

AD-786 852

RADAR SIGNATURE MEASUREMENTS OF BQM-
34A AND BQM-34F TARGET DRONES.
VOLUME 1c

Test Group (6585th)

Prepared for:

Air Force Special Weapons Center

January 1974

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AFSWC-TR-74-01
January 1974

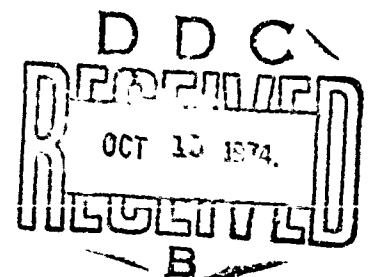
AIR FORCE SPECIAL WEAPONS CENTER

RADAR SIGNATURE MEASUREMENTS OF BQM-34A AND BQM-34F TARGET DRONES

6585th TEST GROUP
HOLLOMAN AIR FORCE BASE, NEW MEXICO

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RAT SCAT
Radar Target Scatter Division

AFSWC-TR-74-01

RADAR SIGNATURE MEASUREMENTS OF BQM-34A AND BQM-34F TARGET DRONES

January 1974

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THE RADAR TARGET SCATTER DIVISION (RAT SCAT)
6585th Test Group

1a

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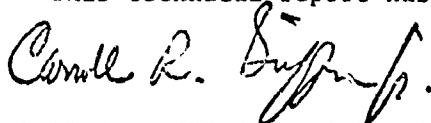
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FOREWORD

This report is based on actual radar cross section measurements made at the USAF Special Weapons Centers' Radar Target Scatter Division (RAT SCAT) of the 6585th Test Group. RAT SCAT is located on the Alkali Flats, Holloman Air Force Base, New Mexico. This Facility is operated and maintained by Dynallectron Corporation, Radar Backscatter Division, under contract F29601-73-C-0133, and is under the specific direction of the 6585th Test Group. The AF Project Officer is Lt Colonel Carroll R. Griffin.

Correspondence pertaining to this report should be addressed to the attention of the 6585th Test Group (RX).

This technical report has been reviewed and is approved.



CARROLL R. GRIFFIN, Lt Colonel, USAF
Chief, Radar Target Scatter Division

ABSTRACT

Radar signature data were acquired from BQM-34A and BQM-34F remotely piloted vehicles at the U.S. Air Force Special Weapons Centers' Radar Target Scatter Division (RAT SCAT), 6585th Test Group, Holloman AFB, New Mexico. Monostatic measurements of the components of the target scattering matrix, monostatic and 30 degree bistatic measurements of target glint, as well as 10 and 20 degree bistatic measurements of target cross section were performed using vertical and horizontal antenna polarizations. Data were obtained from both the principal and crossed polarized components of the target return. Sixteen orientations of each vehicle were measured at a frequency of 5500 MHz.

This report is published in three parts, each of which presents data acquired from both BQM-34 vehicles. Part a is limited to monostatic radar cross section and glint data. Part b presents radar cross section data acquired at bistatic angles of 10 and 20 degrees. Radar cross section and glint data acquired at a bistatic angle of 30 degrees are contained in Part c.

INTRODUCTION
SECTION I

This report documents radar cross section, phase and glint measurements of BQM-34A and BQM-34F target drones performed at the U. S. Air Force Special Weapons Centers' Radar Target Scatter Division (RAT SCAT), 6585th Test Group, Holloman Air Force Base, New Mexico. Monostatic, 10 degree bistatic, 20 degree bistatic, and 30 degree bistatic radar cross section data were acquired at a frequency of 5500 MHz using horizontal, vertical, and cross polarization. Monostatic and 30 degree bistatic target glint data were acquired concurrently with the cross section measurements. Phase data were obtained at the three measurement system polarizations for the monostatic case only.

Measurements were performed at vehicle roll angles of 0, 30, 60 and 90 degrees at vehicle pitch angles of 0, 10, 20 and 30 degrees providing a total of sixteen orientations for each target vehicle. Measurements of the BQM-34F target were performed with the vehicle in an inverted position. Consequently, all aspect referenced data for that target are the mirror images of those which would have been obtained had the vehicle not been inverted. Measurements of the BQM-34A target were performed with the target in the normal, non-inverted position.

This report is published in three parts, each of which contains data acquired from both the BQM-34A and BQM-34F vehicles. Monostatic data are presented in Part a, ten and twenty degree bistatic data are presented in Part b and thirty degree bistatic data are presented in Part c.

A description of the measurement conditions is presented in Part a, Section II. The target drone measurement programs were requested by the U. S. Army Missile Command (AMSNI-RER), Redstone Arsenal, Alabama.

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 1

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
8	1025A	5500	HH	0°	0°	30°	BQM-34A, RCS
9	1025G	5500	HH	0	0	30	BQM-34A, Glint
10	1023A	5500	VV	0	0	30	BQM-34A, RCS
11	1023G	5500	VV	0	0	30	BQM-34A, Glint
12	1024A	5500	VH	0	0	30	BQM-34A, RCS
13	1024G	5500	VH	0	0	30	BQM-34A, Glint
14	1026A	5500	HH	0	30	30	BQM-34A, RCS
15	1026G	5500	HH	0	30	30	BQM-34A, Glint
16	1028A	5500	VV	0	30	30	BQM-34A, RCS
17	1028G	5500	VV	0	30	30	BQM-34A, Glint
18	1027A	5500	VH	0	30	30	BQM-34A, RCS
19	1027G	5500	VH	0	30	30	BQM-34A, Glint
20	1031A	5500	HH	0	60	30	BQM-34A, RCS
21	1031G	5500	HH	0	60	30	BQM-34A, Glint
22	1029A	5500	VV	0	60	30	BQM-34A, RCS
23	1029G	5500	VV	0	60	30	BQM-34A, Glint
24	1030A	5500	VH	0	60	30	BQM-34A, RCS
25	1030G	5500	VH	0	60	30	BQM-34A, Glint
26	1032A	5500	HH	0	90	30	BQM-34A, RCS
27	1032G	5500	HH	0	90	30	BQM-34A, Glint
28	1034A	5500	VV	0	90	30	BQM-34A, RCS
29	1034G	5500	VV	0	90	30	BQM-34A, Glint
30	1033A	5500	VH	0	90	30	BQM-34A, RCS
31	1033G	5500	VH	0	90	30	BQM-34A, Glint
32	1012A	5500	HH	10	0	30	BQM-34A, RCS
33	1012G	5500	HH	10	0	30	BQM-34A, Glint
34	1014A	5500	VV	10	0	30	BQM-34A, RCS
35	1014G	5500	VV	10	0	30	BQM-34A, Glint
36	1013A	5500	VH	10	0	30	BQM-34A, RCS
37	1013G	5500	VH	10	0	30	BQM-34A, Glint
38	1017A	5500	HH	10	30	30	BQM-34A, RCS
39	1017G	5500	HH	10	30	30	BQM-34A, Glint

CONTROL NUMBER 72-17

Table I

DATA PLOT INDEX

Sheet 2

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
40	1015A	5500	VV	10	30	30	BQM-34A, RCS
41	1015G	5500	VV	10	30	30	BQM-34A, Glint
42	1016A	5500	VH	10	30	30	BQM-34A, RCS
43	1016G	5500	VH	10	30	30	BQM-34A, Glint
44	1018A	5500	HH	10	60	30	BQM-34A, RCS
45	1018G	5500	HH	10	60	30	BQM-34A, Glint
46	1020A	5500	VV	10	60	30	BQM-34A, RCS
47	1020G	5500	VV	10	60	30	BQM-34A, Glint
48	1019A	5500	VH	10	60	30	BQM-34A, RCS
49	1019G	5500	VH	10	60	30	BQM-34A, Glint
50	997A	5500	HH	10	90	30	BQM-34A, RCS
51	997G	5500	HH	10	90	30	BQM-34A, Glint
52	995A	5500	VV	10	90	30	BQM-34A, RCS
53	995G	5500	VV	10	90	30	BQM-34A, Glint
54	996A	5500	VH	10	90	30	BQM-34A, RCS
55	996G	5500	VH	10	90	30	BQM-34A, Glint
56	1011A	5500	HH	20	0	30	BQM-34A, RCS
57	1011G	5500	HH	20	0	30	BQM-34A, Glint
58	1009A	5500	VV	20	0	30	BQM-34A, RCS
59	1009G	5500	VV	20	0	30	BQM-34A, Glint
60	1010A	5500	VH	20	0	30	BQM-34A, RCS
61	1010G	5500	VH	20	0	30	BQM-34A, Glint
62	1006A	5500	HH	20	30	30	BQM-34A, RCS
63	1006G	5500	HH	20	30	30	BQM-34A, Glint
64	1008A	5500	VV	20	30	30	BQM-34A, RCS
65	1008G	5500	VV	20	30	30	BQM-34A, Glint
66	1007A	5500	VH	20	30	30	BQM-34A, RCS
67	1007G	5500	VH	20	30	30	BQM-34A, Glint
68	1005A	5500	HH	20	60	30	BQM-34A, RCS
69	1005G	5500	HH	20	60	30	BQM-34A, Glint
70	1003A	5500	VV	20	60	30	BQM-34A, RCS
71	1003G	5500	VV	20	60	30	BQM-34A, Glint

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 3

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
72	1004A	5500	VH	20°	60°	30°	BQM-34A, RCS
73	1004G	5500	VH	20	60	30	BQM-34A, Glint
74	998A	5500	HH	20	90	30	BQM-34A, RCS
75	998G	5500	HH	20	90	30	BQM-34A, Glint
76	1000A	5500	VV	20	90	30	BQM-34A, RCS
77	1000G	5500	VV	20	90	30	BQM-34A, Glint
78	999A	5500	VH	20	90	30	BQM-34A, RCS
79	999G	5500	VH	20	90	30	BQM-34A, Glint
80	987A	5500	HH	30	0	30	BQM-34A, RCS
81	987G	5500	HH	30	0	30	BQM-34A, Glint
82	989A	5500	VV	30	0	30	BQM-34A, RCS
83	989G	5500	VV	30	0	30	BQM-34A, Glint
84	988A	5500	VH	30	0	30	BQM-34A, RCS
85	988G	5500	VH	30	0	30	BQM-34A, Glint
86	983A	5500	HH	30	30	30	BQM-34A, RCS
87	983G	5500	HH	30	30	30	BQM-34A, Glint
88	981A	5500	VV	30	30	30	BQM-34A, RCS
89	981G	5500	VV	30	30	30	BQM-34A, Glint
90	982A	5500	VH	30	30	30	BQM-34A, RCS
91	982G	5500	VH	30	30	30	BQM-34A, Glint
92	992A	5500	HH	30	60	30	BQM-34A, RCS
93	992G	5500	HH	30	60	30	BQM-34A, Glint
94	990A	5500	VV	30	60	30	BQM-34A, RCS
95	990G	5500	VV	30	60	30	BQM-34A, Glint
96	991A	5500	VH	30	60	30	BQM-34A, RCS
97	991G	5500	VH	30	60	30	BQM-34A, Glint
98	978A	5500	HH	30	90	30	BQM-34A, RCS
99	978G	5500	HH	30	90	30	BQM-34A, Glint
100	980A	5500	VV	30	90	30	BQM-34A, RCS
101	980G	5500	VV	30	90	30	BQM-34A, Glint
102	979A	5500	VH	30	90	30	BQM-34A, RCS
103	979G	5500	VH	30	90	30	BQM-34A, Glint

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 4

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
104	1041A	5500	HH	0°	0°	30°	BQM-34F, RCS
105	1041G	5500	HH	0	0	30	BQM-34F, Glint
106	1039A	5500	VV	0	0	30	BQM-34F, RCS
107	1039G	5500	VV	0	0	30	BQM-34F, Glint
108	1040A	5500	VH	0	0	30	BQM-34F, RCS
109	1040G	5500	VH	0	0	30	BQM-34F, Glint
110	1042A	5500	HH	0	30	30	BQM-34F, RCS
111	1042G	5500	HH	0	30	30	BQM-34F, Glint
112	1044A	5500	VV	0	30	30	BQM-34F, RCS
113	1044G	5500	VV	0	30	30	BQM-34F, Glint
114	1043A	5500	VH	0	30	30	BQM-34F, RCS
115	1043G	5500	VH	0	30	30	BQM-34F, Glint
116	1047A	5500	HH	0	60	30	BQM-34F, RCS
117	1047G	5500	HH	0	60	30	BQM-34F, Glint
118	1045A	5500	VV	0	60	30	BQM-34F, RCS
119	1045G	5500	VV	0	60	30	BQM-34F, Glint
120	1046A	5500	VH	0	60	30	BQM-34F, RCS
121	1046G	5500	VH	0	60	30	BQM-34F, Glint
122	1048A	5500	HH	0	90	30	BQM-34F, RCS
123	1048G	5500	HH	0	90	30	BQM-34F, Glint
124	1050A	5500	VV	0	90	30	BQM-34F, RCS
125	1050G	5500	VV	0	90	30	BQM-34F, Glint
126	1049A	5500	VH	0	90	30	BQM-34F, RCS
127	1049G	5500	VH	0	90	30	BQM-34F, Glint
128	1060A	5500	HH	10	0	30	BQM-34F, RCS
129	1060G	5500	HH	10	0	30	BQM-34F, Glint
130	1062A	5500	VV	10	0	30	BQM-34F, RCS
131	1062G	5500	VV	10	0	30	BQM-34F, Glint
132	1061A	5500	VH	10	0	30	BQM-34F, RCS
133	1061G	5500	VH	10	0	30	BQM-34F, Glint
134	1059A	5500	HH	10	30	30	BQM-34F, RCS
135	1059G	5500	HH	10	30	30	BQM-34F, Glint

CONTROL NUMBER 72-17

Table I

DATA PLOT INDEX

Sheet 5

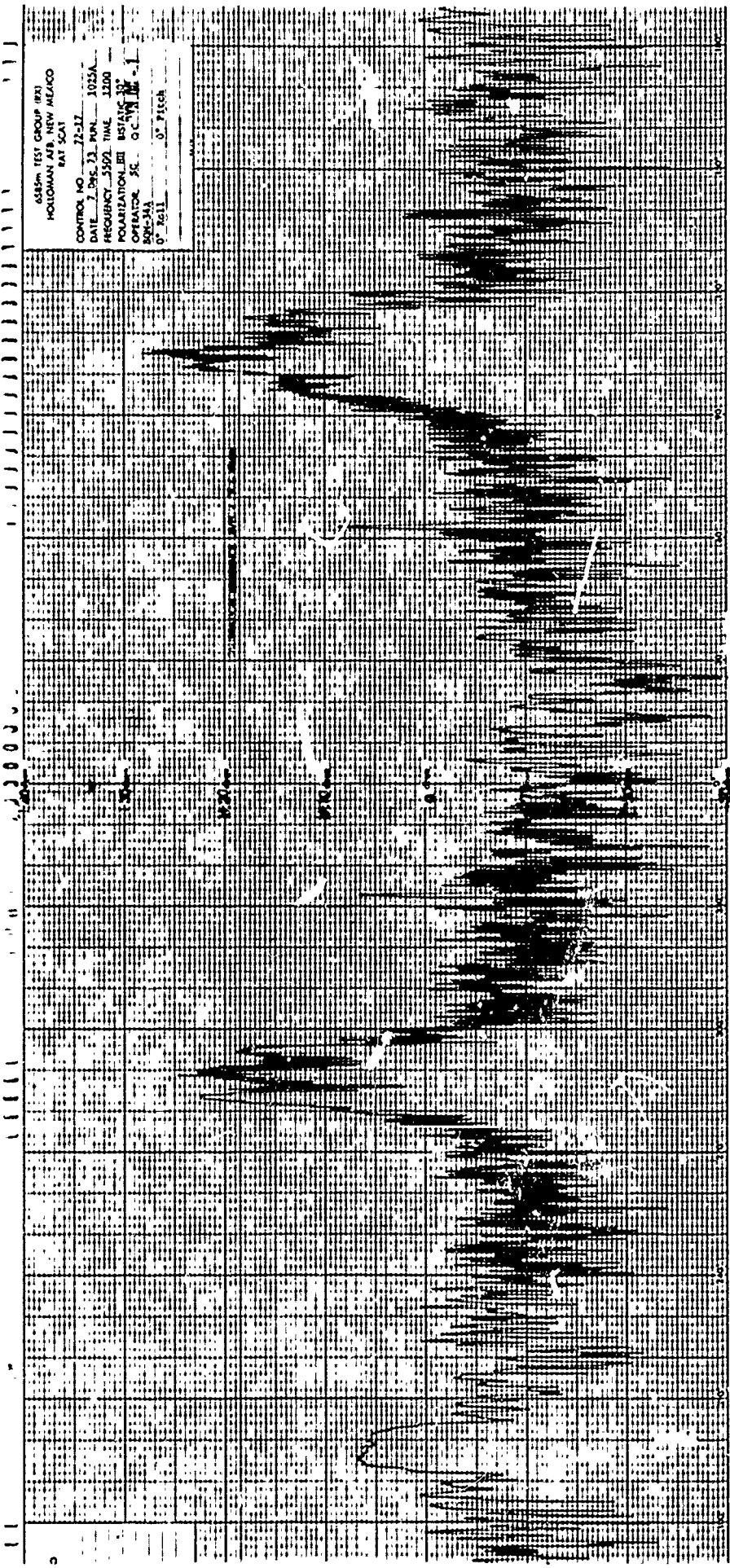
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136	1057A	5500	VV	10°	30°	30°	BQM-34F, RCS
137	1057G	5500	VV	10	30	30	BQM-34F, Glint
138	1058A	5500	VH	10	30	30	BQM-34F, RCS
139	1058G	5500	VH	10	30	30	BQM-34F, Glint
140	1054A	5500	HH	10	60	30	BQM-34F, RCS
141	1054G	5500	HH	10	60	30	BQM-34F, Glint
142	1056A	5500	VV	10	60	30	BQM-34F, RCS
143	1056G	5500	VV	10	60	30	BQM-34F, Glint
144	1055A	5500	VH	10	60	30	BQM-34F, RCS
145	1055G	5500	VH	10	60	30	BQM-34F, Glint
146	1053A	5500	HH	10	90	30	BQM-34F, RCS
147	1053G	5500	HH	10	90	30	BQM-34F, Glint
148	1051A	5500	VV	10	90	30	BQM-34F, RCS
149	1051G	5500	VV	10	90	30	BQM-34F, Glint
150	1052A	5500	VH	0	90	30	BQM-34F, RCS
151	1052G	5500	VH	10	90	30	BQM-34F, Glint
152	1065A	5500	HH	20	0	30	BQM-34F, RCS
153	1065G	5500	HH	20	0	30	BQM-34F, Glint
154	1067A	5500	VV	20	0	30	BQM-34F, RCS
155	1067G	5500	VV	20	0	30	BQM-34F, Glint
156	1066A	5500	VH	20	0	30	BQM-34F, RCS
157	1066G	5500	VH	20	0	30	BQM-34F, Glint
158	1078A	5500	HH	20	30	30	BQM-34F, RCS
159	1078G	5500	HH	20	30	30	BQM-34F, Glint
160	1076A	5500	VV	20	30	30	BQM-34F, RCS
161	1076G	5500	VV	20	30	30	BQM-34F, Glint
162	1077A	5500	VH	20	30	30	BQM-34F, RCS
163	1077G	5500	VH	20	30	30	BQM-34F, Glint
164	1070A	5500	HH	20	60	30	BQM-34F, RCS
165	1070G	5500	HH	20	60	30	BQM-34F, Glint
166	1068A	5500	VV	20	60	30	BQM-34F, RCS
167	1068G	5500	VV	20	60	30	BQM-34F, Glint
168	1069A	5500	VH	20	60	30	BQM-34F, RCS
169	1069G	5500	VH	20	60	30	BQM-34F, Glint

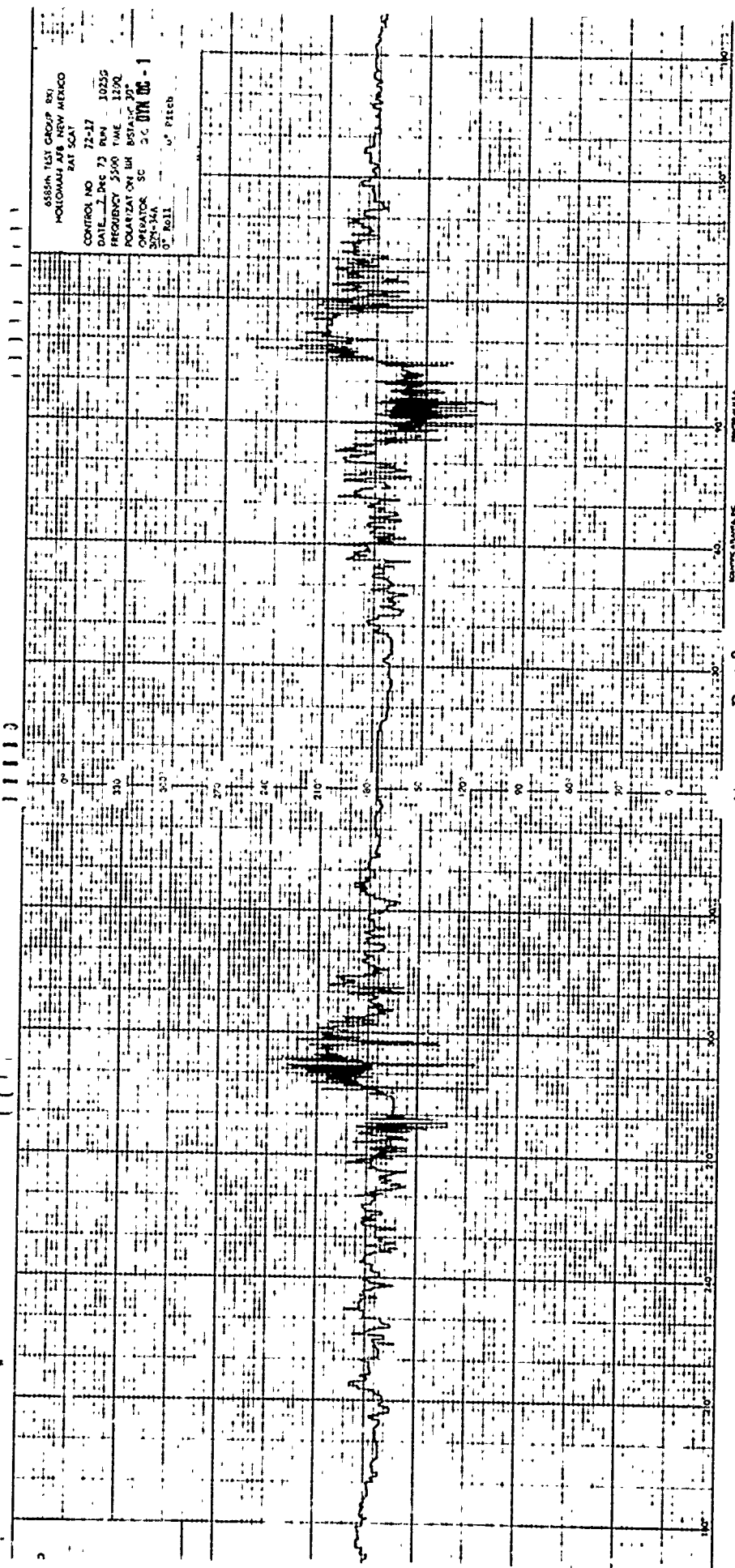
CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 6

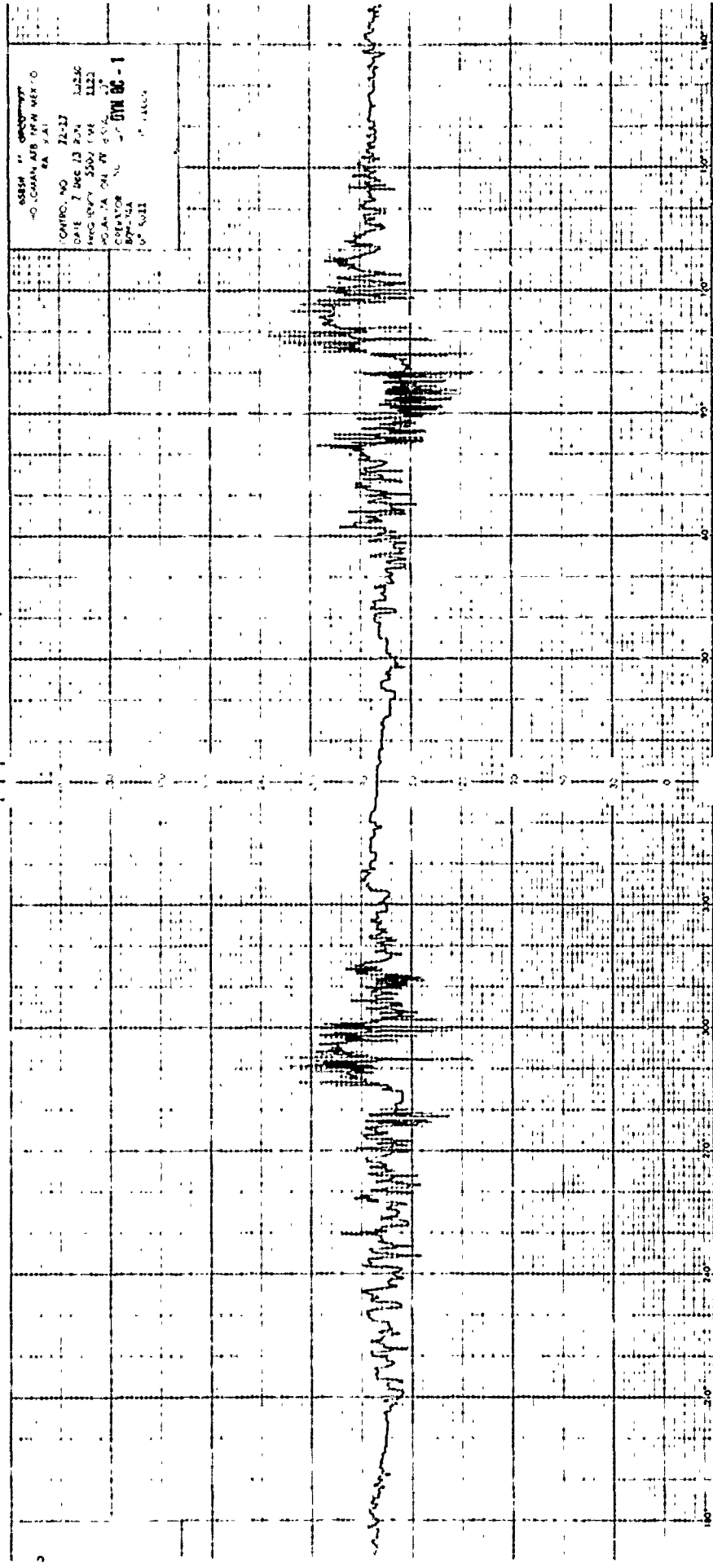
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171	1073G	5500	HH	20	90	30	BQM-34F, Glint
172	1075A	5500	VV	20	90	30	BQM-34F, RCS
173	1075G	5500	VV	20	90	30	BQM-34F, Glint
174	1074A	5500	VH	20	90	30	BQM-34F, RCS
175	1074G	5500	VH	20	90	30	BQM-34F, Glint
176	1093A	5500	HH	30	0	30	BQM-34F, RCS
177	1093G	5500	HH	30	0	30	BQM-34F, Glint
178	1095A	5500	VV	30	0	30	BQM-34F, RCS
179	1095G	5500	VV	30	0	30	BQM-34F, Glint
180	1094A	5500	VH	30	0	30	BQM-34F, RCS
181	1094G	5500	VH	30	0	30	BQM-34F, Glint
182	1092A	5500	HH	30	30	30	BQM-34F, RCS
183	1092G	5500	HH	30	30	30	BQM-34F, Glint
184	1090A	5500	VV	30	30	30	BQM-34F, RCS
185	1090G	5500	VV	30	30	30	BQM-34F, Glint
186	1091A	5500	VH	30	30	30	BQM-34F, RCS
187	1091G	5500	VH	30	30	30	BQM-34F, Glint
188	1087A	5500	HH	30	60	30	BQM-34F, RCS
189	1087G	5500	HH	30	60	30	BQM-34F, Glint
190	1089A	5500	VV	30	60	30	BQM-34F, RCS
191	1089G	5500	VV	30	60	30	BQM-34F, Glint
192	1088A	5500	VH	30	60	30	BQM-34F, RCS
193	1088G	5500	VH	30	60	30	BQM-34F, Glint
194	1086A	5500	HH	30	90	30	BQM-34F, RCS
195	1086G	5500	HH	30	90	30	BQM-34F, Glint
196	1084A	5500	VV	30	90	30	BQM-34F, RCS
197	1084G	5500	VV	30	90	30	BQM-34F, Glint
198	1085A	5500	VH	30	90	30	BQM-34F, RCS
199	1085G	5500	VH	30	90	30	BQM-34F, Glint

6583m TEST GROUP (R3)
HOLLOMAN AFB, NEW MEXICO
EAT SCAT

CONTROL NO. 72-17
DATE 7 Dec 73 PUN. 1025A
FREQUENCY 5502 TIME 1200
POLARIZATION III ESTATIC 30°
OPERATOR SC. O.C. W. M. 1
SON-MA
0° Roll 0° Pitch







4545th TEST GROUP BK
 HOLLOMAN AIR FLD NEW MEXICO
 BAT SCAT
 CONTROL NO 22-17
 DATE 7 Dec 73 REP 102AA
 FREQUENCY 5500 TWT 1150
 POLARIZATION W
 OPERATOR JC
 G.C. 111 6-1
 1st Ball 2nd Filed

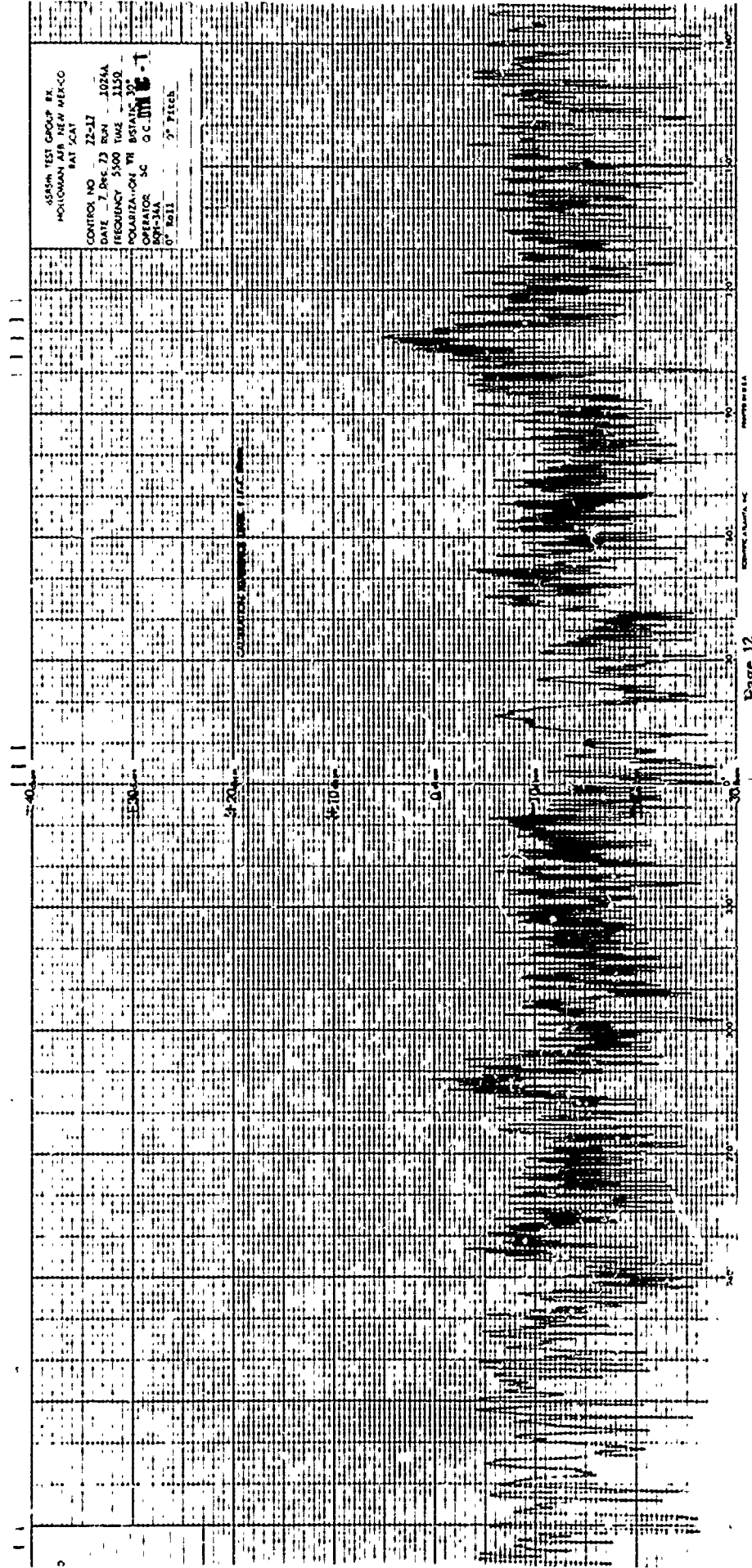
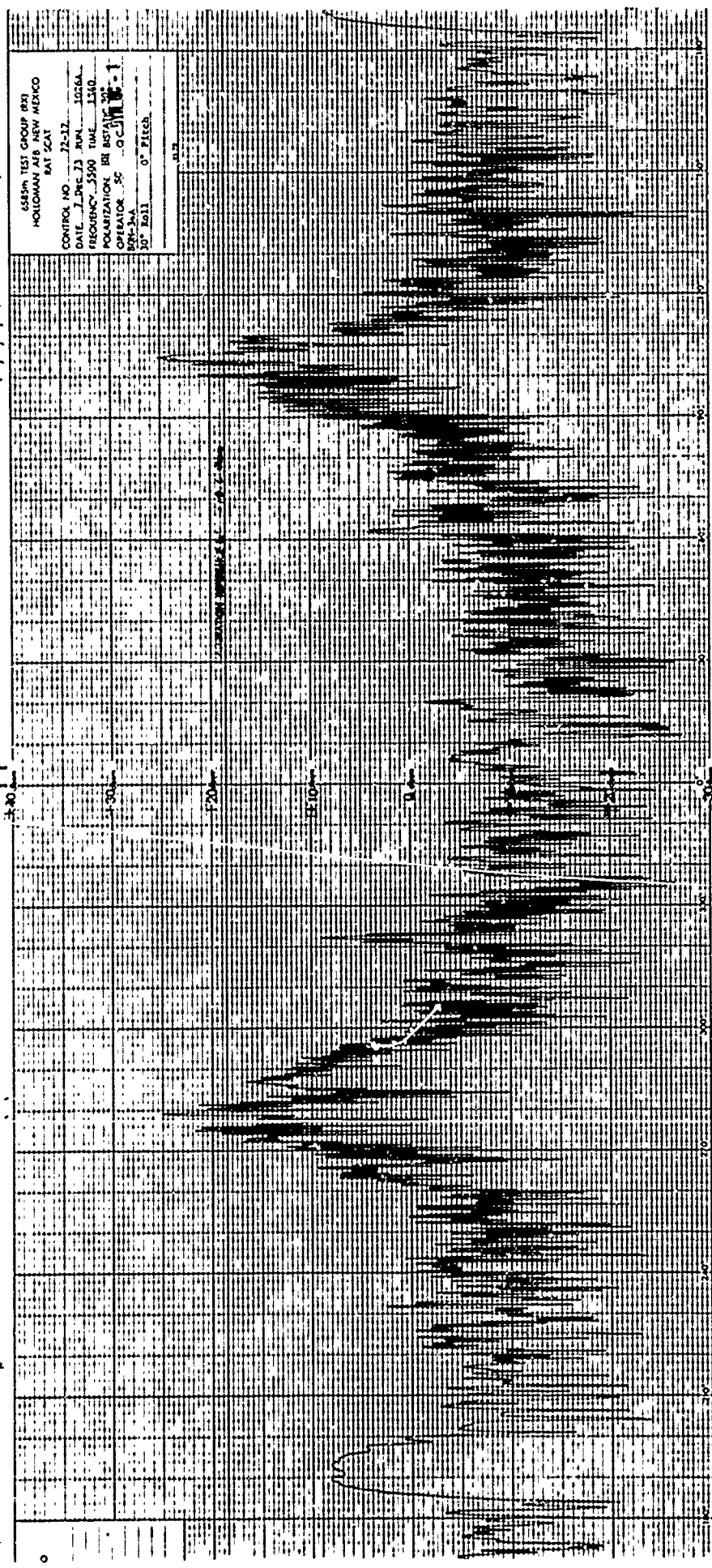


Figure 2-1

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6585th TEST GROUP (R3)
HOLLAMAN AFB NEW MEXICO
RAT SCAT

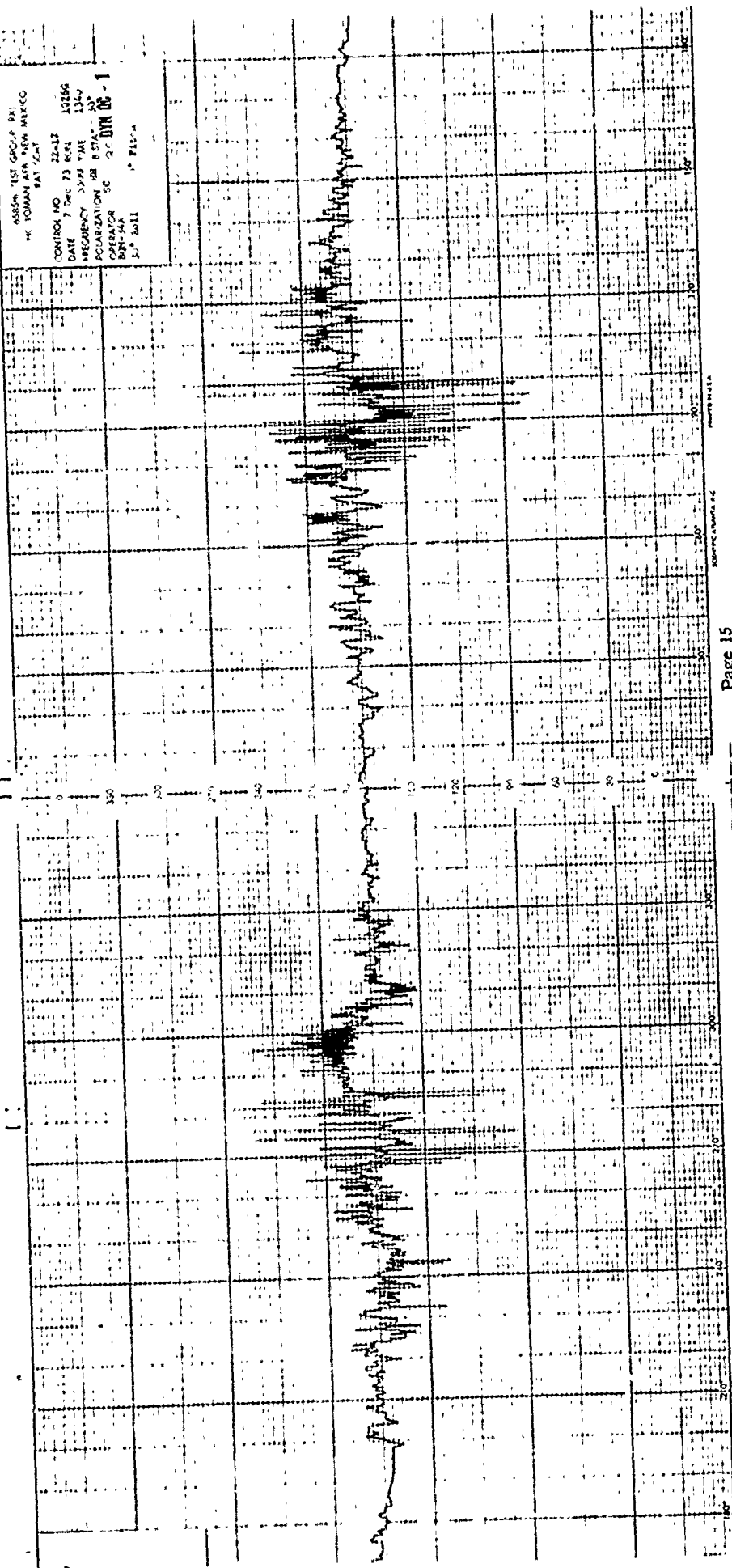
CONTROL NO. 72-37
DATE 7 Dec 73 RUN 1076A
FREQUENCY 3500 TIME 1340
POLARIZATION BE BISTATIC 30°
OPERATOR SC O C W B - 1
RPM-3A
30° Roll 0° Pitch



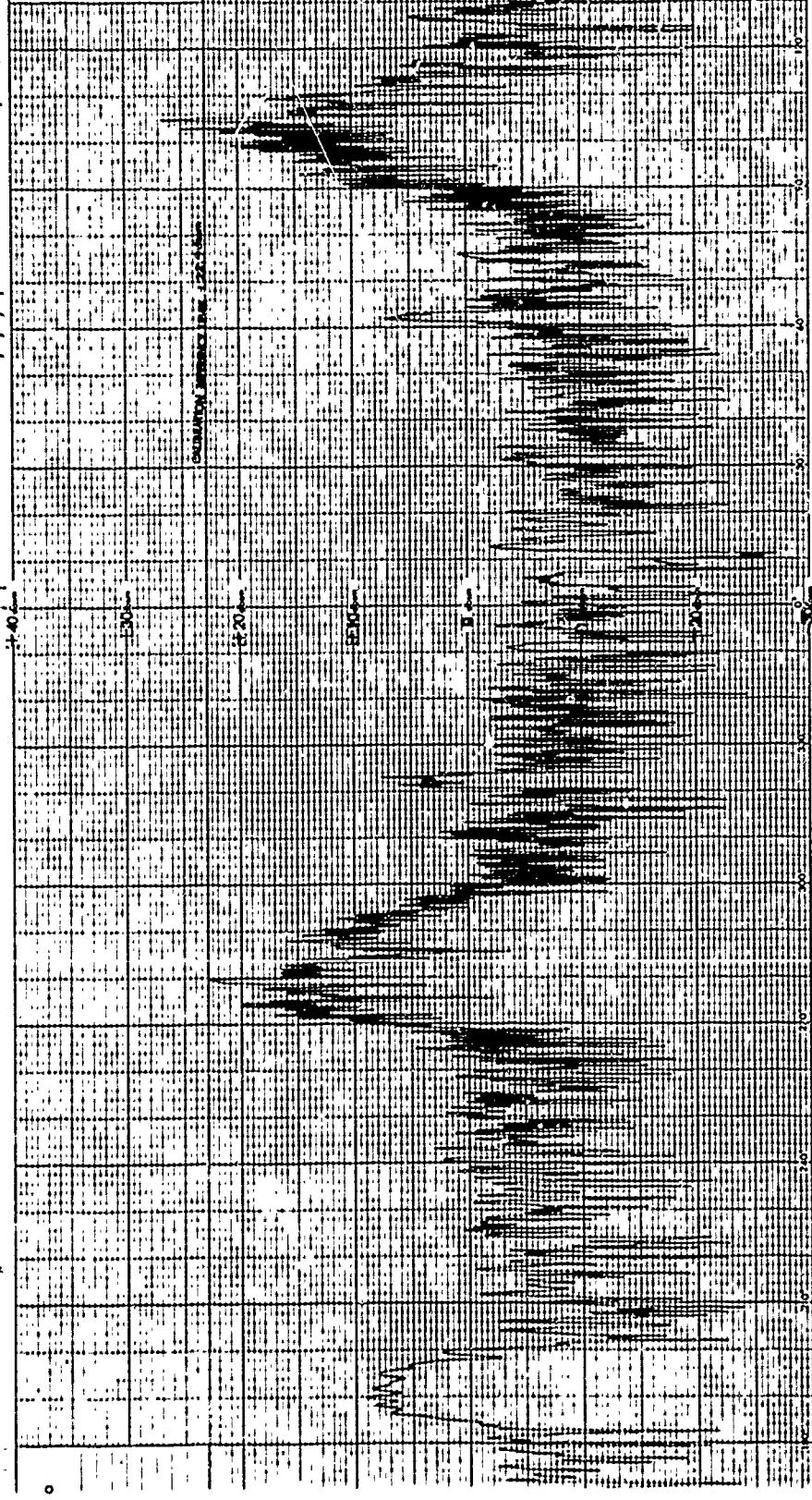
6585m TEST GROUP 94
 W. TOMAN LBN AREA WAKCO
 BAT 1/2"

CONTROL NO 22-13
 DATE 7 Dec 73 RCH 1226G
 FREQUENCY 3.570 MHz
 POLARIZATION RH EST
 OPERATOR SC 2 C
 BPH-4A
 2.0 5011 1.0 1011

01N 00-1



4550th TEST GROUP BY
 HOLCOMB AFB NEW MEXICO
 BAT SCAT
 CONTROL NO. 72-12
 DATE 7 MAR 71 PM 1028A
 FREQUENCY 5500 KHz
 POLARIZATION VV
 OPERATOR SC O C B I I
 80-21A
 10" Roll 9" Pitch



RECEIVED AT 1000 HRS

Page 16

ALSO TEST GROUP 25
HORIZONTAL AB NEW MEXICO
5A' 5A'

