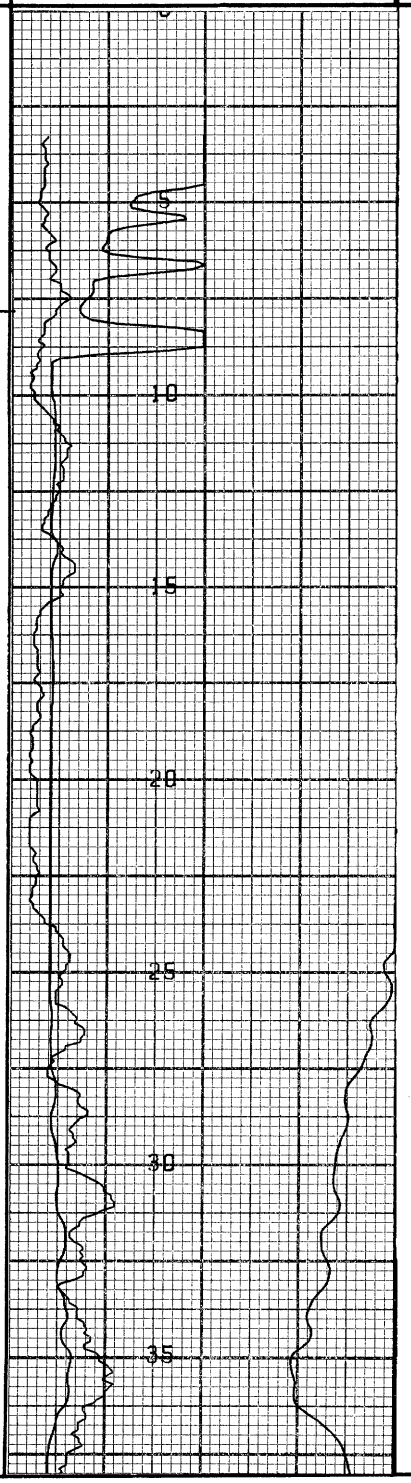
Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. LC-01

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 10±
GROUND WATER		DATUM Nat'l. Geodedic
DATE START		2/18/81
DATE FINISH		2/23/81
DRILLER		B. Muh
CWDD REP.		R. Shine

GROUND WATER				Boring	CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	MUD	S.S.		
				DIA.				
				WT.				
				FALL				

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	STRATIGRAPHY	E - LOG	WELL
2					Brown sandy Clay, intercalated layers of coarse Sand (CL)		
4							
6							
8					8.0'		
10					Gray coarse to fine Sand, intercalated layers of clayey fine Sand (SW)		
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							

