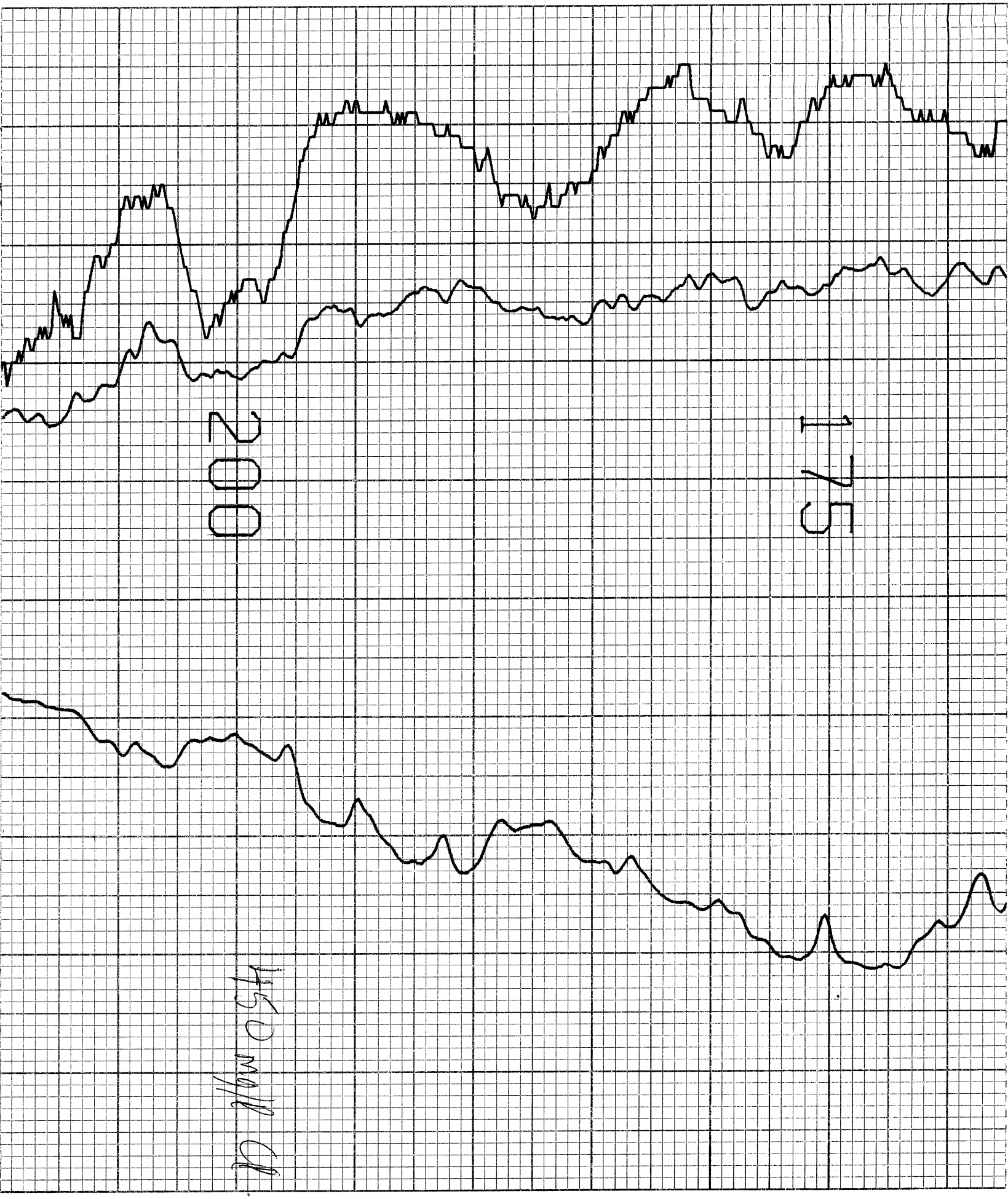
CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