CONTROL NO. 22-17

DATE 7 MAY 73 P.M. 1118G

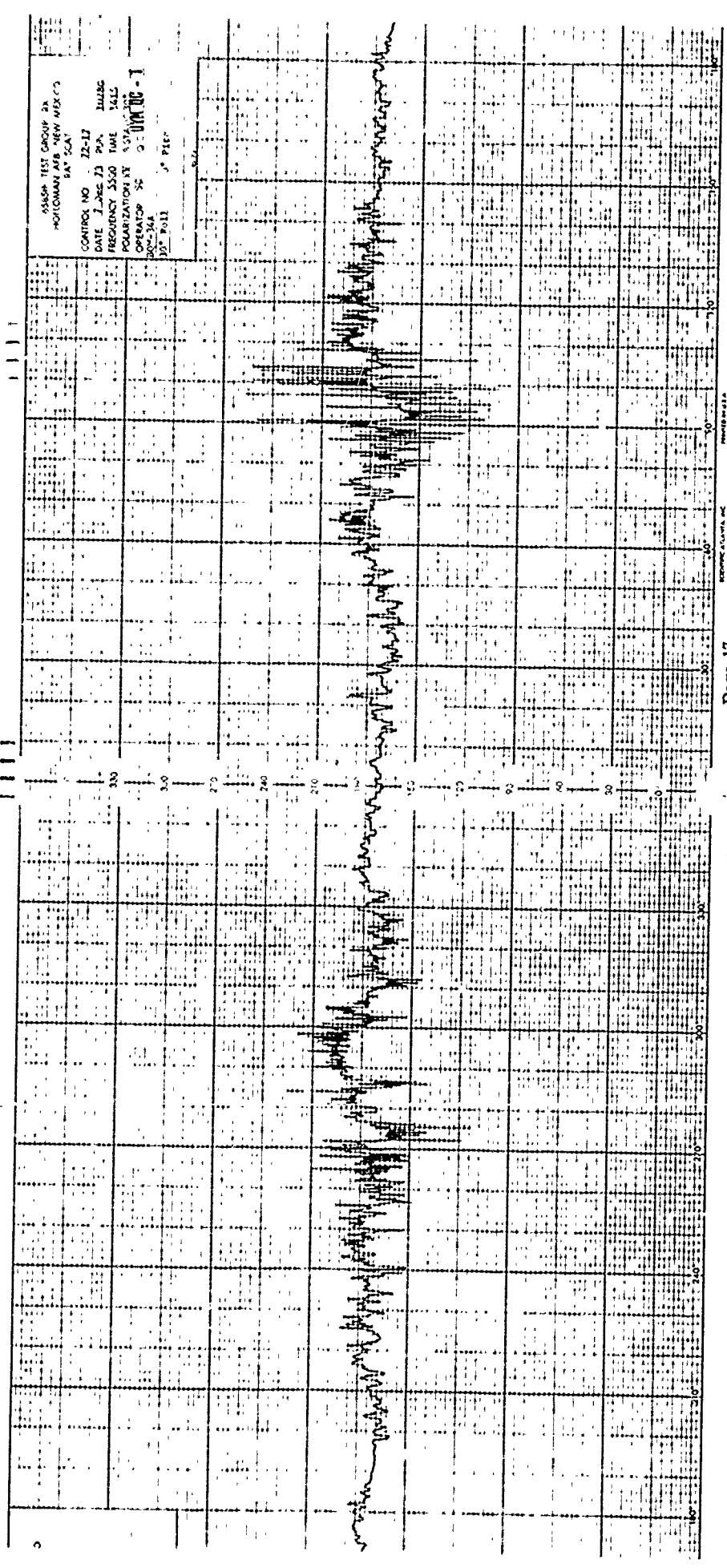
FREQUENCY 5500 TUBE 1415

POLARIZATION 5500

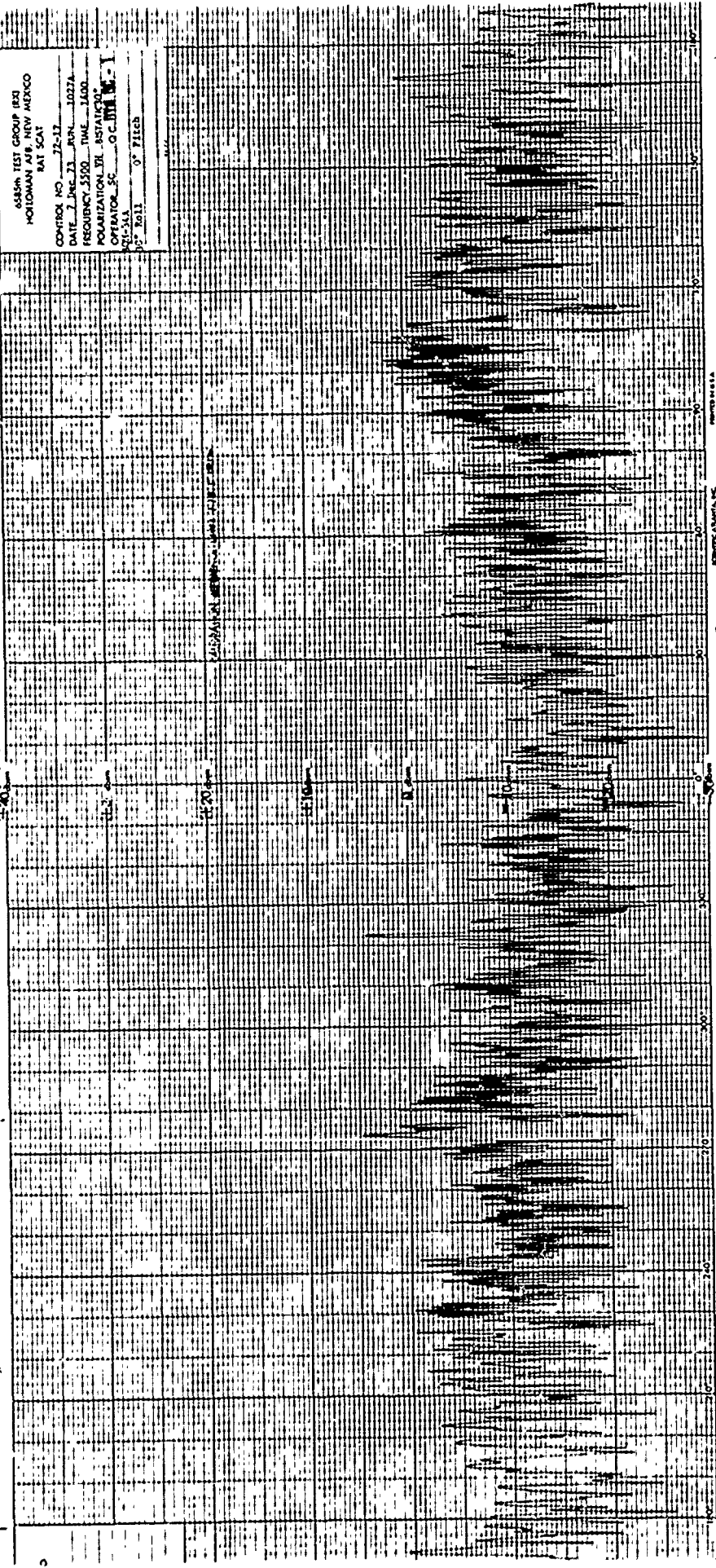
OPERATOR SC 000000-1

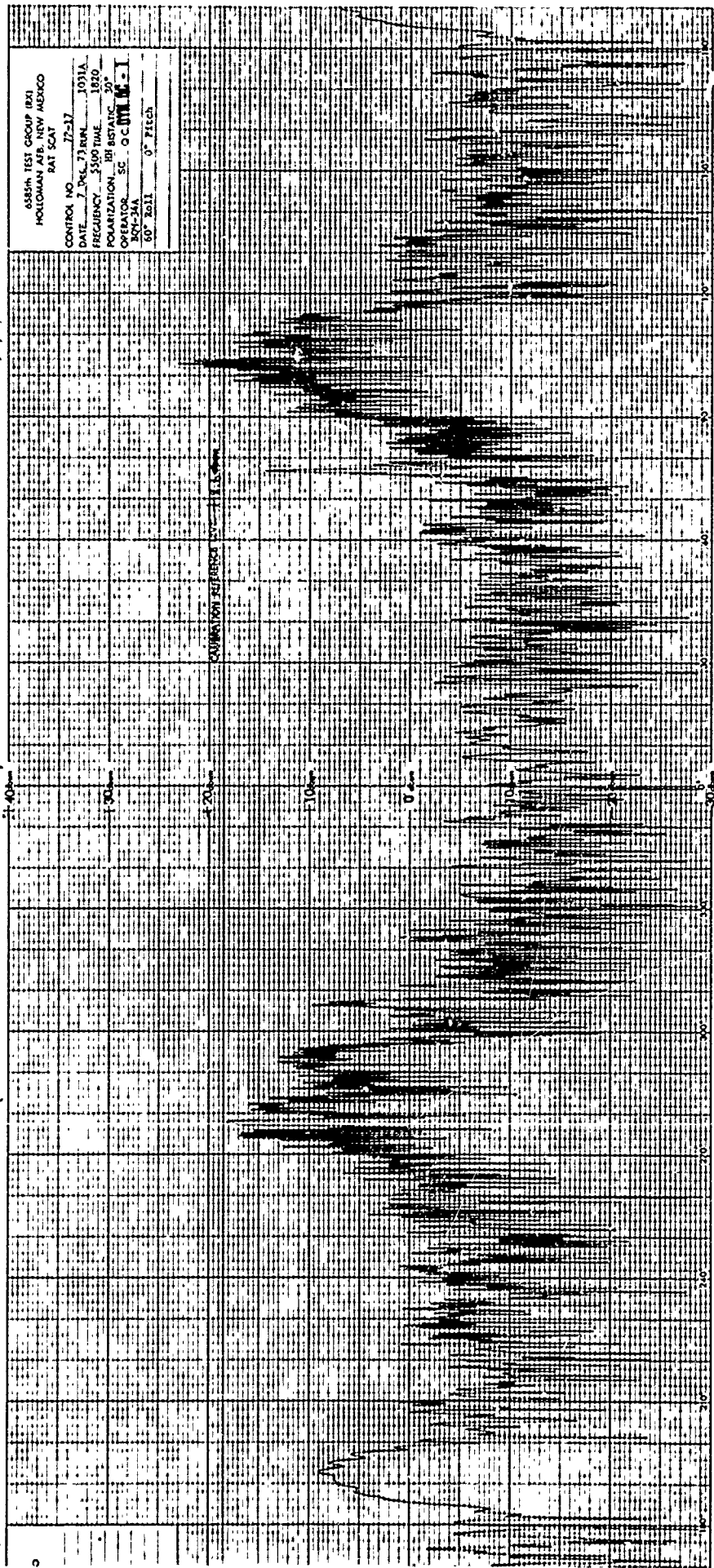
3000-3000

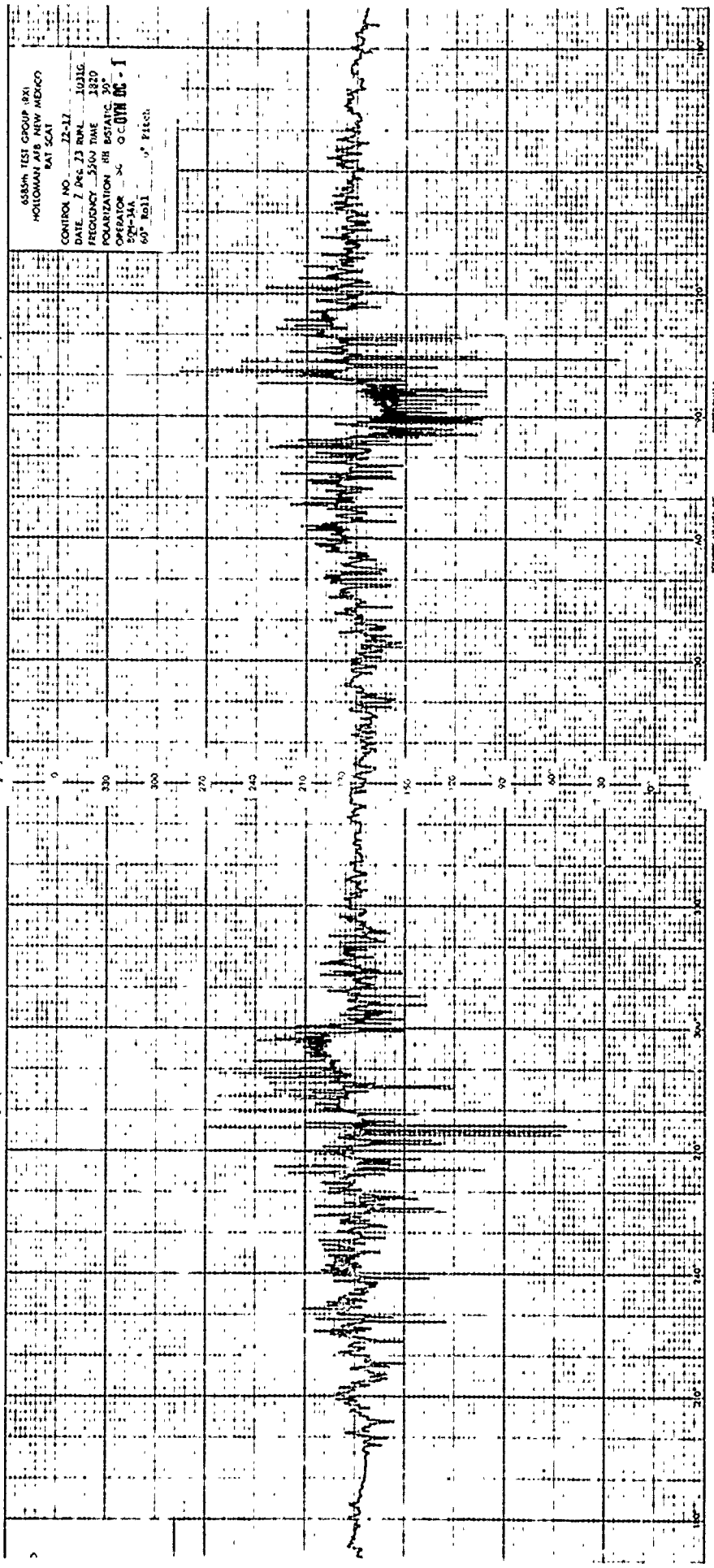
1000' Roll 5' Pitch



655PM TEST GROUP 183
 HOLLOMAN AFB, NEW MEXICO
 NAT SCAT
 CONTROL NO. 22-12
 DATE 1 DEC 73 RUN 1027A
 FREQUENCY 5500 MHz 1600
 POLARIZATION JR. 45/45/00
 OPERATOR JC GCM
 05-11 07 PITCH

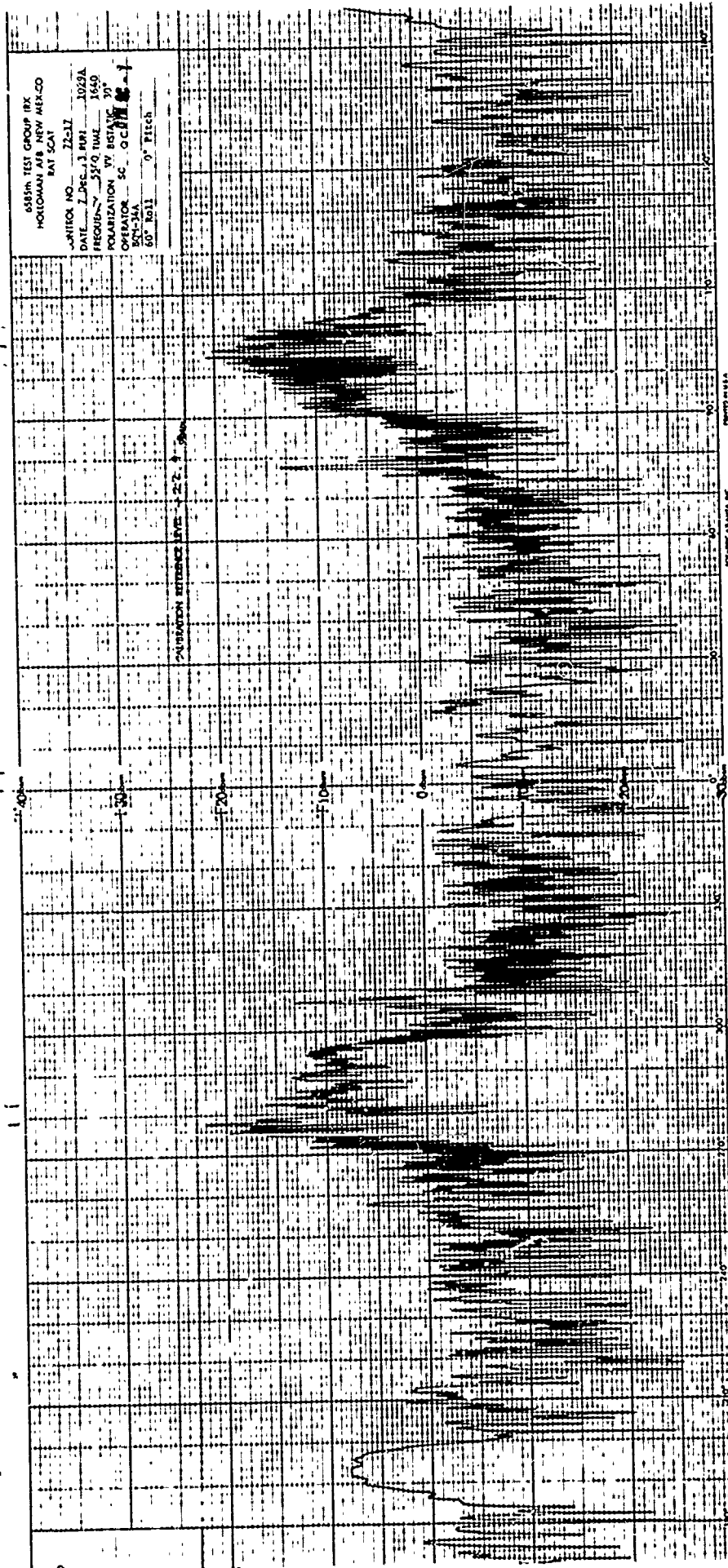


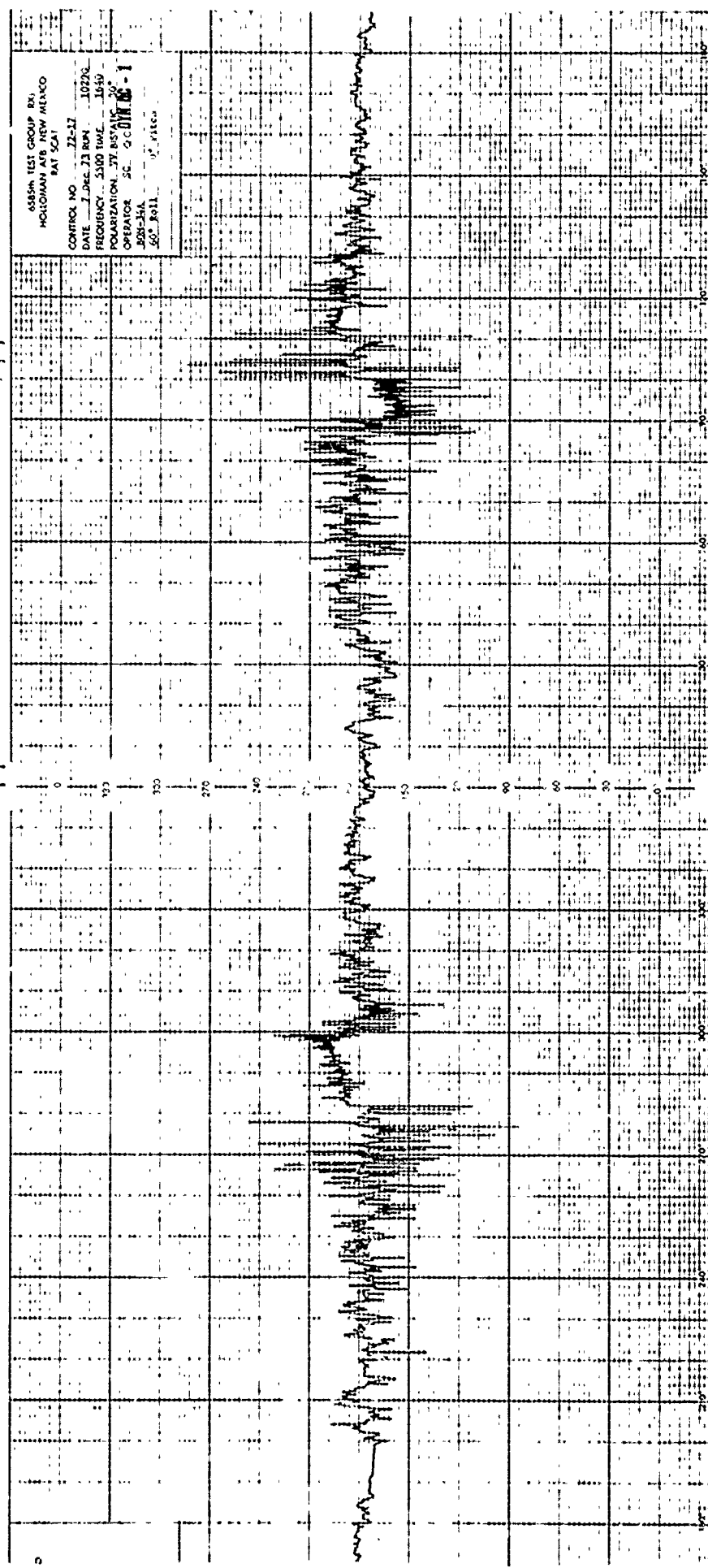


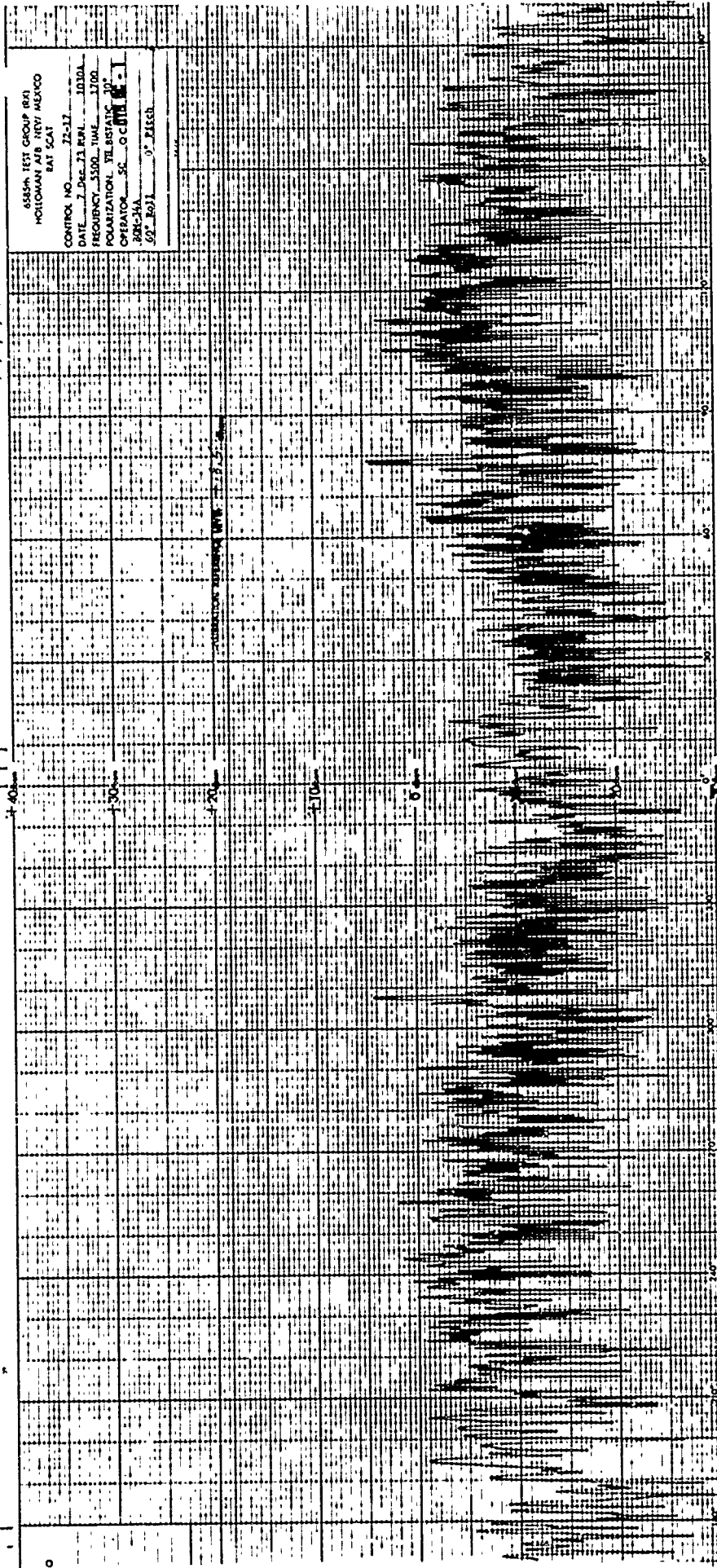


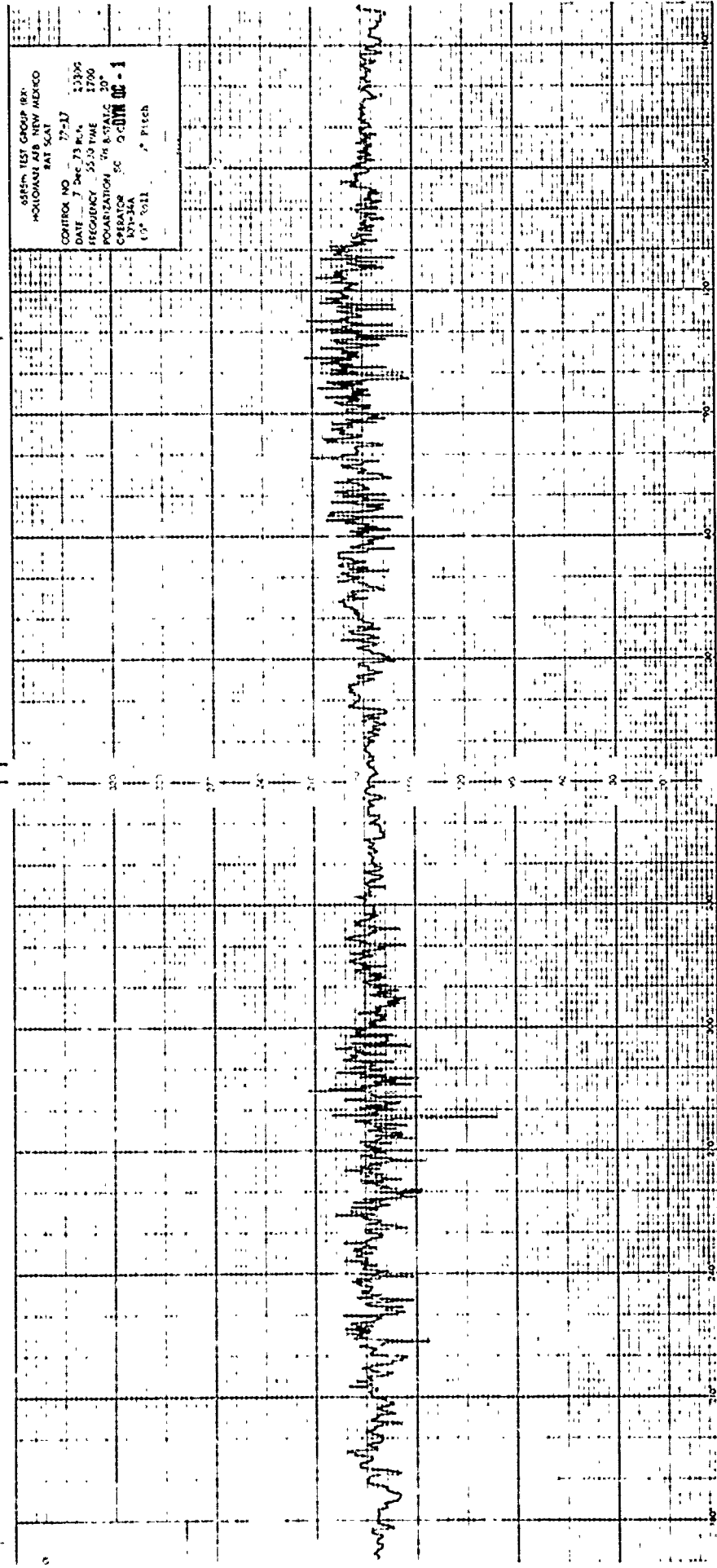
ASST. TEST GROUP 871
HOLLAND AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-17
DATE 7 Apr 73 RWL 1016G
FREQUENCY 3500 MHz 1820
POLARIZATION RH ESTATE 90°
OPERATOR SC OCTH DC - 1
500-44A
60° 4011 9° Pitch









855M TEST GROUP 8K
HOLCOMB LAB NEW MEXICO
BAT SCAT

CONTROL NO 77-17
DATE 7 Dec 73 PCN 13395
FREQUENCY 55.0 TME 1700
POLARIZATION 7/8 B-STATE 30°
OPERATOR SC OGDW DC - 1
N7N-JEA
10° 1011 9° Pitch

CONTROL NO. 72-17
DATE 7 Dec 73
FREQUENCY 5500 TIME 2030
POLARIZATION. NH DISTANCE 30°
OPERATOR W. C. B. J. C.
EQT-36A
90° Roll 0° Pitch

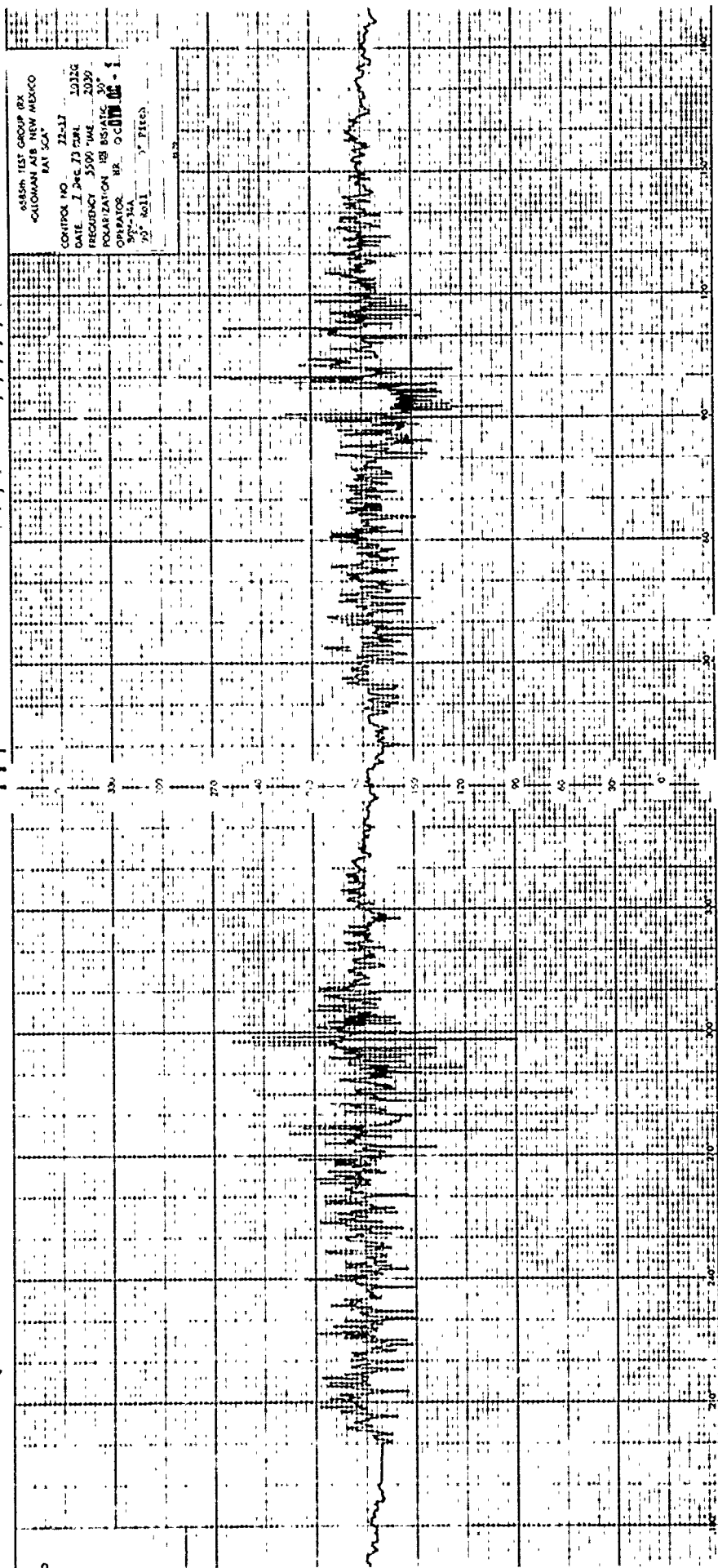
7121-740 POWER AC:Y:000

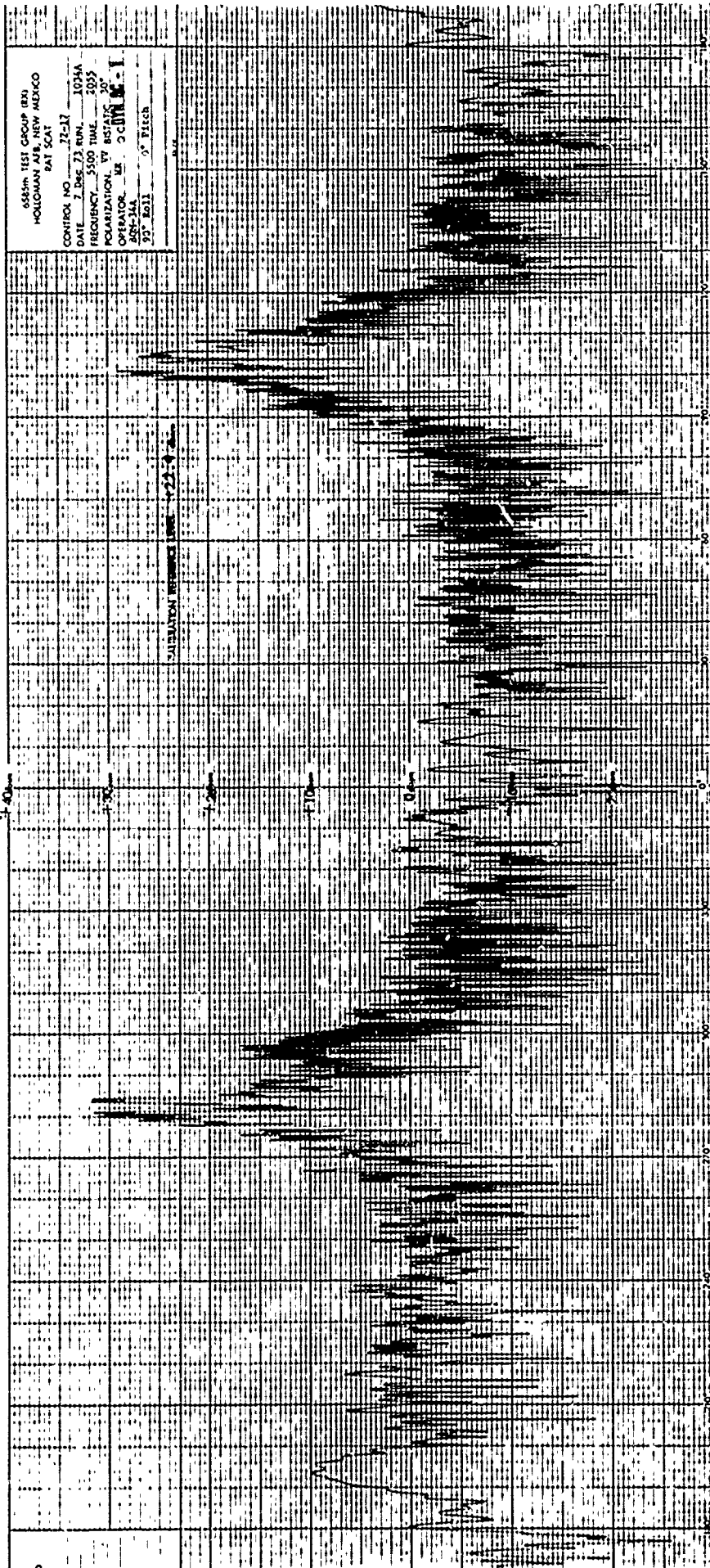
LINE CLOSURE

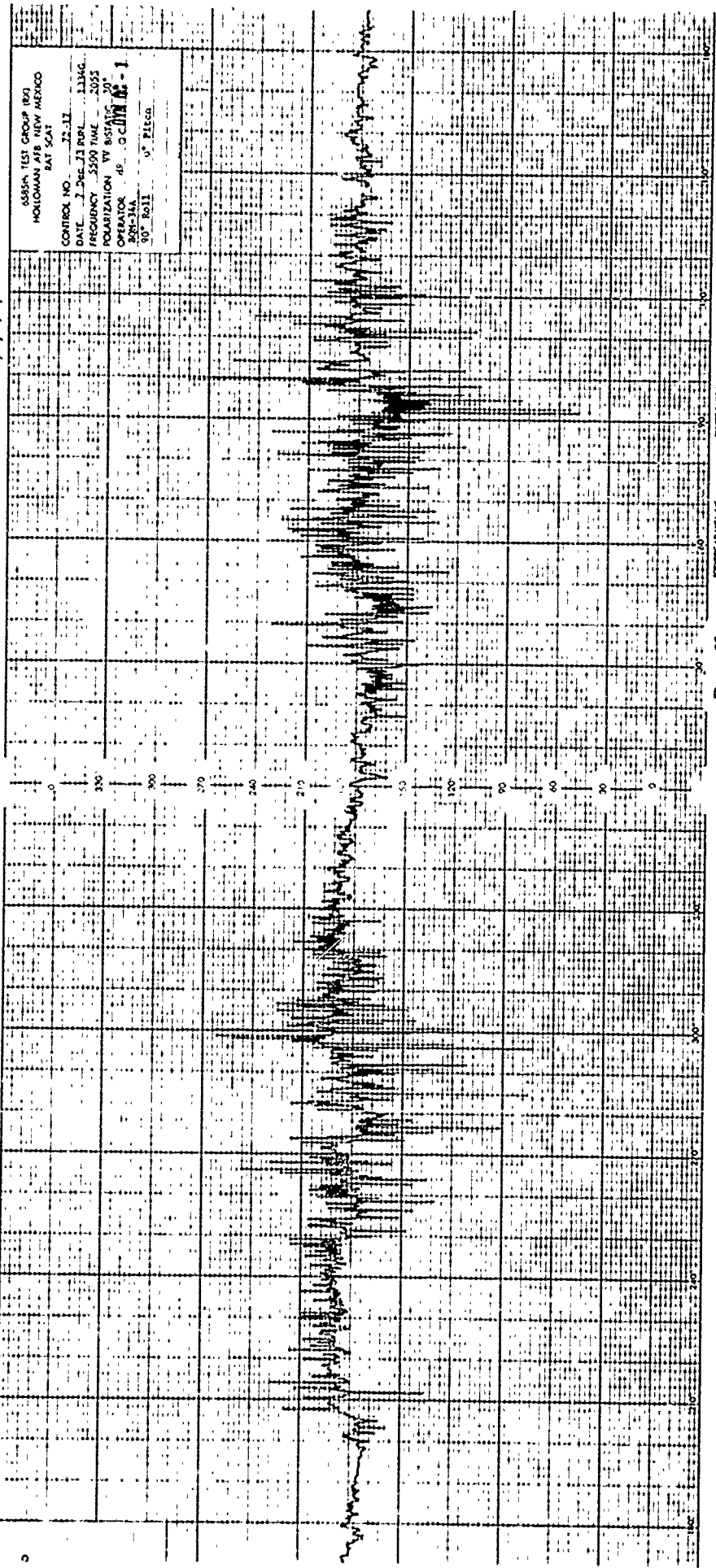
COMPTON APAC PTE. LTD.

0585th TEST GROUP (RX
CALLMAN ASB NEW MEXICO
RAY SCAR

CONTROL NO. 72-17
DATE 1 Dec 73
FREQUENCY 3500 MHz
POLARIZATION RH
OPERATOR
37-34
30-2011
1012G
1012G
30°
OCT 08 - 1
3° PILED



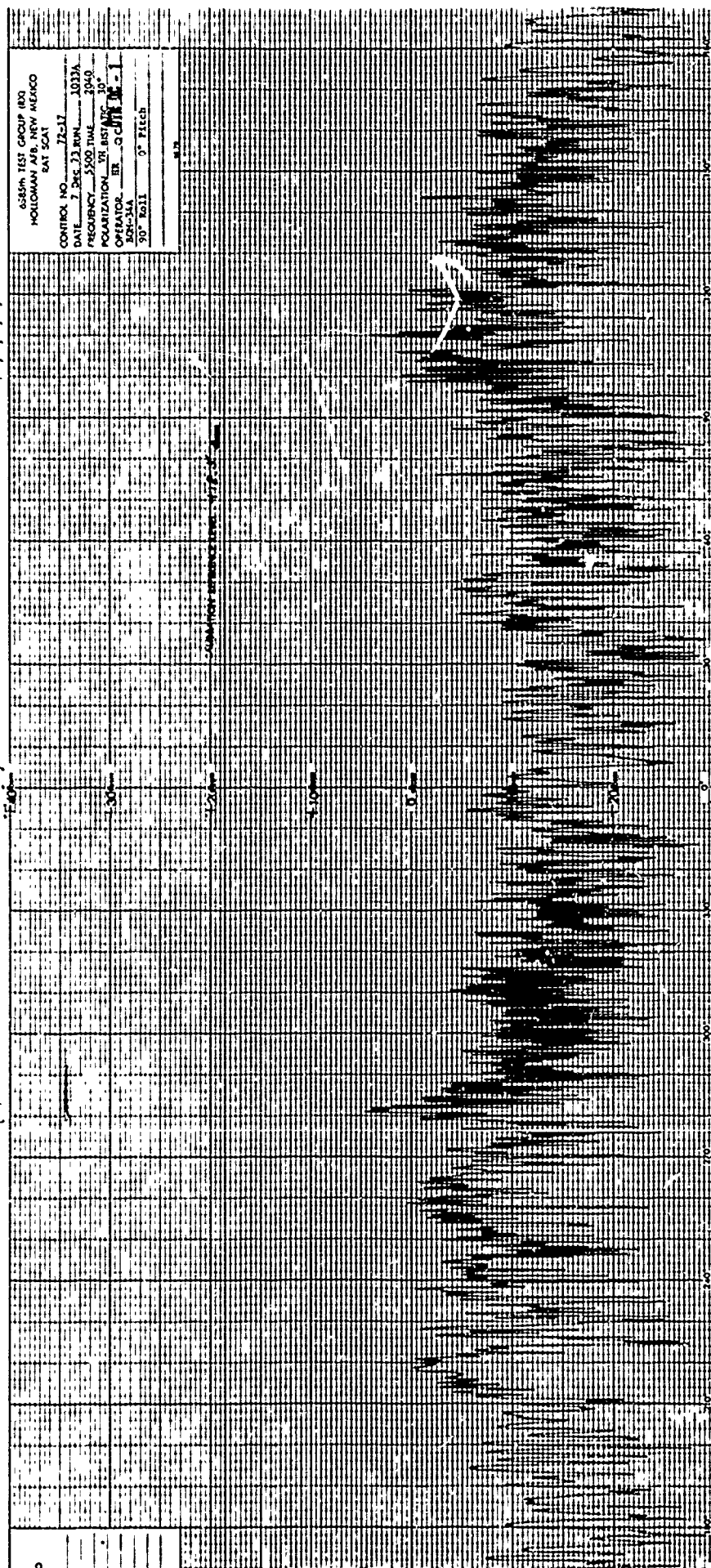




5555A TEST GROUP 1001
HOLLOMAN AFB NEW MEXICO
EAT SCAT
CONTROL NO. 72-12
DATE 7 Dec 73 PWL 1334G
FREQUENCY 5550 TML 2035
POLARIZATION W RSTATIC 20
OPERATOR AB GCMW AS-1
30N-3AA
30° Roll 0° Pitch

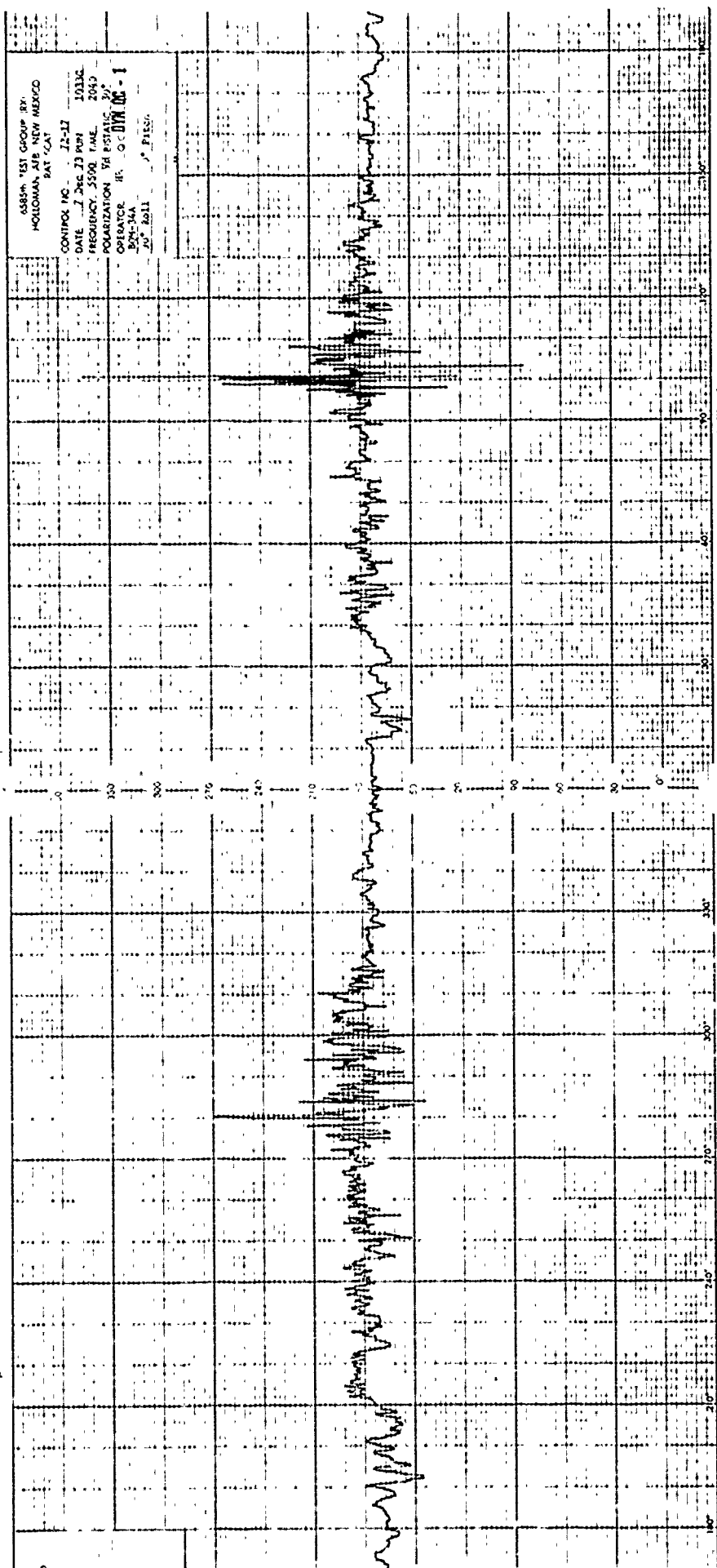
6585th TEST GROUP (BX)
HOLLOWAY AFB, NEW MEXICO
EAT SCAT

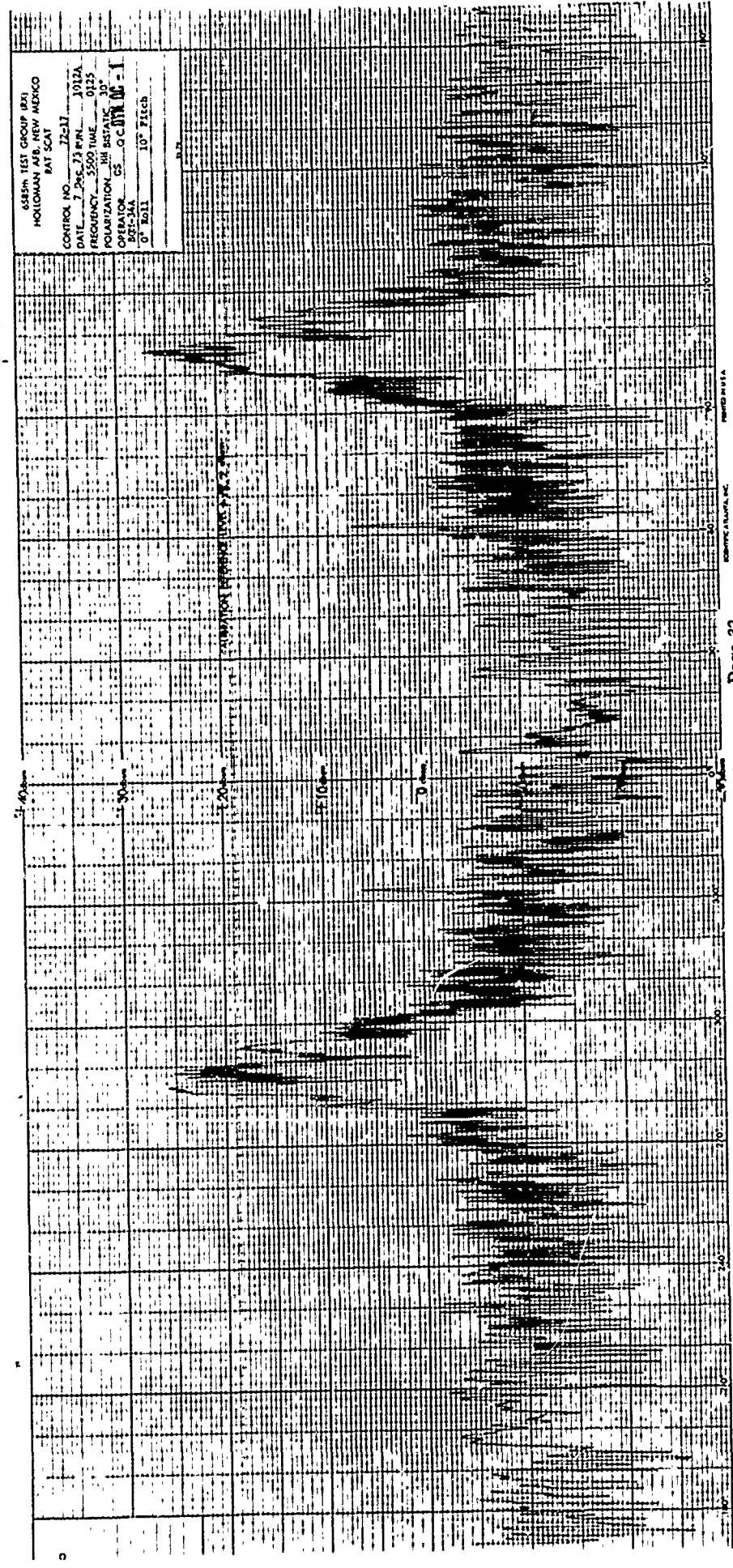
CONTROL NO. 72-17
DATE 7 Dec 73 RUN 1033A
FREQUENCY 5500 TIME 2040
POLARIZATION VERTICAL 30°
OPERATOR HR QC JMC - 1
804-34A
90° Roll 0° Pitch