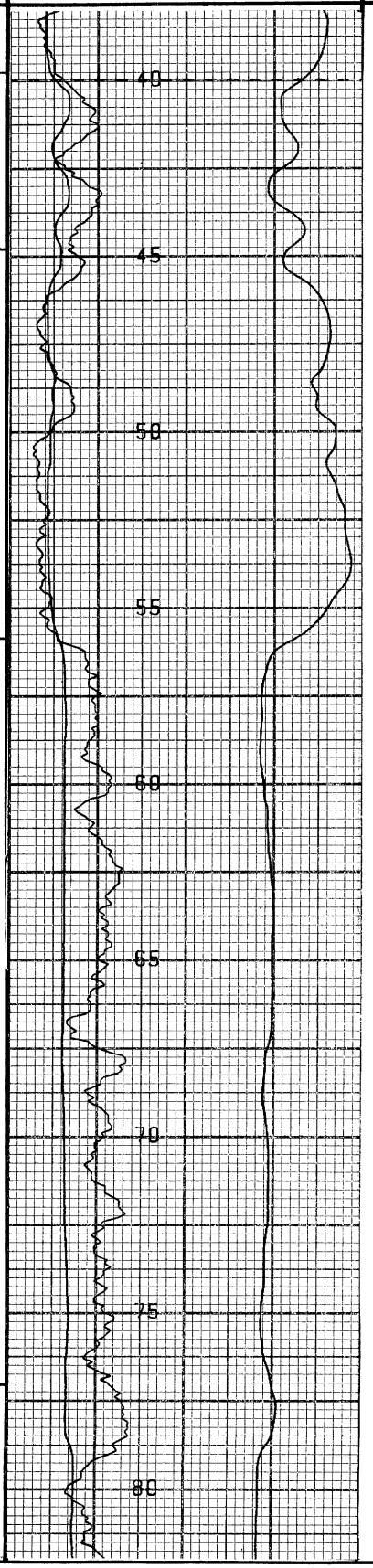


FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants	WELL LOG	WELL NO. LC-01
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					40.0'
42					Gray sandy Clay (CL)
44					
					45.0'
46					
48					
50					Gray silty coarse to fine Sand, gravelly (SP)
52					
54					
					56.0'
56					
58					
60					
62					
64					Gray clayey Silt, trace mica, shells, intercalated layers of fine Sand (MH)
66					
68					
70					
72					
74					
76					
					77.0'
78					Greenish gray sandy Silt, clay downward, trace mica (ML)
80					
82					

E - LOG



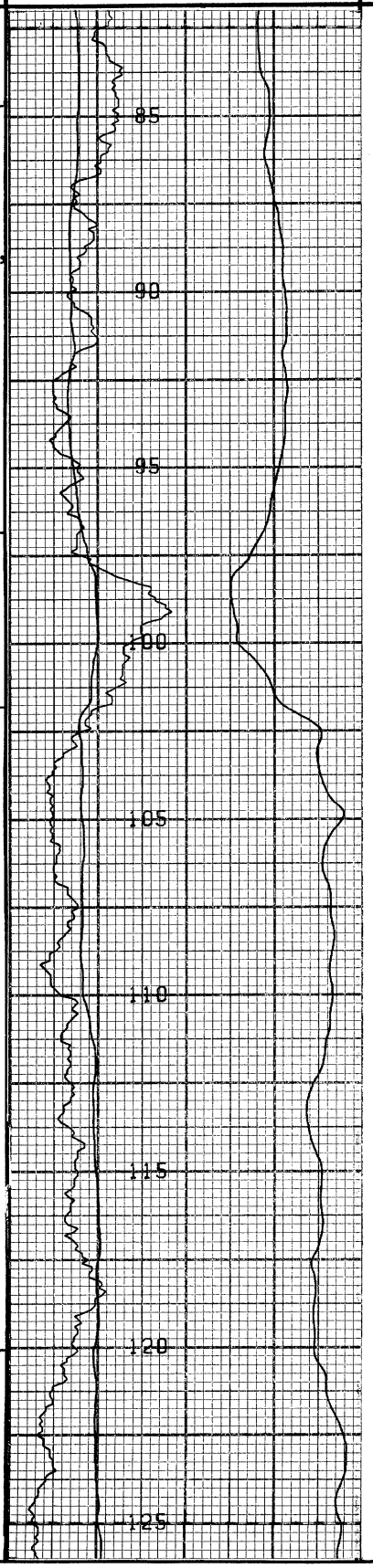
WELL

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. LC-01
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					85.0'
86					Grayish green clayey fine Sand, trace shells (SC)
88					
90					
92					
94					
96					97.0'
98					Gray silty Clay, trace shells (CH)
100					
102					102.0'
104					Grayish green silty fine to medium Sand, trace shells (SM)
106					
108					
110					
112					
114					
116					
118					
120					120.0'
122					
124					
126					