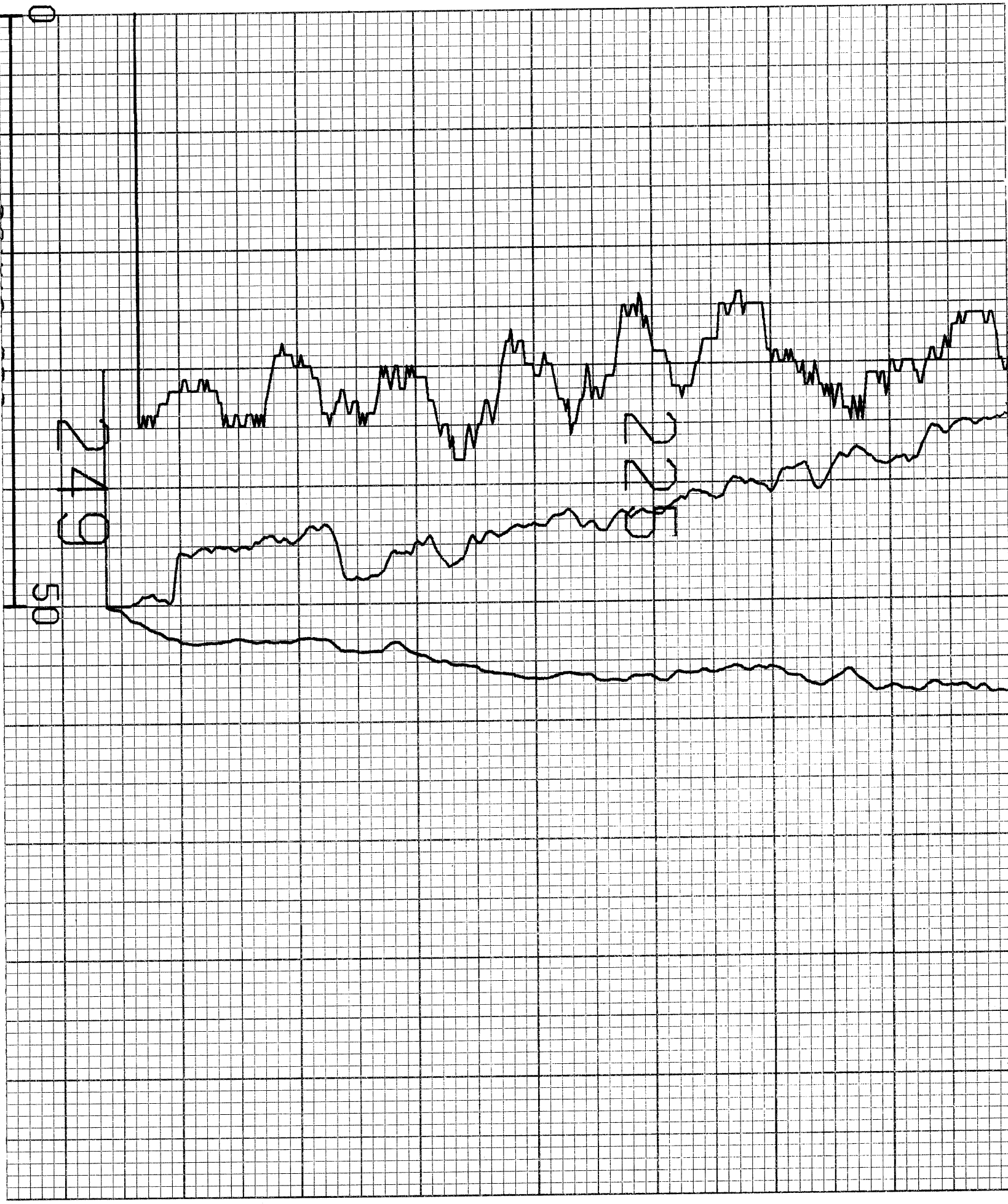
PRINTED IN U.S.A.