6585th TEST GROUP (RX)
HOLLoman AFB NEW MEXICO
BAT CAT

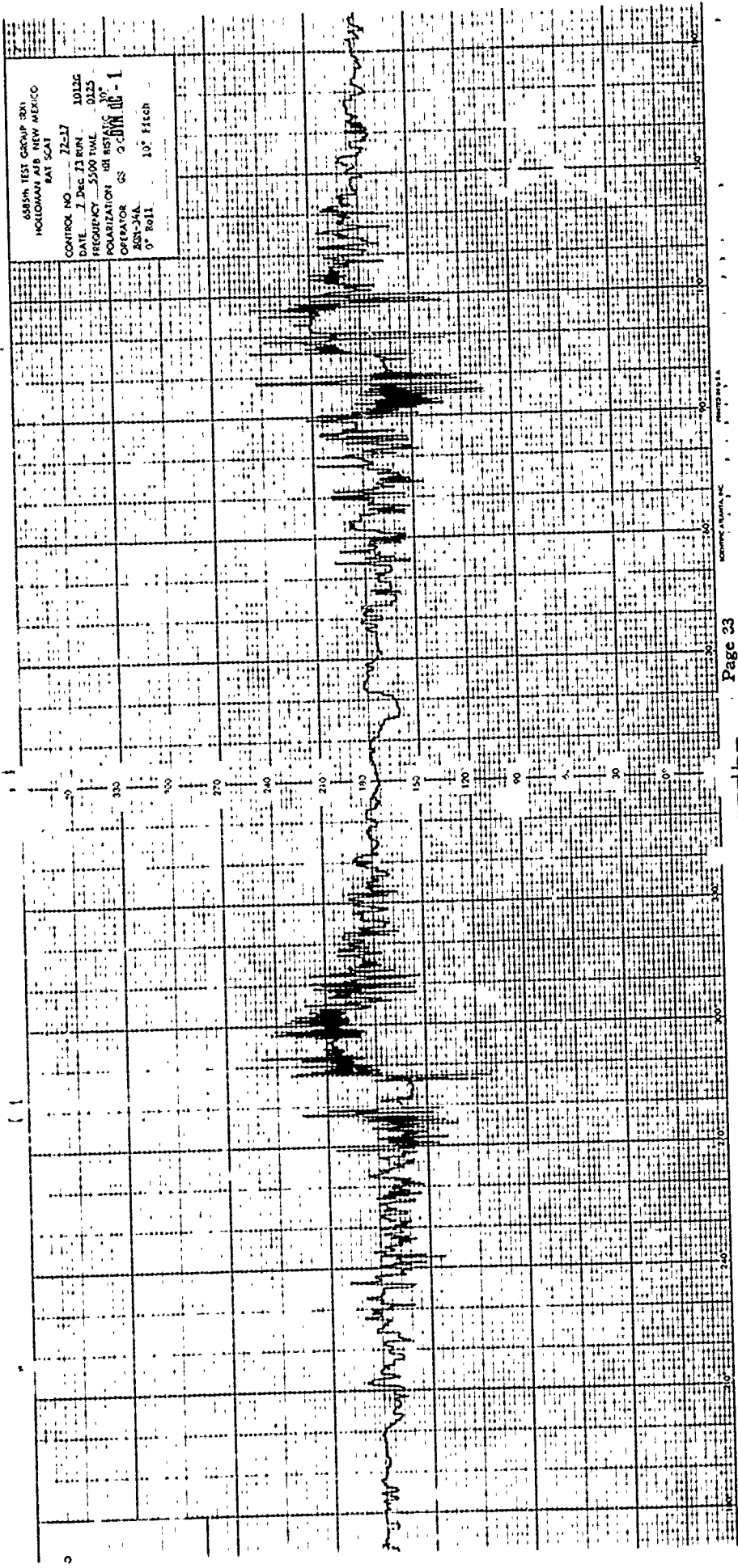
CONTROL NO. 12-17
DATE 1 Dec 73 PUN 1013G
FREQUENCY 5500 KMH 2040
POLARIZATION VERTICAL 30°
OPERATOR HF QCC DYN DC-1
BY 34A
SU 2011 ° P1254





ASST. TEST GROUP (BX)
HOLLAMAN AFB, NEW MEXICO
BAT SCAT

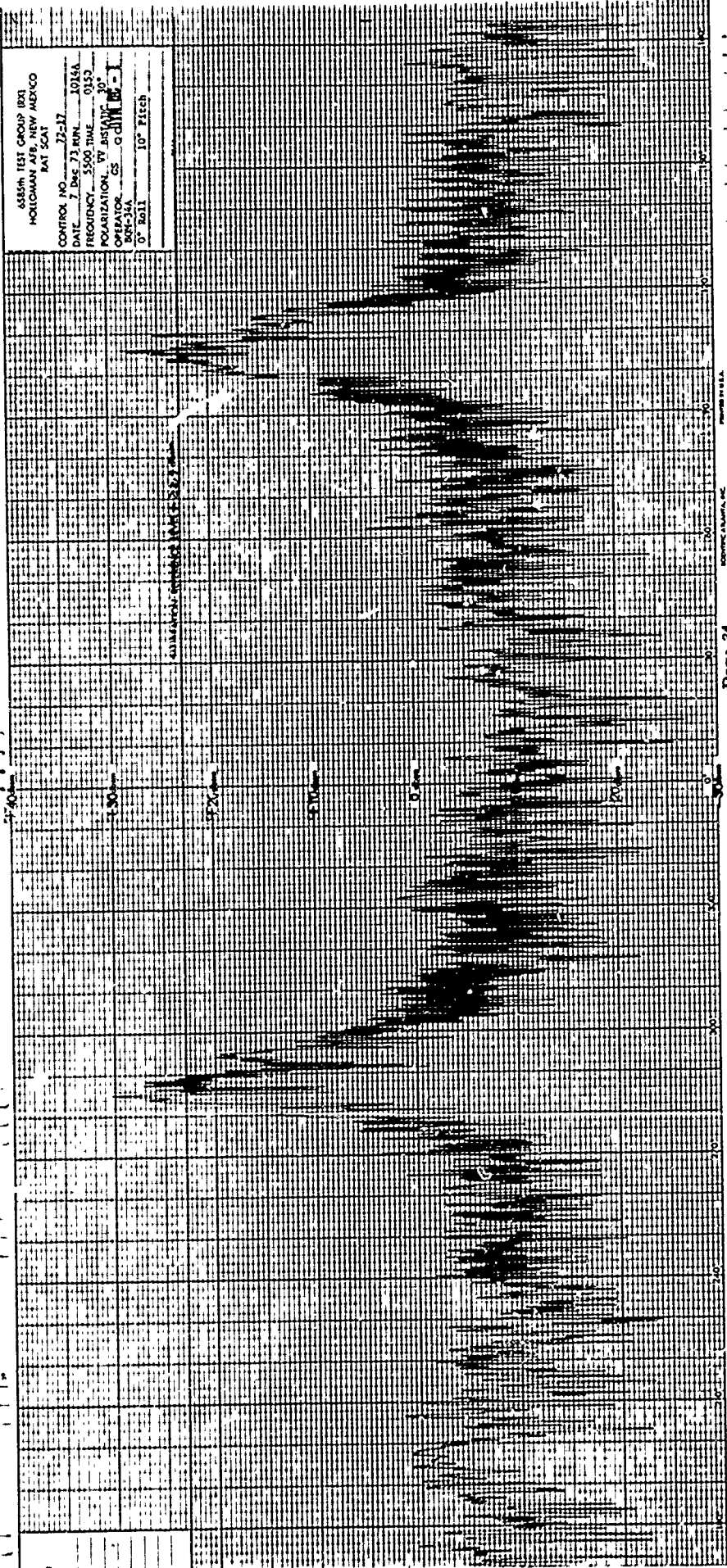
CONTROL NO. 72-11
DATE 25 APR 1972
FREQUENCY 3500 MHz
POLARIZATION RH
OPERATOR GS
REF-AIA
0° Roll 10° Pitch



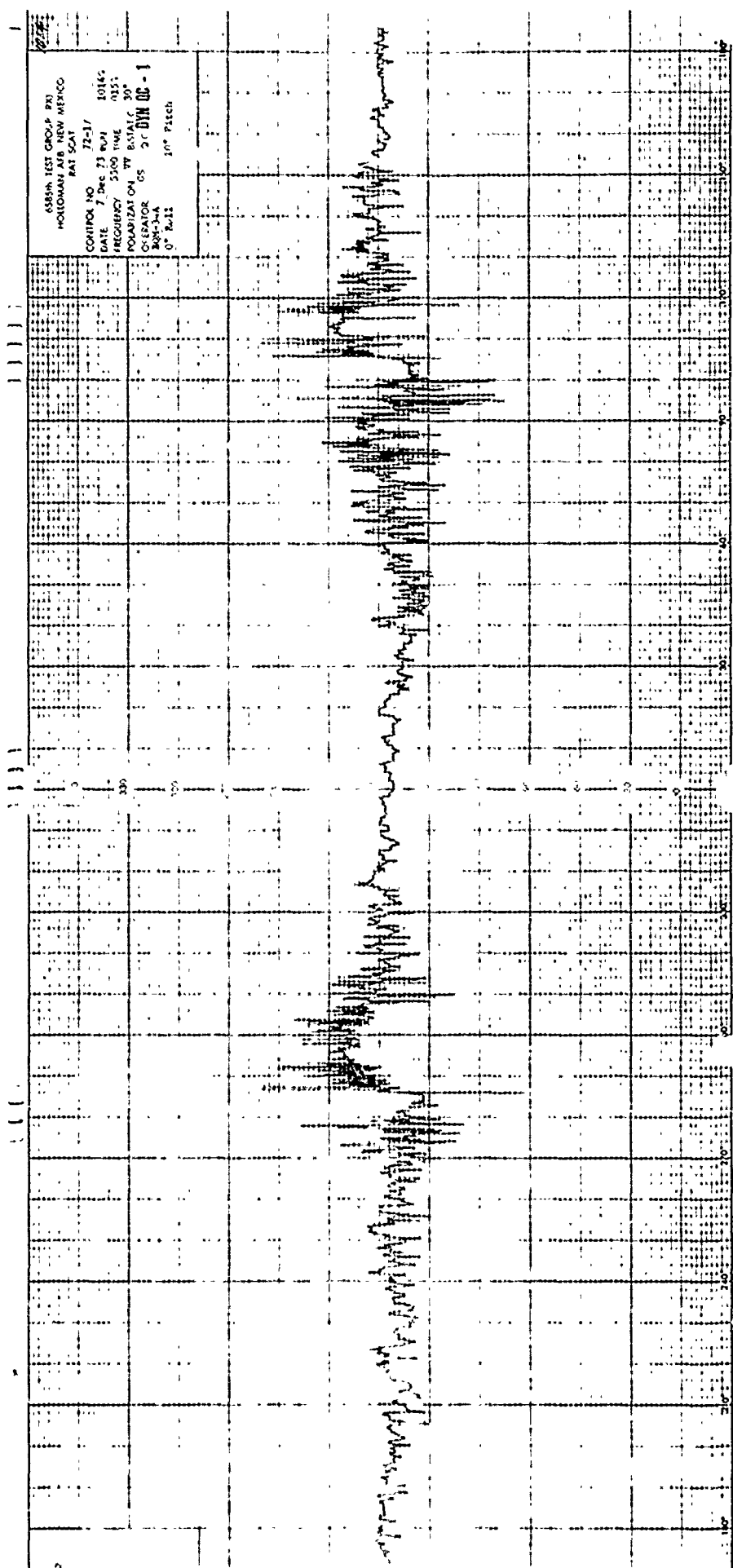
ASST. TEST GROUP 321
HOLLAND AFB NEW MEXICO
BAT SCAT

CONTROL NO. 72-17 10126
DATE 1 DEC 73 RUN 0125
FREQUENCY 5500 MHz
POLARIZATION RH EST. 10°
OPERATOR GS OCBW AB-1
RST-34A
0° Roll 10° Pitch

68554 TEST GROUP B21
 HATCHMAN 1850 AIRW ADICO
 RAT SCAT
 CONTROL NO. 12-17
 DATE 7 Dec 73 RUN 1014
 FREQUENCY 3500 TIME 0150
 POLARIZATION TV ANTENNA
 OPERATOR CS G
 50E-54A
 0° Roll 10° Pitch



688th TEST GROUP PN
 HOLLOMAN AIR NEW MEXICO
 RAT SCAT
 CONTROL NO 72-17 10145
 DATE 7 Dec 73 P04
 FREQUENCY 5300 MHz
 POLARIZATION TV B/VATC 30°
 OPERATOR GS 3C DYN 05-1
 204-3-4
 0° Az 11 10° Pitch



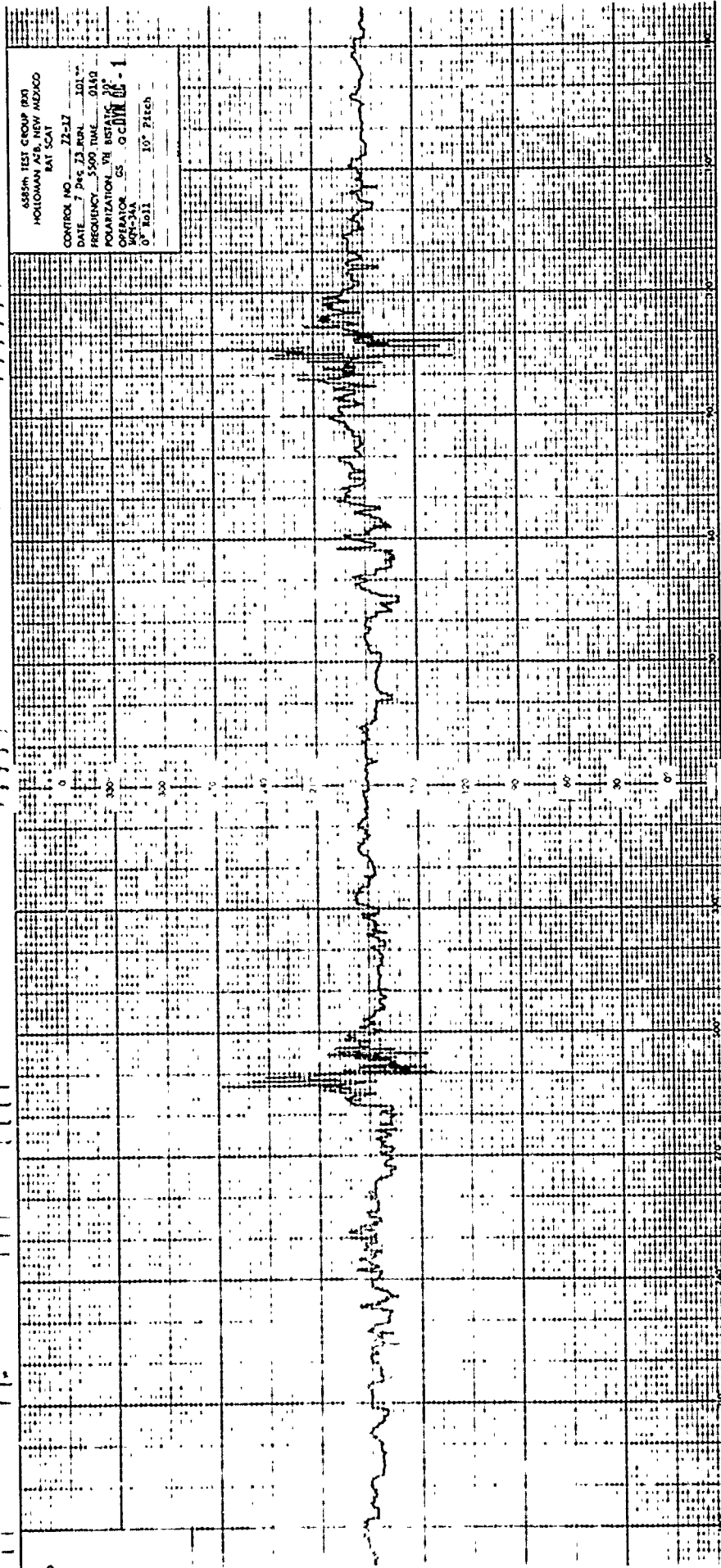
1385A TEST GROUP 1B0
MATCHMAN AIR NEW MEZ TO
BAT CAT

CONTROL NO 72-17
DATE 7 DEC 71 RUN 1013A
FREQUENCY 5500 TIME 0150
POLARIZATION VTI BATTING 20°
OPERATOR CS C C DIA 65-1
RSC-3AA
0° Roll 10° Pitch

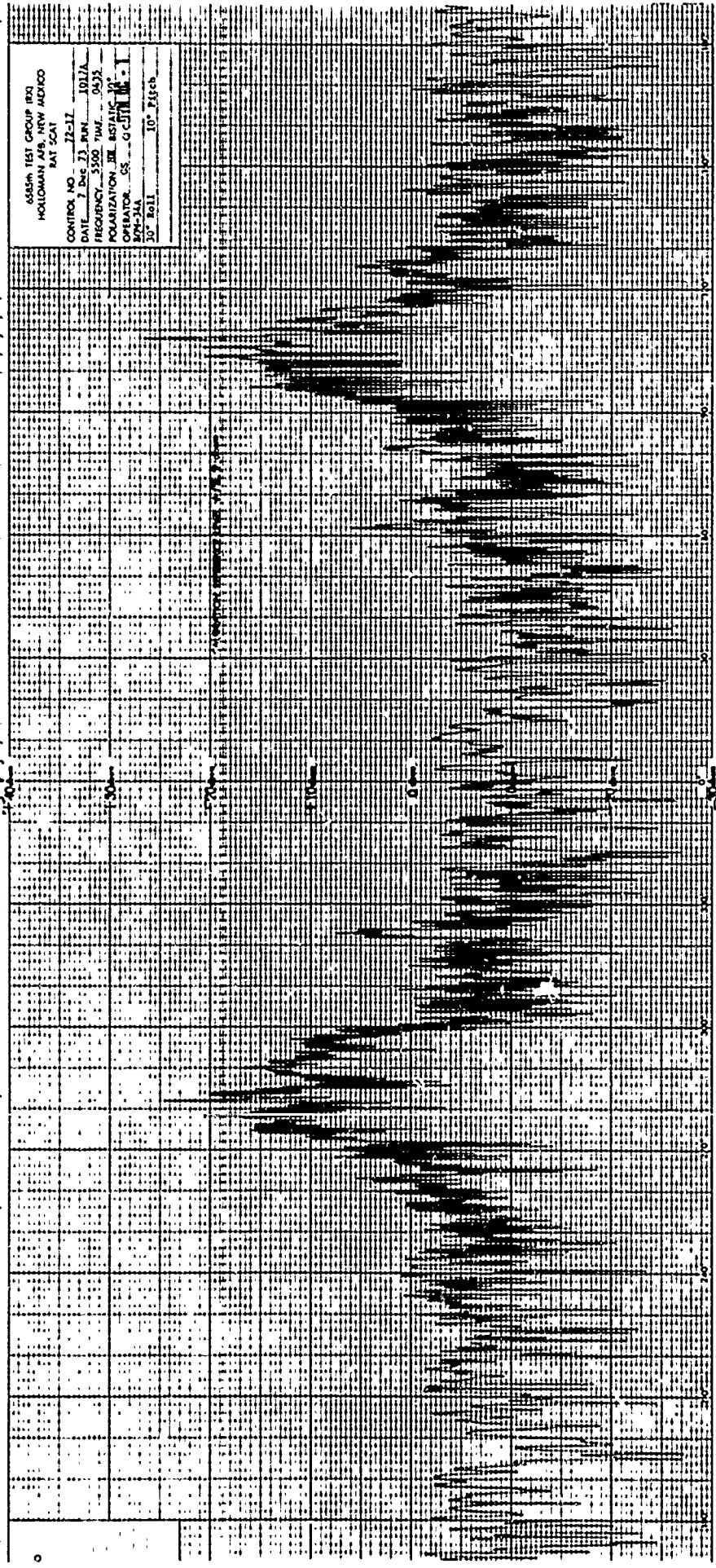
SUBMITTING SERVICE UNIT F-75-2

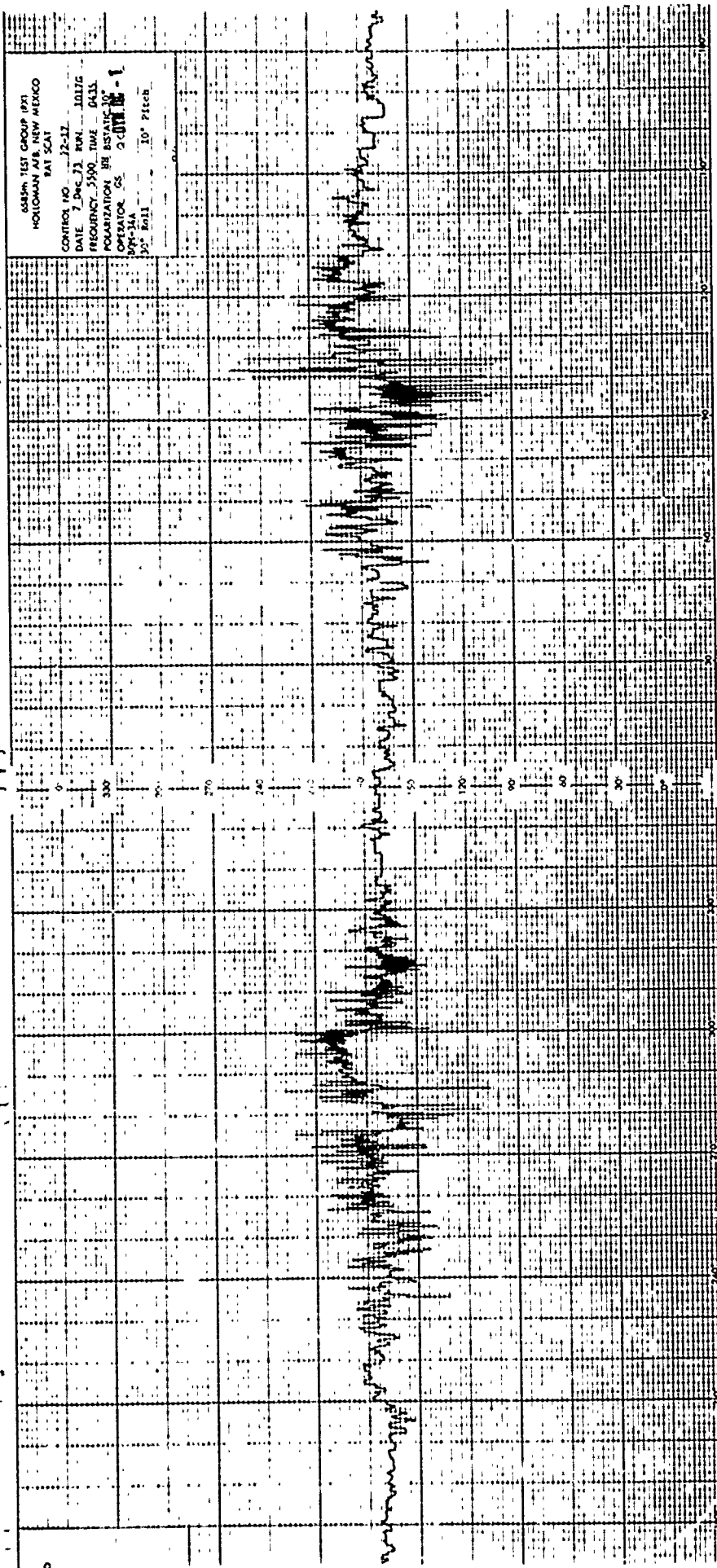
0
10
20
30
40
50
60
70
80
90
100

0
1
2
3
4
5
6
7
8
9
10



655PM TEST GROUP 100
 HOLLANDMAN AFB, NEW MEXICO
 MAY 541
 CONTROL NO. 72-17
 DATE 7 Dec 73 BY 1017A
 FREQUENCY 5500 MHz 0435
 POLARIZATION JPL 45000
 OPERATOR SS - GCHB
 10' 4011 10' 7550





6585th TEST GROUP 18X
HOLLAMAN AFB NEW MEXICO
RAT SCAT

HOLLAMAN AFB NEW MEXICO

RAY SCAY

72-17

CONTROL NO. 7 DEC 73 TIME 1015A

DATE	TIME	LOCATION	REMARKS
0170	301.0055	CONCRETE	
0170	301.0055	CONCRETE	

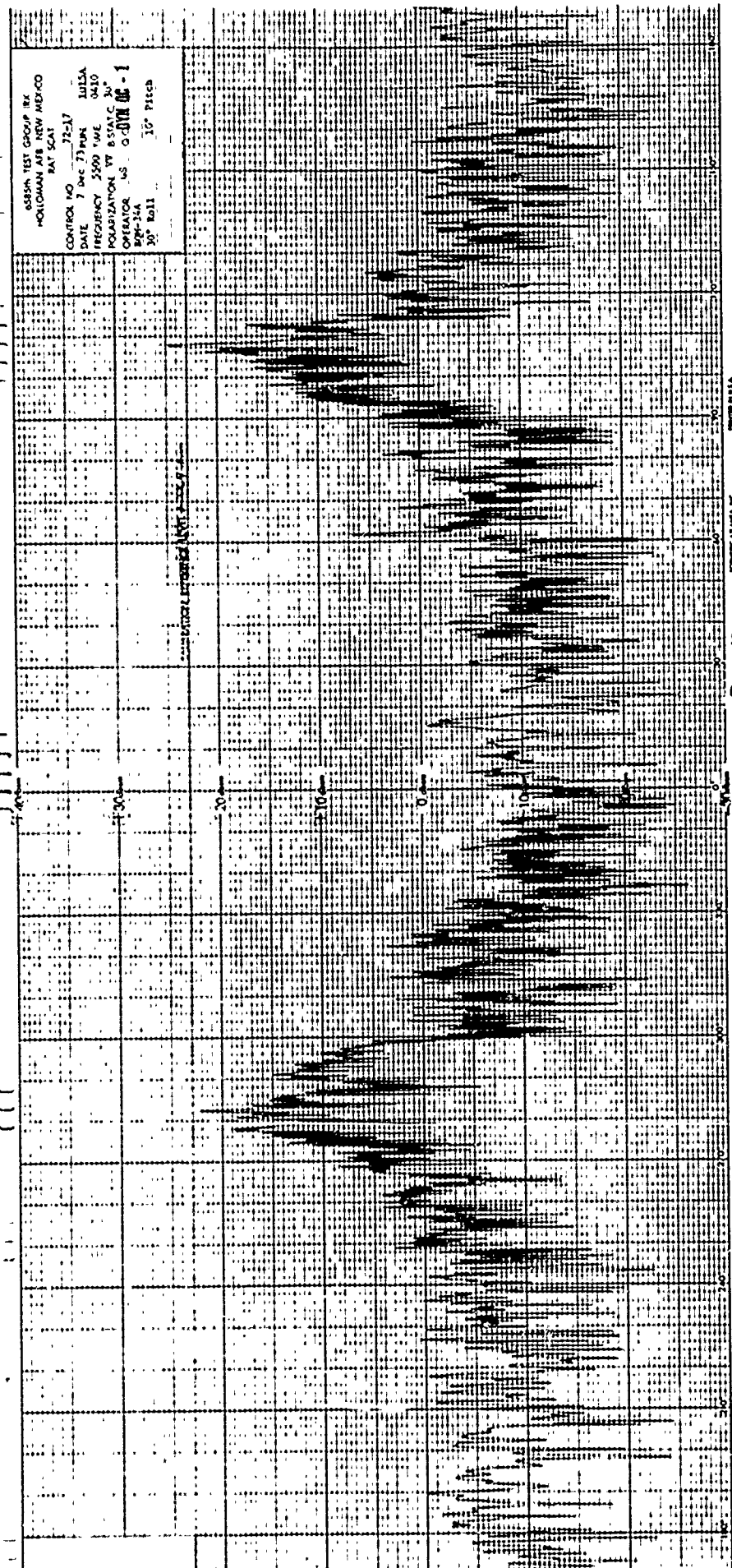
POLYMERIZATION AT 85°C 30°

OLIVER & OHLY INC. - 100

Y91-34

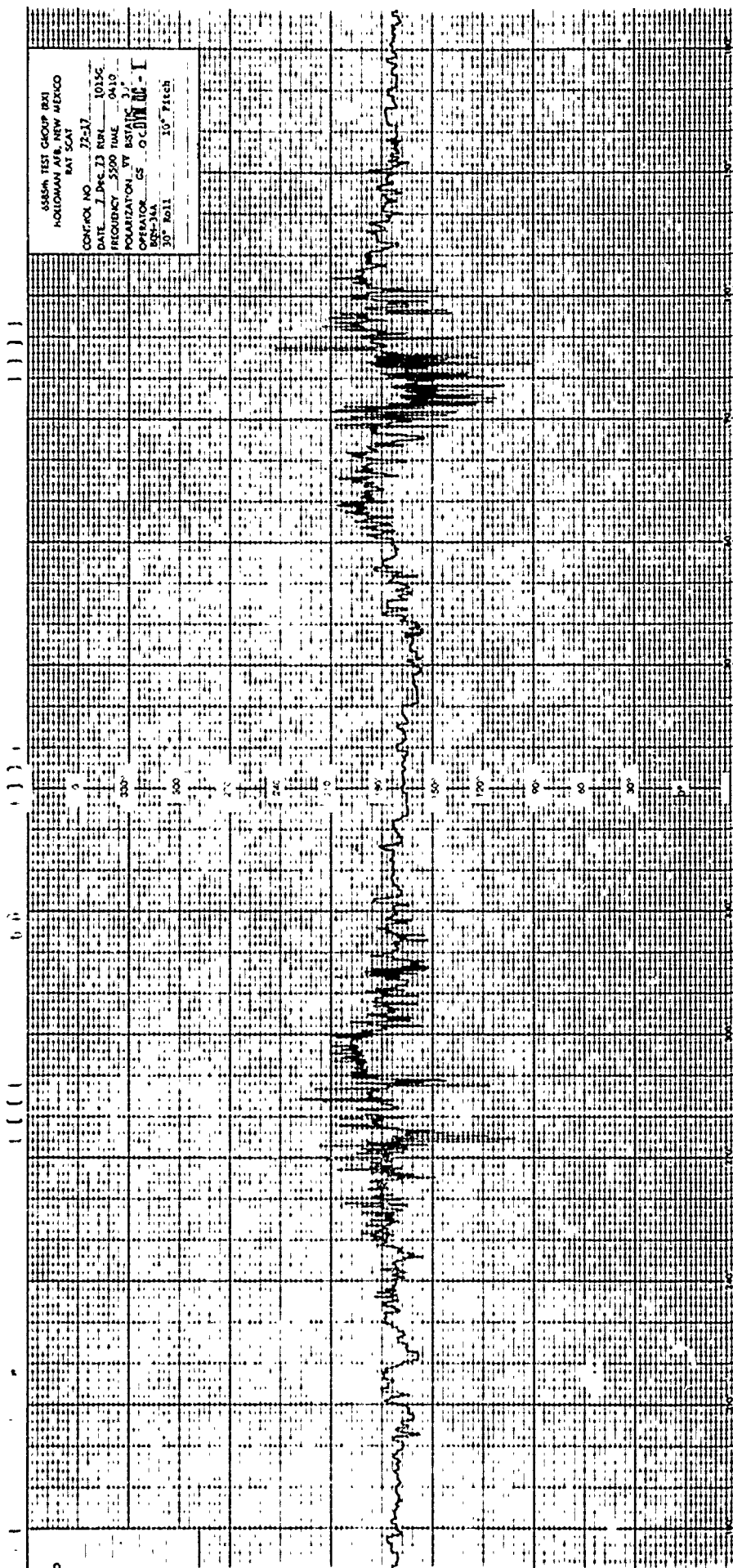
	60° Roll	10° Pitch
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
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26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
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63	100	100
64	100	100
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80	100	100
81	100	100
82	100	100
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85	100	100
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91	100	100
92	100	100
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98	100	100
99	100	100
100	100	100

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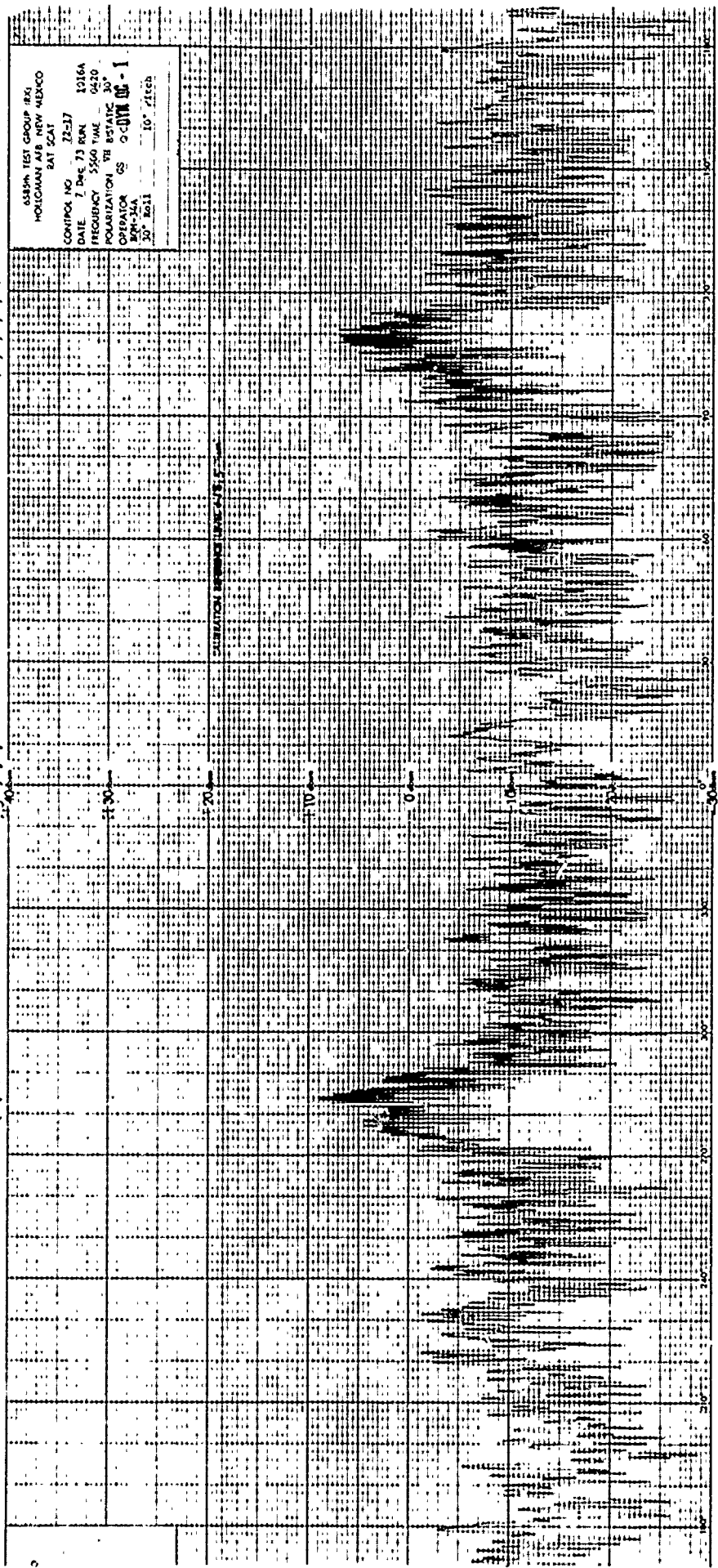


6585th TEST GROUP (RX)
HOLLOWMAN AFB, NEW MEXICO
RAT SCAT

CONTROL NO 72-17
DATE 7 Dec 73 RUN 10156
FREQUENCY 5500 TIME 0410
POLARIZATION VV ESTATE 30
OPERATOR CS OCBW-1
BGT-34A
30" Roll 10" Pitch

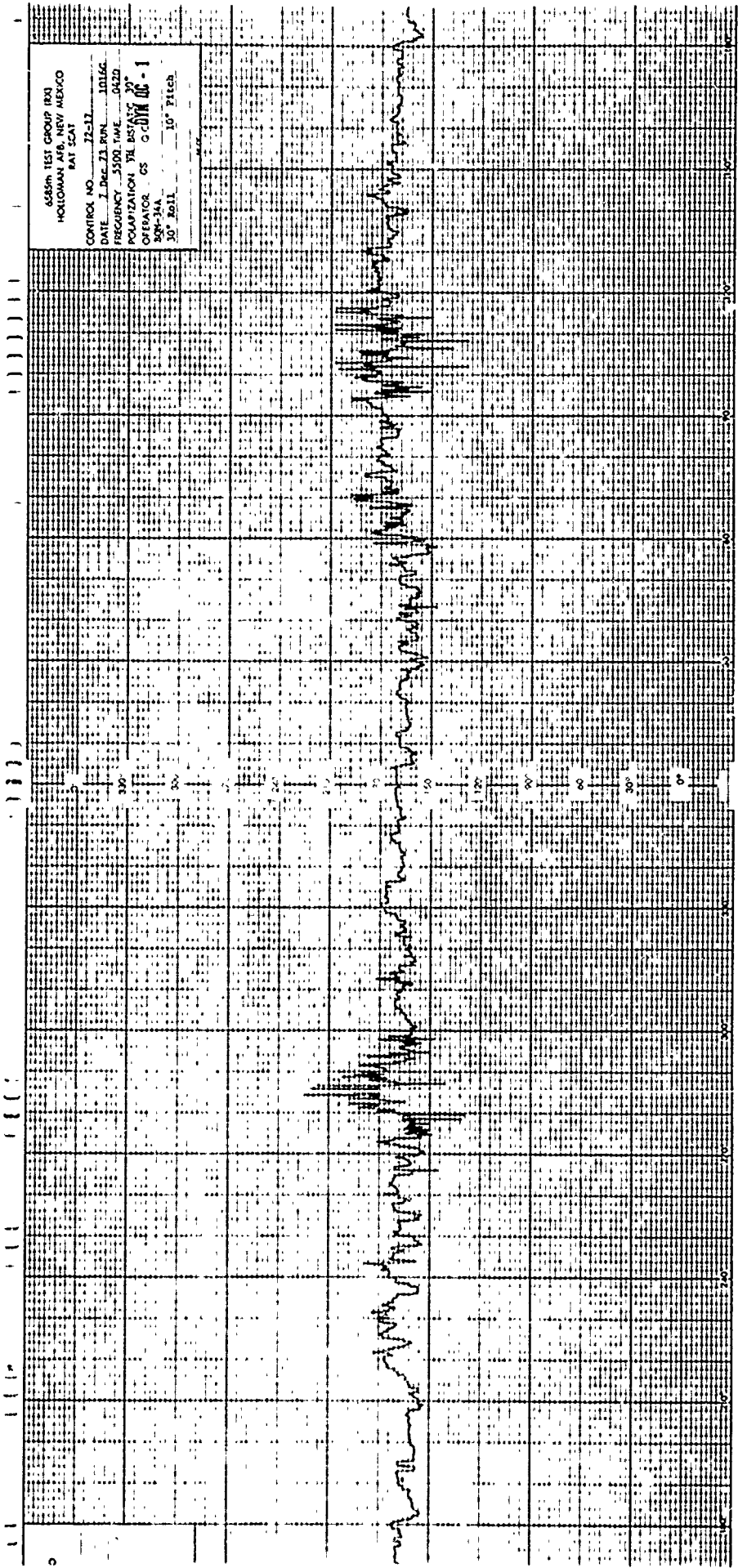


635PM TEST GROUP (BX)
 HOLCOMAN AFB NEW MEXICO
 RAT SCAT
 CONTROL NO. 72-37 1016A
 DATE 7 Dec 73 RUN 0420
 FREQUENCY 5500 TIME 0420
 POLARIZATION VIB. STATIC 30°
 OPERATOR GS 0-00N 05-1
 MPH-24A 10° Roll 10° Pitch

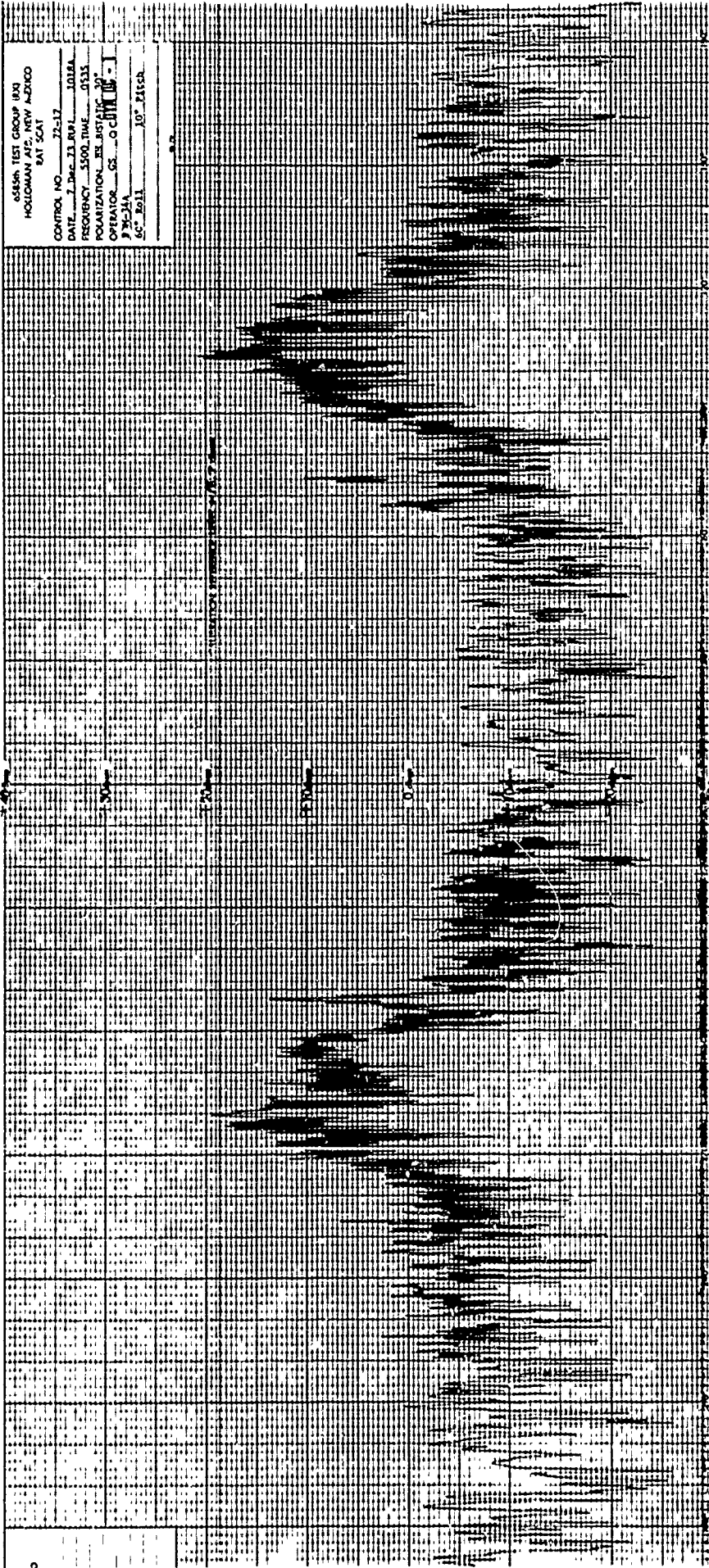


655th TEST GROUP (RX)
 HOLLOMAN AFB, NEW MEXICO
 FAT SCAT

CONTROL NO. 22-12
 DATE 2 Dec 71 RUN 1016G
 FREQUENCY 3500 MHz 0420
 POLARIZATION YL B7317 30°
 OPERATOR GS G. W. 1
 30' 30" 10° Pitch

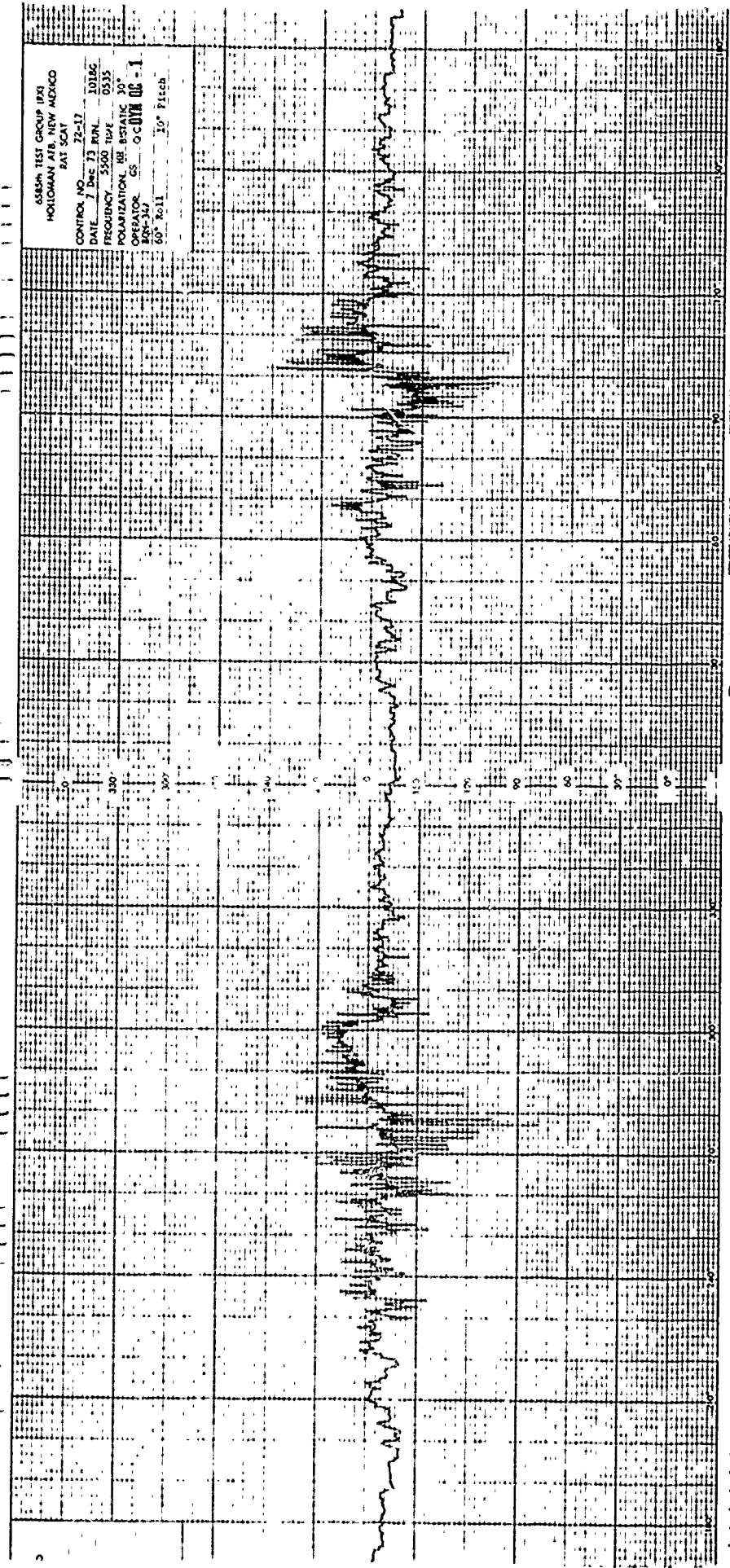


458th TEST GROUP (H)
 HOLLAND AFB, TEXAS
 BAT SCAT
 CONTROL NO. 72-17
 DATE 7 Dec 71 RWL JOLIA
 FREQUENCY 5500 MHz J533
 POLARIZATION RH J533
 OPERATOR GS OC
 JMC:JA
 50° Roll 10° Pitch