E - LOG



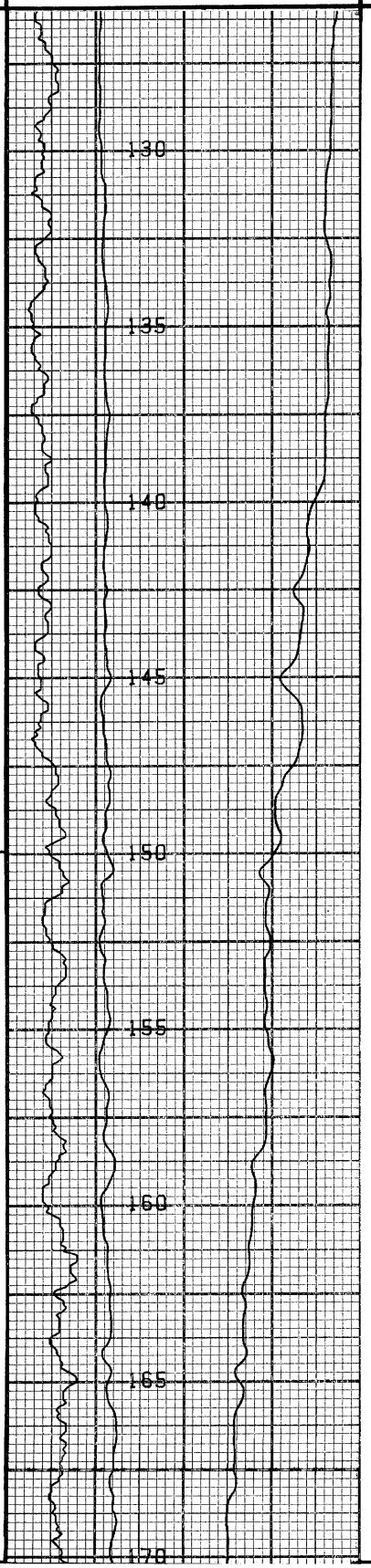
WELL

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. LC-01
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
128					
130					
132					
134					Gray silty coarse to fine Sand, gravelly, some shells, intercalated layers of silty fine Sand (SP)
136					
138					
140					
142					
144					
146					
148					
150					150.0'
152					
154					
156					
158					Gray clayey fine Sand, trace shells (SC)
160					
162					
164					
166					
168					
170					

E - LOG

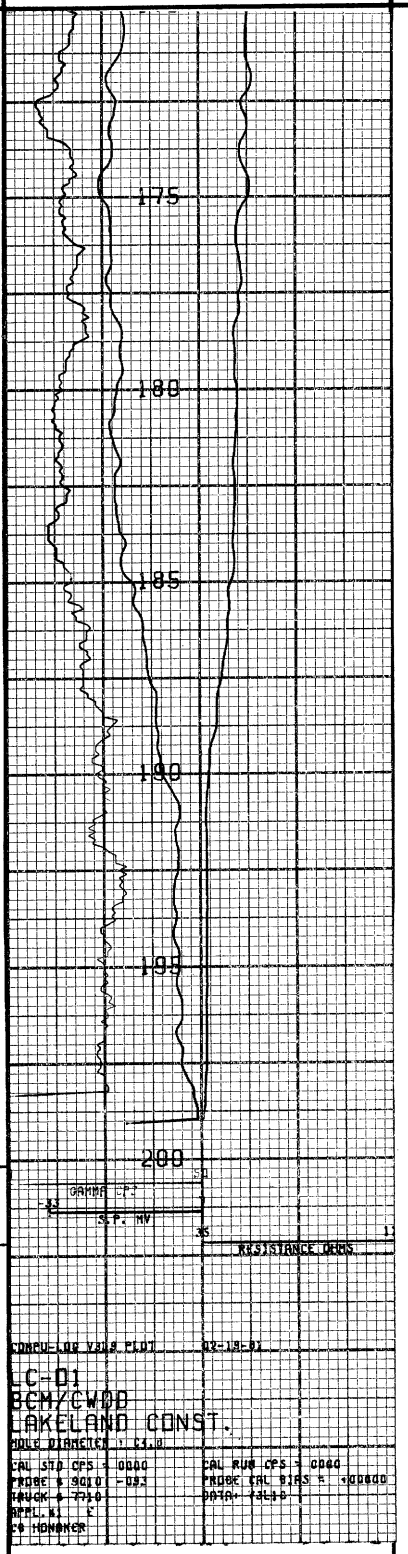


WELL

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. LC-01
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					200.0'		
202					Gray sandy Silt, trace shells (ML) 202.0'		



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
LC-01	19 FEB 81
UNIT/OPERATOR	**FIELD OFFICE**
7710/HONAKER	LEXINGTON

COMPANY: BCM/CWDD

BOREHOLE: LC-01

AREA: LAKELAND CONST

ELEVATION:

COUNTY: VA BEACH CITY

STATE: VA

SECTION:

TOWNSHIP:

RANGE:

HOLE DATA

TOTAL DEPTH — DRILLER	200'	BIT SIZE	4 3/4"
TOTAL DEPTH — LOGGER	200'	CASING — TYPE & SIZE	NA
TOTAL FOOTAGE LOGGED	200'	CASING DEPTH	NA
LOGGING SPEED	30 FT/MIN	BOREHOLE FLUID	HOH
REFERENCE LEVEL	GL	FLUID RESISTIVITY	15.6 @64°F
PROBE NO.	9010-093	SOFTWARE LEVEL	V3L10
TIME IN: 1336		SCALE SELECTION	☒ OPERATOR ☐ CLIENT
TIME OUT: 1406		TP9-TK1	

REMARKS:

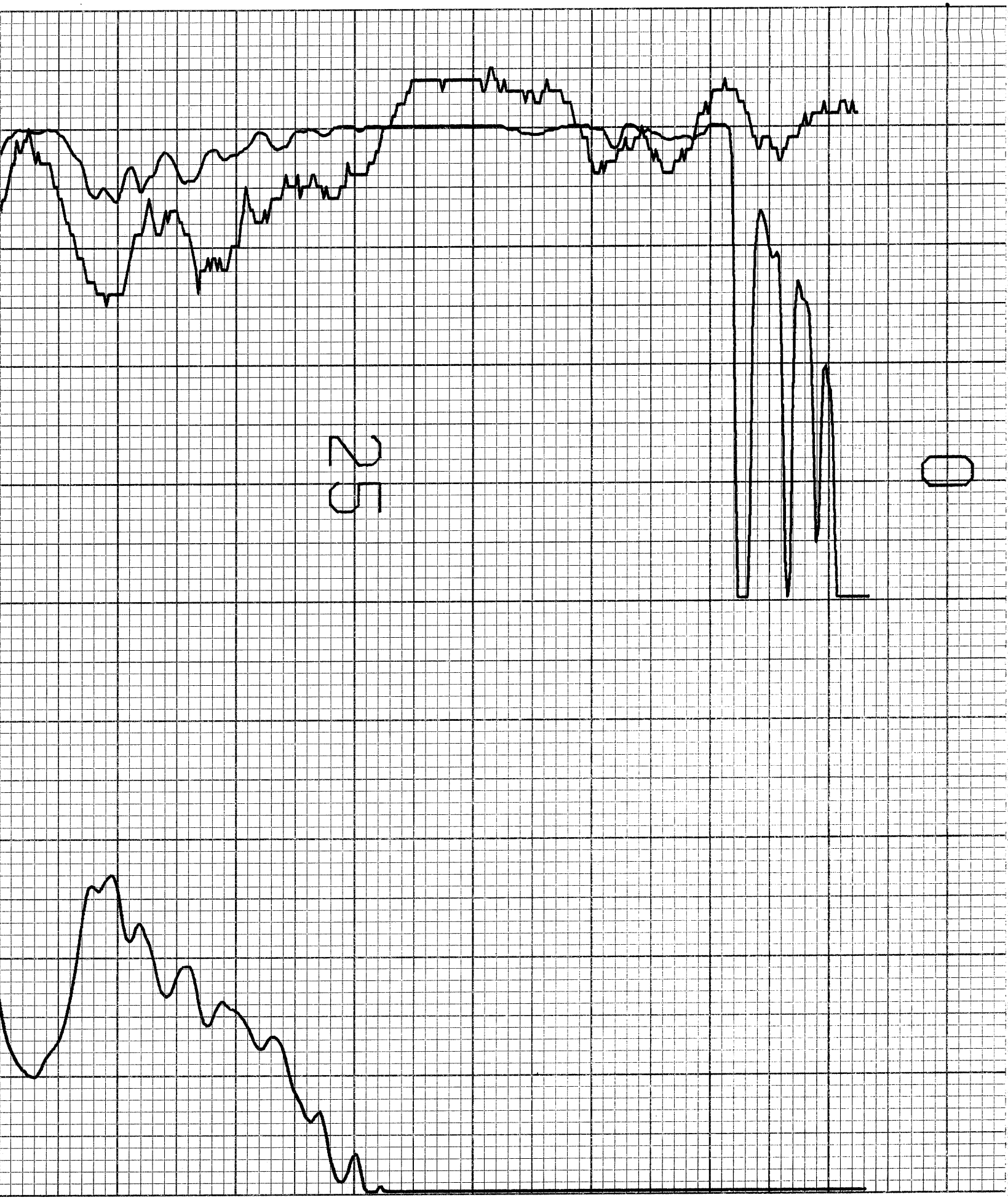
EQUIPMENT DATA