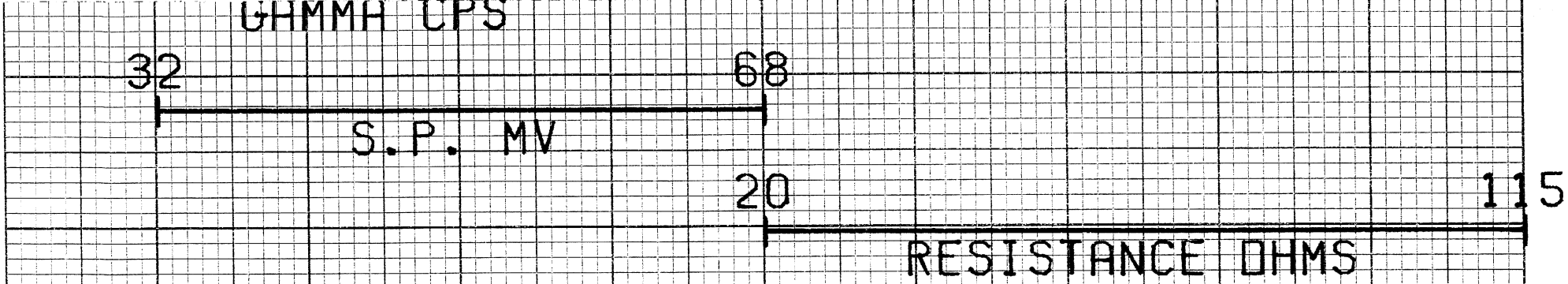


CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

PRINTED IN U.S.A.




0
50
100



COMPU-LOG V3L9 PLOT 01-22-81

RW-M2
BCM/CWDD
REDWING PARK
HOLE DIAMETER : 05.8

CAL STD CPS = 0000
PROBE # 9010 -093
TRUCK # 7710
APPL.#1 E
CB HONAKER

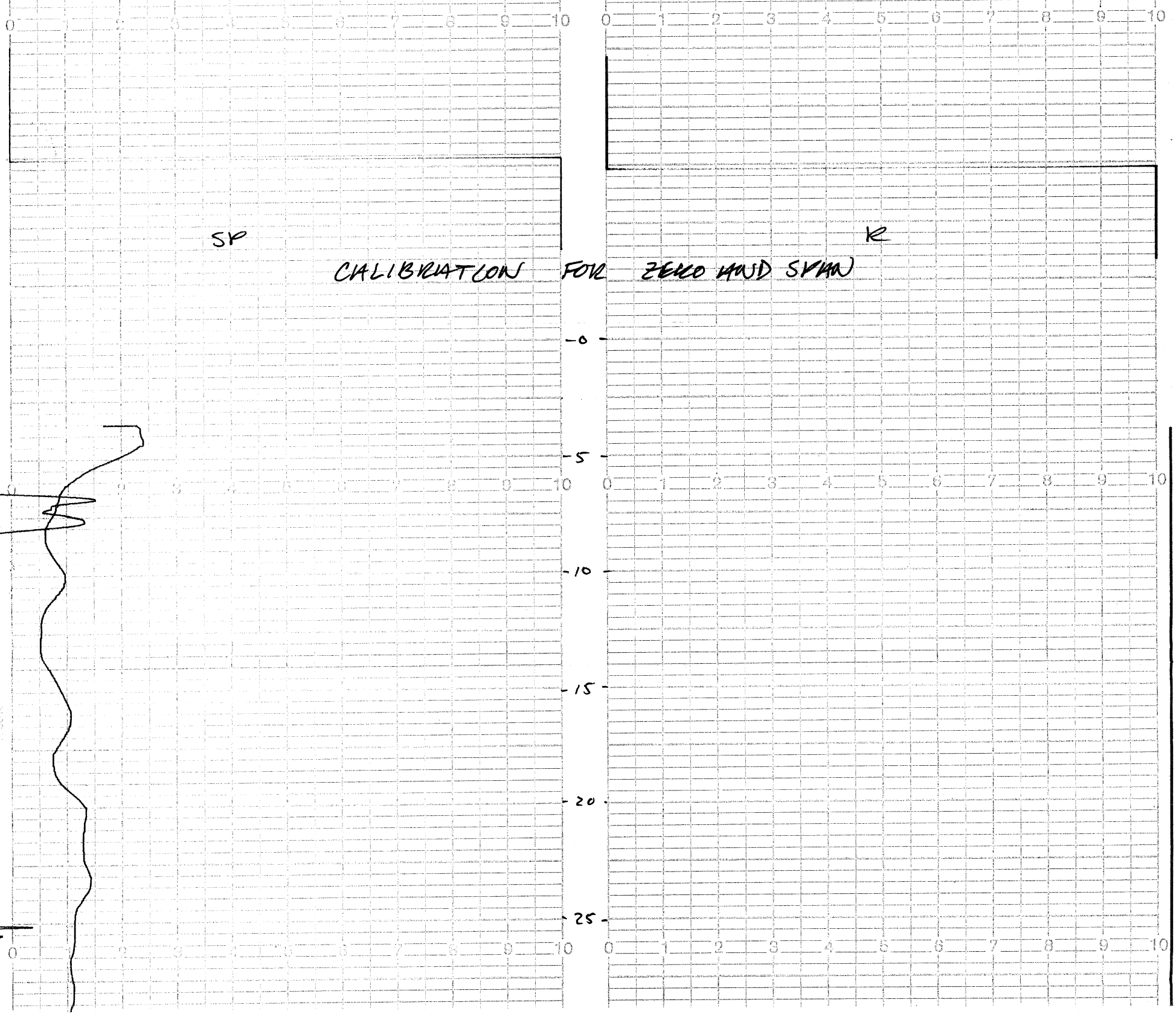
CAL RUN CPS = 0000
PROBE CAL BIAS = +00000
DATA: V3L10