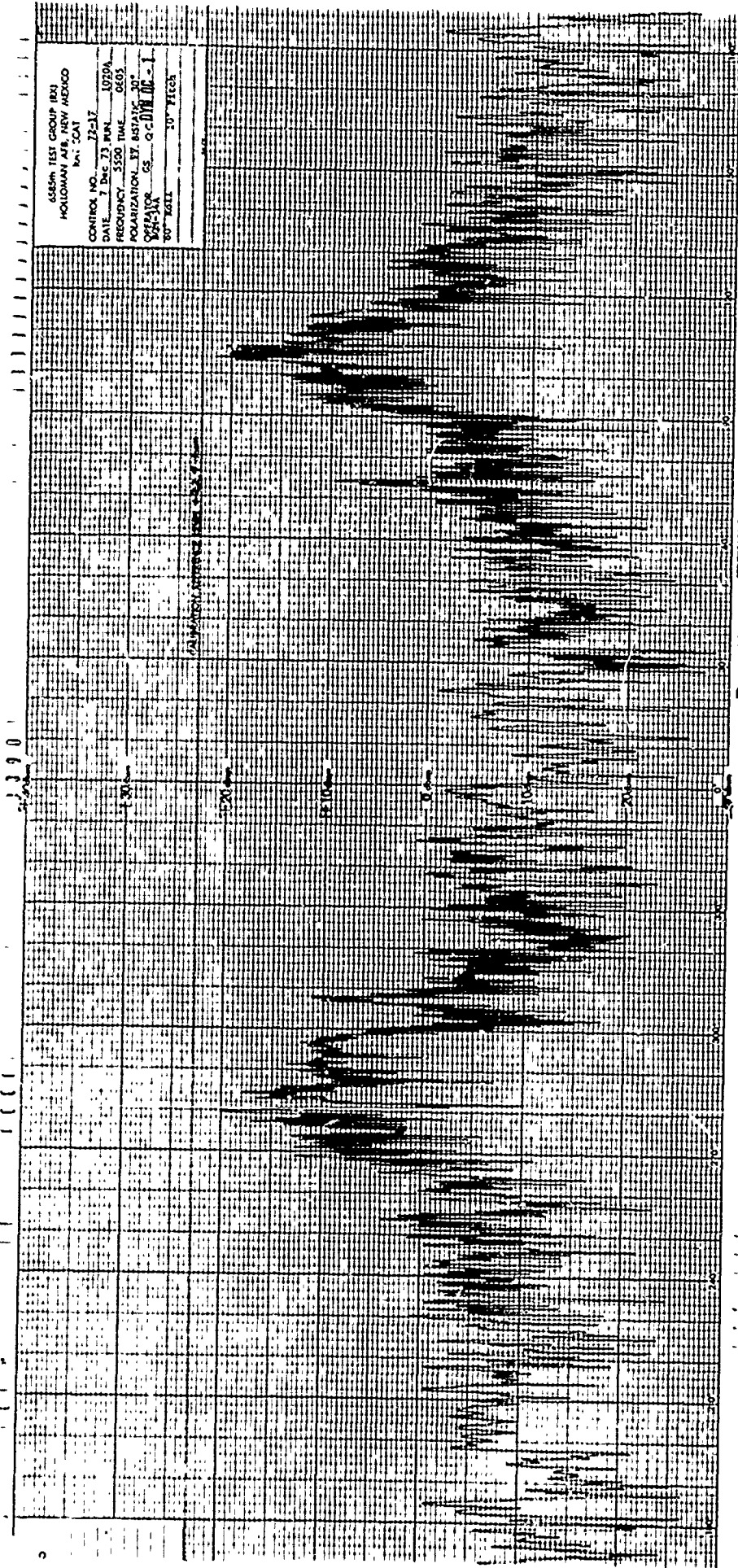


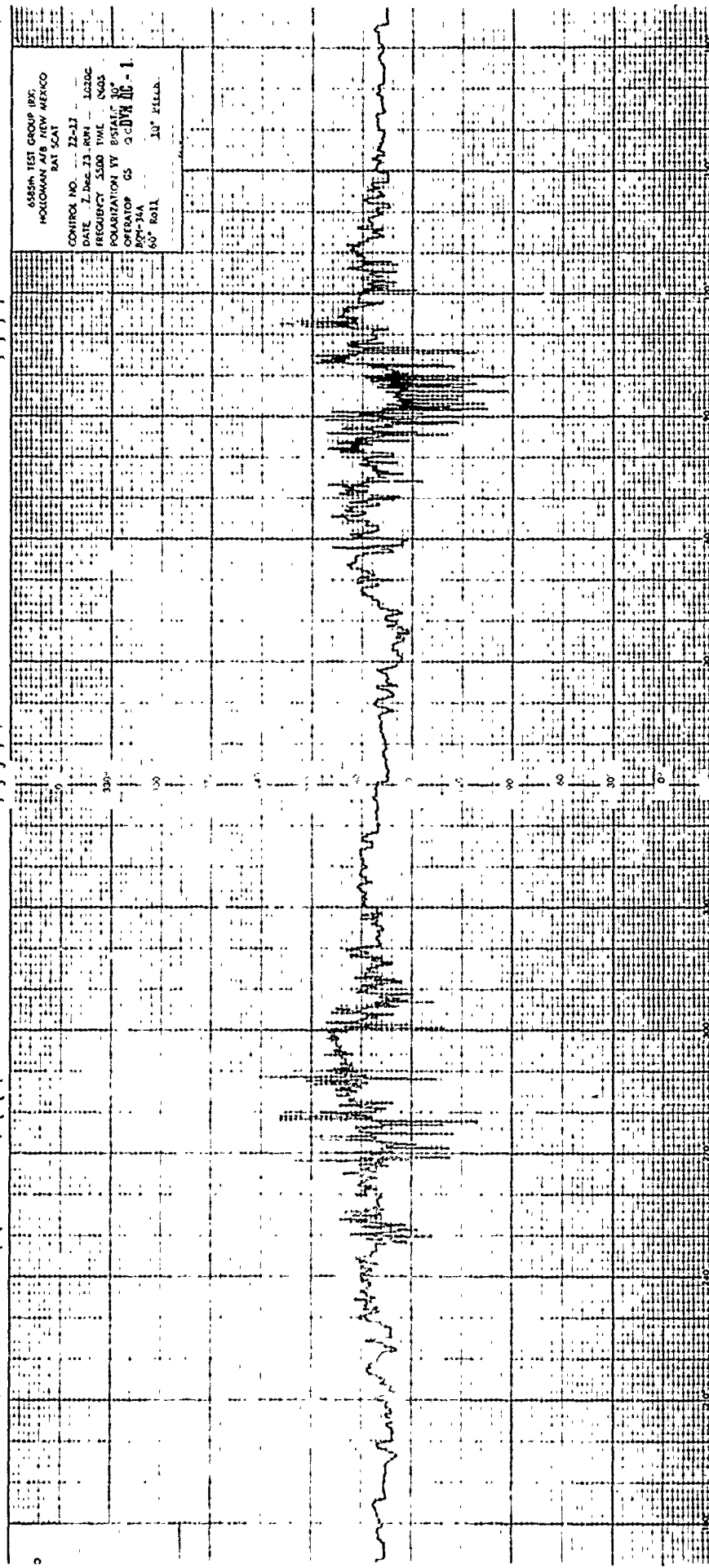
6885th TEST GROUP (IXI)
HOLLAMAN AFB, NEW MEXICO
EAT SCAT

CONTROL NO.	72-17
DATE	7 Dec 73 RUN
FREQUENCY	1018G
POLARIZATION	5500 THF 0335
OPERATOR	RE. B. STAGG 30°
GS	OCUN 05-1
804-347	60° Roll
	10° Pitch

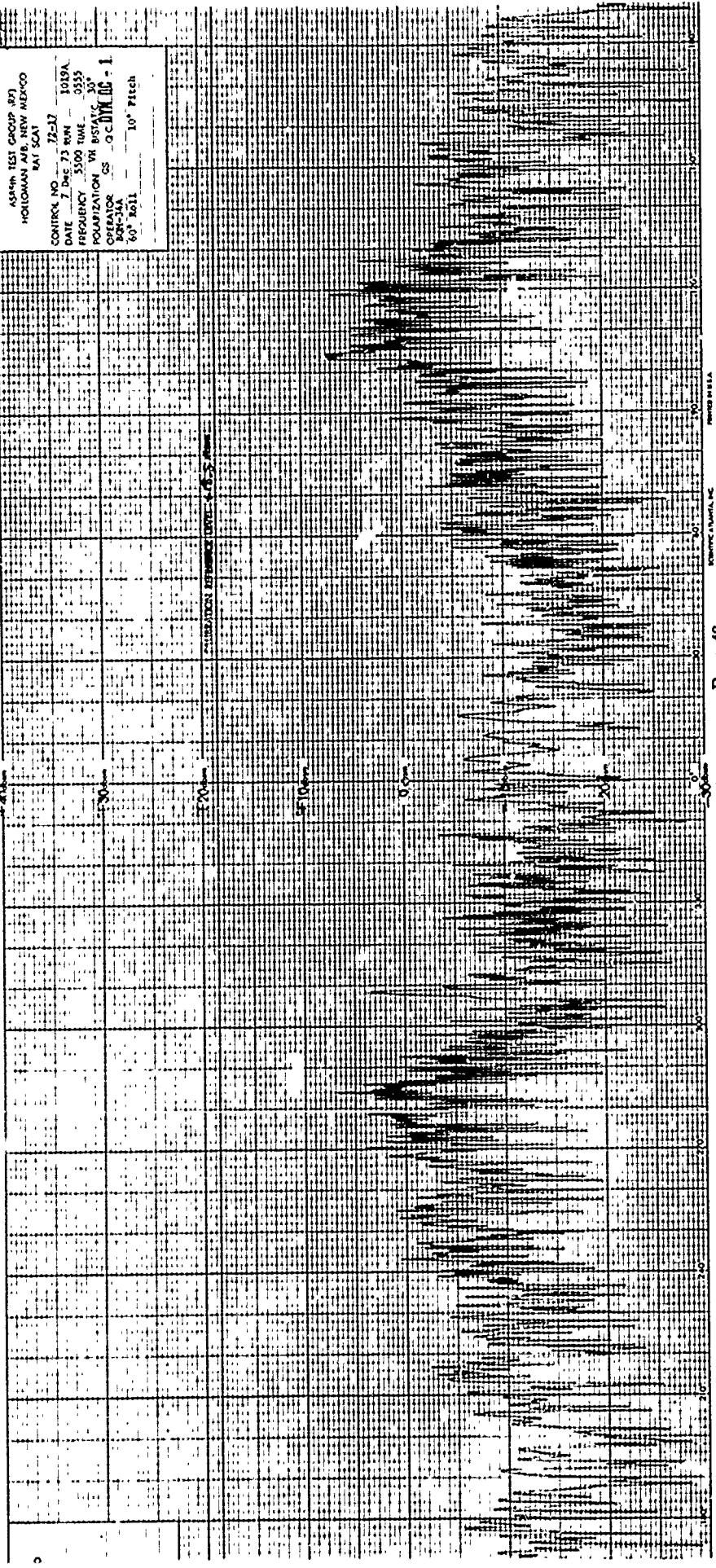


6556th TEST GROUP (BD)
 HOLLOMAN AFB, NEW MEXICO
 NAT. COAT
 CONTROL NO. 72-17
 DATE 7 Dec 73 RUN 1020A
 FREQUENCY 5500 MHz 0603
 POLARIZATION BY ASTATIC 30°
 OPERATOR GS 000000-1
 80° GATE 10° FREQ



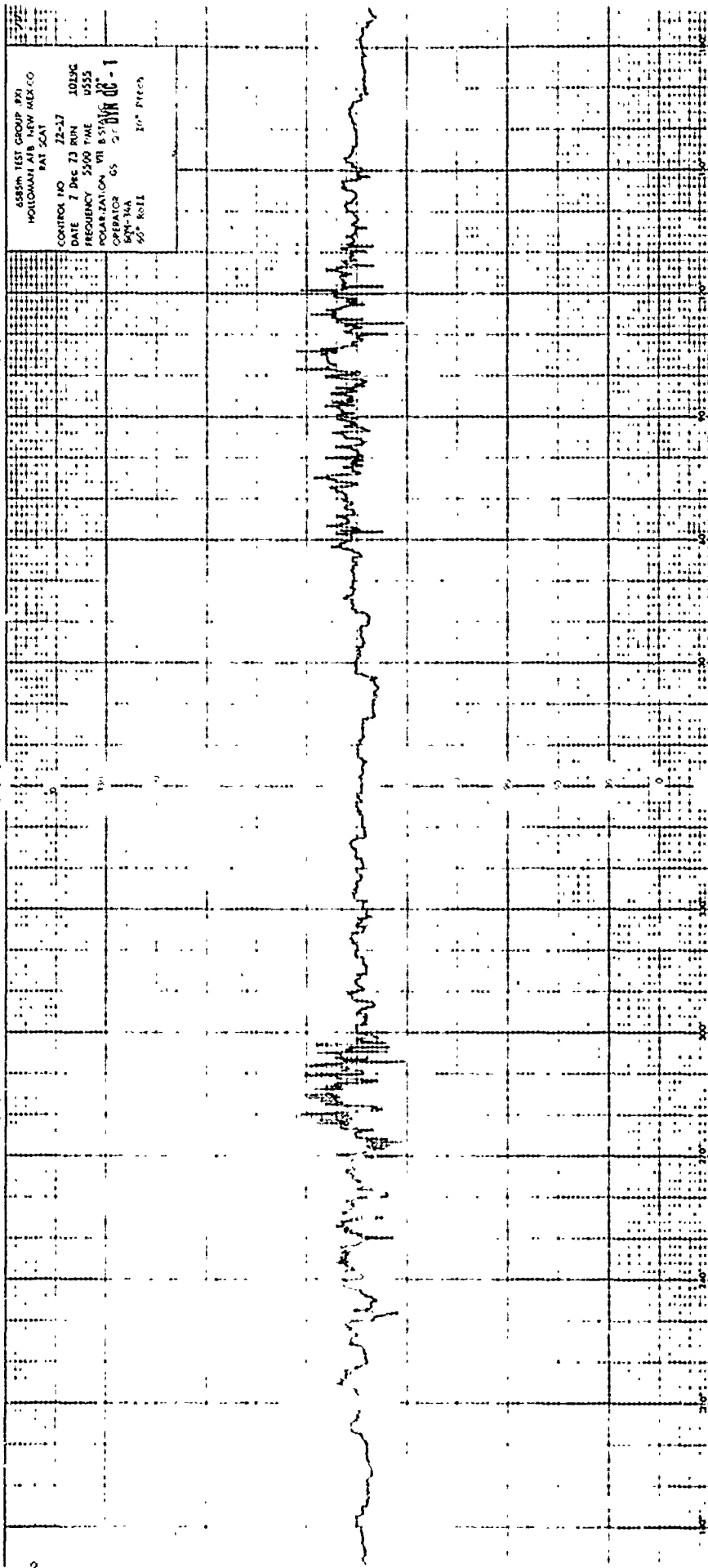


6585th TEST GROUP (B)
HOLLAND AFB NEW MEXICO
BAT SCAT
CONTROL NO. 22-13
DATE 7 Dec 73 RUN 1020C
FREQUENCY 5500 TIME 0403
POLARIZATION WY 0201
OPERATOR GS 0201
60° Roll 10° Pitch

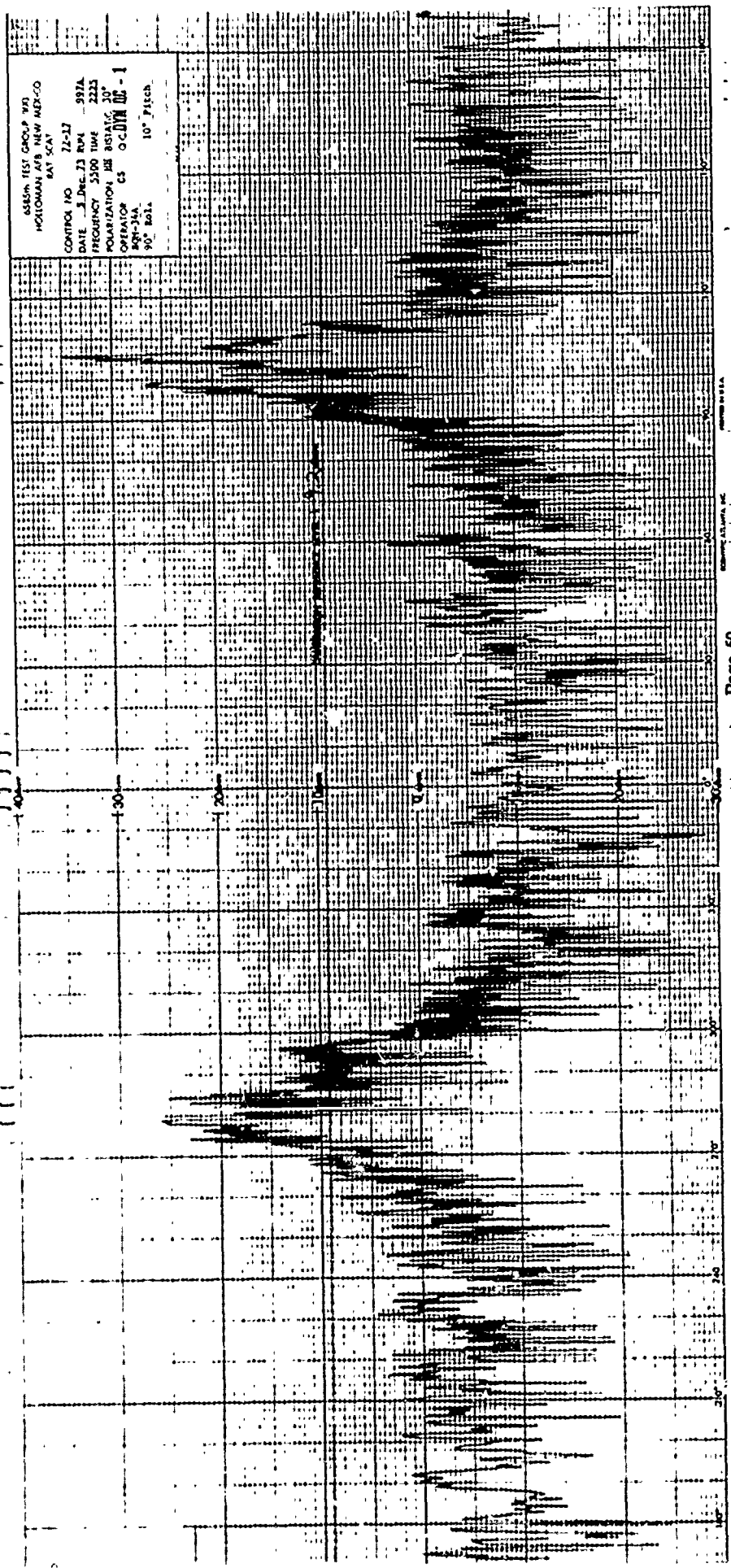


ASTM TEST GROUP 107
HOLLOMAN AFB, NEW MEXICO
RAT SCAT

CONTROL NO. 72-37
DATE 7 Dec 73
FREQUENCY 5500 Hz
POLARIZATION VIB. HORIZONTAL
OPERATOR GS
RCH-34A
60° Roll
10° Pitch



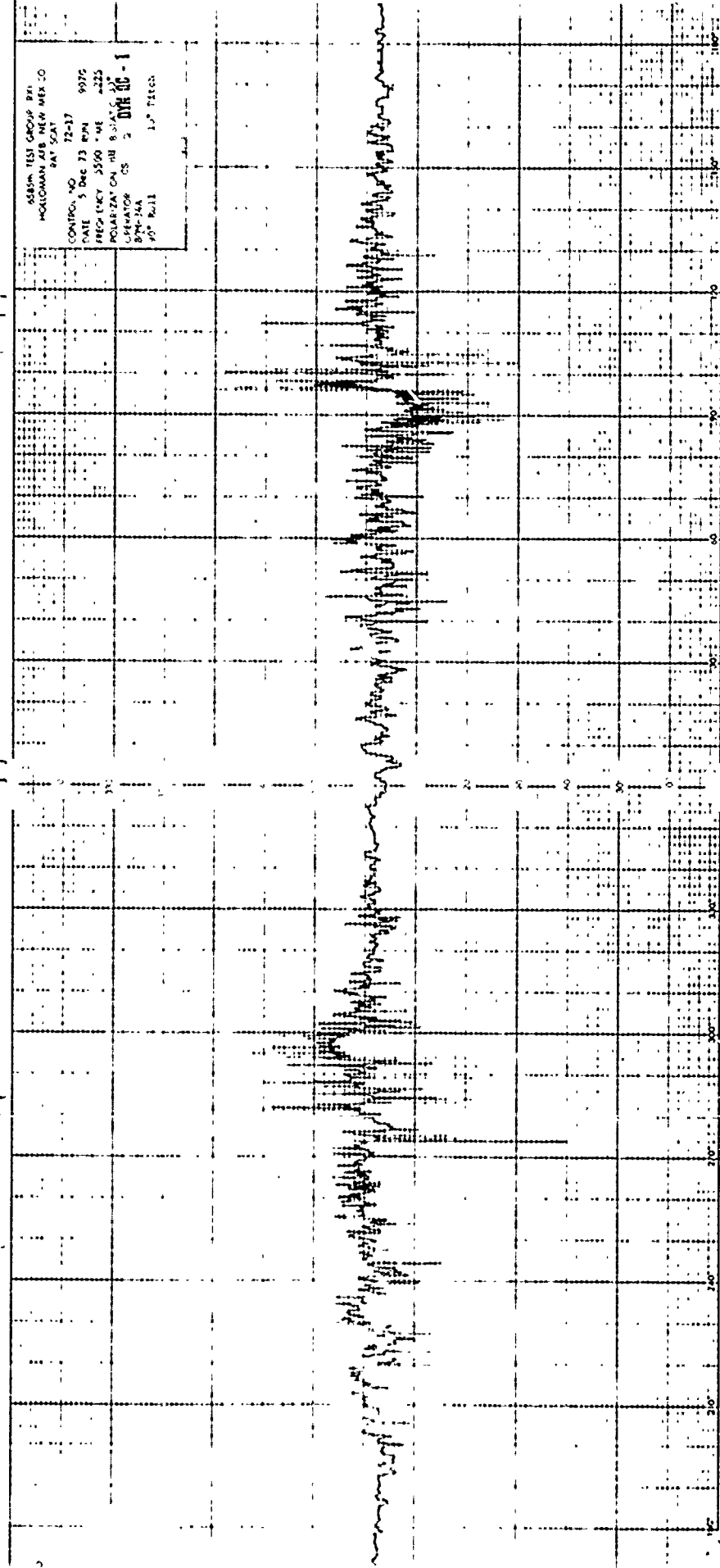
ASSON TEST GROUP 871
HOLCOMB AFB, NEW MEXICO
CONTROL NO. 22-27
DATE 7 DEC 73 RUN 1019C
FREQUENCY 5500 FINE 15355
POLARIZATION VTI 8.5
OPERATOR GS 27
BQM-16A
60° Roll 10° Pitch

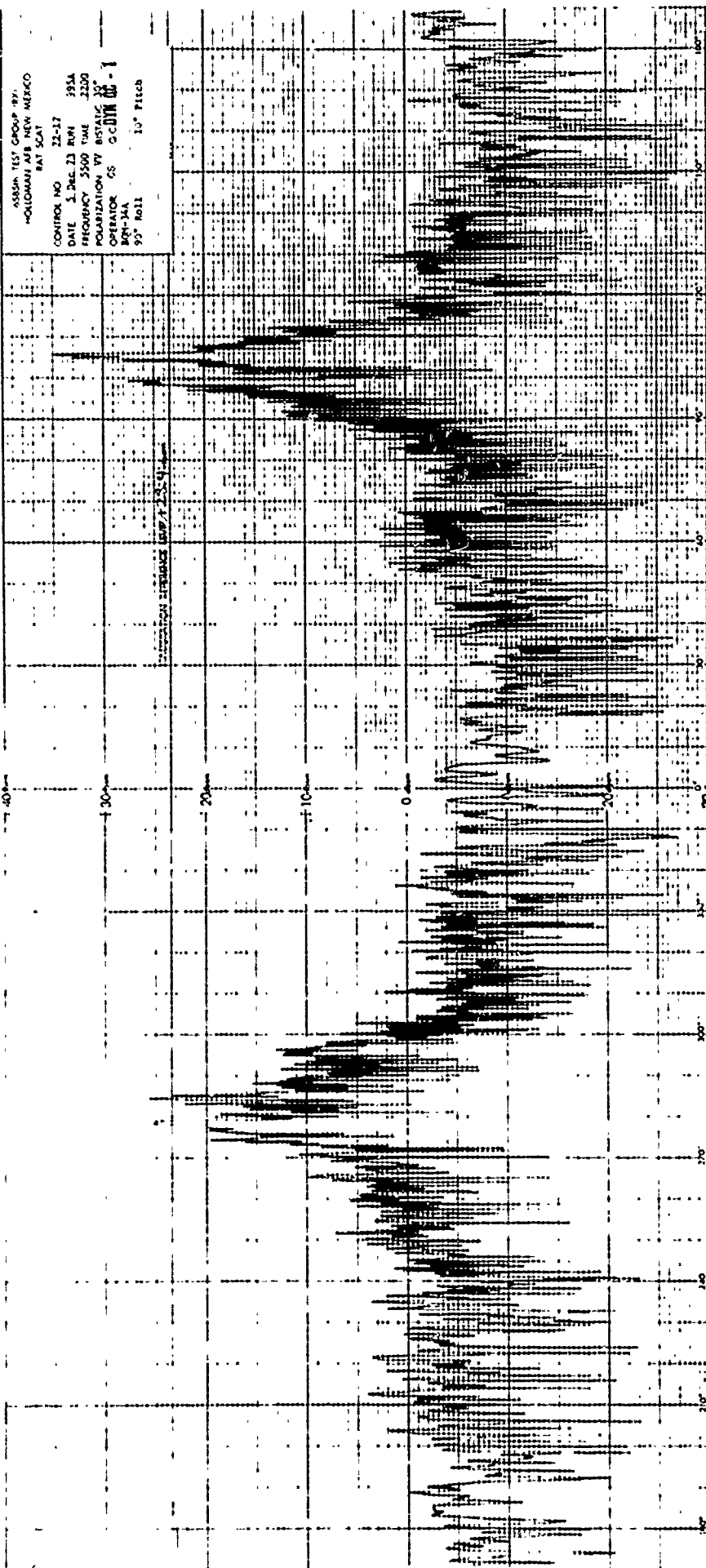


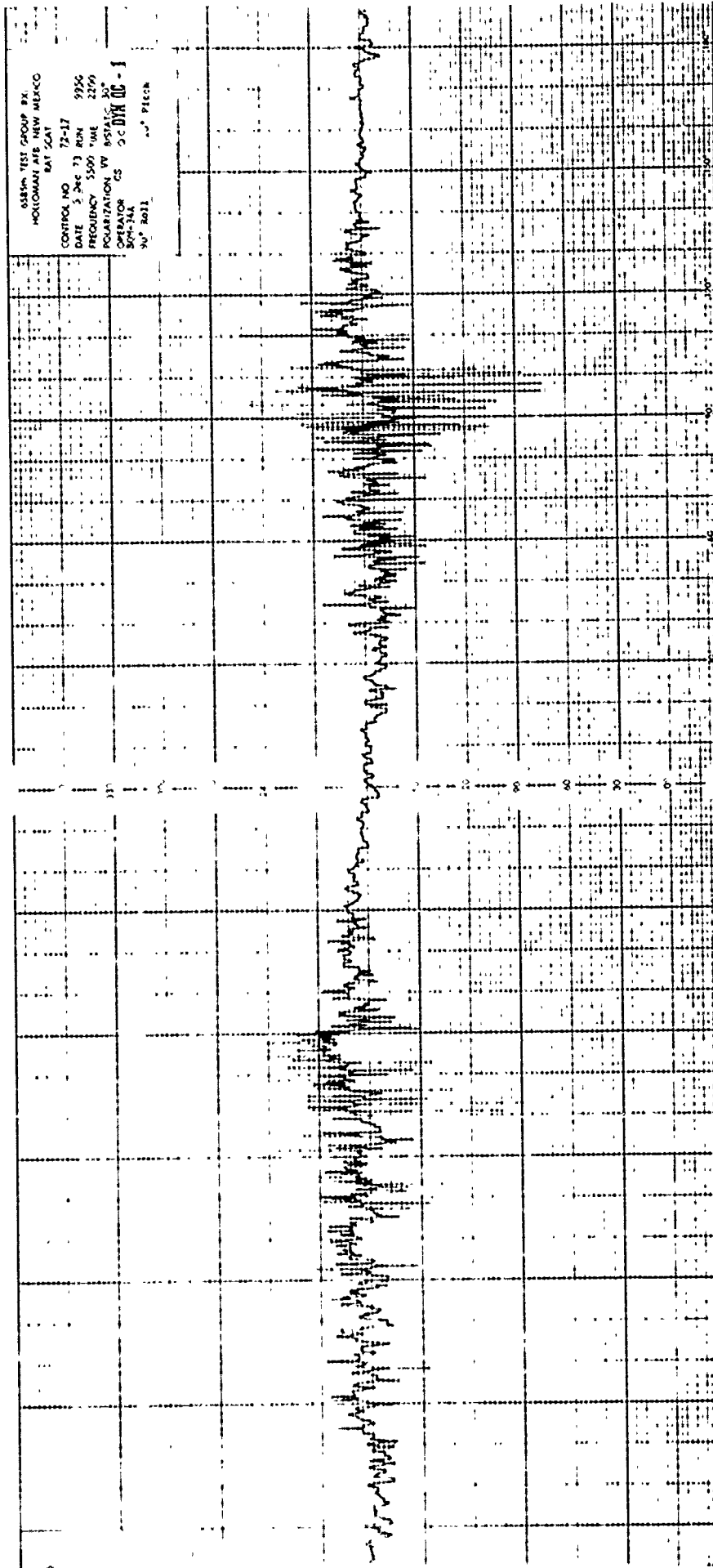
635th TEST GROUP W/3
HOLCOMB AFB NEW MEXICO
BAT SCAN

CONTROL NO 72-17
DATE 3 Dec 73 RPA - 597A
FREQUENCY 5500 TWE 2225
POLARIZATION JRE BSLALC 30°
OPERATOR CS OGDVN DE - 1
40°-3A
90° Bat. 10° Pitch

ASBIA TEST GROUP B1
 HOLLOMAN AFB NEW MEX CO
 DAY SCAT
 CONTROL NO 72-17
 DATE 5 Dec 73
 TIME 1407 2500 -45 225
 POLARIZATION 00 00 00
 OPERATOR CS 2
 87-1A
 45° Roll
 1.0° Tilt







CONTROL NO. 72-17
DATE 5 DEC 73 RUN 396A
FREQUENCY 5500 TWE 2210
POLARIZATION TH 85 STATIC 30
OPERATOR CS OCH
BOM-34A
90° Mc11 10° Pitch

(The page contains faint, illegible markings and bleed-through from the reverse side.)

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635PM TEST GROUP P-1
HOLLOMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO. 72-17

DATE 2 Dec 73 P-1 396G

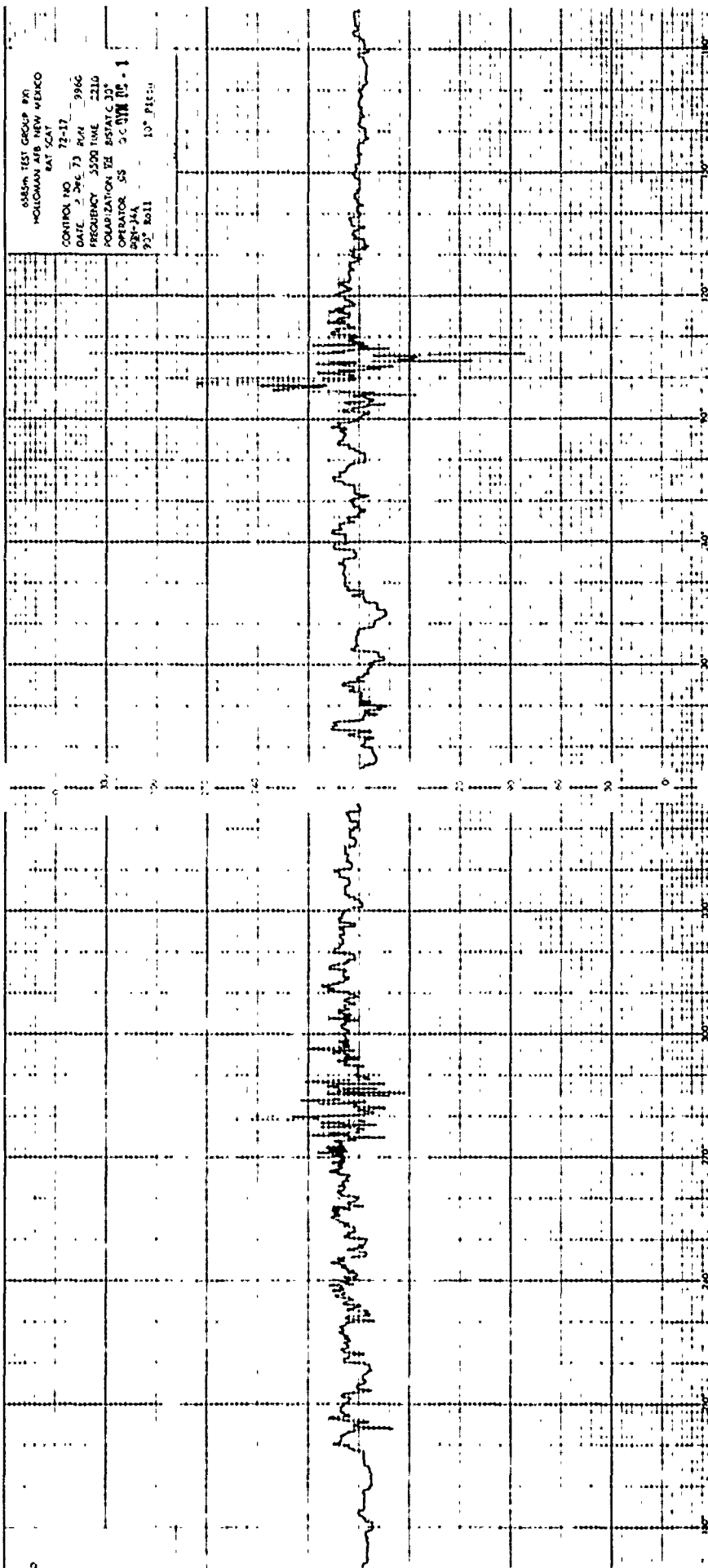
FREQUENCY 3500 TONE 2210

MODULATION 100% ESTAC 100

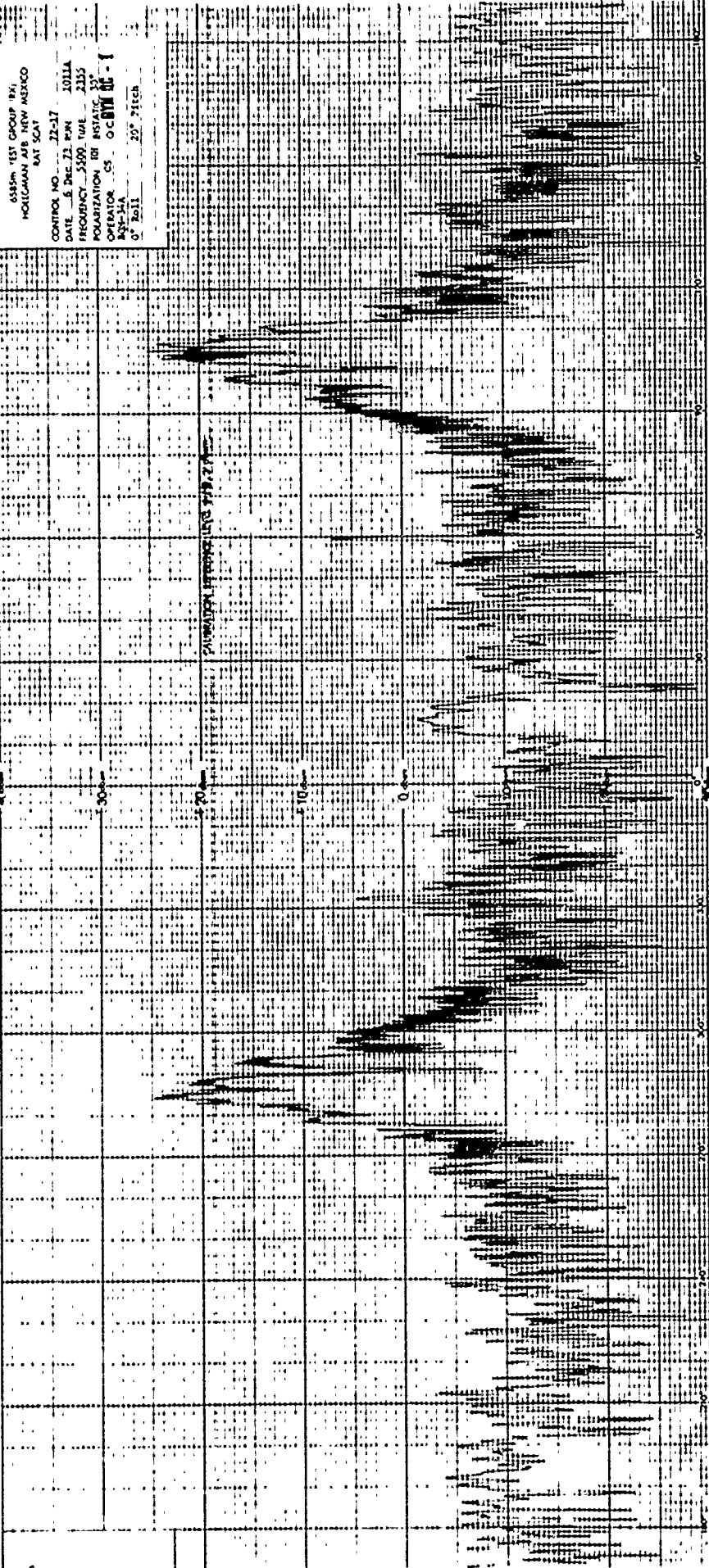
OPERATOR SS SC 511110 - 1

224-JAL

92 Roll 10° Pitch



6585th TEST GROUP (B)
 HOLLAMAN AFB NEW MEXICO
 SAT SCAT
 CONTROL NO. 22-17
 DATE 8 DEC 73 PM 1011A
 FREQUENCY 5592 MHz 2355
 POLARIZATION OF INSTANT
 OPERATOR CS OCT 81
 APP-5A
 0° Roll 20° Pitch

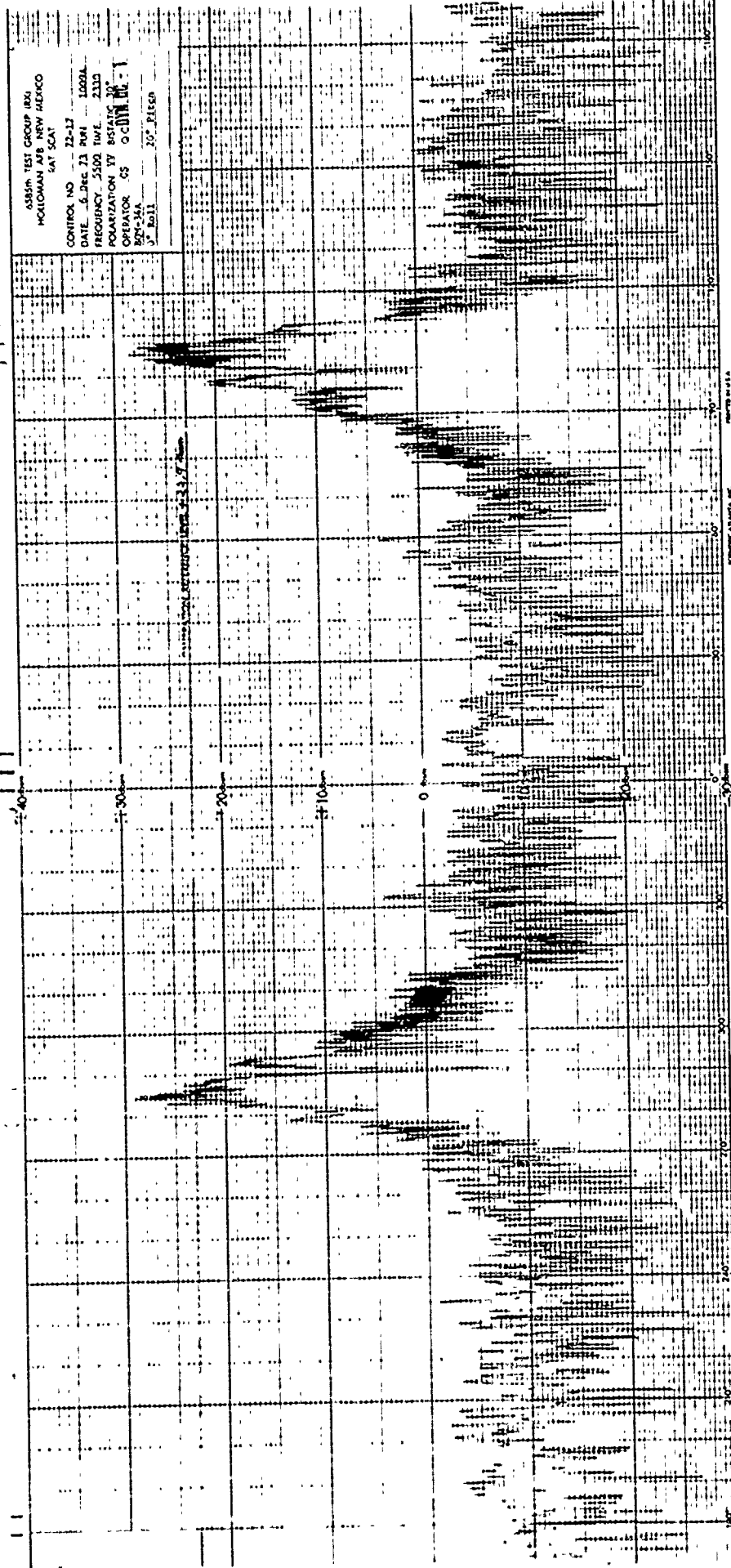


ASSTA TEST GROUP (RT)
HOLLOMAN AIR NEW MEXICO
PAT SCAT

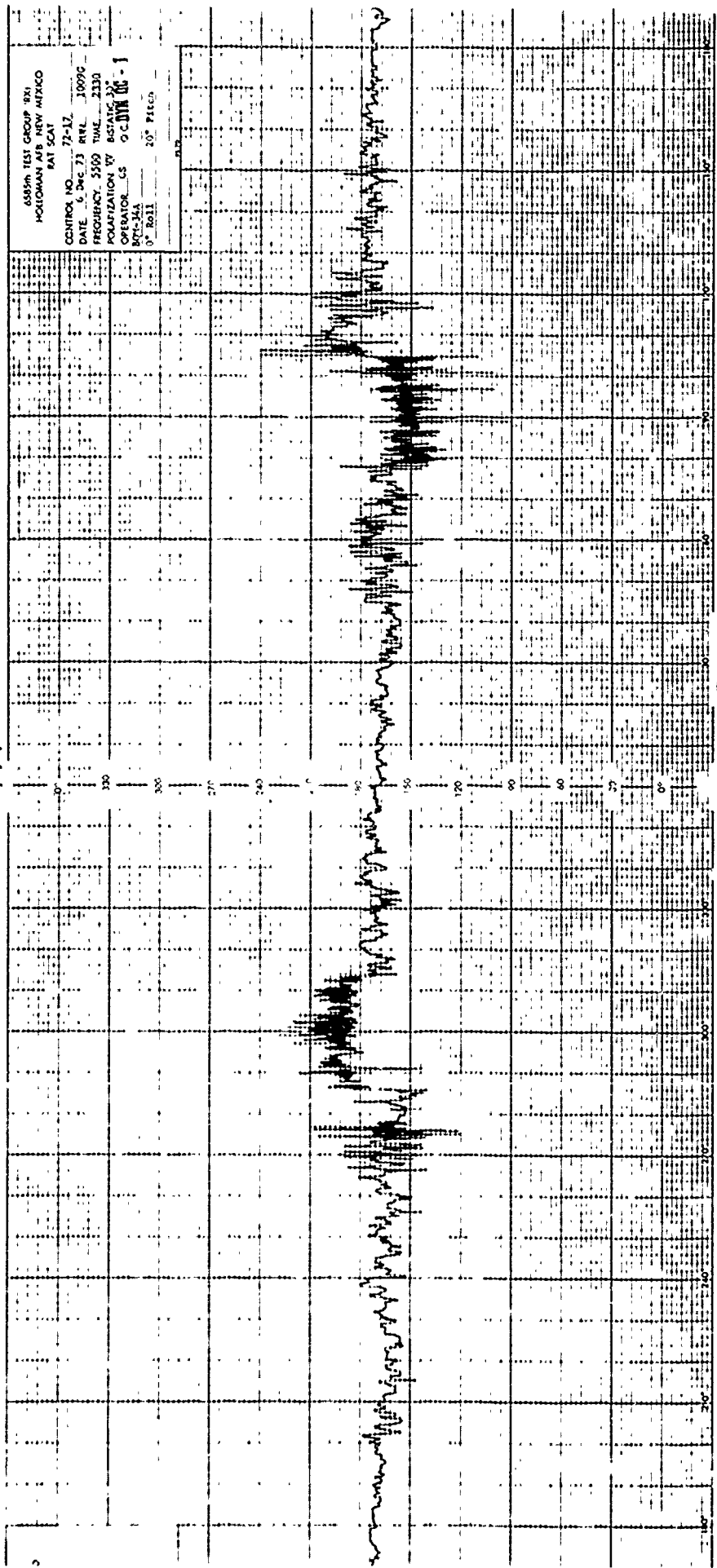
CONTROL NO 72-17
DATE 12ME/73 PUN 1211G
FREQUENCY 3500 TIAL 2335
POLARIZATION JIM BRYAN
OPERATOR CS O CATH 110-1
SFC-114
O Ball 10 PIECE

0 20 40 60 80 100

0 20 40 60 80 100



6355th TEST GROUP (X)
HOLCOMB AFB TX
SAT SCAT
CONTROL NO 22-17
DATE 5 Dec 73 PWT 1000A
FREQUENCY 5500 TWT 2133
POLARIZATION VV BISTATIC
OPERATOR CS OGDW
804-1A
JF Ball 20° E150