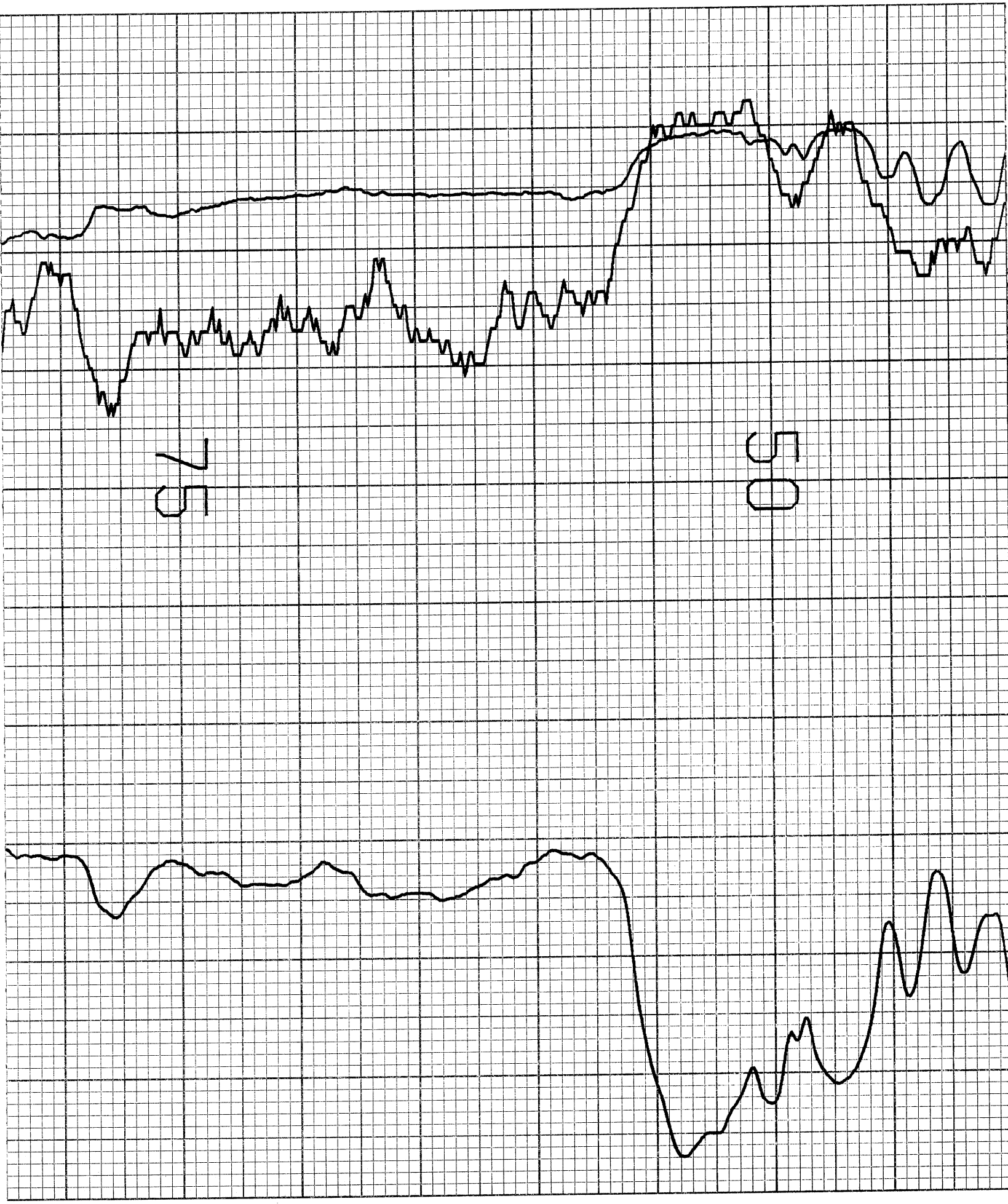
PROBE MODEL		(9010)	9030	9050/55	9060	
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"	
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI	
	DETECTOR SIZE	.875" x 1.25"	1.125" x 4.5"	.875" x 4.0"	.5" x 3.0"	
	STD. K-FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}	
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec	
	CALIB.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