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022 PRINTED IN U.S.A.

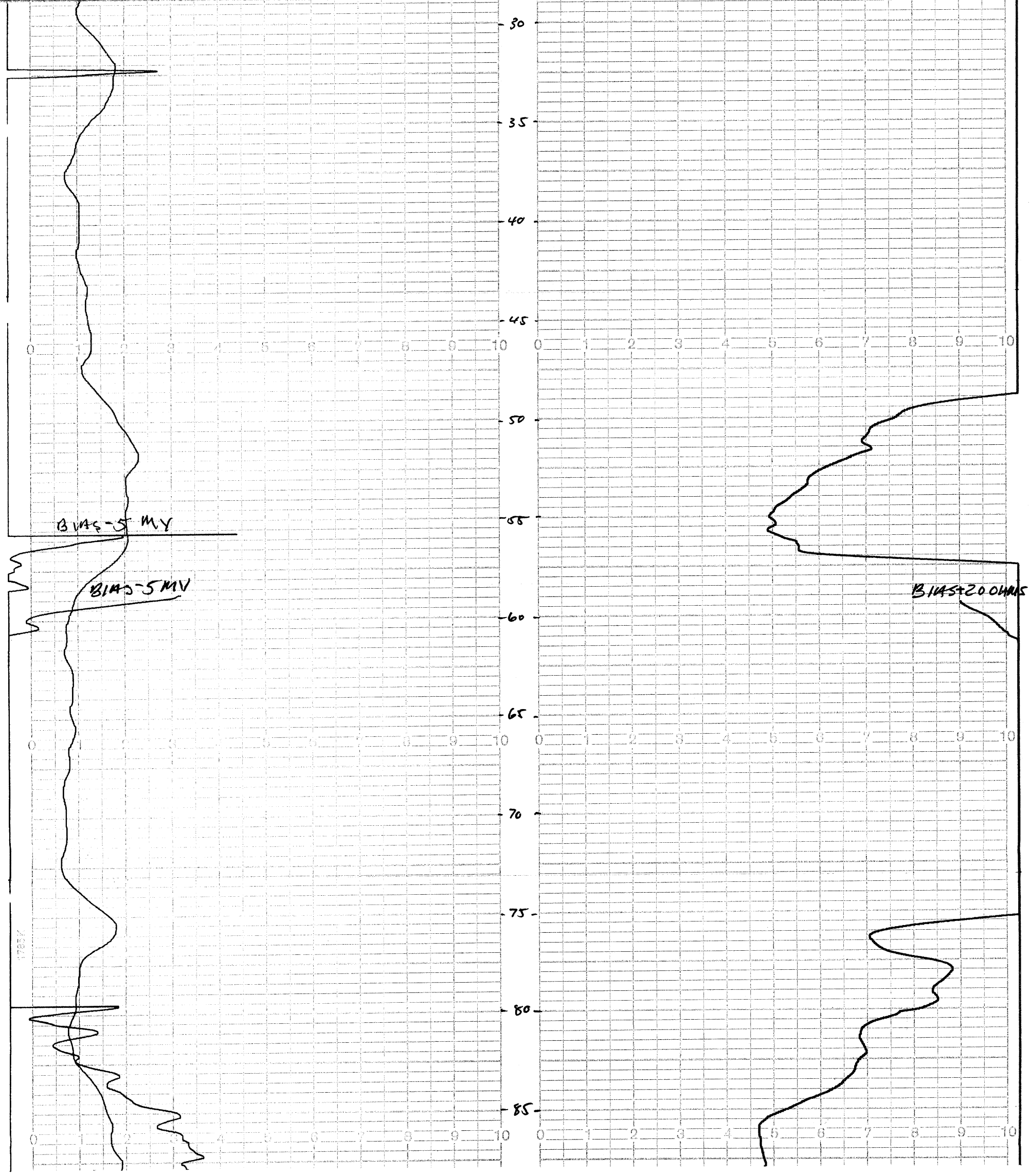
RW - M2