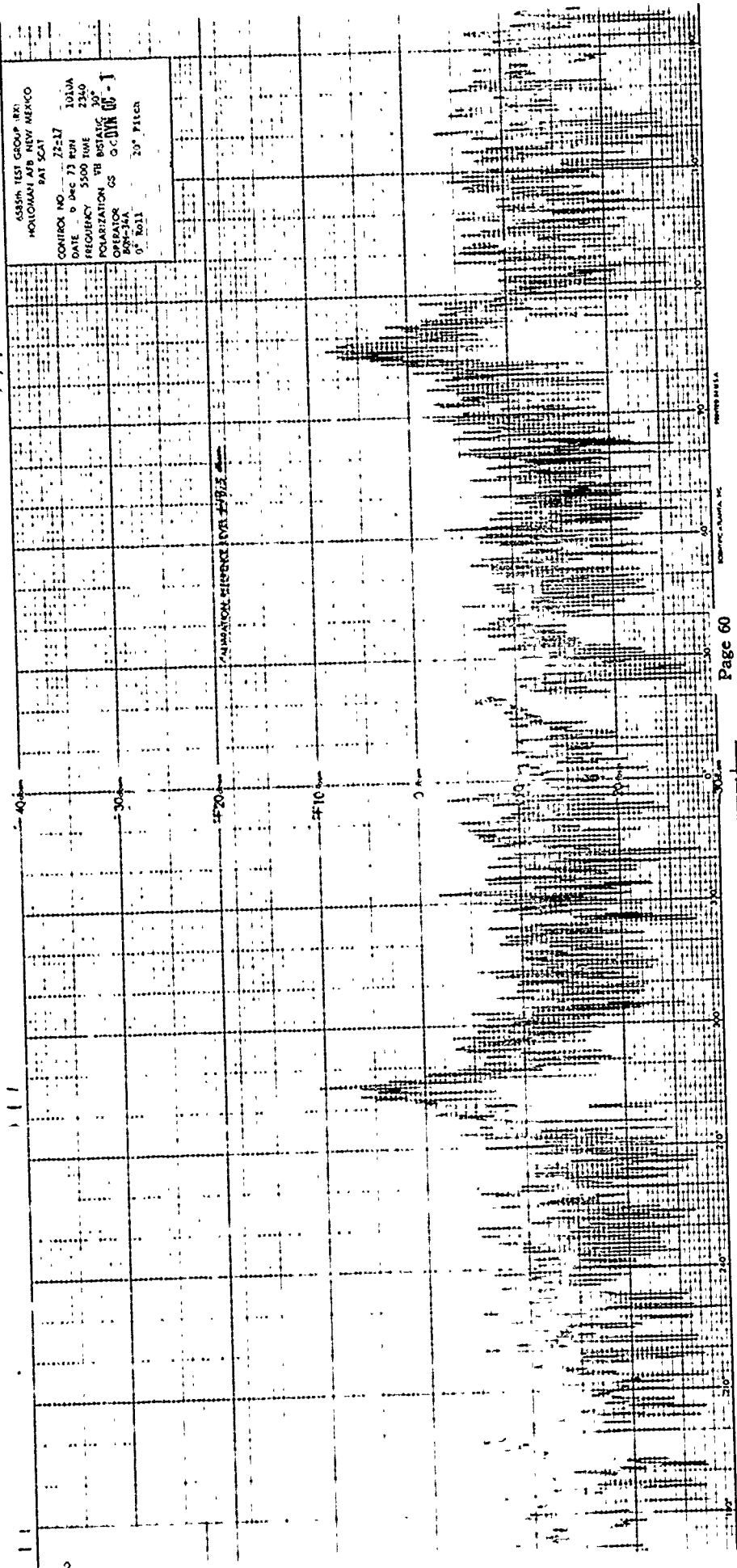


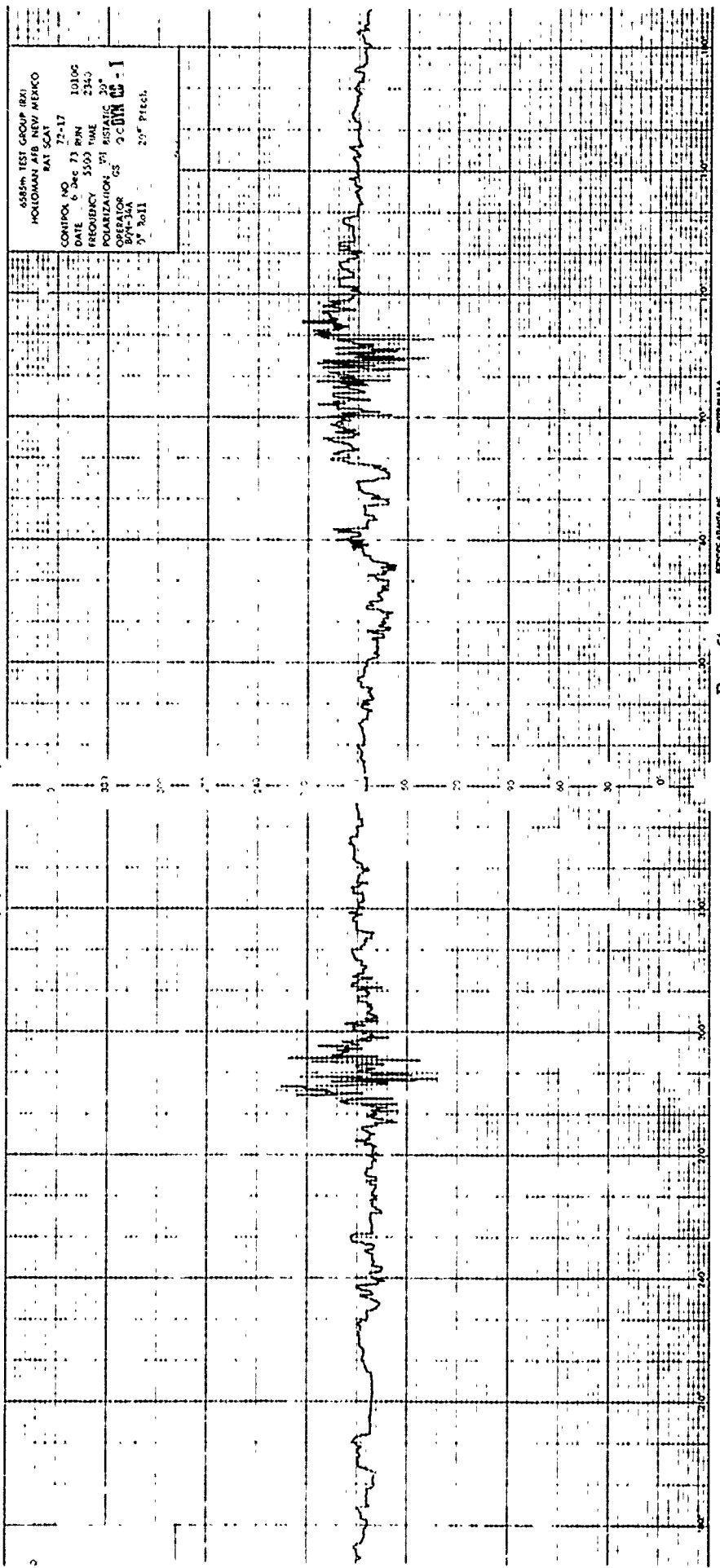
ASSAULT TEST GROUP DIV.
HOLCOMB AIR MOB WTRCO
BAT SEAT

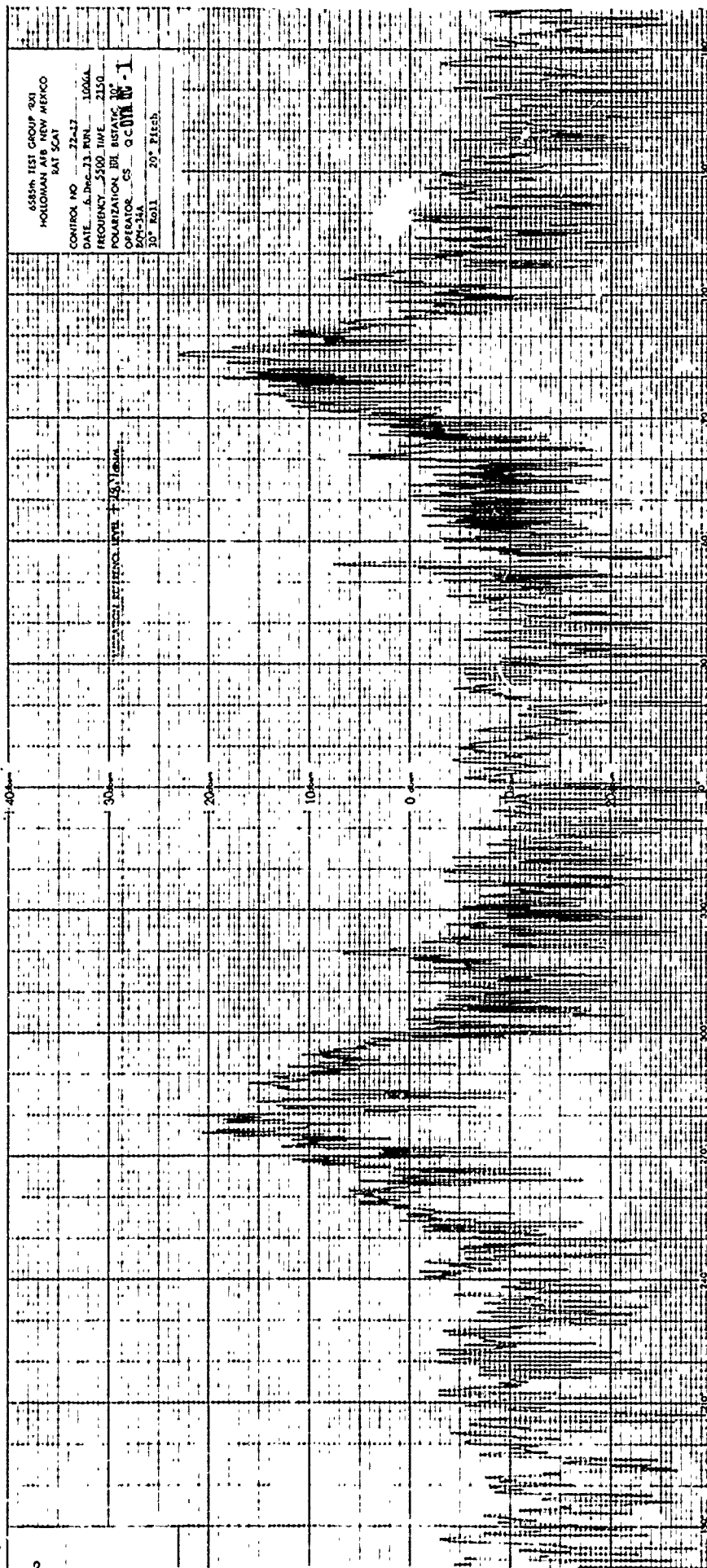
CONTROL NO. 72-12
DATE 6 DEC 73 RFL 1009G
FREQUENCY 5500 TUNE 2330
POLARIZATION W BISTATIC 30°
OPERATOR GS OGDW 00-1
BQC-34A
0° Roll 20° Pitch

5555th TEST GROUP (RT)
HOLCOMB AFB NEW MEXICO
BAT 501

CONTROL NO. 22-17
DATE 6 Dec 73 EPN 1010A
FREQUENCY 5500 TUE 2340
POLARIZATION YB BSLTIC 0°
OPERATOR GS OGDVN 06-1
804-344
0° Roll 20° Pitch







SALES, YES, GROW & EX
HIGHER AND NEW MEX. C.

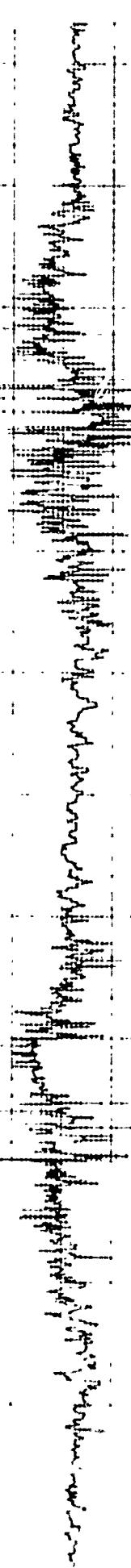
CONFIDENTIAL 72-17

— 28 —

25-1000 in MS in 2002

10-11-12

1998

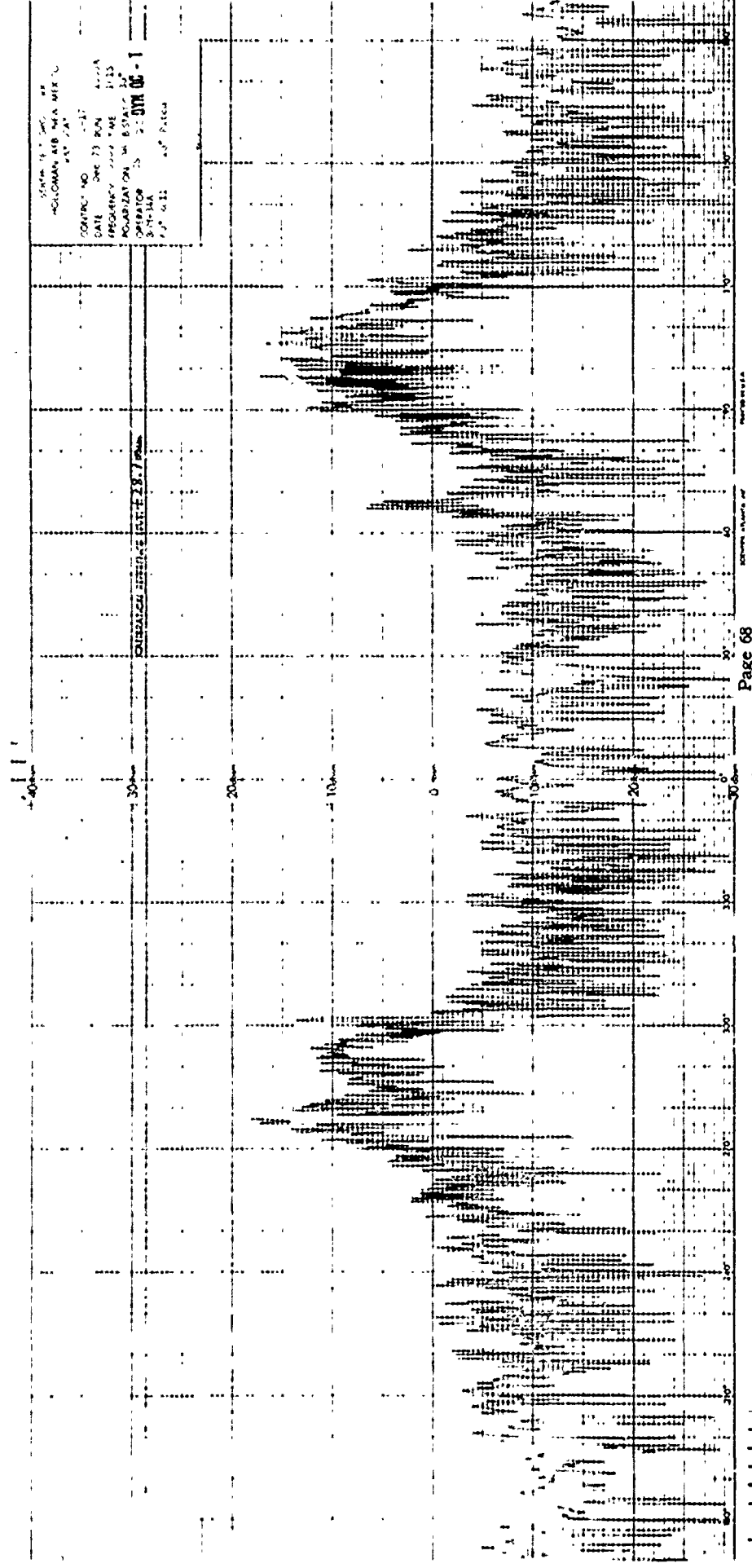
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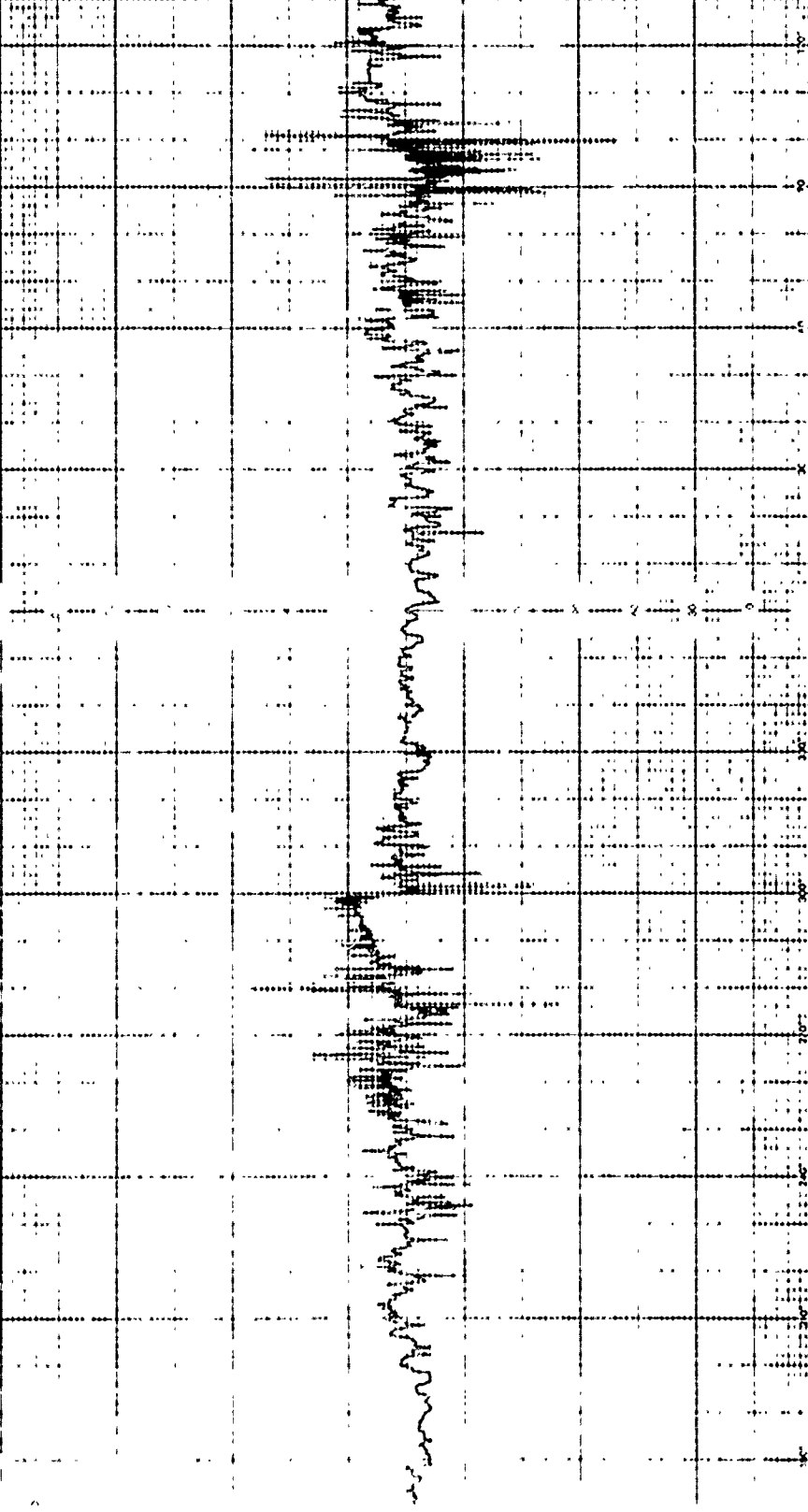
SYSTEM 14-1-200
 HOLONMAN AFB NEW MEXICO
 CONTRACT NO. 14-1-200
 DATE DEC 73 RUN 14-1-200
 FREQUENCY 14.1 MHz
 REGULATION 14.1 MHz
 OPERATOR 14-1-200
 14-1-200

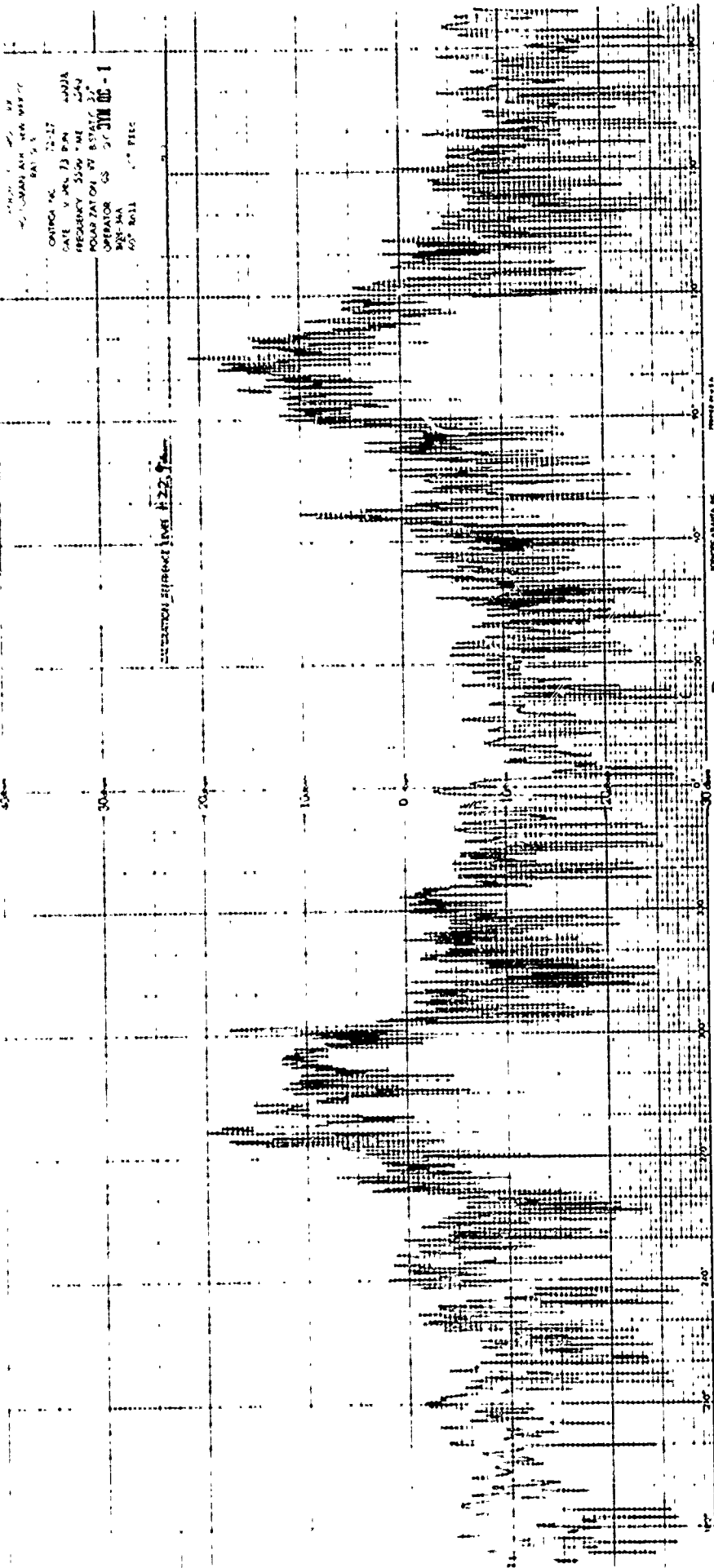
CONVERSION REFERENCE DATE 12-28-73



555m TEST GROUP #30
HOLLOMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO	72-22
DATE	6 DEC 73
FREQUENCY	5557.7 MHz
POLARIZATION	OR ROTATES 30°
OPERATOR	US
SW-34A	2-578 00-1
60" ROLL	43" PITCH



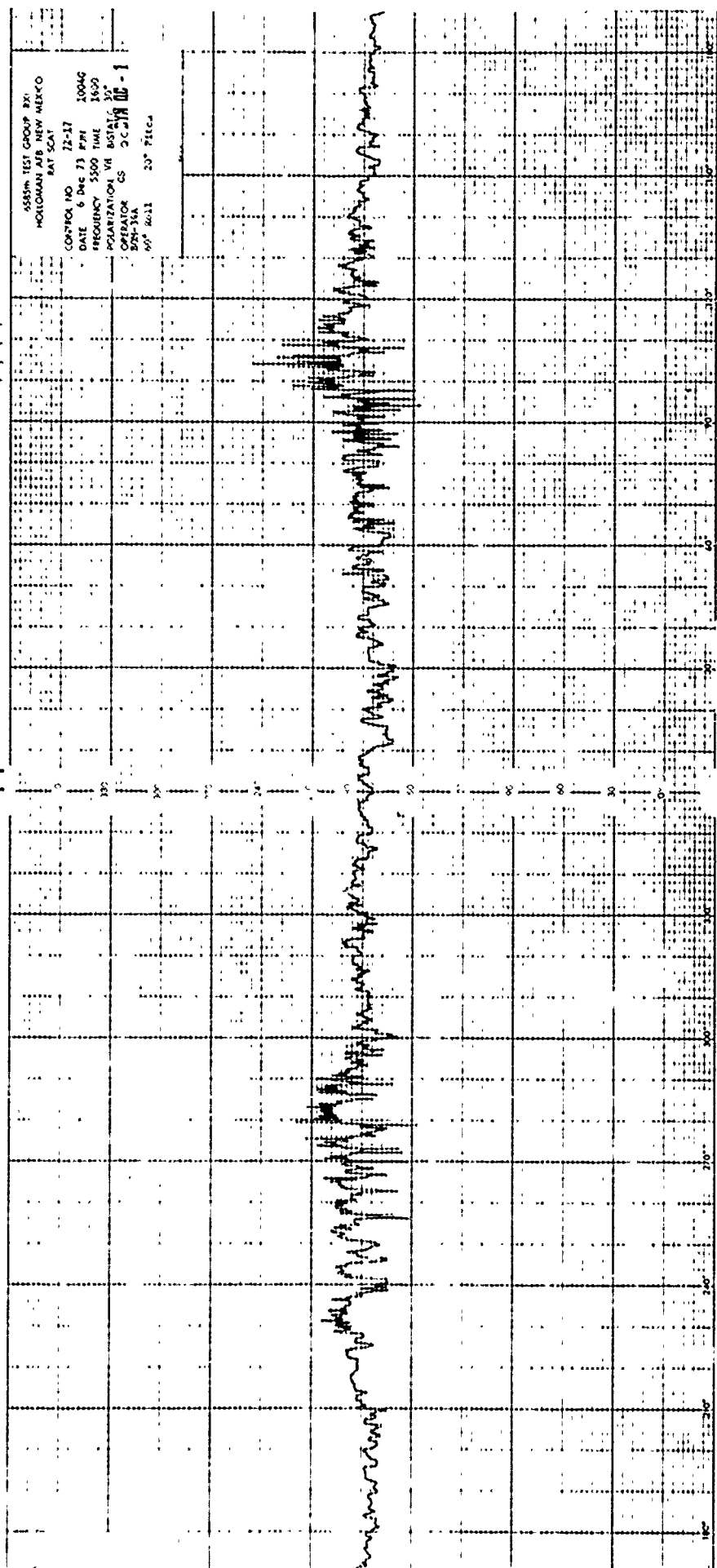


STATION 100
DATE 10-10-73
TIME 11:30 AM
FREQUENCY 5000 Hz
POLLUTION 0.01 BTU
OPERATOR CS
RECORD 100
FILE 100

STATION 100
DATE 10-10-73
TIME 11:30 AM
FREQUENCY 5000 Hz
POLLUTION 0.01 BTU
OPERATOR CS
RECORD 100
FILE 100

MSPA TEST GROUP OF
 HOLLANDIAN AIR NEW MEXICO
 DAY 1/2/77
 CONTROL NO. 12-17 1004A
 DATE 6 Dec 73 RUN 1600
 FREQUENCY 2500 HZ
 MODULATION 100 HZ
 OPERATOR CS GCM
 WFO-14A 23° Pitch
 60° Roll

SUBSTATION 24 HZ 100 HZ 100 HZ



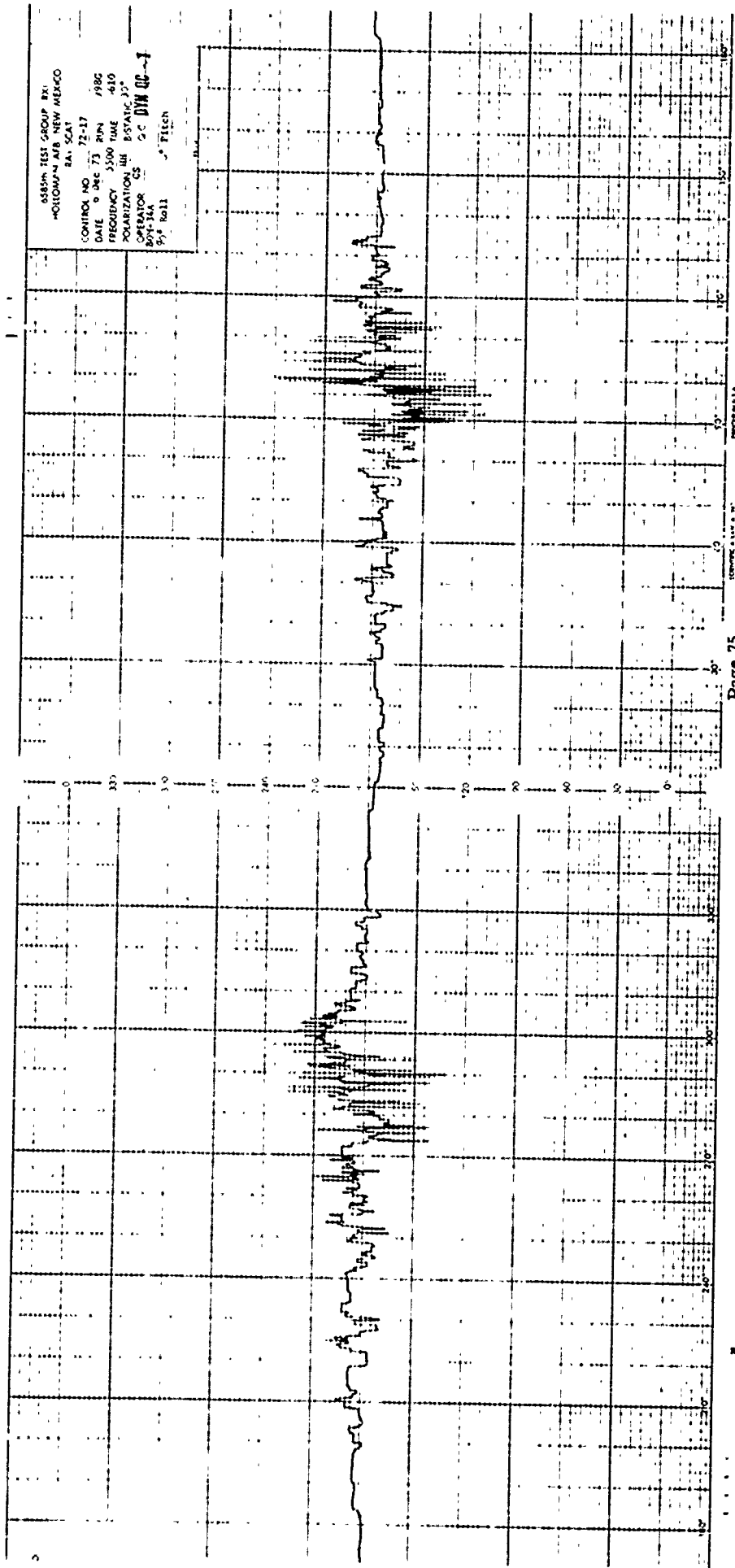
WIND 157 26.2 1.4
NO. 100000 AIR NEW 11/10
WAT 1/1

CARTEL NO. 22-12 928A
DATE 6 DEC 21 1941 2610
FREQUENCY 3500 144 2610
POLARIZATION 01 95 2610
OPERATOR GS 5-30 2610
500-13A
90° Roll 10° Pitch

CALCULATION REFERENCE LEVEL 17.2

6385th TEST GROUP ERI
HOLCOMB AFB NEW MEXICO
1A1 SCAT

CONTROL NO 72-17
DATE 9 Dec 73 RPN /88G
FREQUENCY 3500 TUE 4610
POLARIZATION III ESTATIC 30°
OPERATOR CS G.C. DYN QC-3
BOM-31A
9th Ball
J. Fitch



SSSA TEST GROUP #2
HOLLAND AIR NEW MEYCO
PAT 541

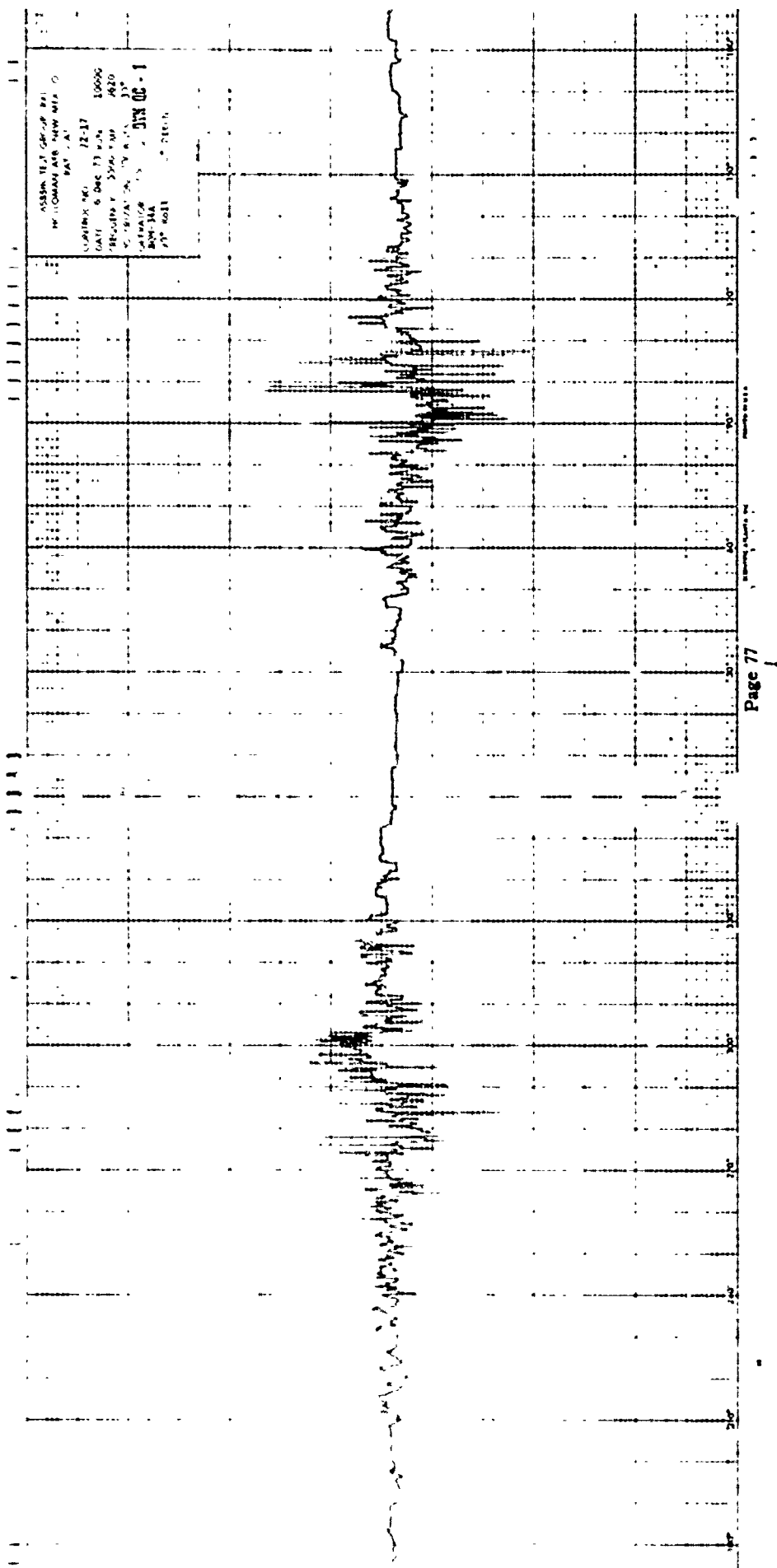
CONTROL NO. 12-17
DATE 6 Dec 73 R. V. 1000A
FREQUENCY 5500 TIME 0620
POLARIZATION 1W BSTATC 30°
OPERATOR CS O.C. JWA 05-1
RPT-34A
20° Roll 20° Pitch

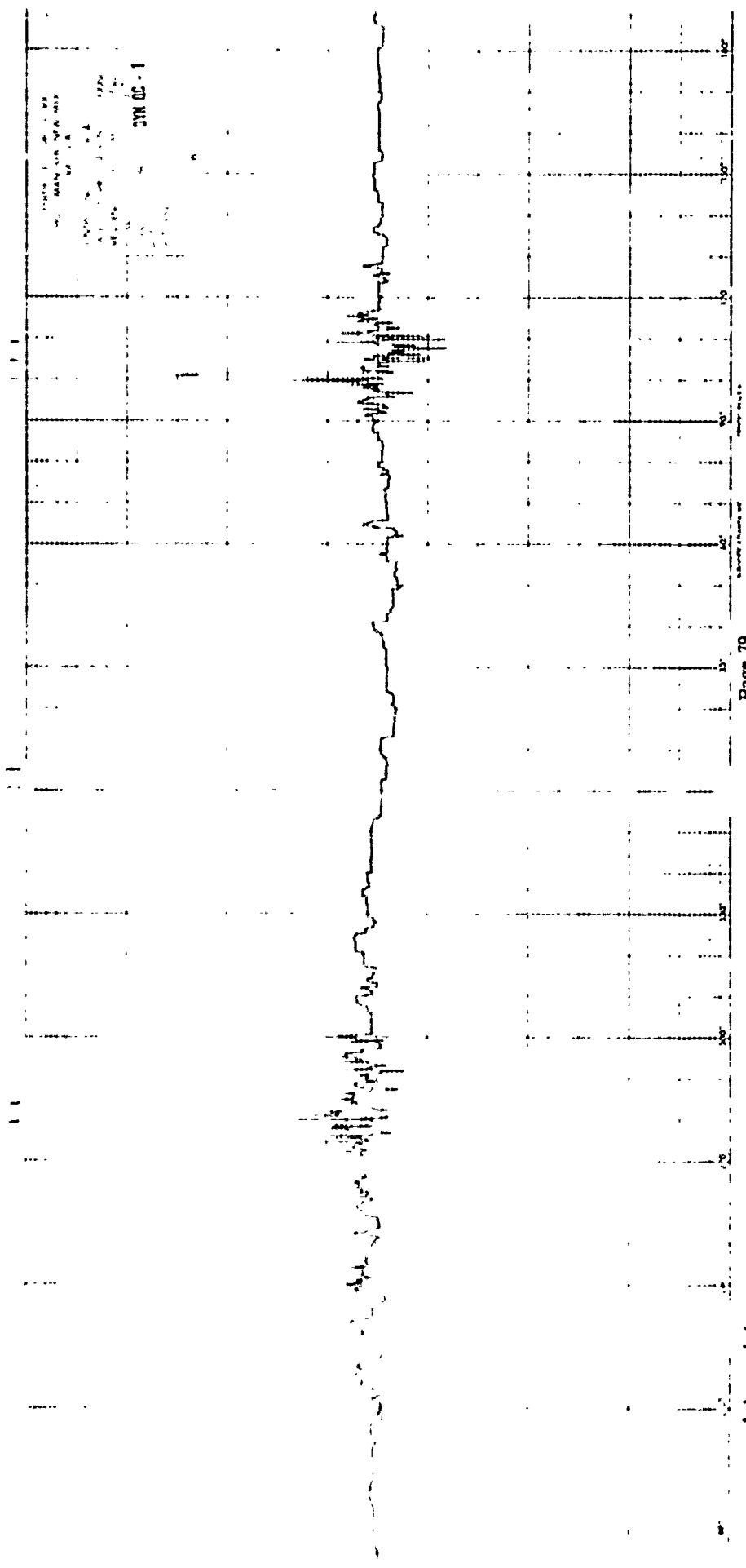
CALIBRATION REFERENCE LEVEL -73.4-00mm

PRINTED IN U.S.A.

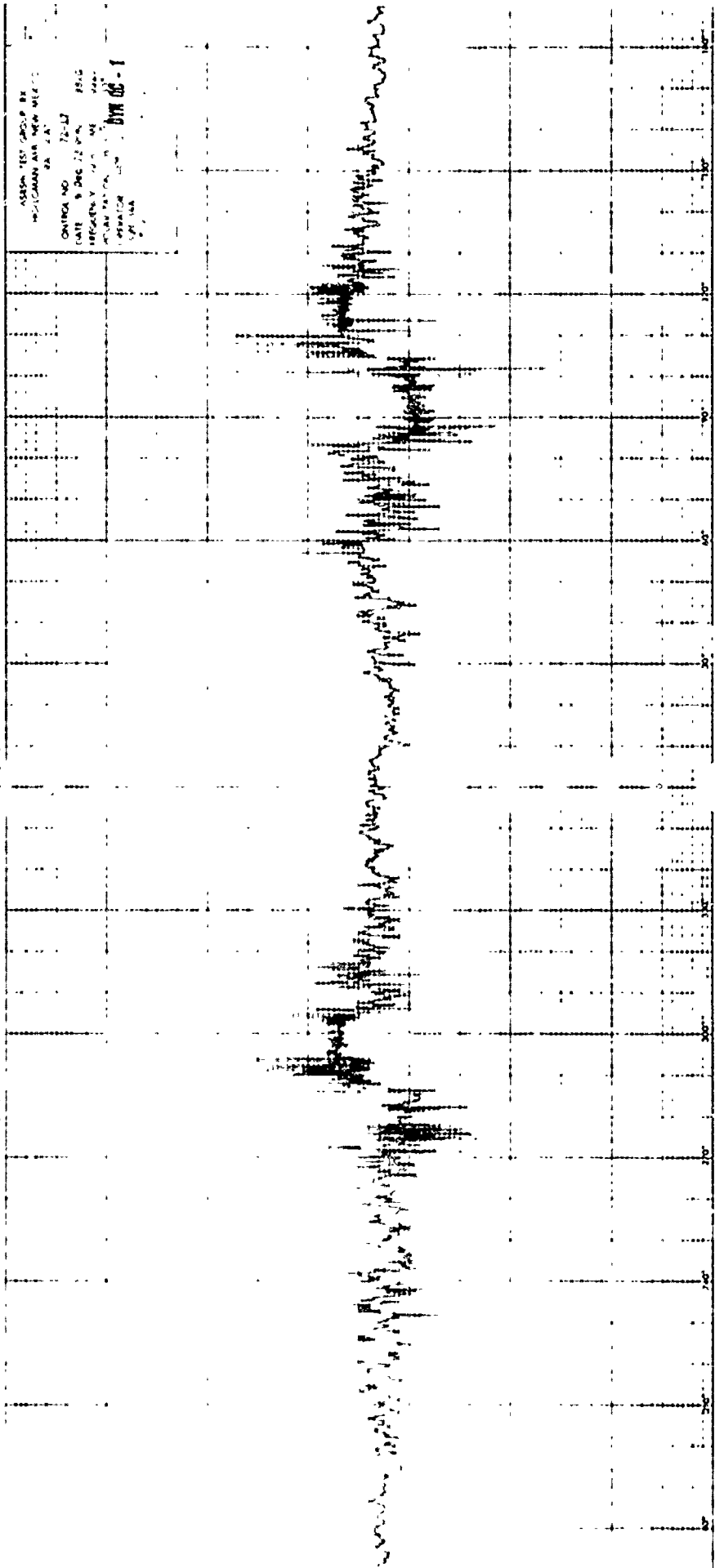
DO NOT WRITE IN THESE SPACES

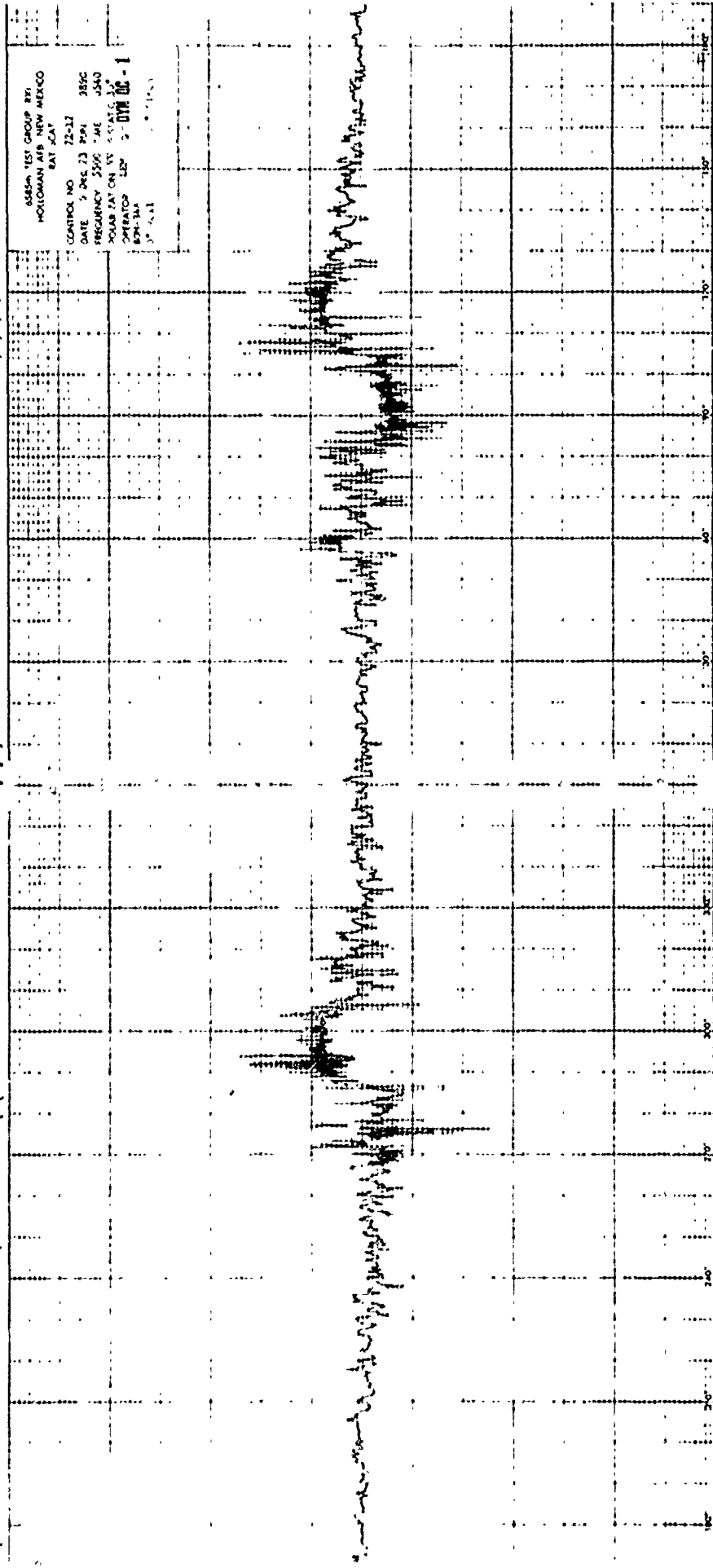
Page 76





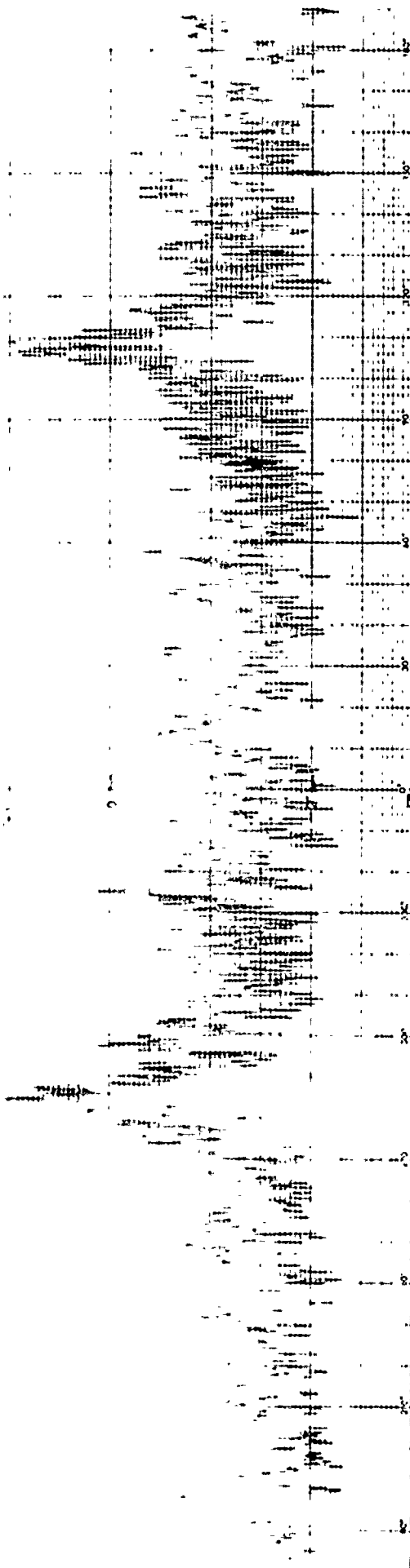
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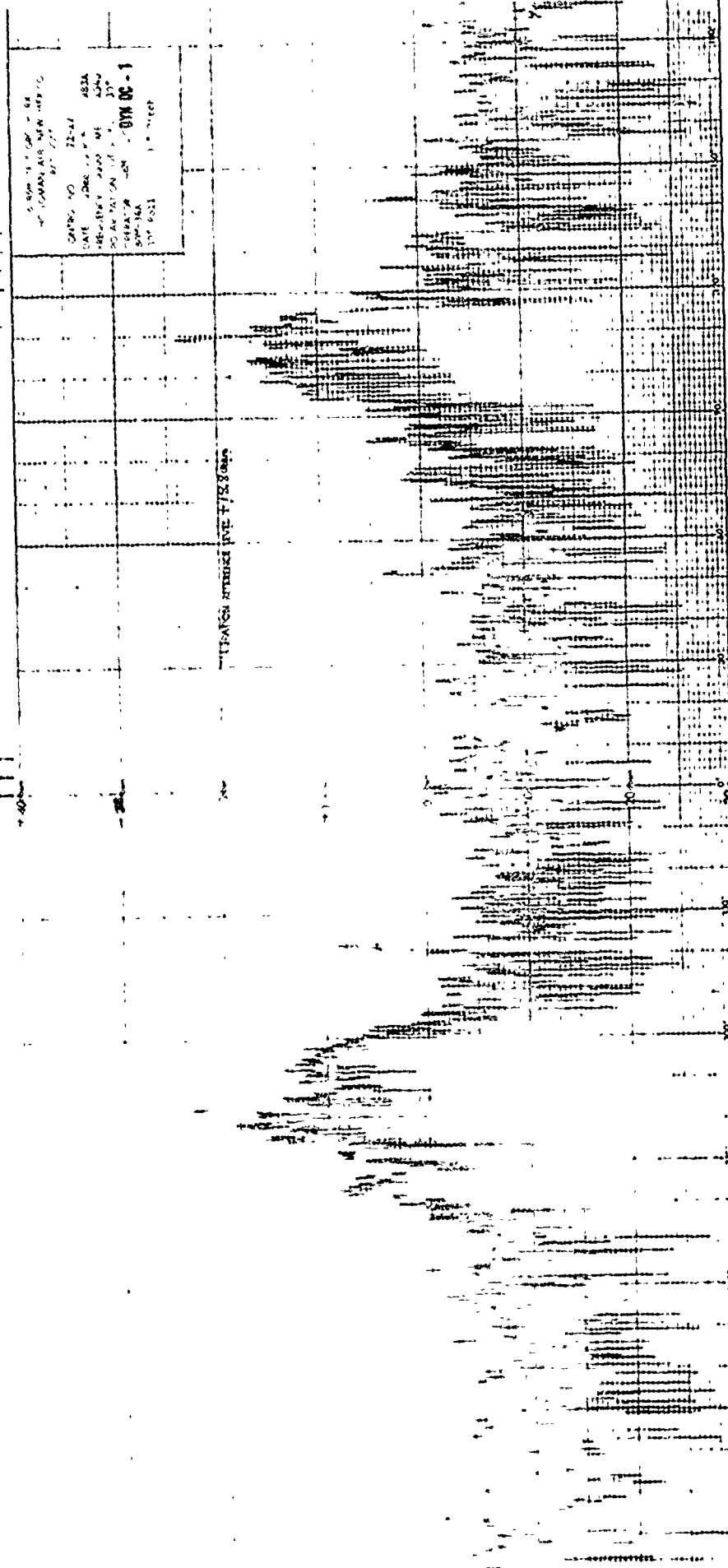