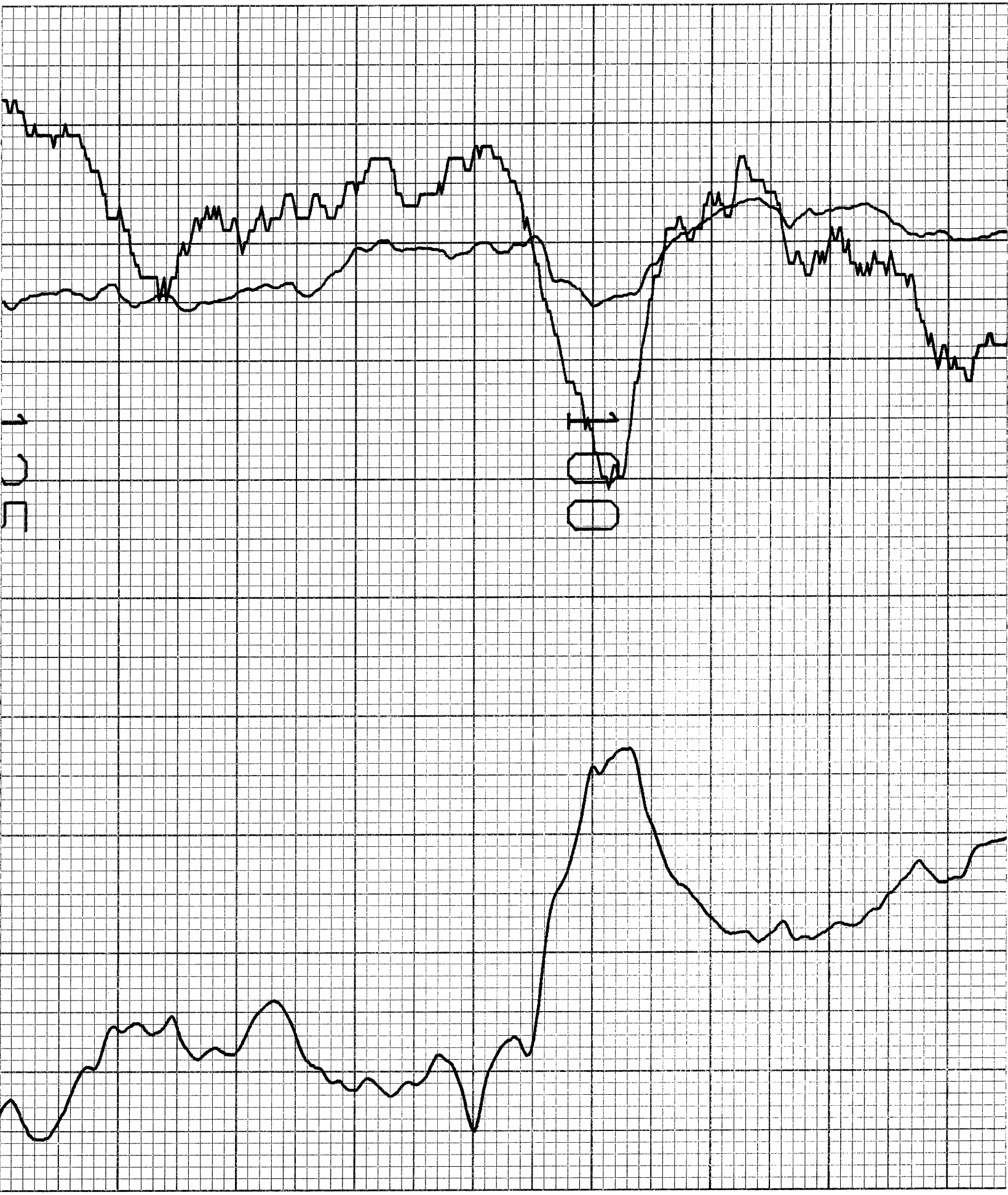
PRINTED IN U.S.A.