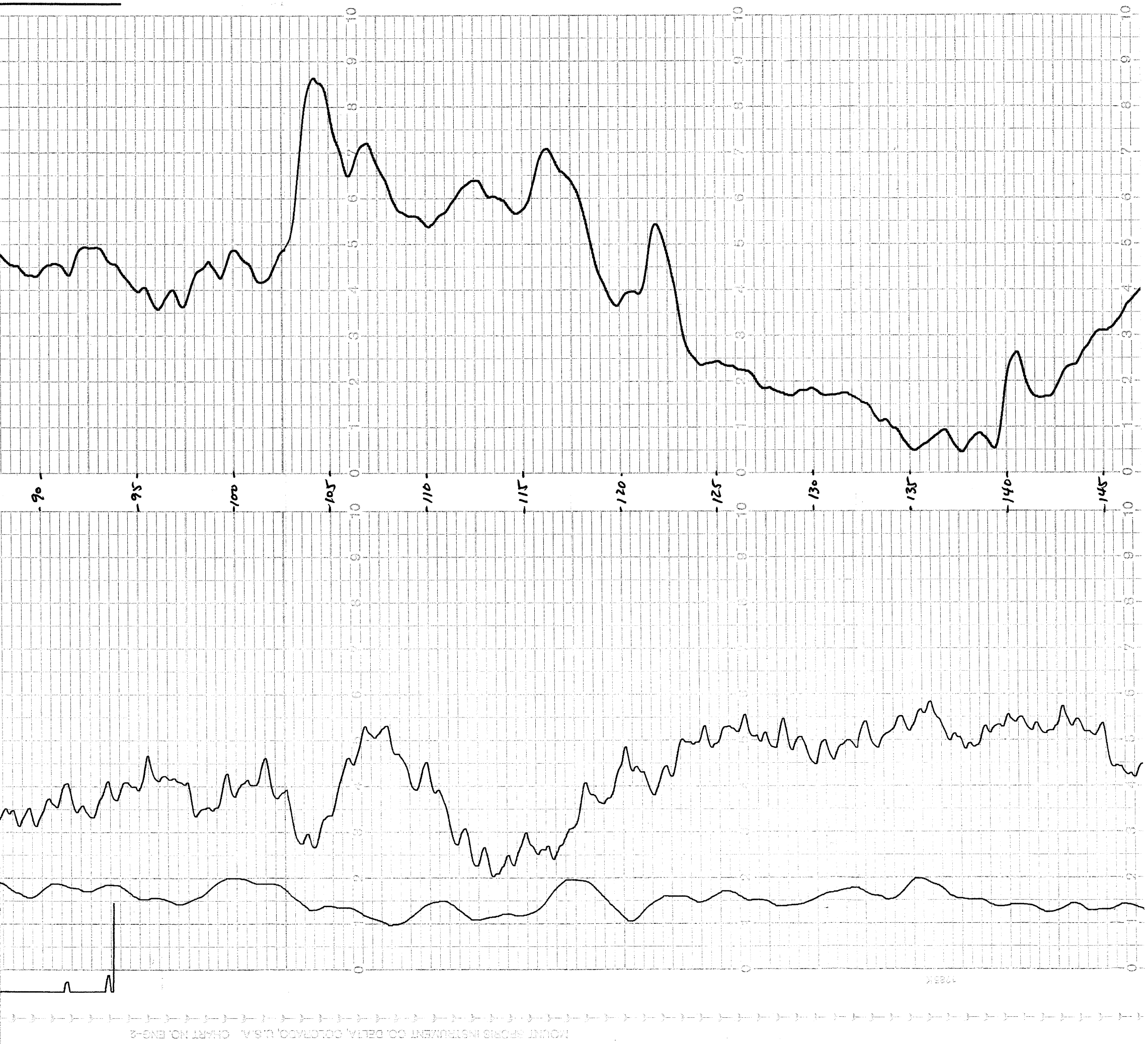
SCALES γ : 10 CPS/DIV BIAS 0 CPS
SP : 2 MV/DIV BIAS 10, 5, 0, 5 MV
R : 5 OHMS/DIV BIAS 340, 360, 340 OHMS
DEPTH: 0.5 FT/DIV