1. NAME OF THE PARTY 2. ADDRESS 3. CITY 4. STATE 5. ZIP 6. PHONE 7. FAX 8. E-MAIL 9. OTHER		10. NAME OF THE PARTY 11. ADDRESS 12. CITY 13. STATE 14. ZIP 15. PHONE 16. FAX 17. E-MAIL 18. OTHER	
19. NAME OF THE PARTY 20. ADDRESS 21. CITY 22. STATE 23. ZIP 24. PHONE 25. FAX 26. E-MAIL 27. OTHER		28. NAME OF THE PARTY 29. ADDRESS 30. CITY 31. STATE 32. ZIP 33. PHONE 34. FAX 35. E-MAIL 36. OTHER	

DATE OF BIRTH



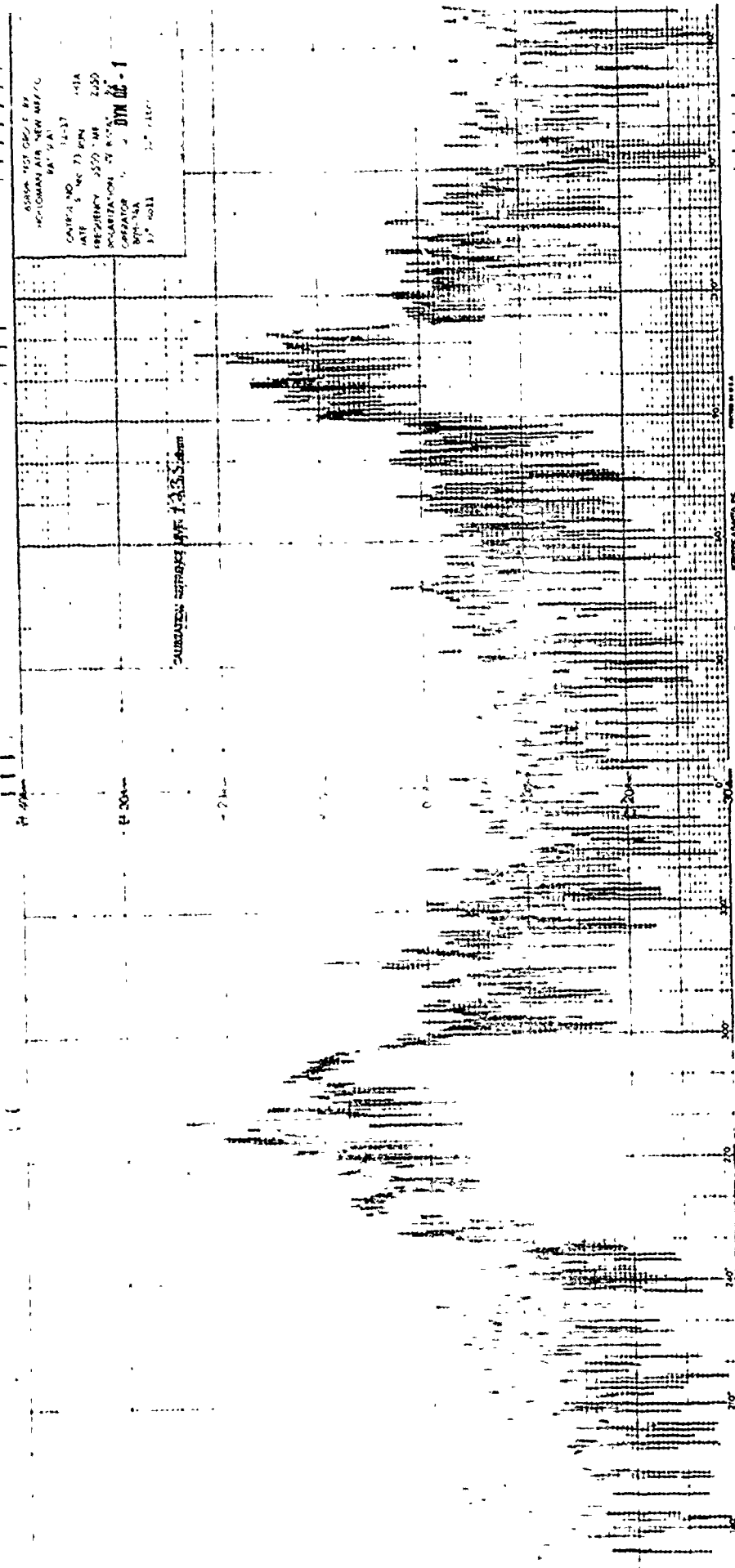


CARRIER NO. 16-37
DATE Dec 73 BYM
FREQUENCY 250 MHz
DEVIATION 9 KHz
MODULATOR MOD.
BYM-1A
30 WATT

11A
ZSD
DYN 80

30 WATT

DATE: 12/15/2011 TIME: 1:35:45



6855A TEST GROUP BK1
MOLICOMAN AIR NEW MEXICO
BAT SCAT

CONTROL NO 72-17
DATE 4 Dec 73 BPA
FREQUENCY 5500 HZ 2020
POSITION ON W 8°54'N 13°
SUNNY 65
WIND 0-10 KTS - 1
WAVE 0-10 KTS
SEA 0-10 KTS

0 10 20 30 40 50 60 70 80 90 100

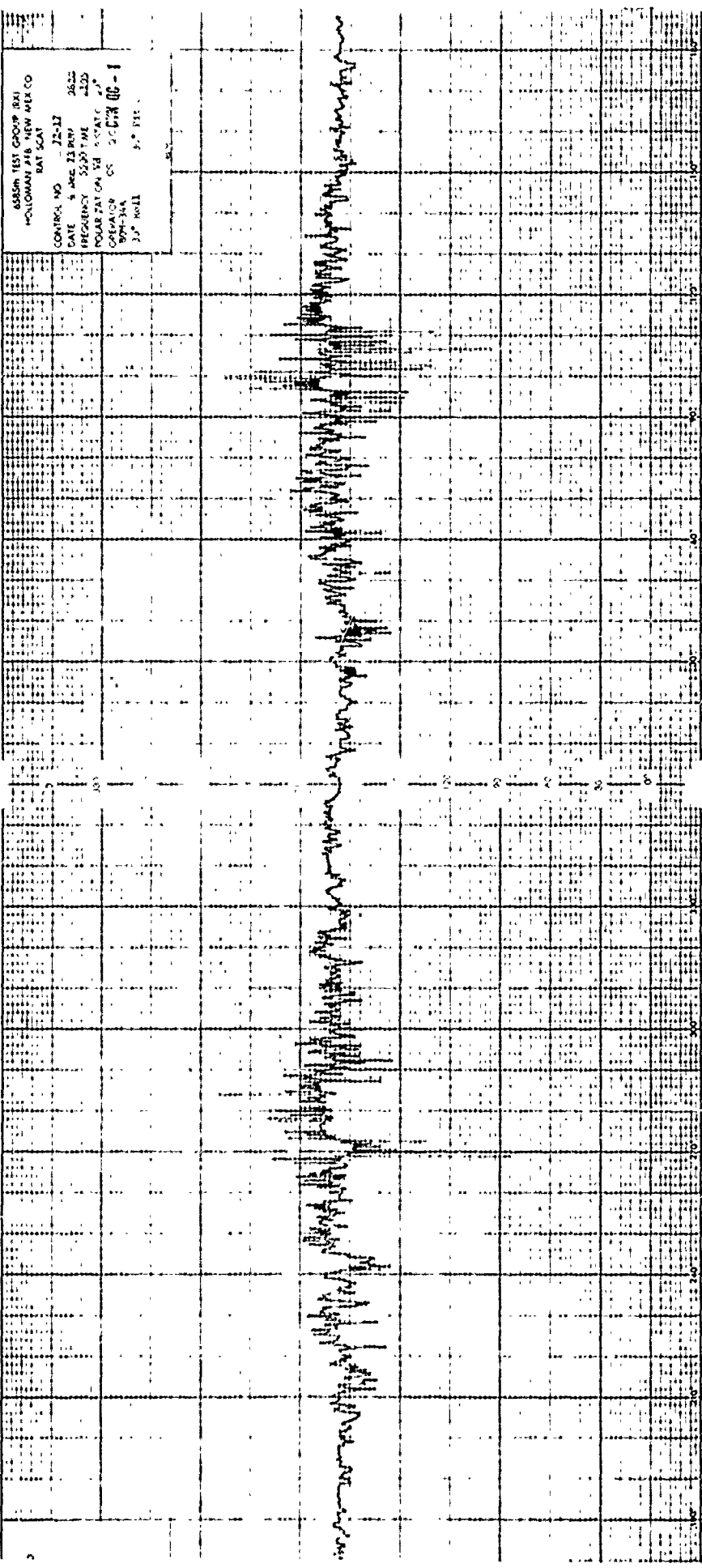
0 10 20 30 40 50 60 70 80 90 100

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Reproduced from
best available copy.

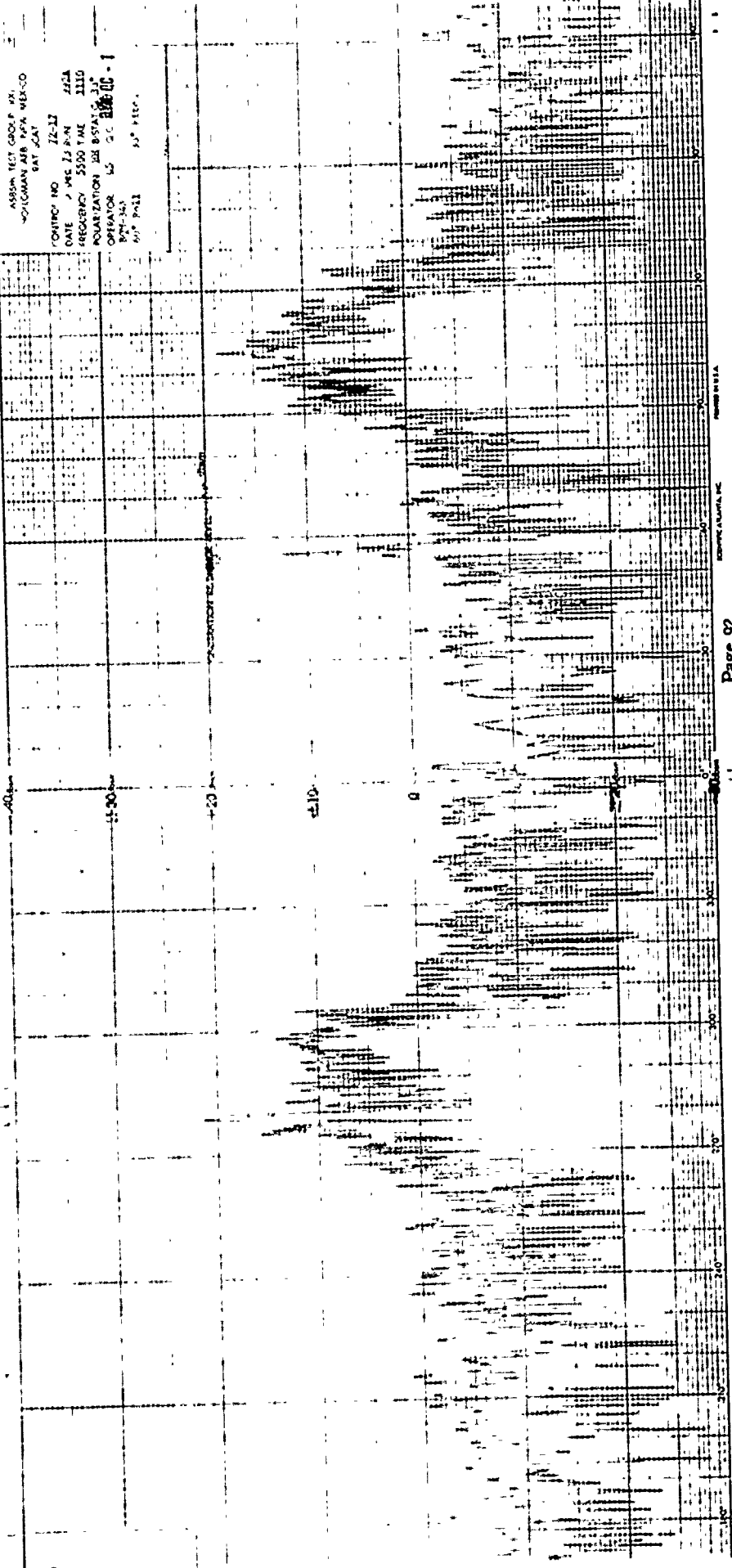
WOLLMAN AIR NEW MEXICO
RAT 5247
COPIES NO. 12-17 2024
DATE 5 Dec 73 P-11 2100
FREQUENCY 5900 KHz 2100
POLARIZATION 30 KHz 2100
OPERATOR GS 3 00N 00-1
874-104 10" Roll 10" Piles

Simulation, average over 12.3 sec



ASSUM TEST GROUP 121
WOLFGANG AIR TPA MEXICO
SAT 201

CONTROL NO 12-12
DATE 7 DEC 73
FREQUENCY 5500 KHz
POLARIZATION RH 85AT 31°
OPERATOR US G.C. 200000-1
RTH 143
RTH 143
RTH 143

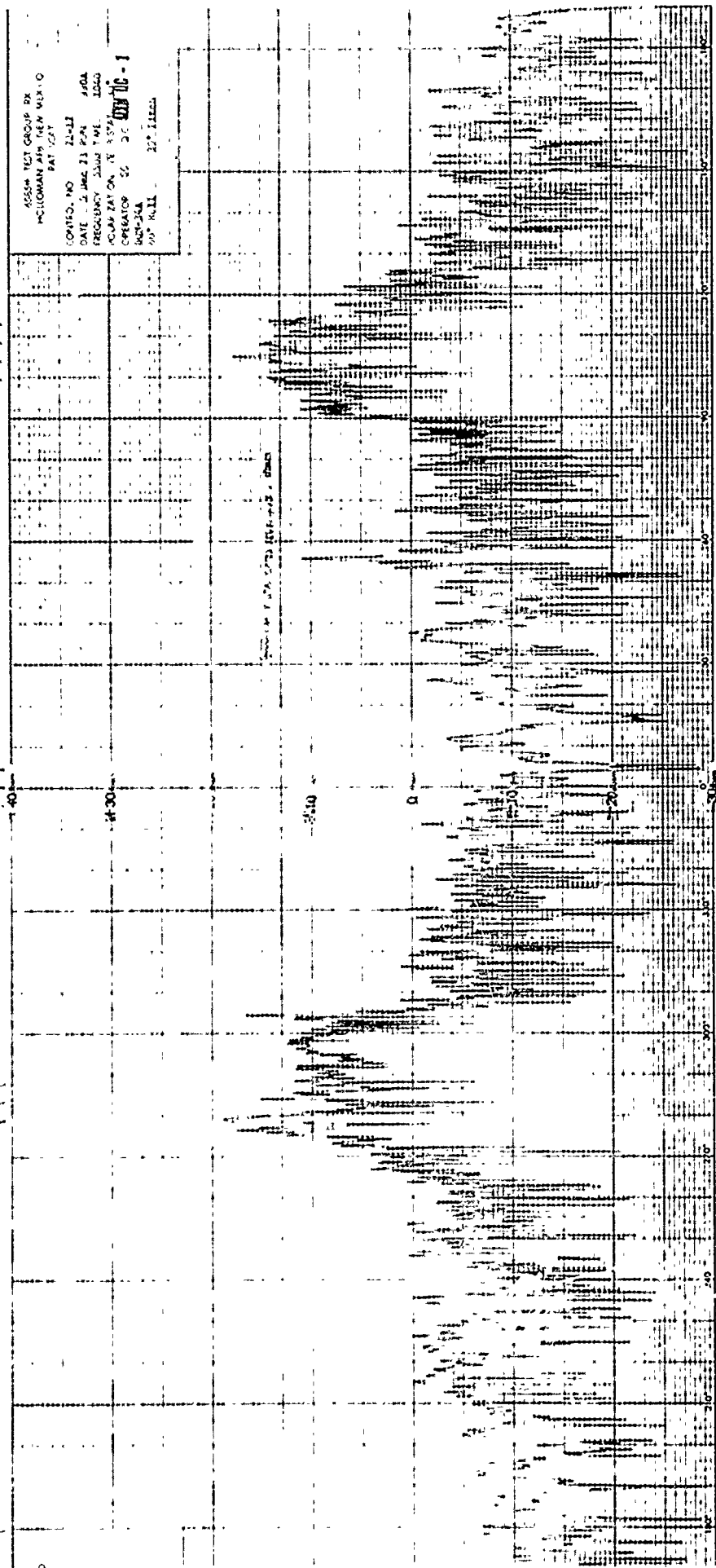


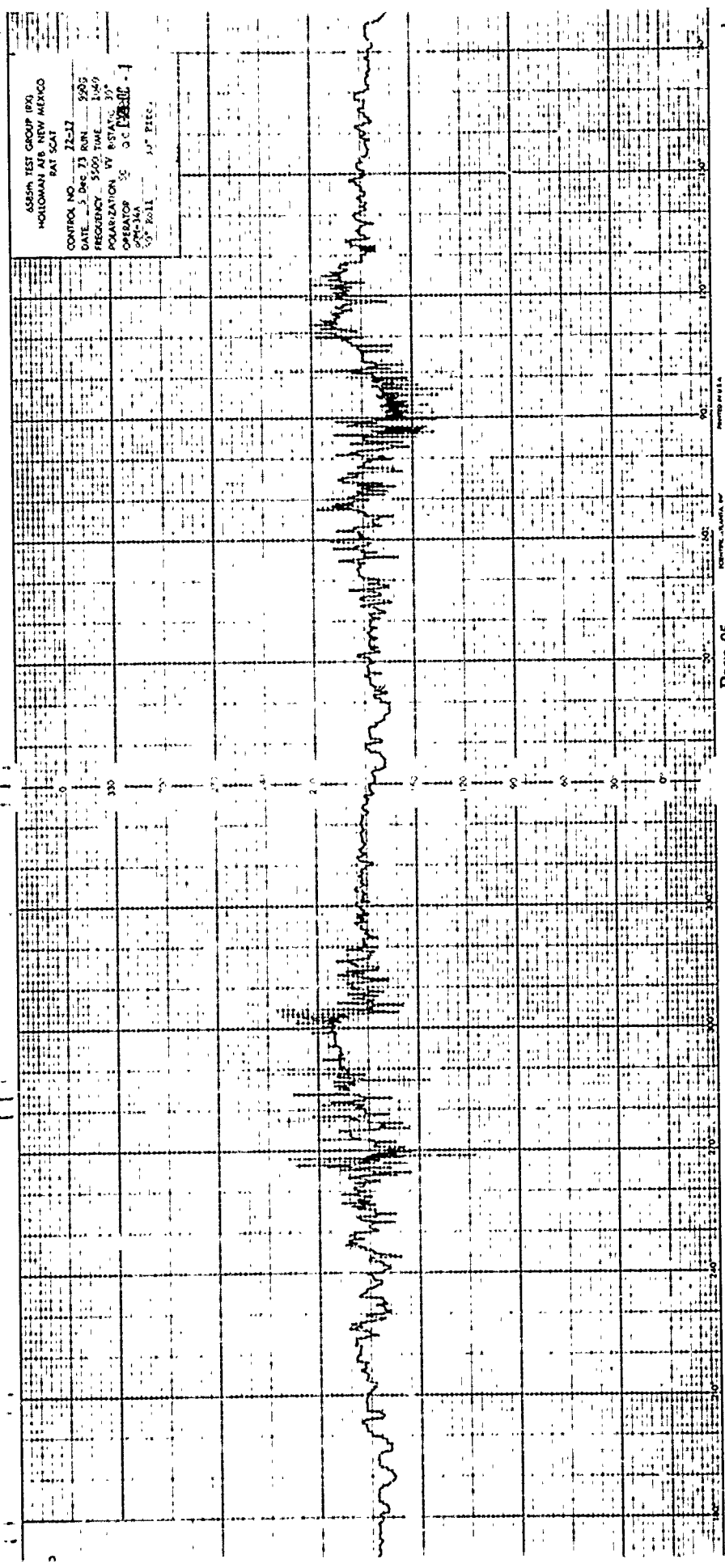
ASBHM TEST GROUP (BT)
HOLLANDMAN AIR NEW MEXICO
BAT 50A

CONTROL NO. 11
DATE 5 JUL 53 RUN 2426
FREQUENCY 5530 KHz 1110
POSITION ON 201 1210
COUNTRY 10 20 100 100
SYMBOL 10 100 100
10 100 100

ASSM TGT GROUP BY
MICROMAN AT NEW MILA O
BAT 104

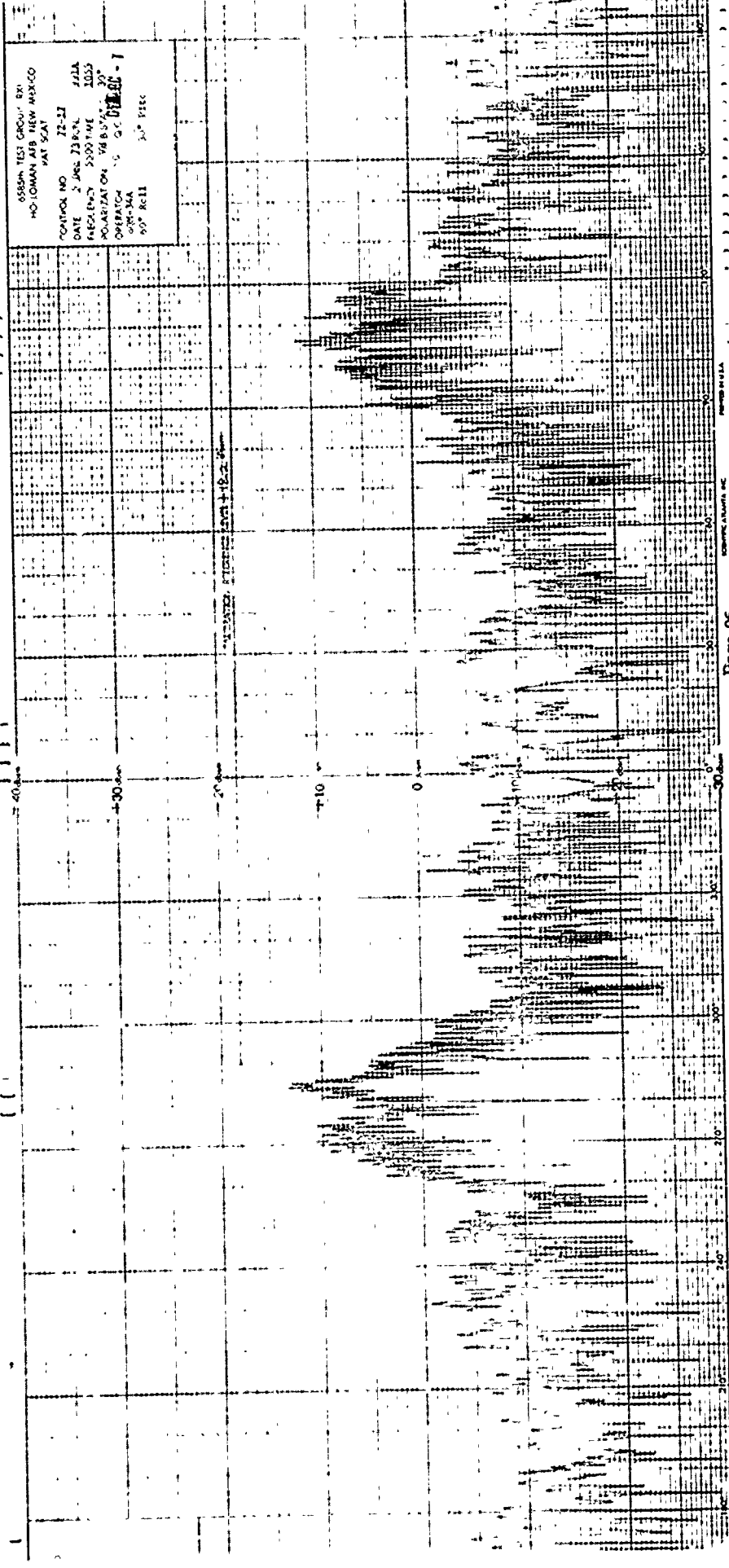
CONTO. NO 21-11
DATE 2 JUNE 71 PM 1500
FREQUENCY 2500 T.M.L. 1050
ACAP ZAT ON 18 157
OPERATOR 22 20
MOS-20A
400 KALL 10° 1100





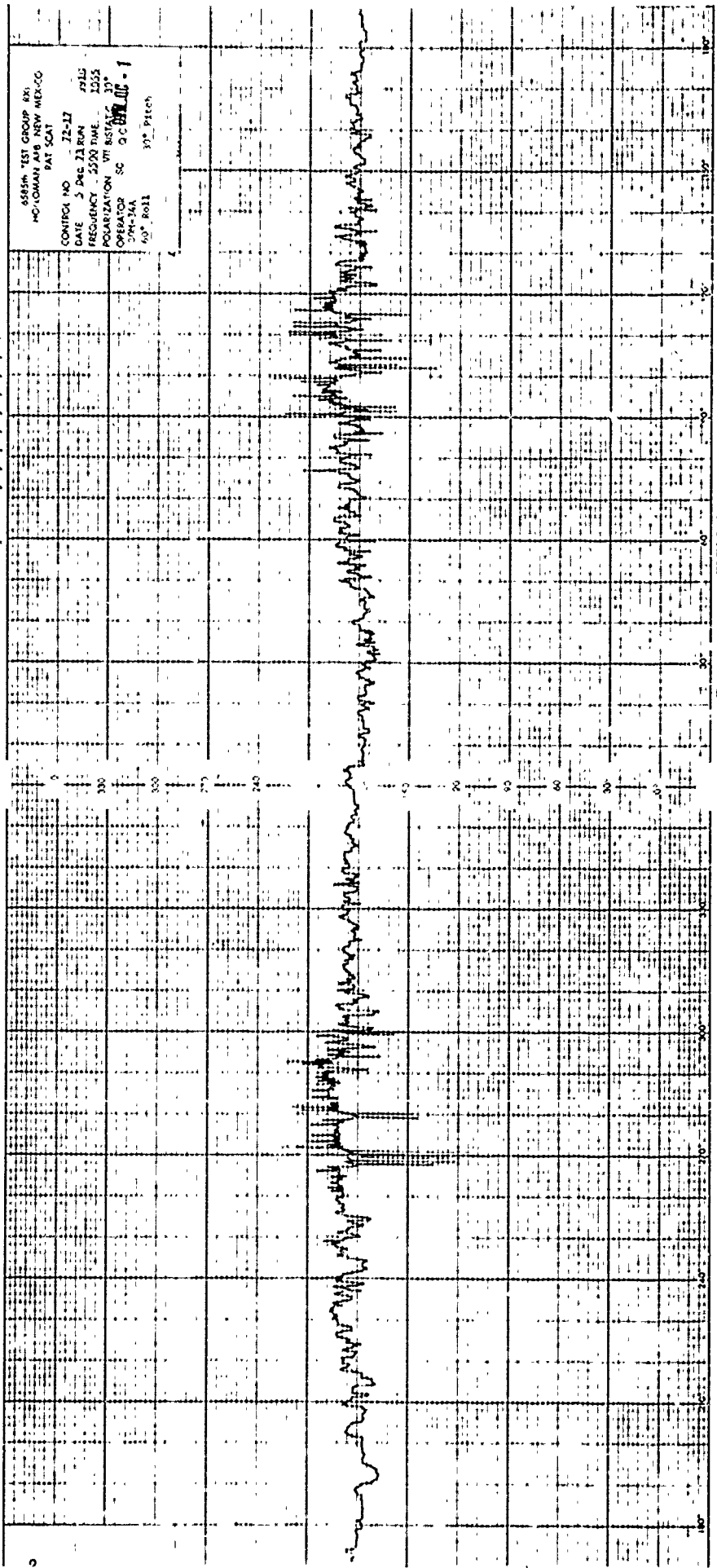
655th TEST GROUP (BQ)
HOLLAMAN AFB NEW MEXICO
BAT SCAT

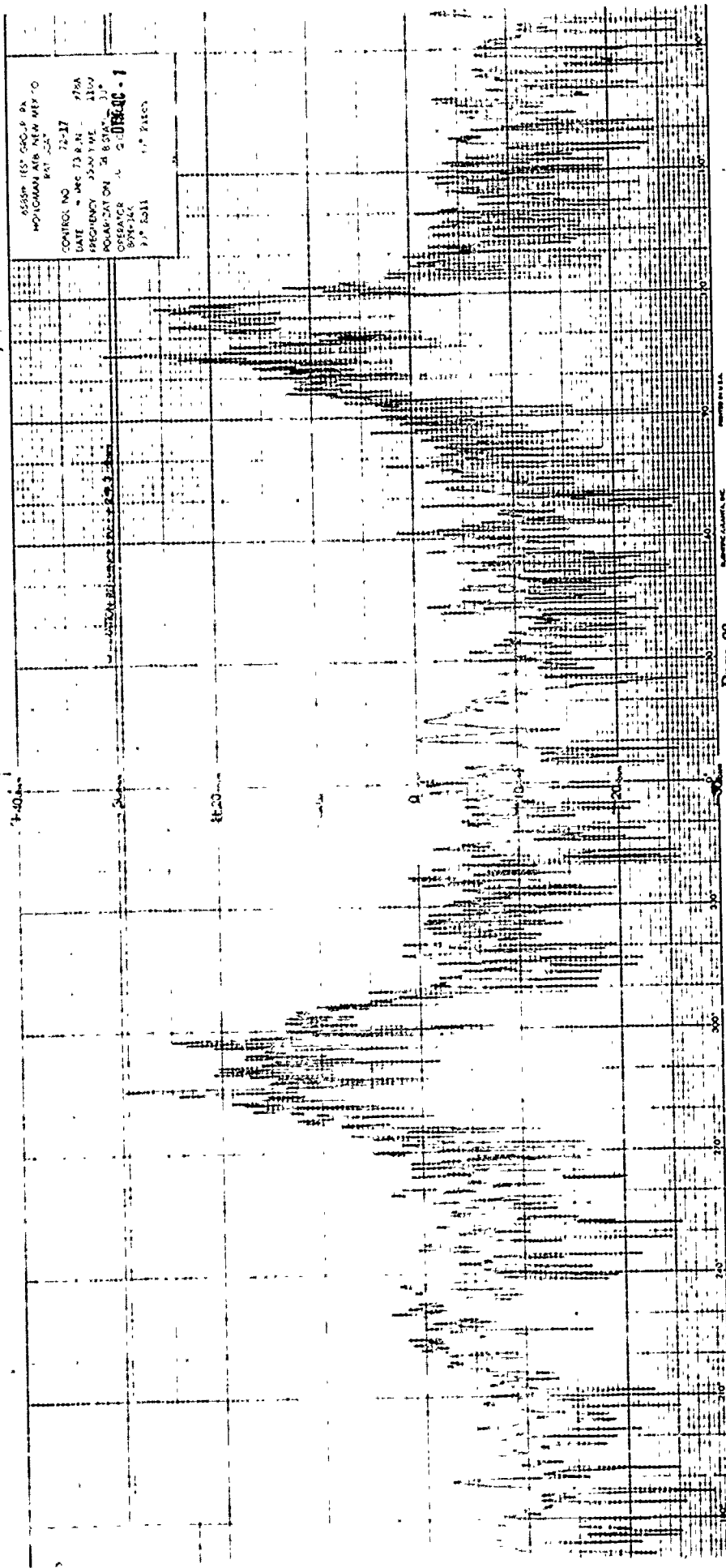
CONTROL NO. 72-17
DATE 5 Dec 73 RUN 9205
FREQUENCY 5500 THz 1149
POLARIZATION VV ESTATE 30°
OPERATOR SS G.C. PARR - 1
100 BALL 10° PEGG



5584-103 CROU- BY
NO-TOMAN LAB NEW MEXICO
MAT SAT

CONTROL NO 72-27
DATE 2 JUL 73 RNL 121A
FREQUENCY 5000 MHz 1055
POLARIZATION VERTICAL 30°
OPERATOR G.C. 07-28-73
08-34A 30° RCLL 30° DEC

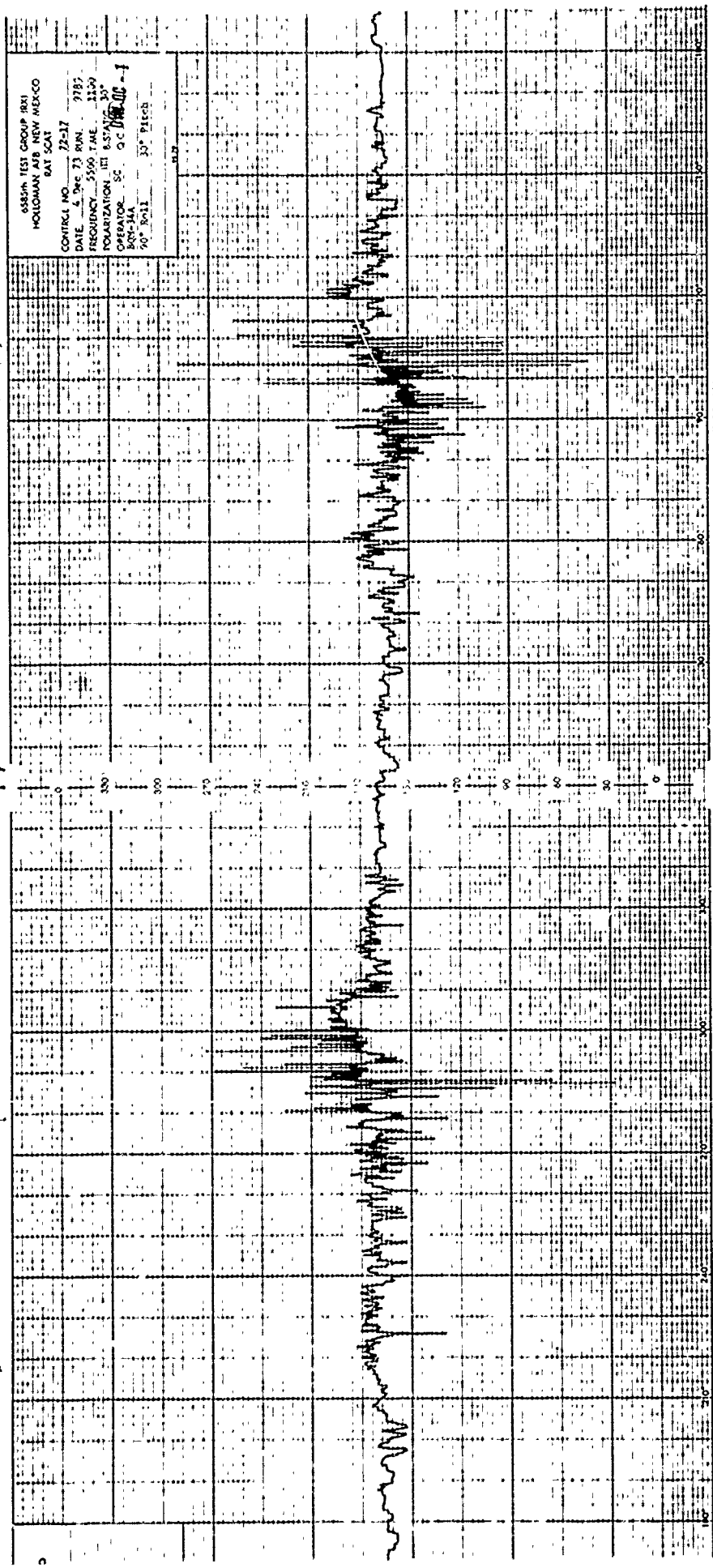




ASSOC. 151 GAO. 8 DA
MOTIONAL ATB NEW MEXICO
BAT 250
CONTROL NO 72-17
DATE 10-13-61
FREQUENCY 5500 Hz
POLARIZATION 24 8 Hz
OPERATOR A. C. 1000000-1
9/7/61 11.00 PAGES

6585th TEST GROUP (RX)
HOLLOWMAN ASB NEW MEX-CO
RAY SCAT

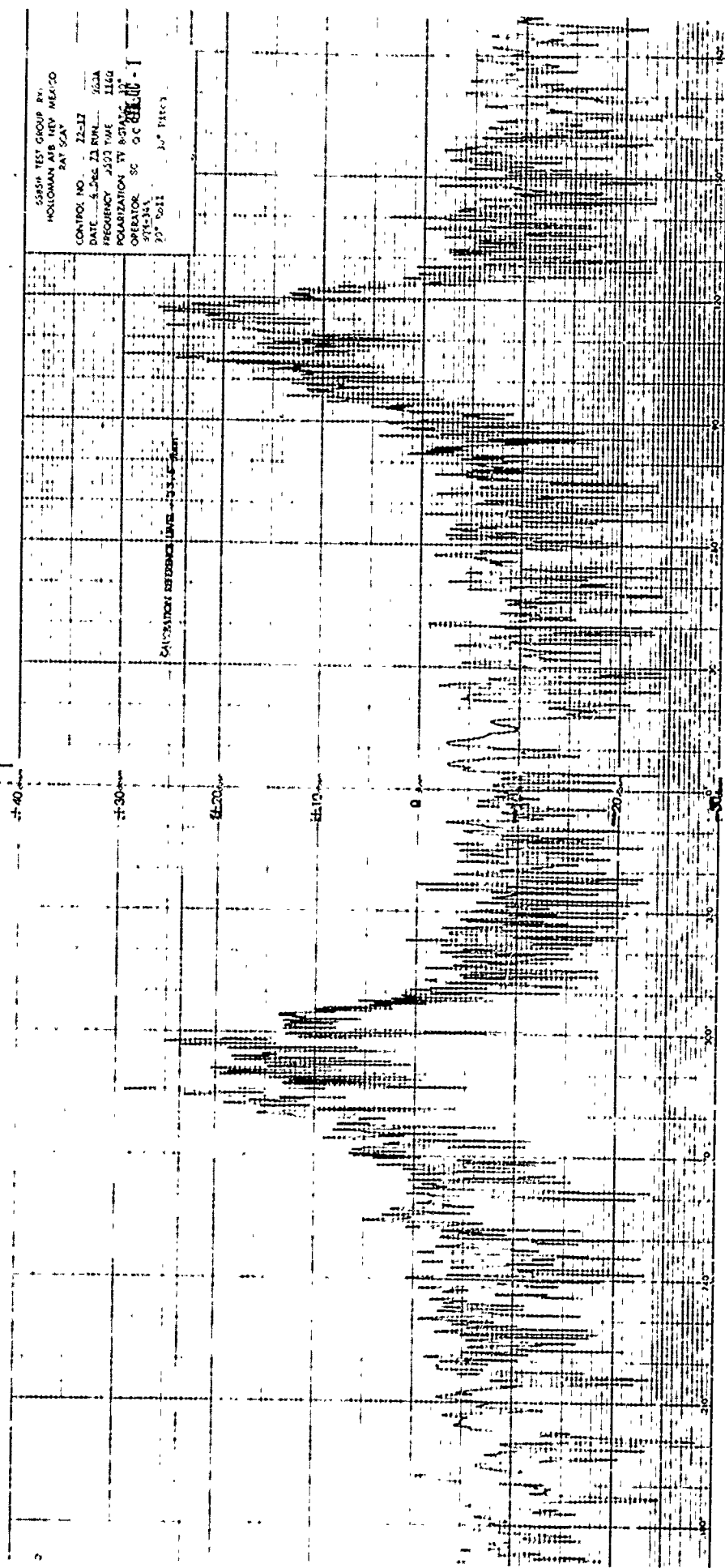
CONTROL NO. 72-17
DATE 4 Dec 73 RUN 9785
FREQUENCY 5500 TME 2200
POLARIZATION III 8 STATE 30°
OPERATOR SC QC *W. J. C.*
BOB-14A
90° Roll 30° Pitch

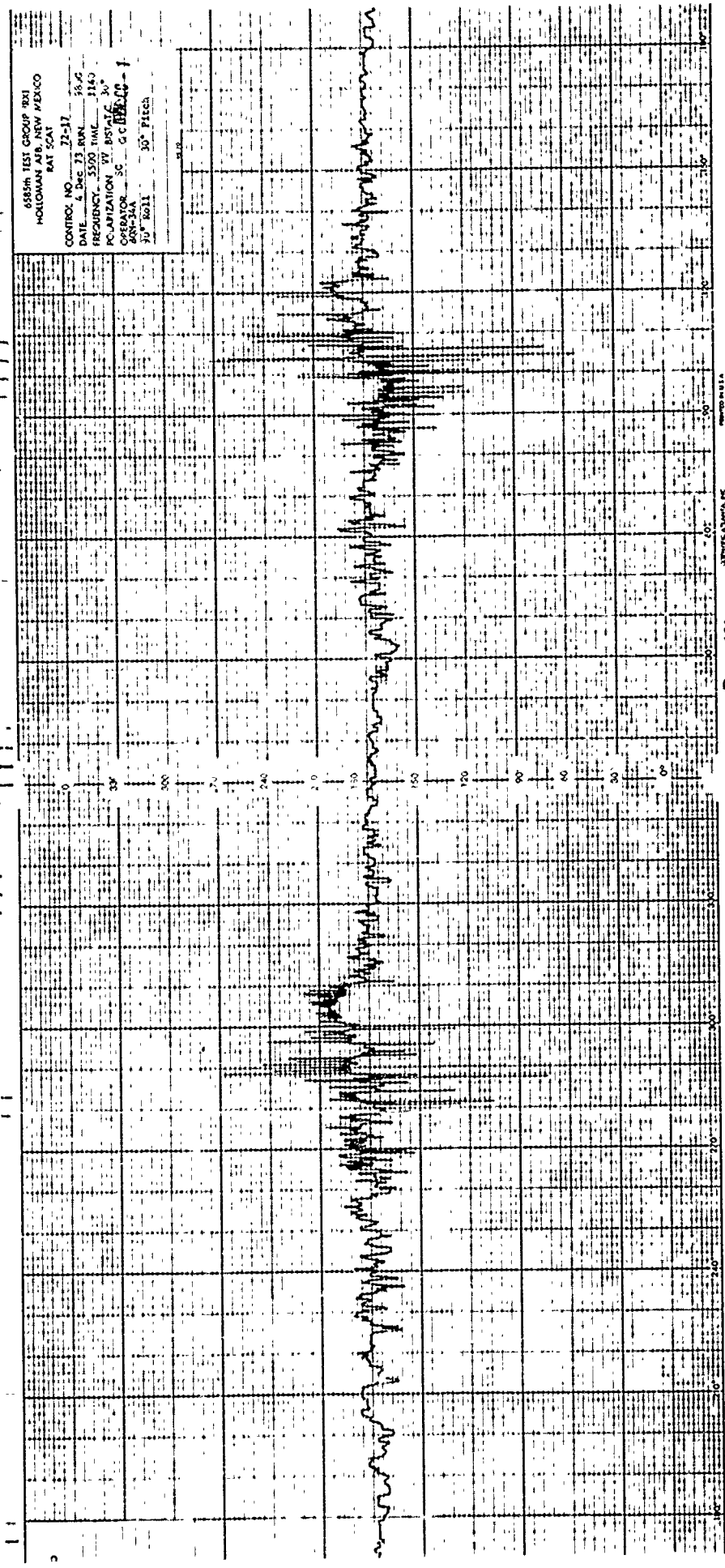


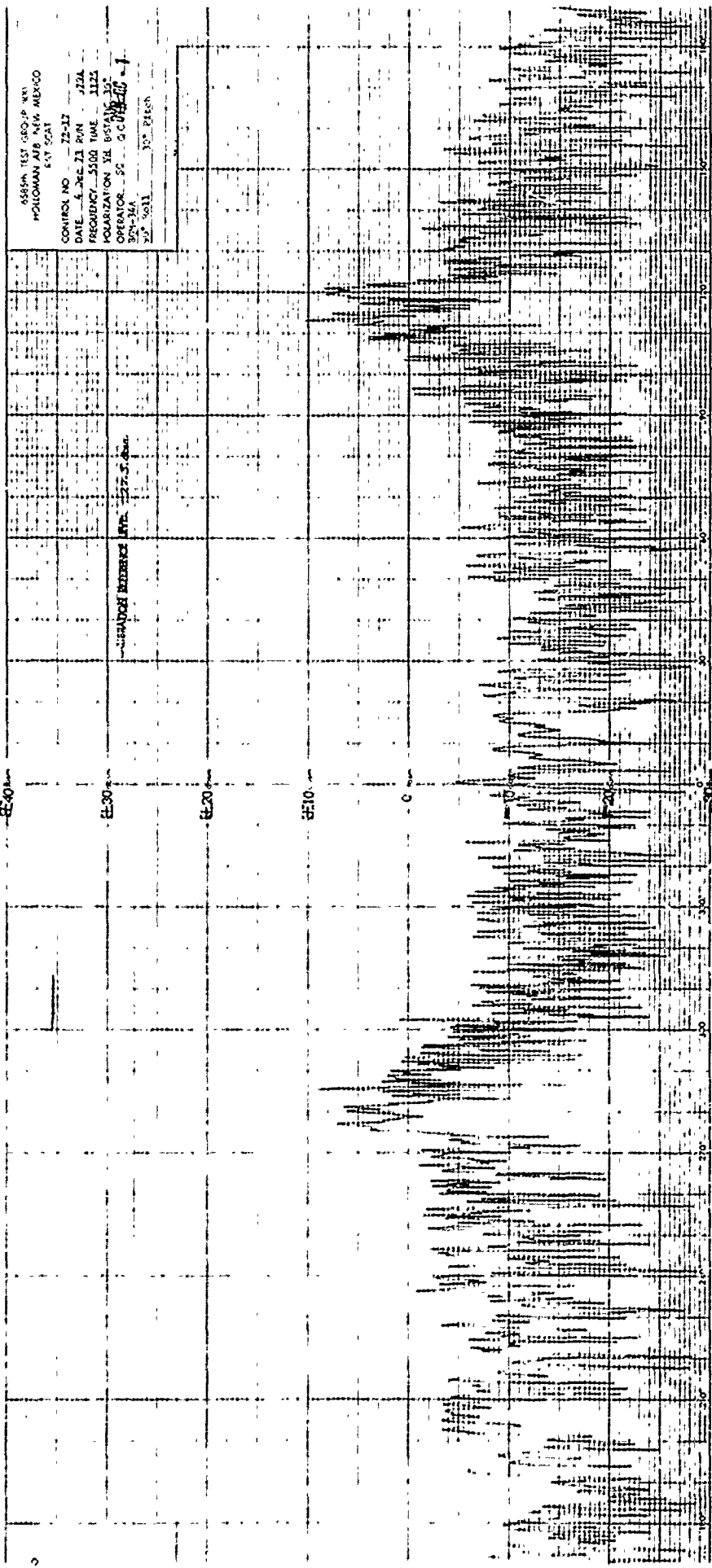
5385th TEST GROUP BY
HOLLOMAN AIRB. NEW MEXICO
DAY 5/47