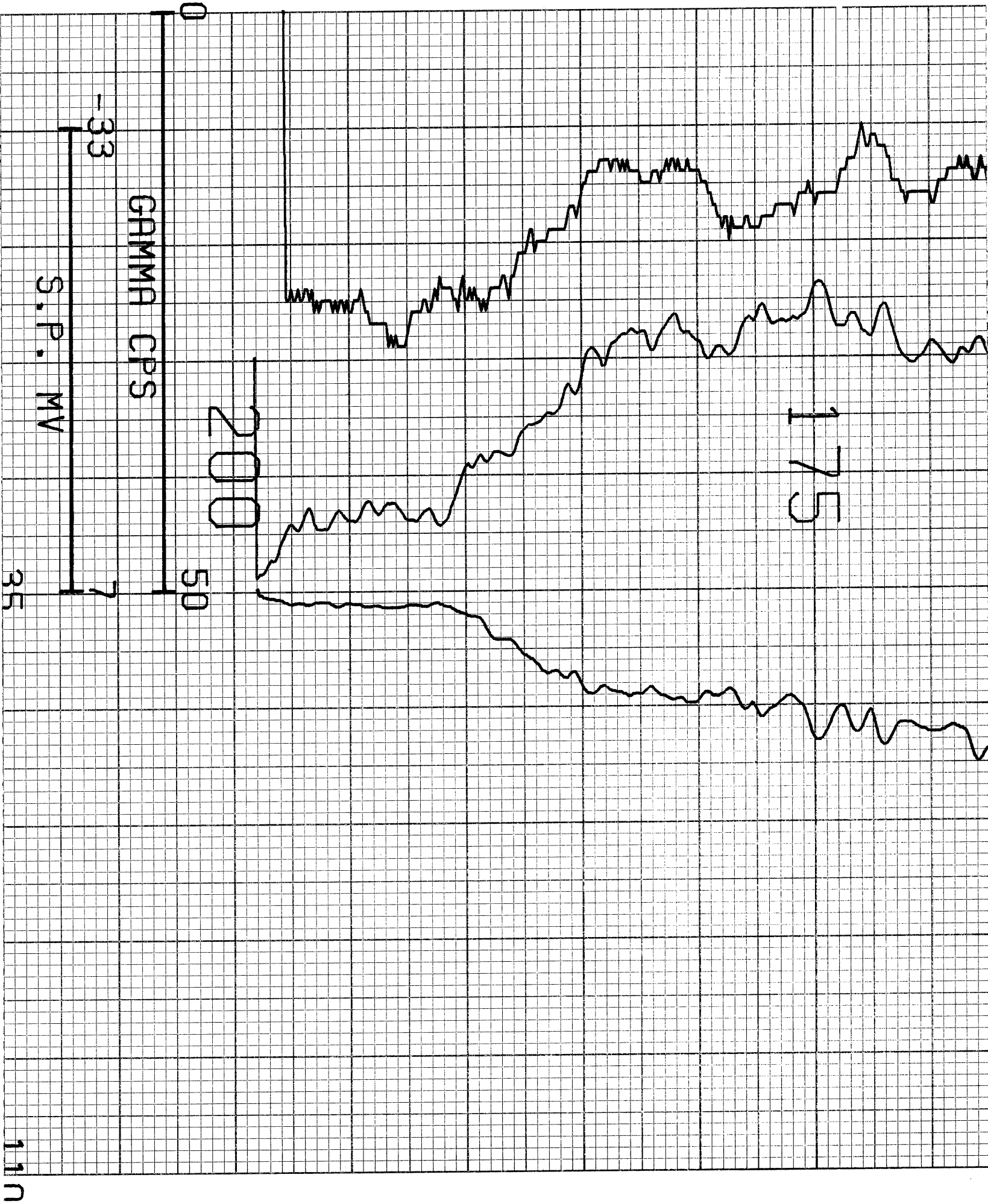


CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

PRINTED IN U.S.A.



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



CENTURY GEOPHYSICAL CORP. PART NO. 786-0022 PRINTED IN U.S.A. 03

RESISTANCE OHMS

COMPU-LOG V3L9 PLOT 02-19-81

LC-01
BCM/CWDD
LAKELAND CONST.

HOLE DIAMETER : 04.8

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

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