1-22-81
TD DRILLER : 250 FT
TD LOGGER : 248 FT

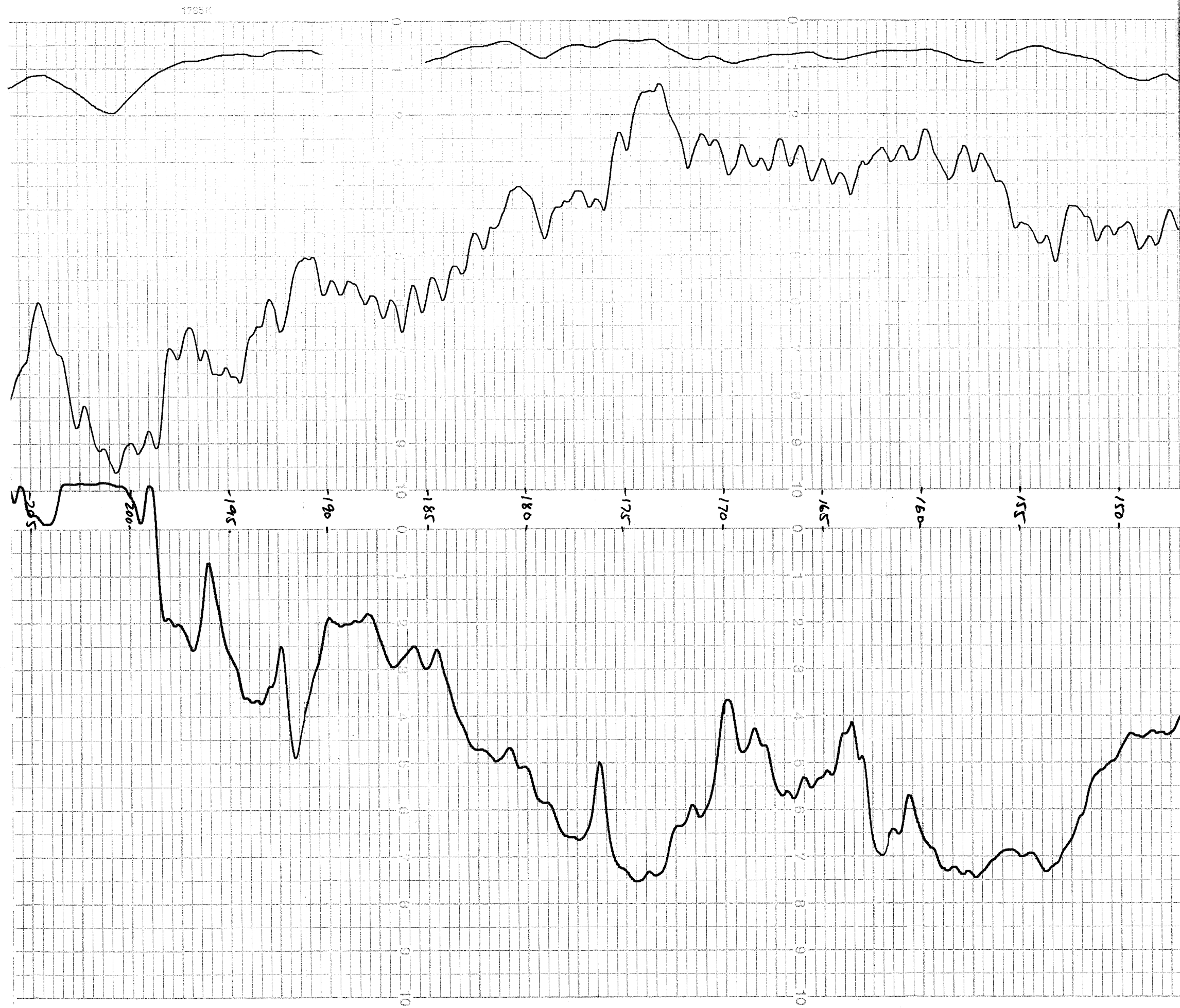


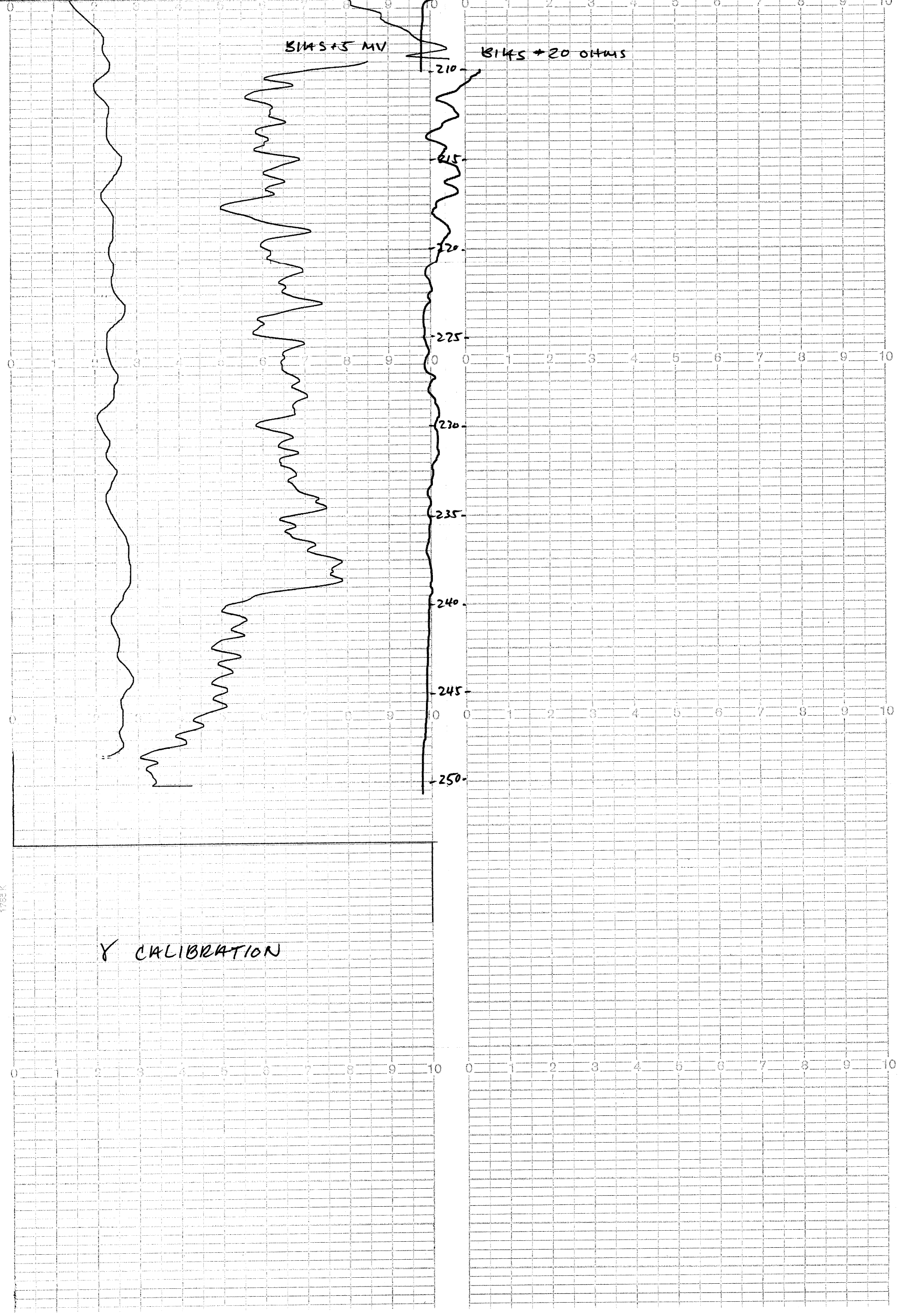
CALIBRATION FOR ZERO AND SPAN


30
35
40
45
50
55
60
65
70
75
80
85
0 1 2 3 4 5 6 7 8 9 10
BIAS -5 MV
BIAS -5 MV
BIAS +200 OHMS


90
95
100
105
110
115
120
125
130
135
140
145

MOUNT SPORIS INSTRUMENT CO. DELTA, COLORADO, U.S.A. CHART NO. EN3-2





MOUNTAIN SERVICES INSTRUMENT CO. DELTA, COLORADO, U.S.A. CHART NO. EN3-2
1782 K
CHART NO. EN3-2