CONTROL NO. 12-17
DATE 4.28.23 RNL 1160
FREQUENCY 2000 MHz
POLARIZATION TV 8-11-60
OPERATOR SC CC 21.00-1
22° 00' 10" 10° 00' 00"

EXPERIMENT REFERENCE LINE - 23.5°

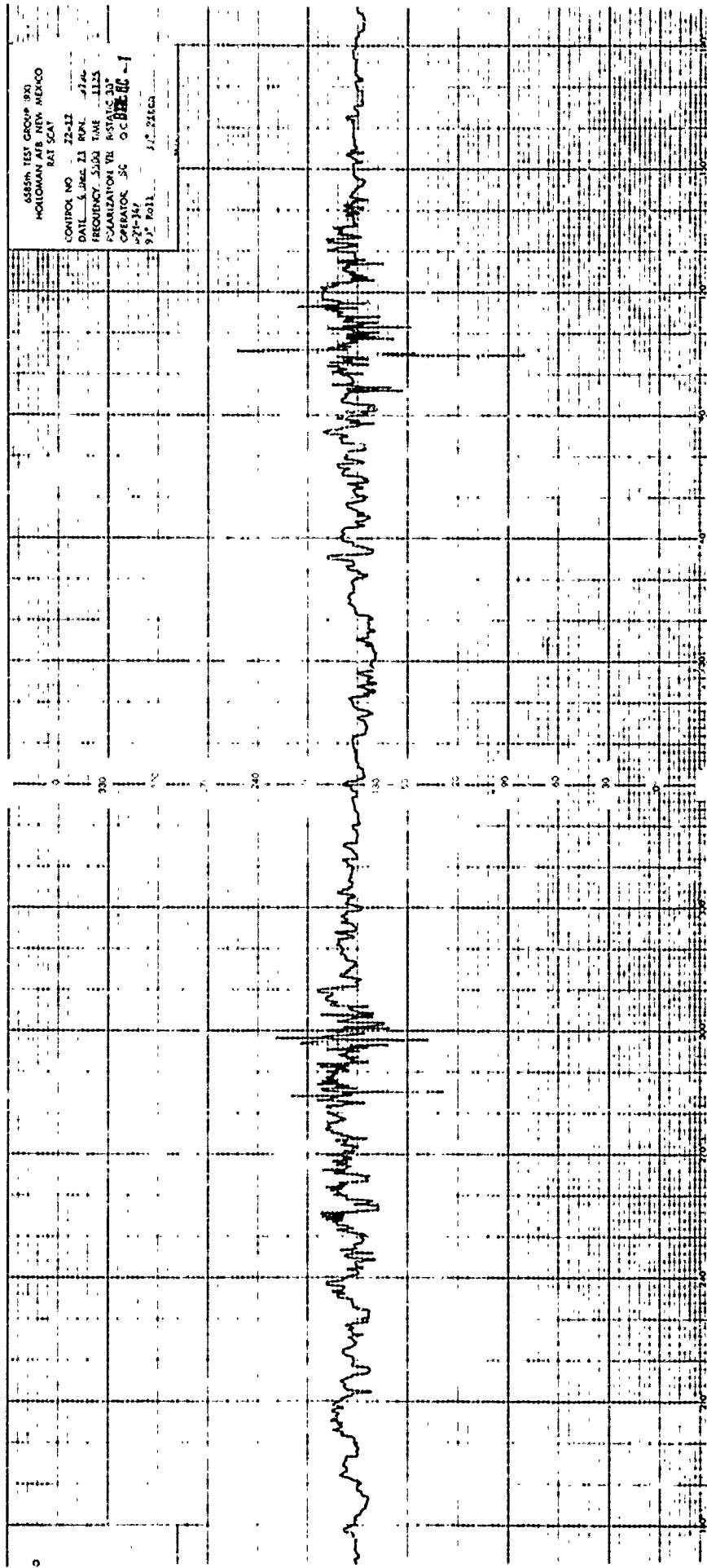


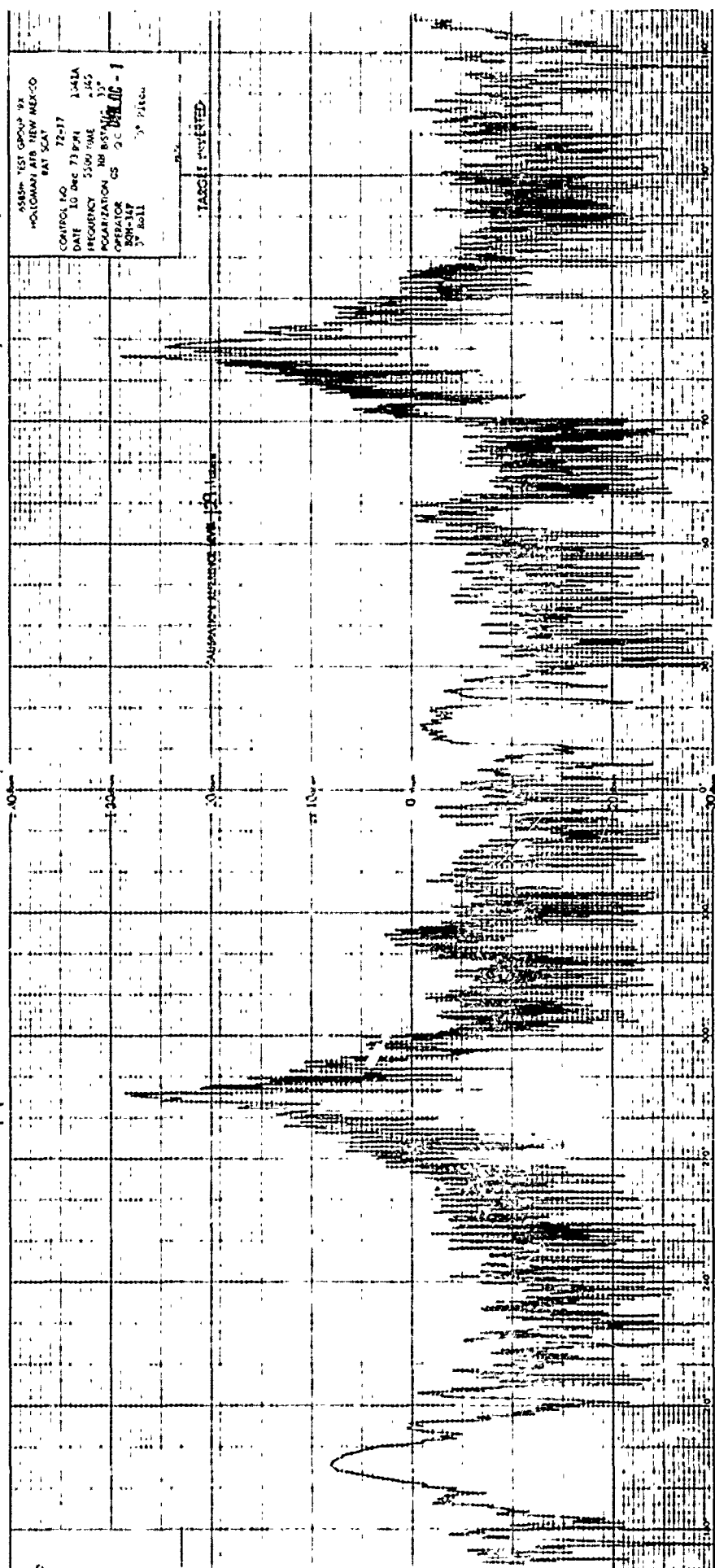




658PM TEST GROUP WY
HOLCOMB AFB NEW MEXICO
EAT 5241

CONTROL NO. 72-17
DATE 4 Dec 71 PUN 724
FREQUENCY 5500 TIME 1125
HORIZONTAL VA 8574V 30
OPERATOR SC 00000000
304-34A
207 5031 307 8150





ASST. TEST GROUP 92
HOLLAND AIR NEW MEXICO
BAT SCAT
CONTROL NO. 72-17
DATE 10 Dec 73 P/M 1-41A
FREQUENCY 1500 MHz -142
ACQUISITION IN B5710 37
COORDINATE CS 200 00 -1
ORIGIN 200 00
BY Ball 200 00

TARBLE INVERTED

SAUTATION DISTANCE 100 Miles

6585th TEST GROUP (RX)
HOLLAMAN AFB NEW MEXICO
RAT SCAT

CONTROL NO. 73-17

DATE 10 Dec 73 RJM 1041G

STATION	FREQUENCY	SSON TIME	1345
1	100.0	100.0	100.0
2	100.0	100.0	100.0
3	100.0	100.0	100.0
4	100.0	100.0	100.0
5	100.0	100.0	100.0
6	100.0	100.0	100.0
7	100.0	100.0	100.0
8	100.0	100.0	100.0
9	100.0	100.0	100.0
10	100.0	100.0	100.0
11	100.0	100.0	100.0
12	100.0	100.0	100.0
13	100.0	100.0	100.0
14	100.0	100.0	100.0
15	100.0	100.0	100.0
16	100.0	100.0	100.0
17	100.0	100.0	100.0
18	100.0	100.0	100.0
19	100.0	100.0	100.0
20	100.0	100.0	100.0
21	100.0	100.0	100.0
22	100.0	100.0	100.0
23	100.0	100.0	100.0
24	100.0	100.0	100.0
25	100.0	100.0	100.0
26	100.0	100.0	100.0
27	100.0	100.0	100.0
28	100.0	100.0	100.0
29	100.0	100.0	100.0
30	100.0	100.0	100.0
31	100.0	100.0	100.0
32	100.0	100.0	100.0
33	100.0	100.0	100.0
34	100.0	100.0	100.0
35	100.0	100.0	100.0
36	100.0	100.0	100.0
37	100.0	100.0	100.0
38	100.0	100.0	100.0
39	100.0	100.0	100.0
40	100.0	100.0	100.0
41	100.0	100.0	100.0
42	100.0	100.0	100.0
43	100.0	100.0	100.0
44	100.0	100.0	100.0
45	100.0	100.0	100.0
46	100.0	100.0	100.0
47	100.0	100.0	100.0
48	100.0	100.0	100.0
49	100.0	100.0	100.0
50	100.0	100.0	100.0
51	100.0	100.0	100.0
52	100.0	100.0	100.0
53	100.0	100.0	100.0
54	100.0	100.0	100.0
55	100.0	100.0	100.0
56	100.0	100.0	100.0
57	100.0	100.0	100.0
58	100.0	100.0	100.0
59	100.0	100.0	100.0
60	100.0	100.0	100.0
61	100.0	100.0	100.0
62	100.0	100.0	100.0
63	100.0	100.0	100.0
64	100.0	100.0	100.0
65	100.0	100.0	100.0
66	100.0	100.0	100.0
67	100.0	100.0	100.0
68	100.0	100.0	100.0
69	100.0	100.0	100.0
70	100.0	100.0	100.0
71	100.0	100.0	100.0
72	100.0	100.0	100.0
73	100.0	100.0	100.0
74	100.0	100.0	100.0
75	100.0	100.0	100.0
76	100.0	100.0	100.0
77	100.0	100.0	100.0
78	100.0	100.0	100.0
79	100.0	100.0	100.0
80	100.0	100.0	100.0
81	100.0	100.0	100.0
82	100.0	100.0	100.0
83	100.0	100.0	100.0
84	100.0	100.0	100.0
85	10		

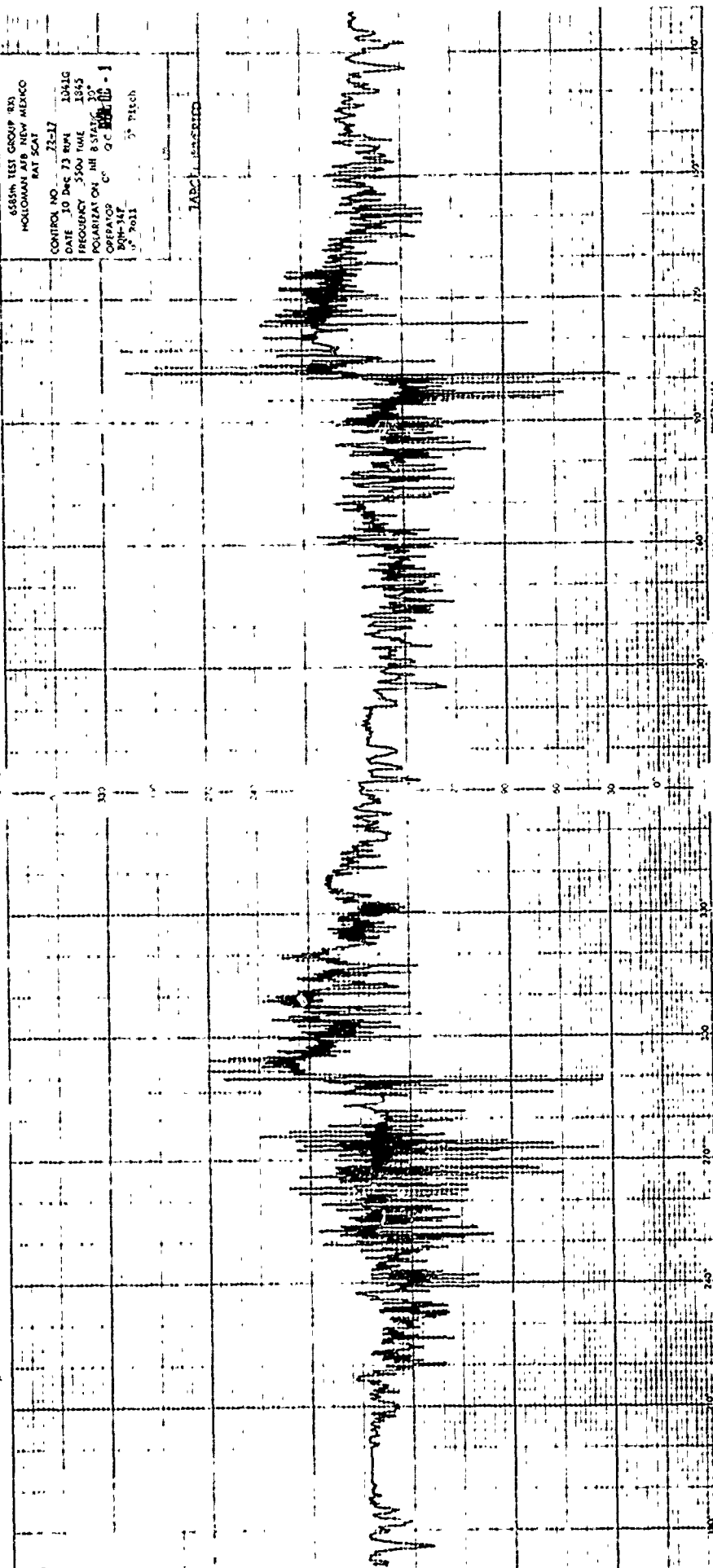
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876-MOS
801V6360

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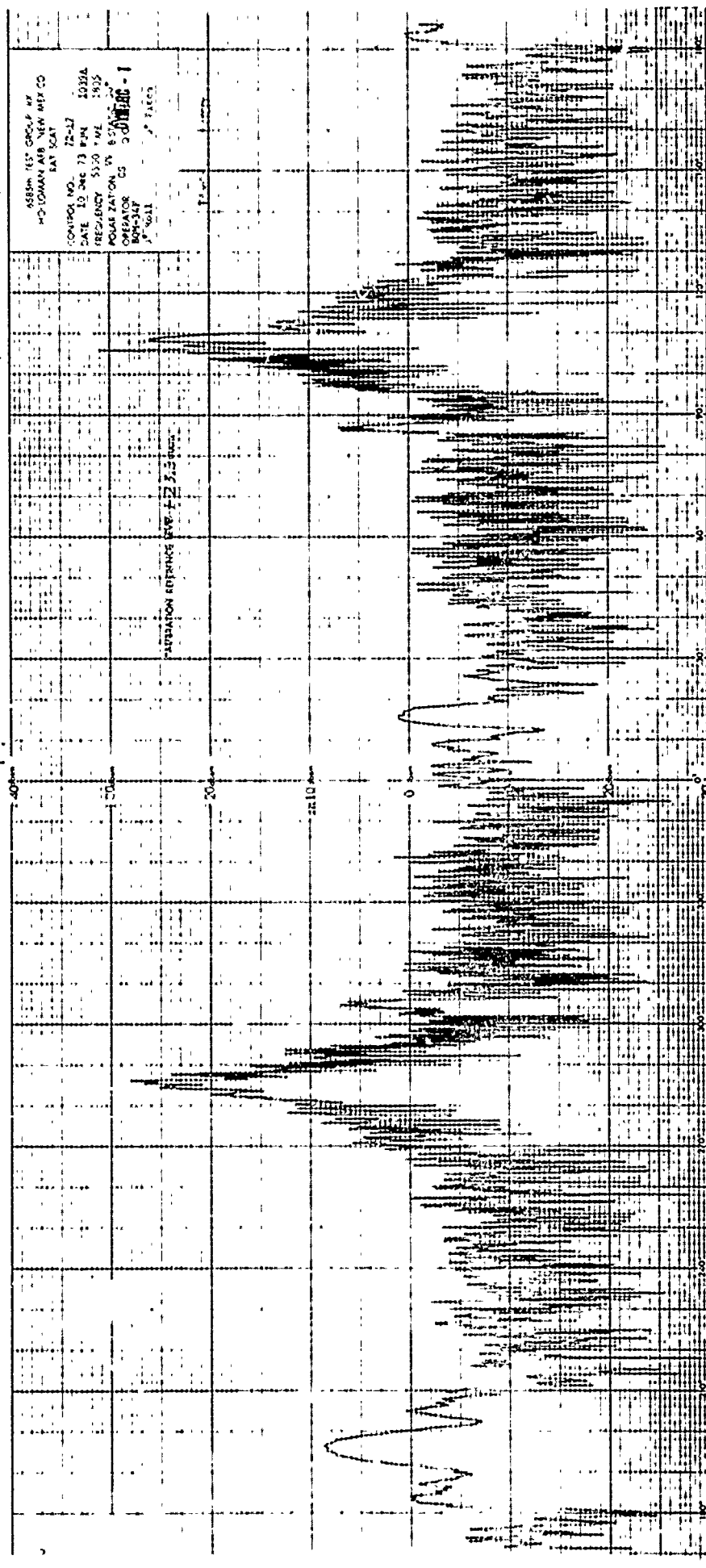
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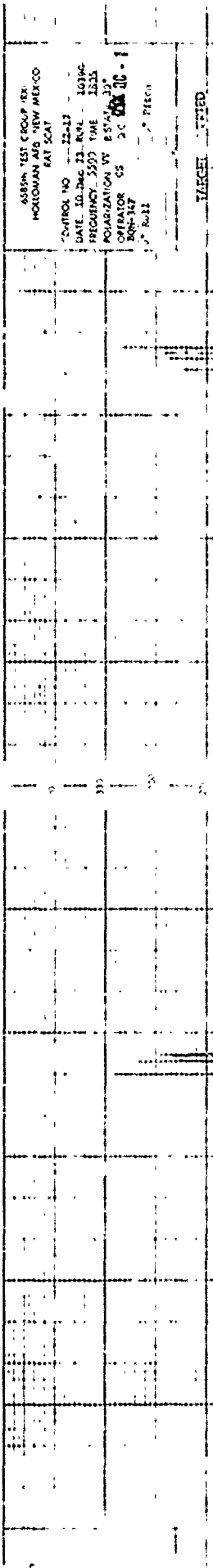
7A201, 6455900



CONTROL NO. 72-17
DATE 10 DEC 73 PJM 1032A
FREQUENCY 5300 KHZ 1902S
POLARIZATION W 85 DEG 20
OPERATOR CS 001000-1
BOM-347
10011

APPROXIMATE AVERAGE
+ 23.3 PERCENT





ASSON TEST GROUP (R)
HOLLOMAN AFB, NEW MEXICO
EAT SCAT

CONTROL NO 22-43
DATE 31 MAR 73 ACVL 1019C
FREQUENCY 3500 TME 1515
POLARIZATION VV ESTD 130
OPERATOR GS DC 60A 30-1
280-147
Roll
PITCH

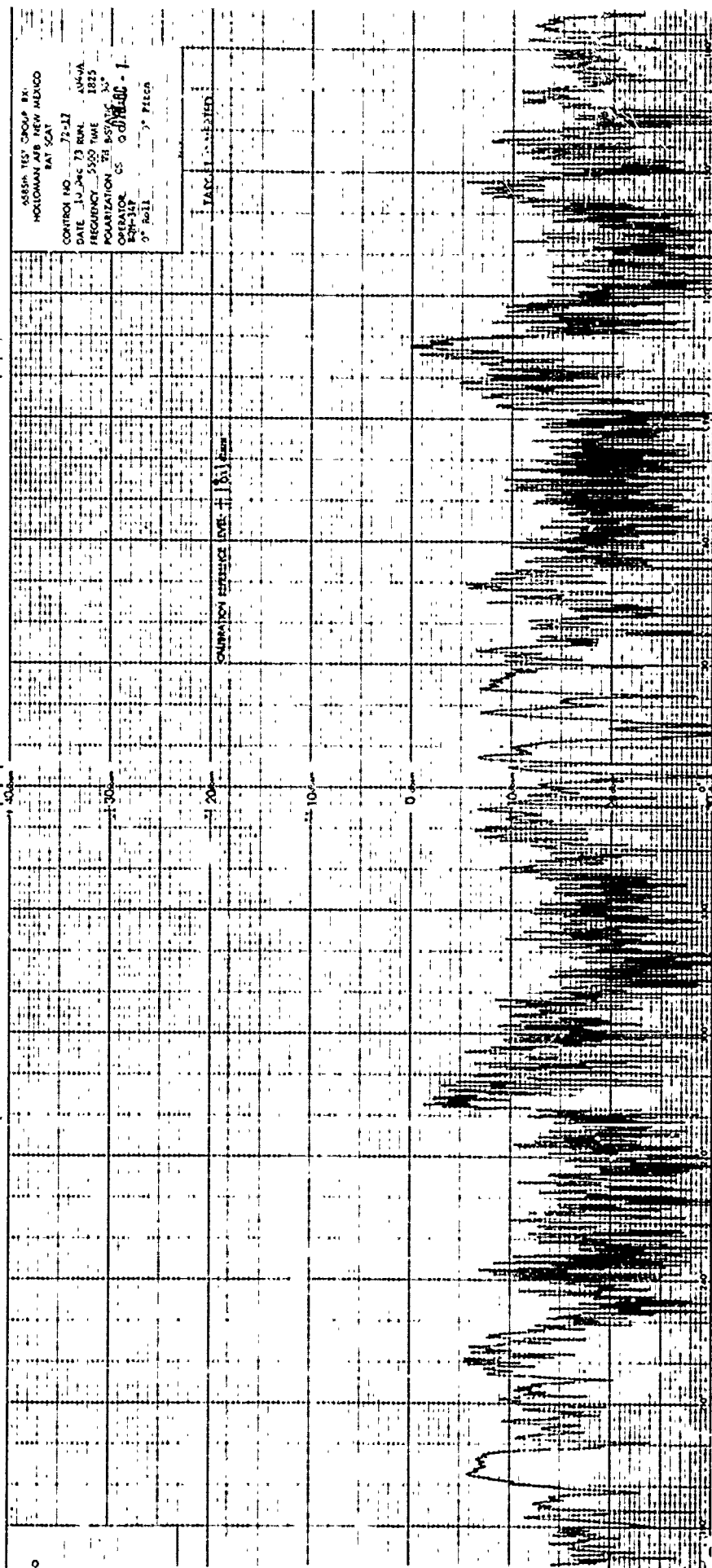
TAKE 1

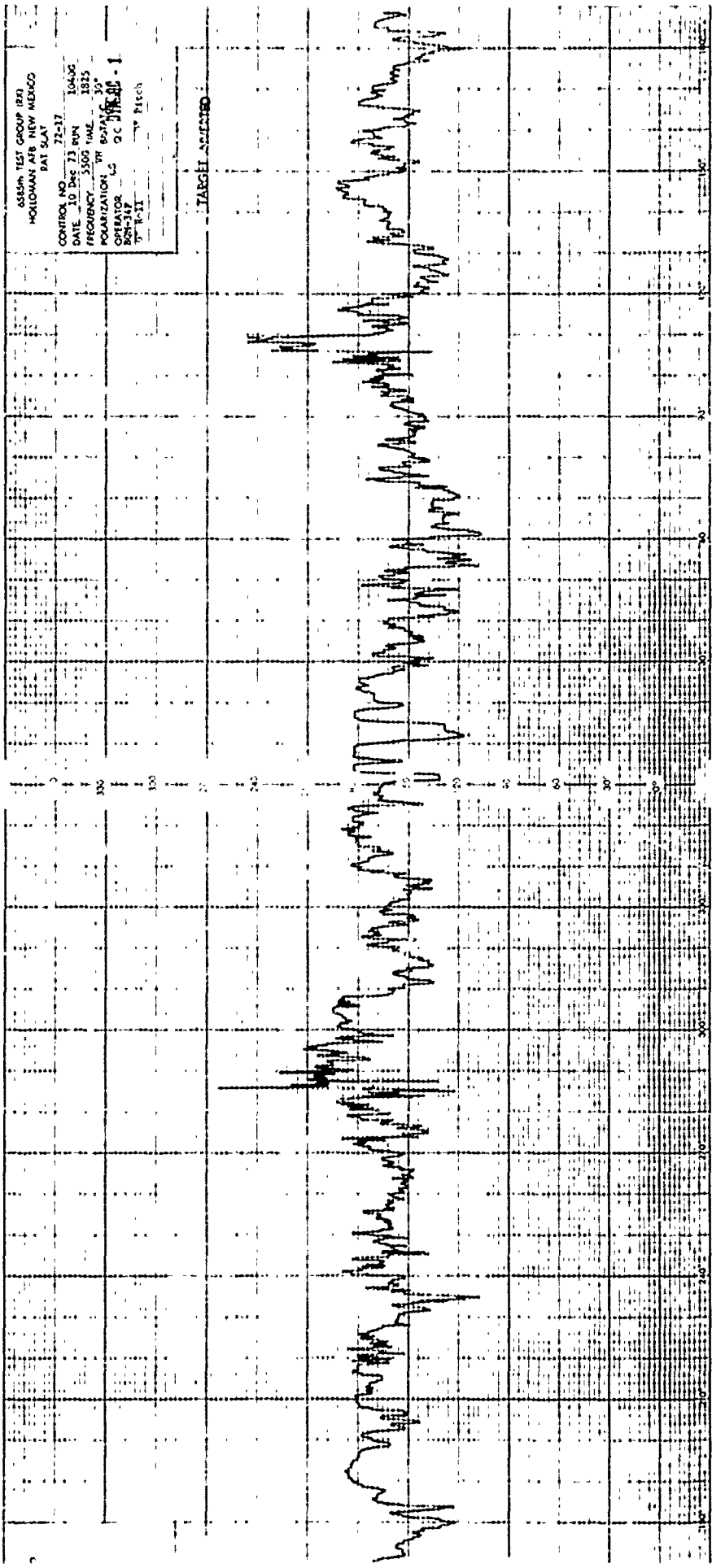
ASSH TEST GROUP BK
HOLLOMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO. 72-12
DATE 14-JUN-73 RUN AMVA
FREQUENCY 5500 THRE 1825
POLARIZATION TH 85/130 N
CHANNEL CS 001800-1
0" Ball 3" Pitch

TARGET IDENTIFIED

QUANTUM REFERENCE LEVEL: 11.831 dBm





संस्कृत-संज्ञा

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355th TEST GROUP (R3)
HOLLOMAN AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-12

DATE 10 Dec 71 RPT 10422

FREQUENCY 5500 MHz 2403

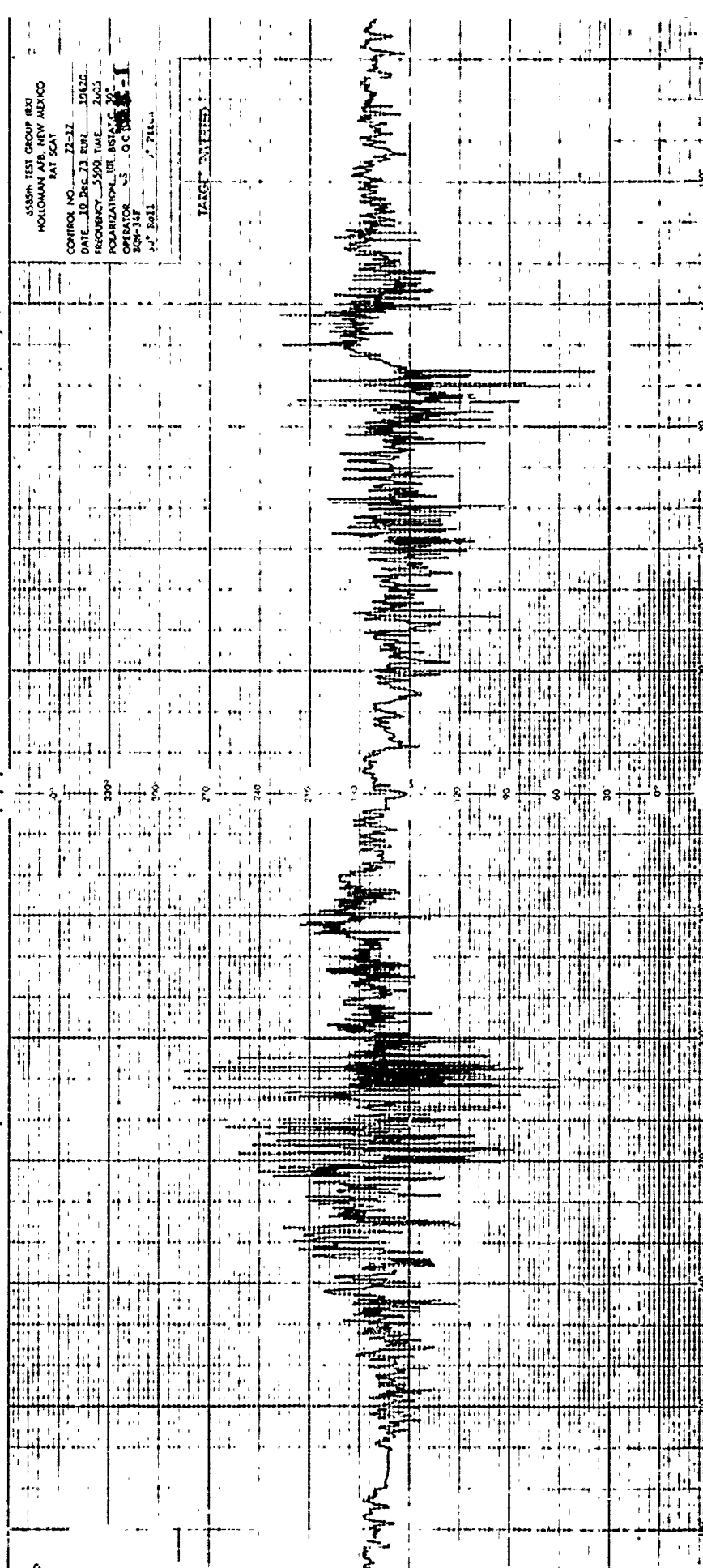
POLARIZATION RH 85% 30°

ORBITAL 5 OC 1000

ALT 5000

7110

TARGET NUMBER



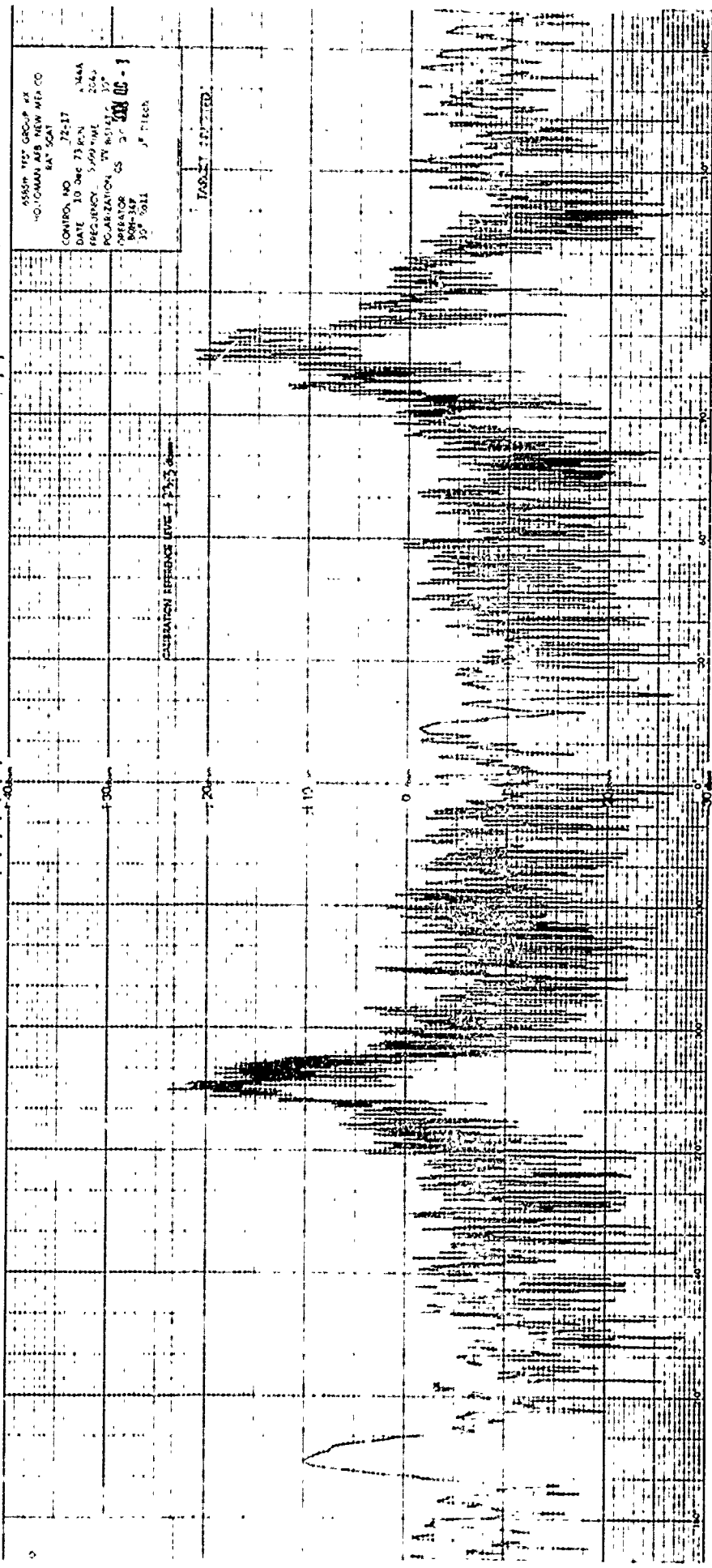
ASSON TEST GROUP #2
101-000000 ASB NEW MEX CO
EAT 5047

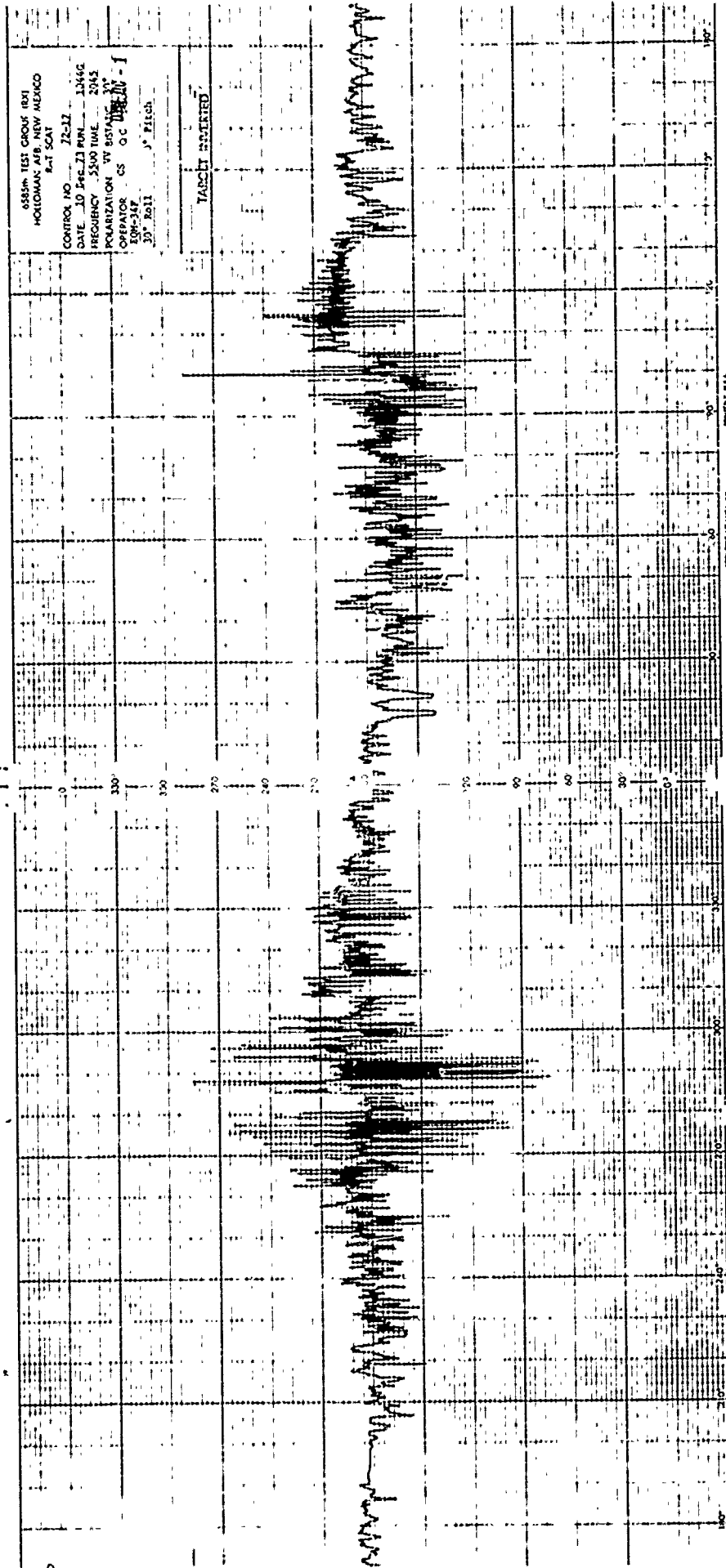
CONTROL NO 72-17
DATE 10 Dec 73
FREQUENCY 5.000 MHz
MODULATION 100%
OPERATOR CS
808-147
30° 1011

30° 1011

740.27 1011

CALIBRATION REFERENCE LINE + 1.5% 808-147

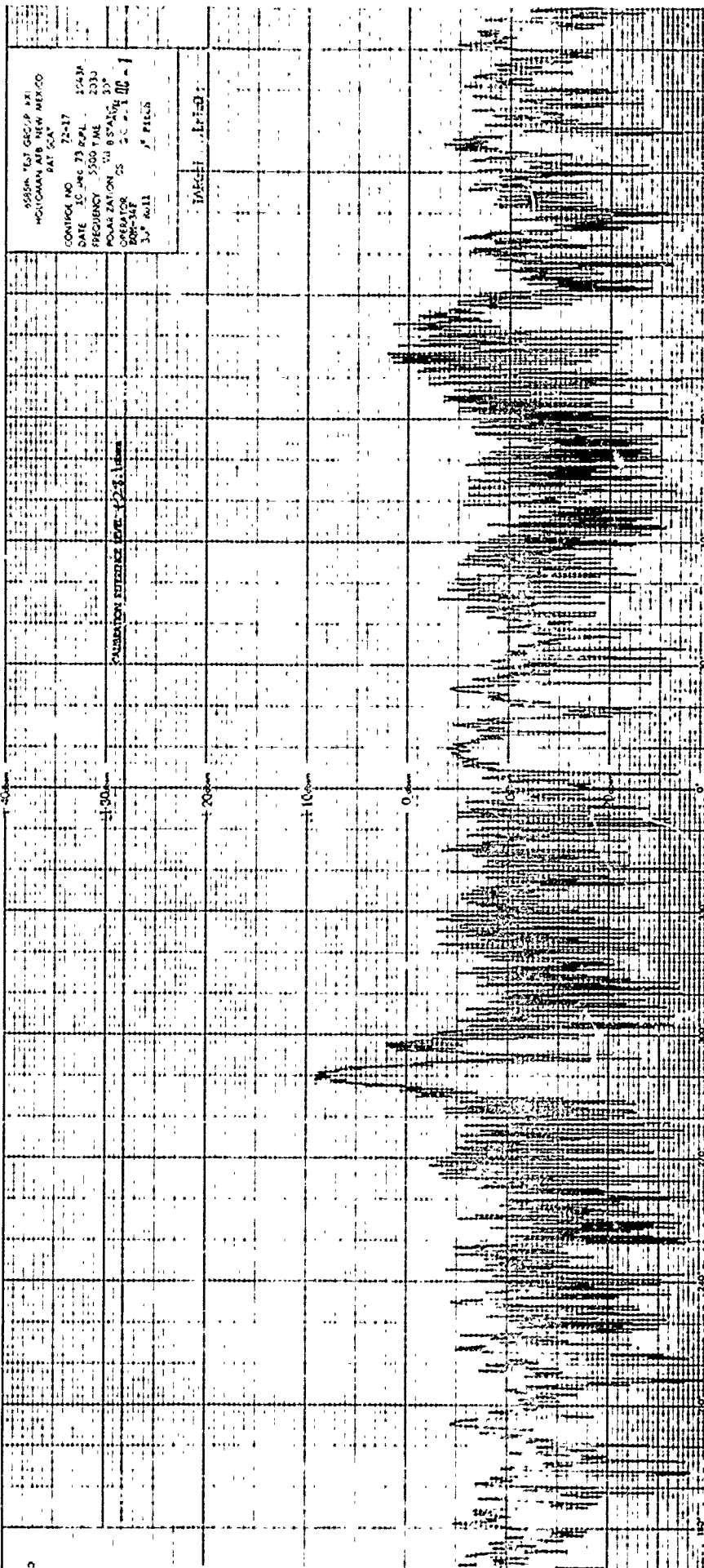




ASSIGN TEST GROUP 1811
HOLDMAN AFB, NEW MEXICO
RAT SCAT

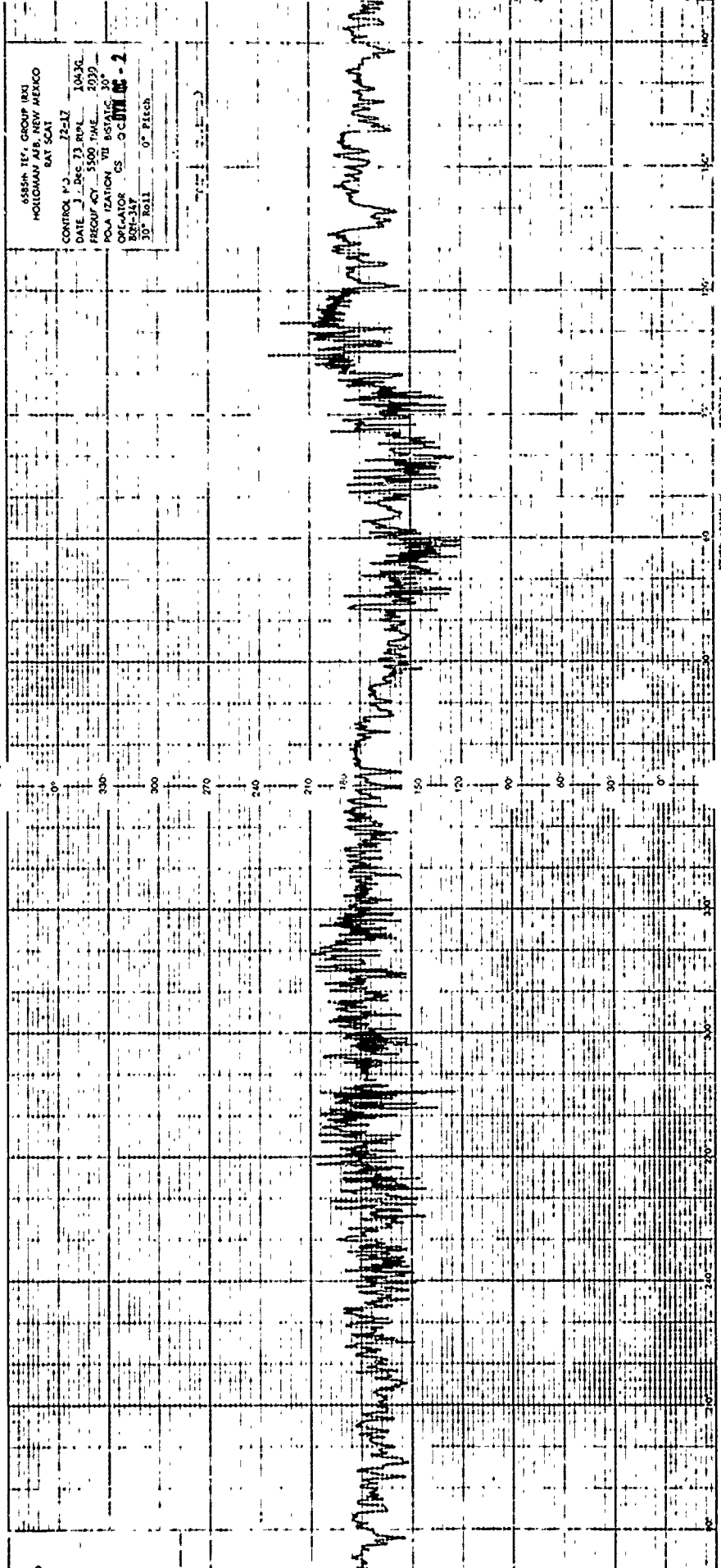
CONTROL NO. 72-17
DATE 10 SEP 73 FOR 1346
FREQUENCY 3500 HZ 2743
POLARIZATION W EST
OPERATOR CS OC
104-147
30" Roll 3" Pitch

TARGET ENTERED



6884-17, GROUP INI
HOLDMAN AFB, NEW MEXICO
SAT SAT

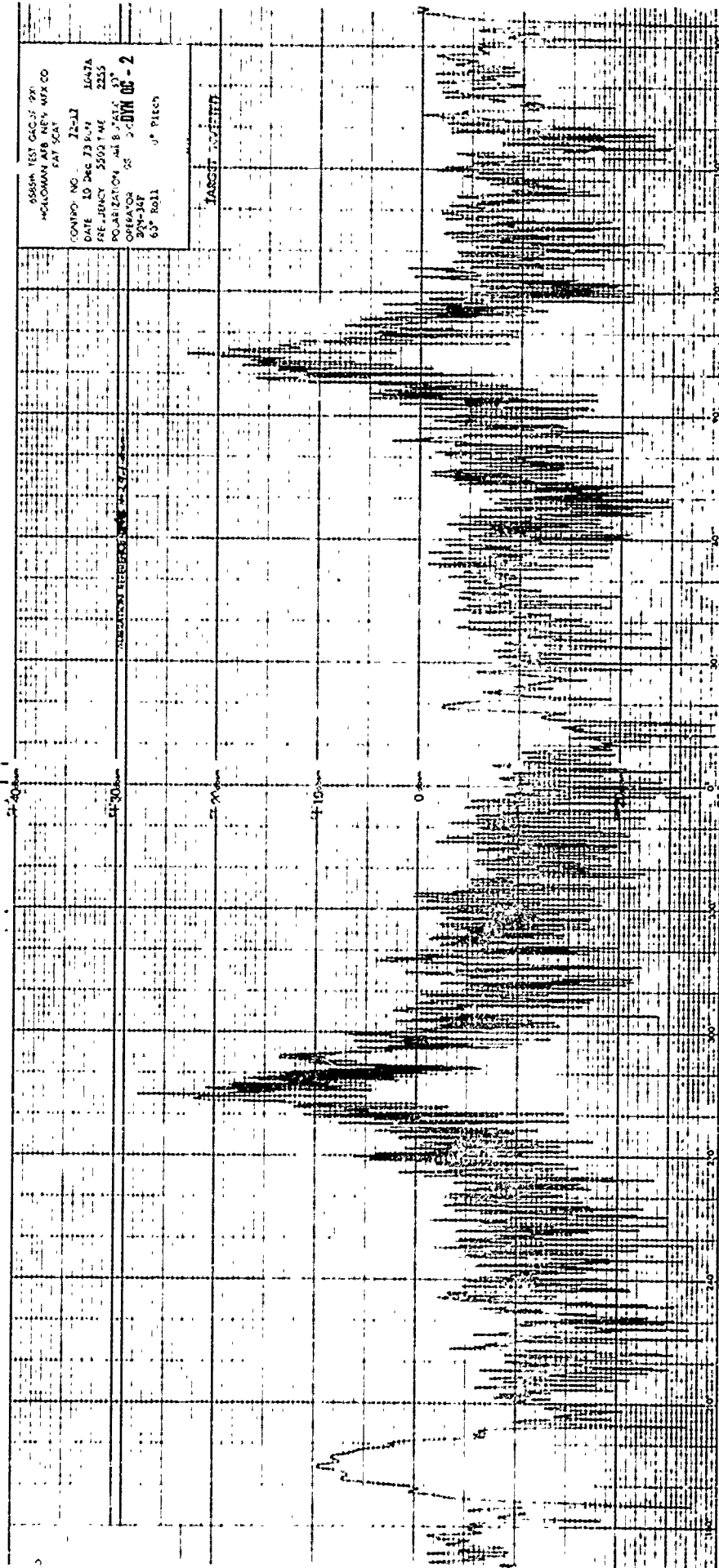
CONTROL FJ 72-17
DATE 3 Dec 73 RPL 1045G
REQUT KY 5500 TIME 2030
POLARIZATION VII BISTATIC 30°
OPERATOR CS OCT 07 05 - 2
204-347
30° Roll 0° Pitch



65854 TEST GACJ5 '2X'
CLOWAN AFB NE4 45X CO
FAY SCAY

CONTROL NO. 72-17
DATE 10 Dec 73 BY 1647A
ISSUE AGENCY 550274E 2255
POLARIZATION 4000 1000
OFFER FOR 204-146
630 Roll 00 Patch

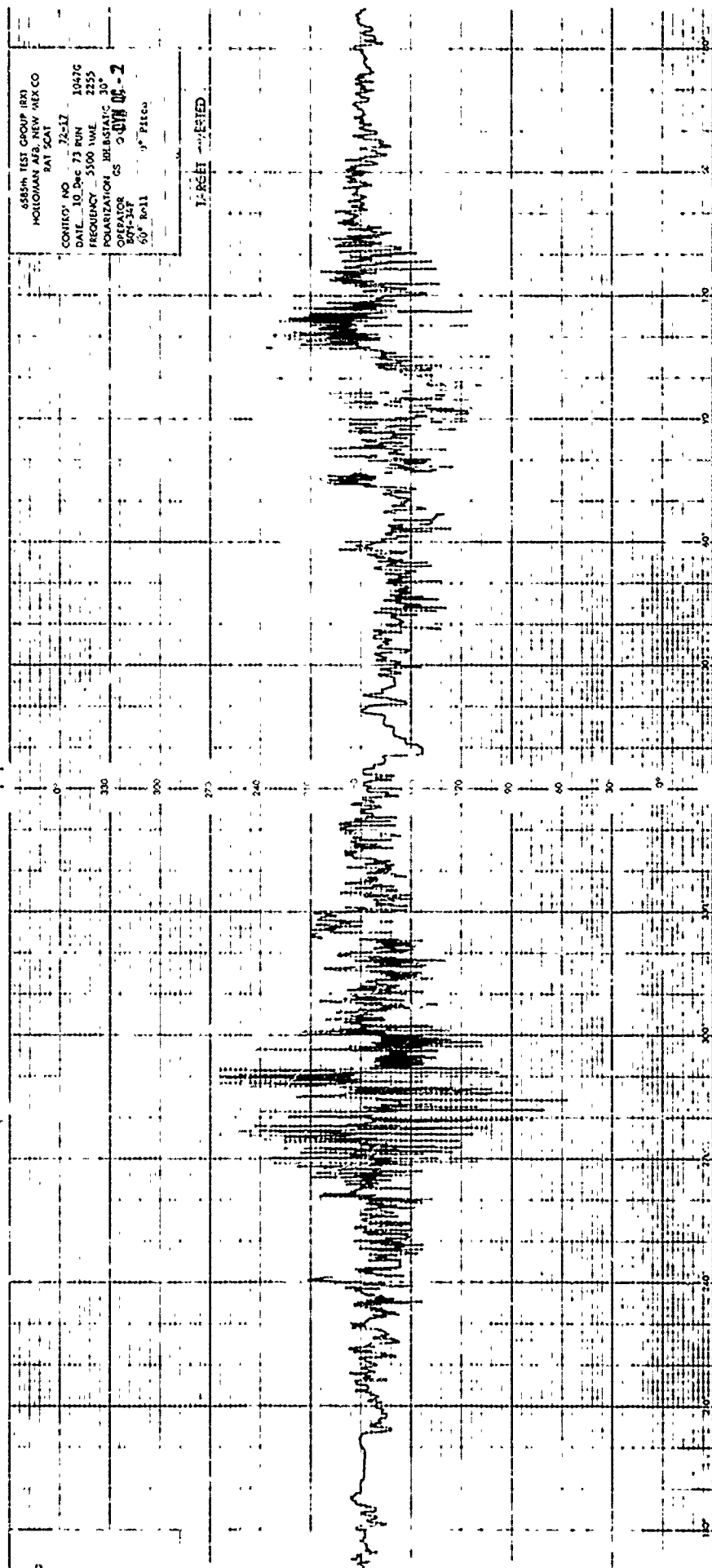
target: $\frac{1}{\sqrt{2}}$

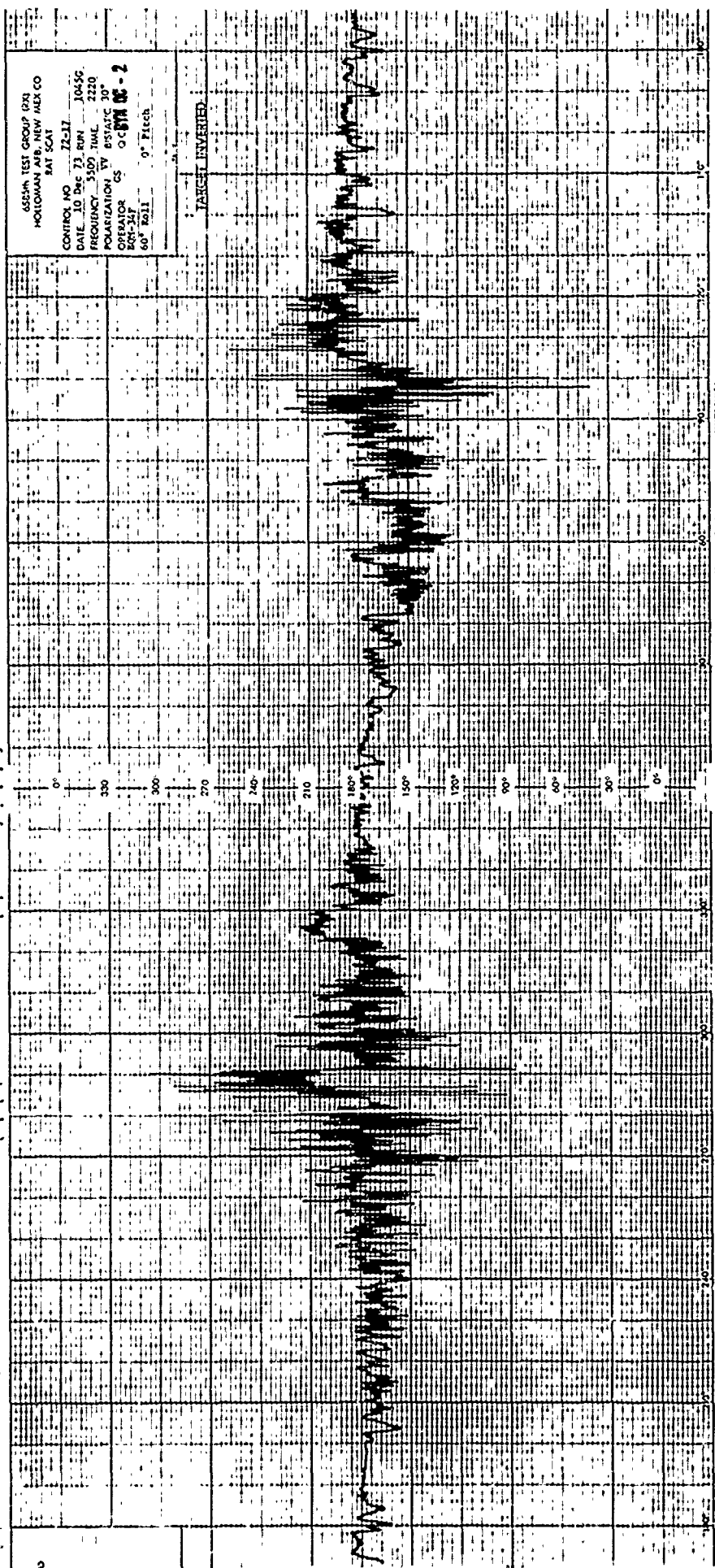


6585th TEST GROUP (RX)
HOLLOMAN AFB, NEW MEX CO
RAT SCAT

CONTROL NO 72-17
 DATE 10 Dec 73 RUN 1047G
 FREQUENCY 5500 MHz 2255
 POLARIZATION RELBSTATG 30°
 OPERATOR CS 007N 05-2
 BOY-24F
 60" Roll 9" Pitch

גליה - יפתי





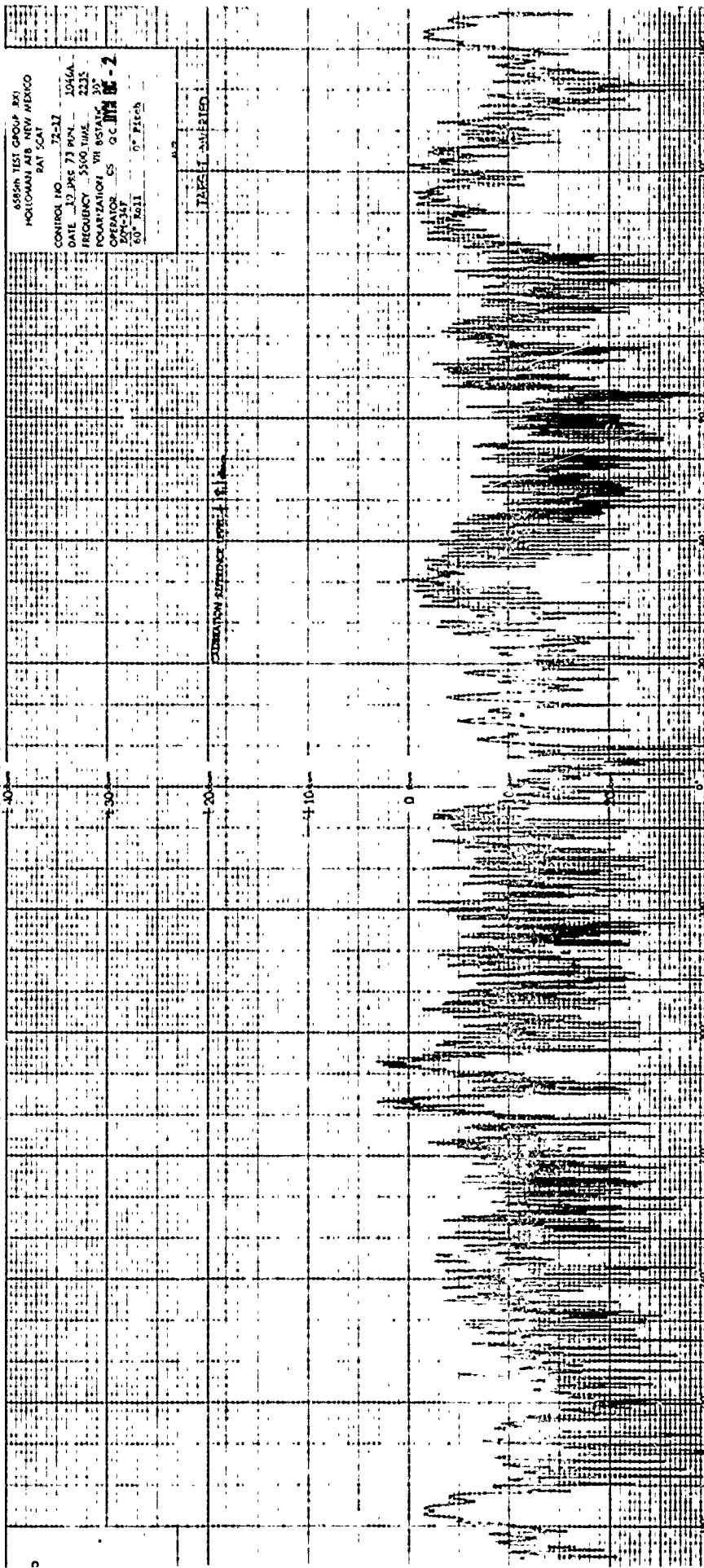
ASCHM TEST GROUP (23)
HOLLOMAN AFB, NEW MEX CO
BAT SCAT

CONTROL NO 72-37
DATE 10 Dec 73 RUN 1045G
FREQUENCY 5500 MHz 2210
POLARIZATION TV ESYAFC 10
OPERATOR GS OC 5TH GS - 2
60° 247 9° Pitch

TARGET INVERTED

6554R TEST GROUP BXJ
 HOLLOMAN AFB NEW MEXICO
 BAT SCAT
 CONTROL NO. 72-217
 DATE 10 JUNE 73 RPN 1046A
 FREQUENCY 5500 TUNE 2235
 POLARIZATION VR STATIC 30°
 OBSERVER CS
 274-147
 60° Roll 0° Pitch

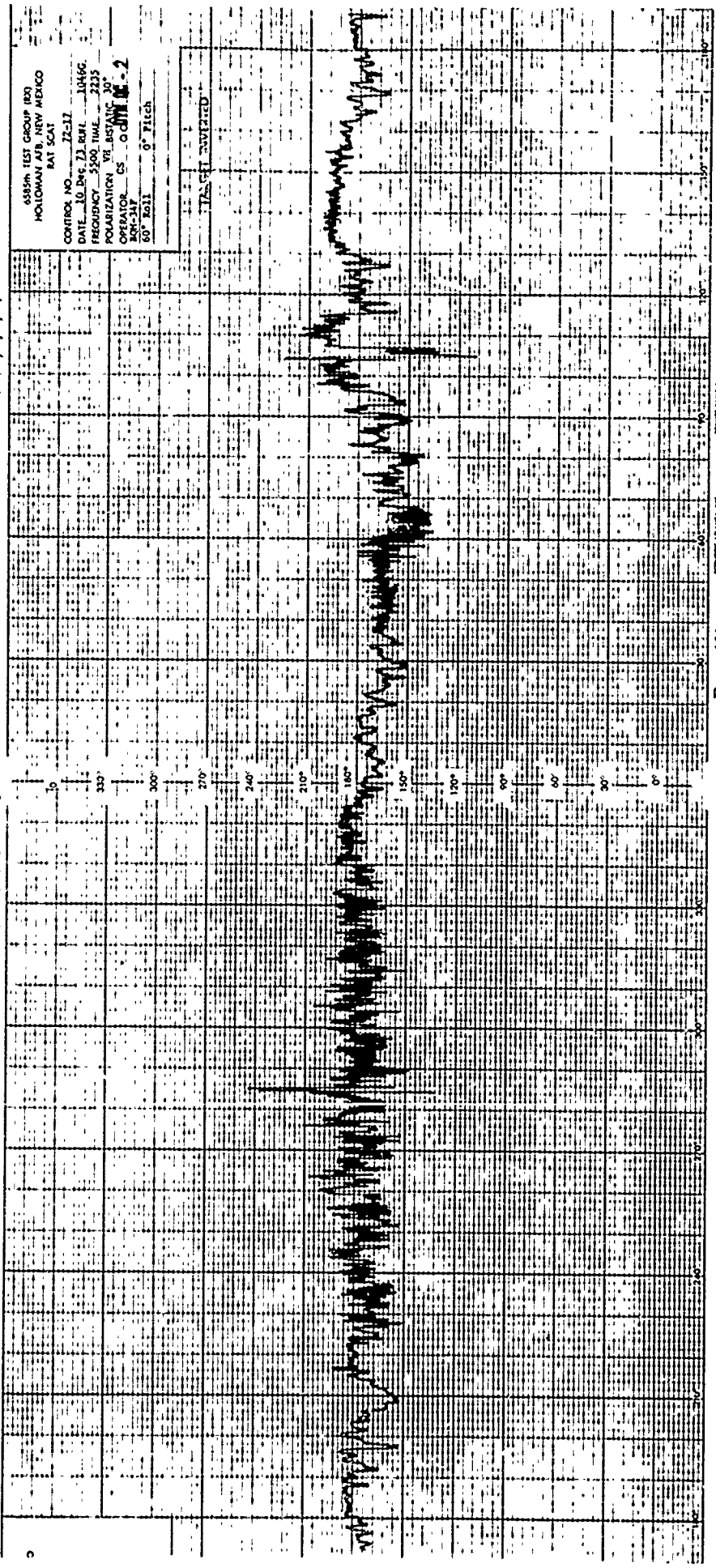
TAPER 11 - UNFILTERED



ASSIGN TEST GROUP (B)
HOLLOWAY AIR NEW MEXICO
BAT SCAT

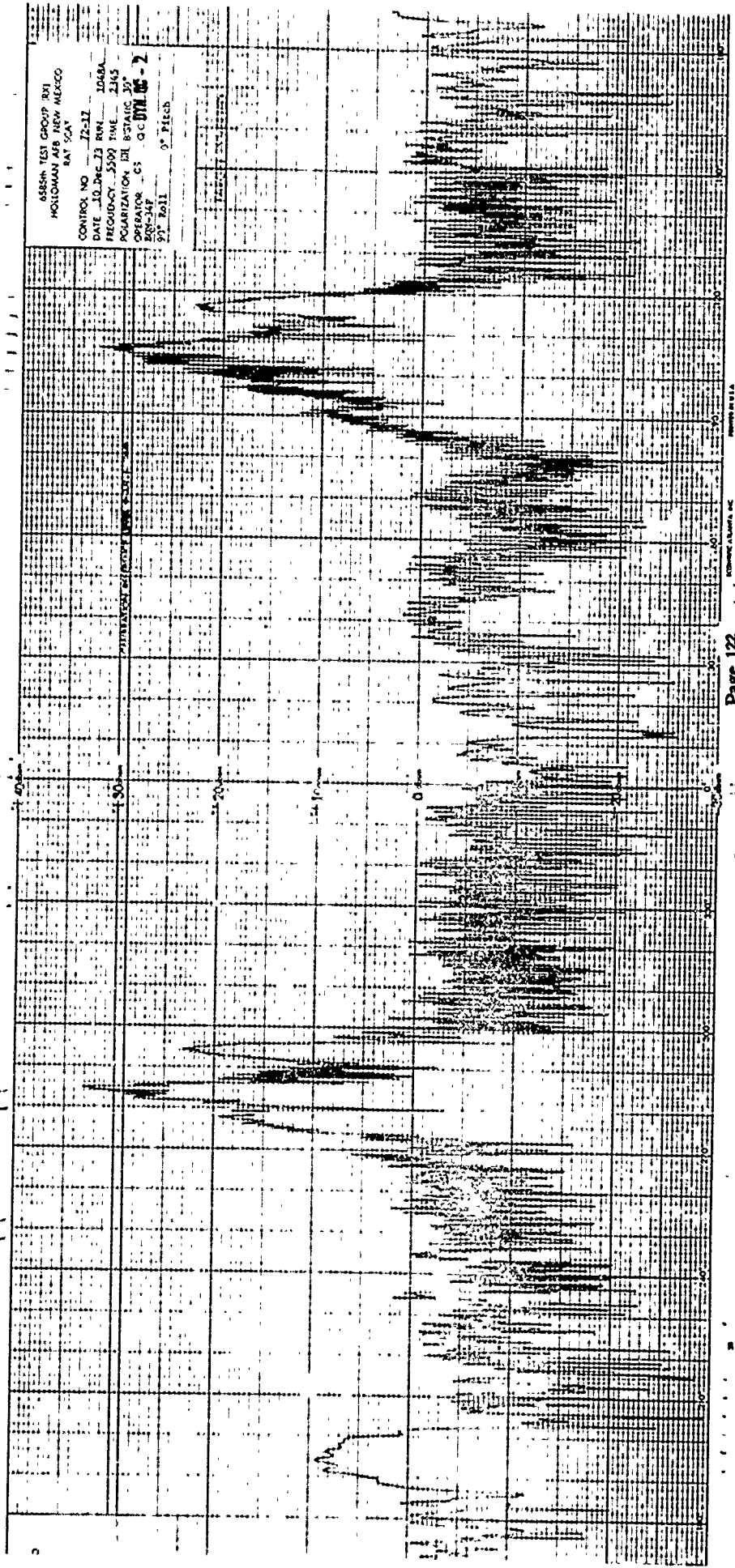
CONTROL NO. 12-17
DATE 10 Dec 72 RWL 1046G
FREQUENCY 3500 TUE 2235
POLARIZATION VE BISTATIC 30°
OPERATOR CS O
240-547
60° Roll 0° Pitch

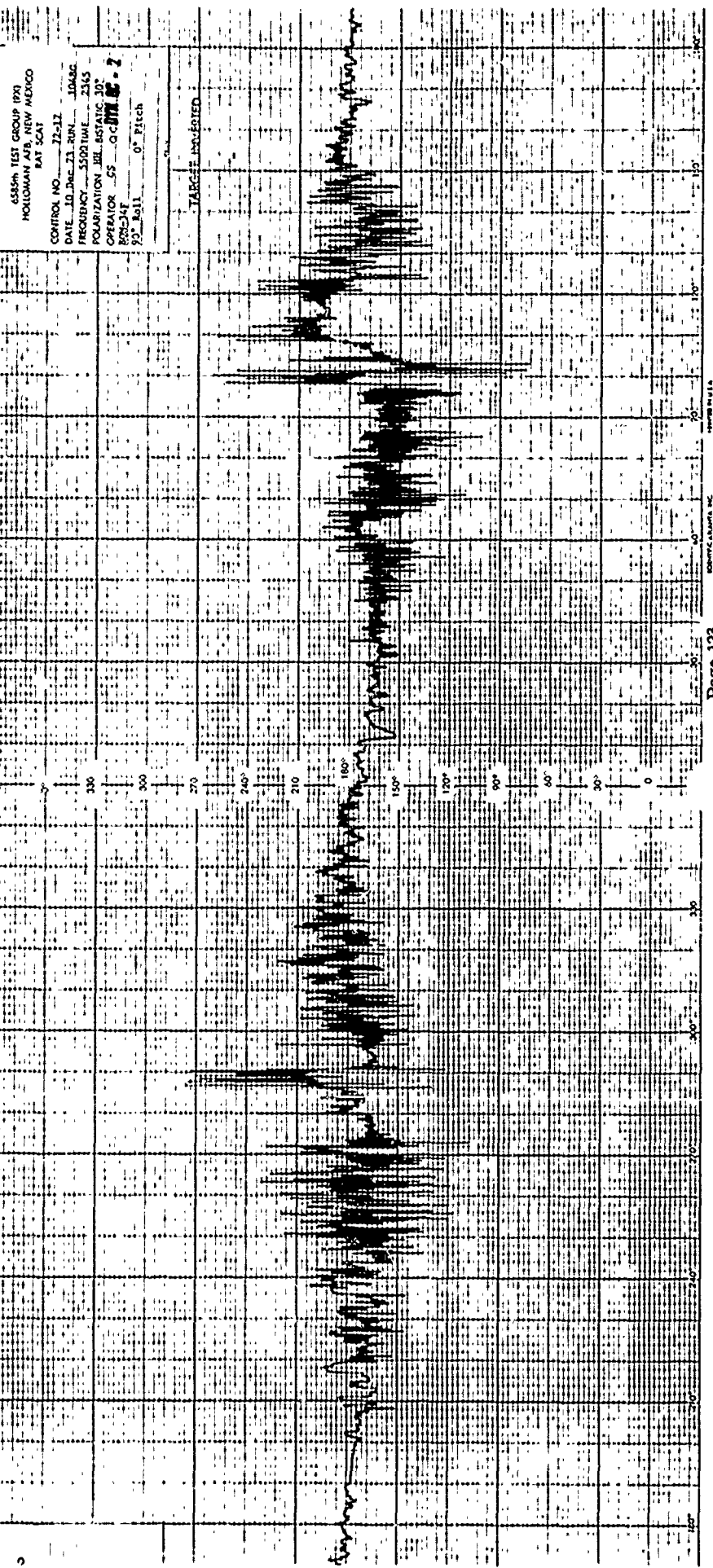
TAPE REVERSED



ASSEMBLY TEST GROUP BY
HOLLOMAN AIR FIRM MEXICO
BAT 547

CONTROL NO 72-17
DATE 10 MAR 73 RUN IDABA
FREQUENCY 5599 HZ 2145
POLARIZATION 180 DEGREE
OPERATOR CS G C
REMARKS 90° Roll 0° Pitch





6554th TEST GROUP (P)
HOLLAND AFB, NEW MEXICO
BAT SCAT

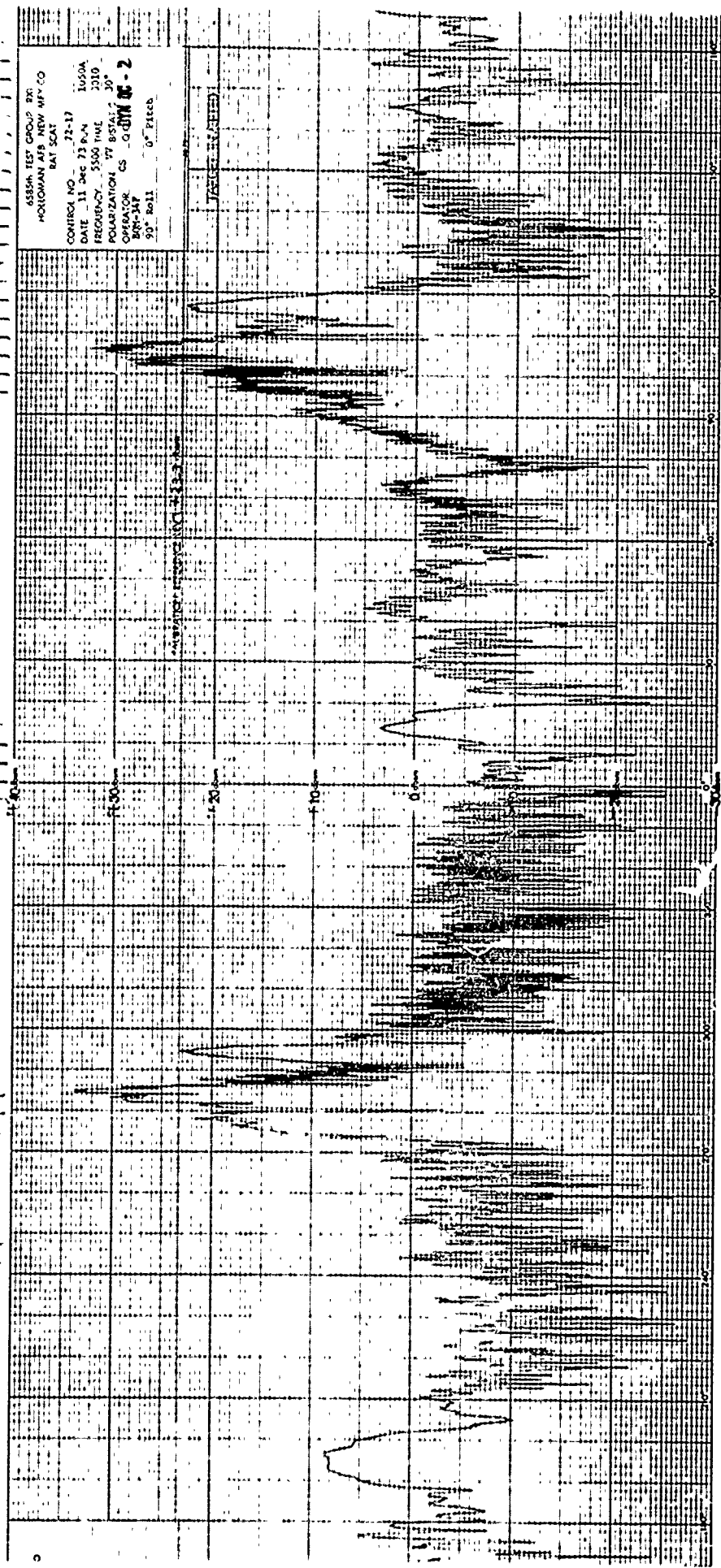
CONTROL NO. 72-12
DATE 10 Dec 73 RUN 10482
FREQUENCY 5500 MHz 2365
POLARIZATION IRL BISTATIC 30°
OPERATOR GS G.C. [signature]
RSC-34F
90° Roll 0° Pitch

TARGET IDENTIFIED

6550A TEST GROUP 7K
 HOKOMAN AFS NEW MEXICO
 EAT SCAT

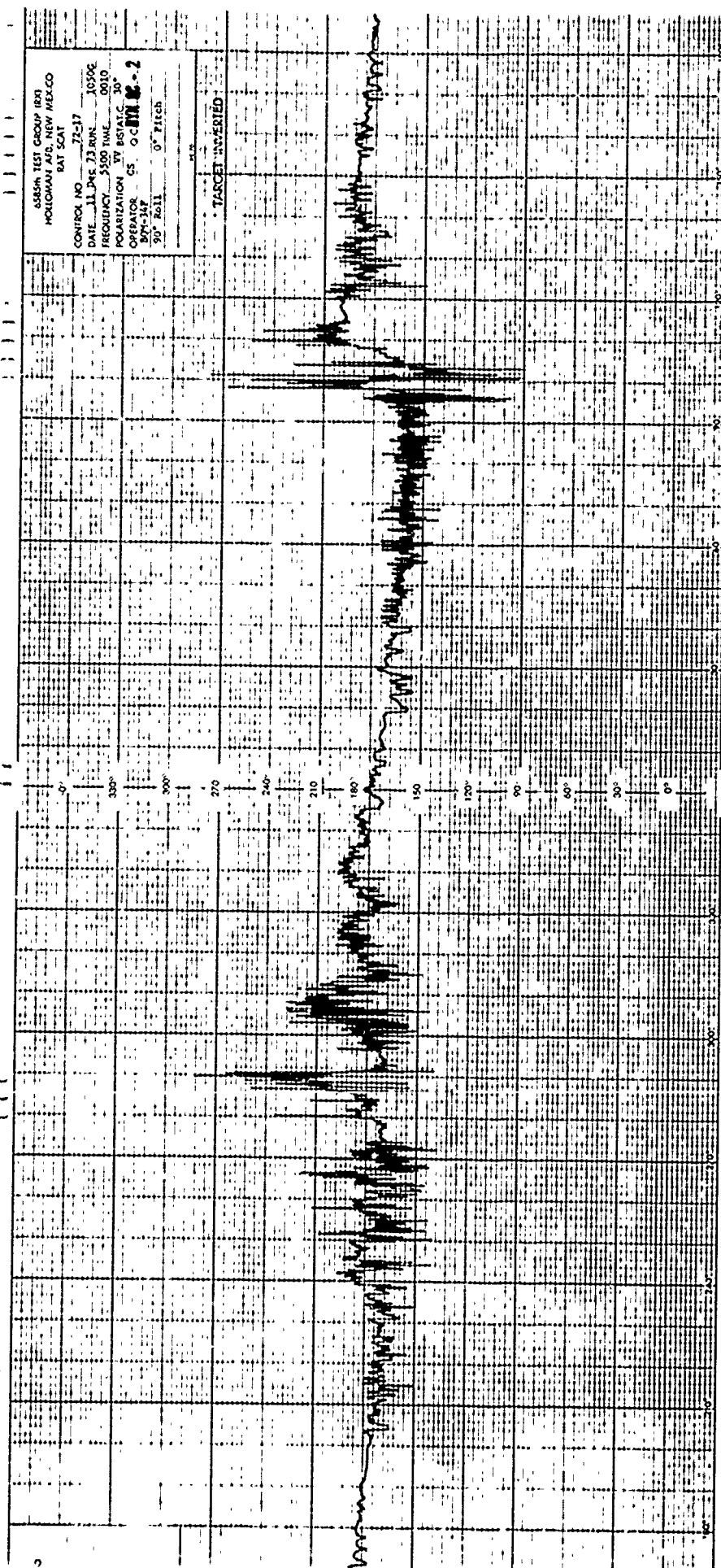
CONTROL NO. 72-17 1050A
 DATE 11 Dec 73 P.M. 1050A
 FREQUENCY 5500 MHz
 POLARIZATION 17° ESTAT. 30°
 OPERATOR CS - O.D.M. AC-2
 BRN-317 90° Roll 0° Pitch

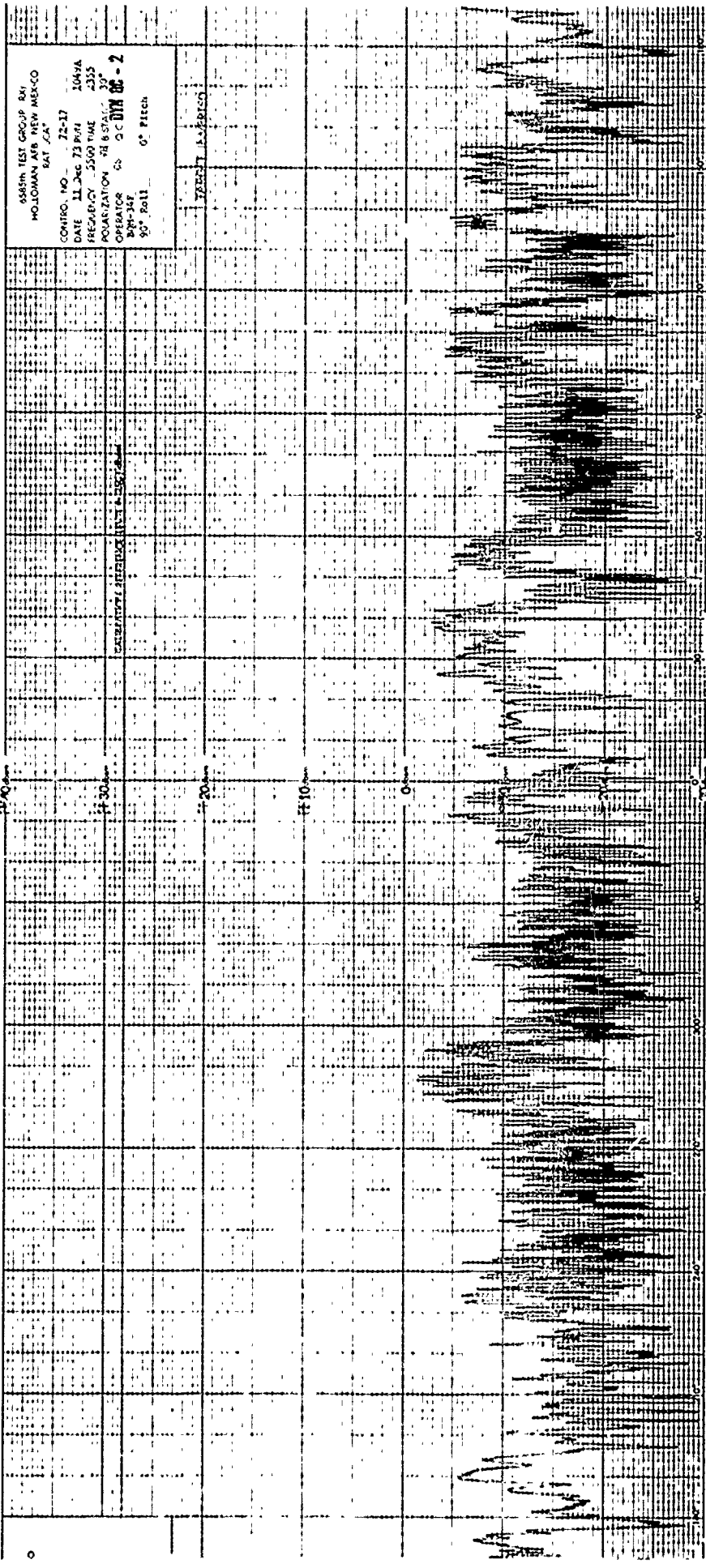
TARGET IDENTIFIED



CONTROL NO 72-17
DATE 11 Dec 73 RUN 1050G
FREQUENCY 5500 TIME 0010
POLARIZATION VV DISTANCE 30°
OPERATOR CS O CIMA 2-2
874-147
90° Roll 0° Pitch

TARGET VARIATION





555TH TEST GROUP BY
MOJOMAN AFB NEW MEXICO
DATE 11 DEC 73
TIME 1045A
REGISTRATION 5500 TUE 2355
OPERATOR CS 5C DIA 88-2
84-341
50° Roll
0° Pitch

TEST REPORT

ASSIGN TEST GROUP 101
HOLLAND AIR NEW MEXICO
SAT SAT

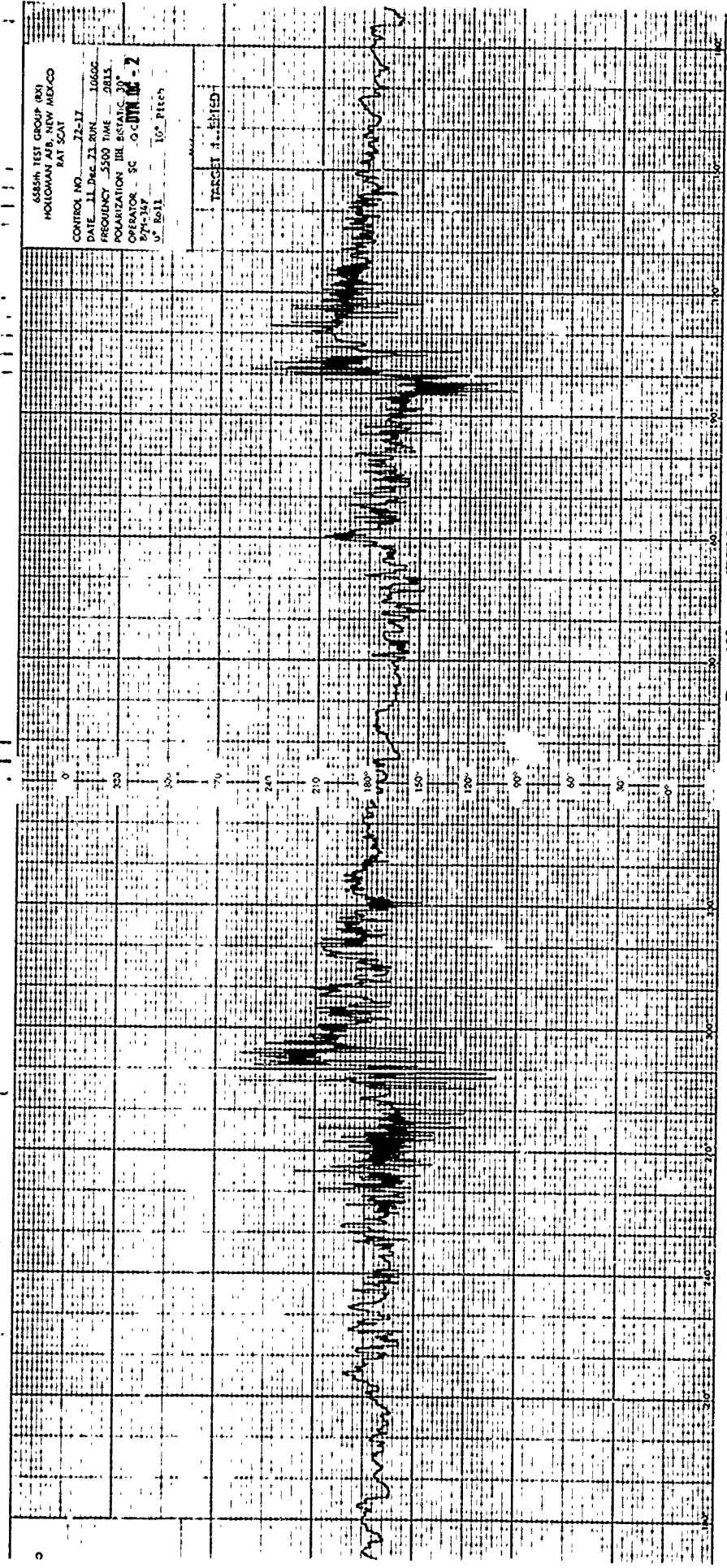
CONTROL NO. 72-12
DATE 11-14-62 11:00 AM 18600
FREQUENCY 3500 MHz 1115
POLARIZATION LH EST 10
OPERATOR SC OCT 10-2
SC-117
0.1001 10.0 Pitches

TARGET UNINIT

RECEIVED 10-11-62

6555th TEST GROUP (RX)
 HOLLOMAN AFB, NEW MEXICO
 RAT SCAT
 CONTROL NO. 72-17
 DATE 11 Dec 73 RUN 10600
 FREQUENCY 5500 TIME 0815
 POLARIZATION IRL BISTATIC 30°
 OPERATOR SC O. O'DONNELL - 2
 874-147
 10° Pitch

TARGET 1. ENDED



ASSH TEST GROUP 12/1
HOLLAND AIR NEW MEXICO
BAT SCAT
CONTROL NO. 72-17
DATE 11 DEC 73 FOR 1062A
FREQUENCY 5500 MHz 0700
POLARIZATION TV STATIC 30°
OPERATOR SC QCDM BS-2
BNC-147
0° Roll 15° Pitch

TARGET ACQUIRED

LEADING EDGE OF LEVEL 18.7.8.000

1870.000

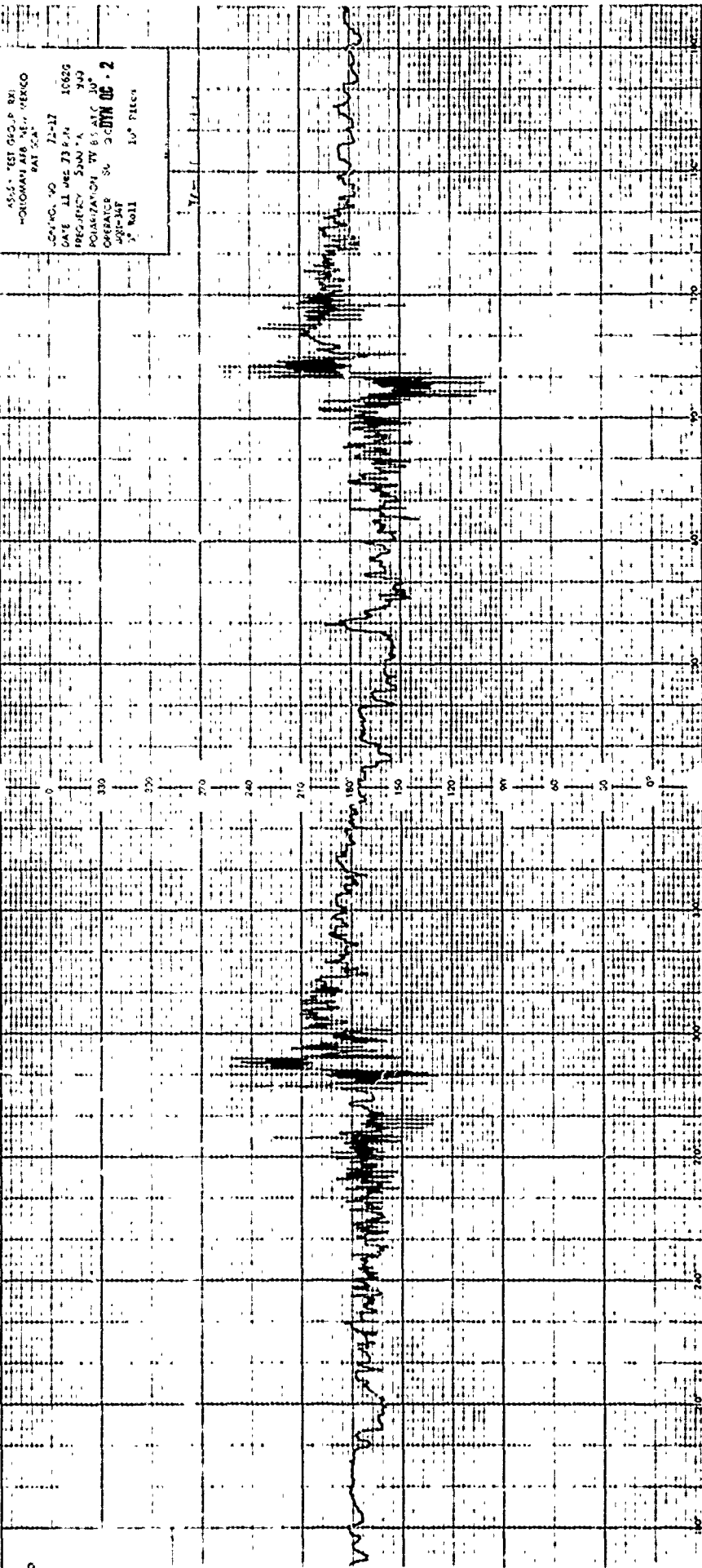
1820.000

1770.000

1720.000

OS-5. TEST GROUP BY
-OMONMARIAN ME- VENCO
PAT SEA

CGA MC NO 73-17 1062G
DATE 11 JAN 73
REGISTRY 5000 A Y03
POLARIZATION TV B5 ALC 10°
OPERATOR SL
JUN-74F
2. Roll 10° Pitch



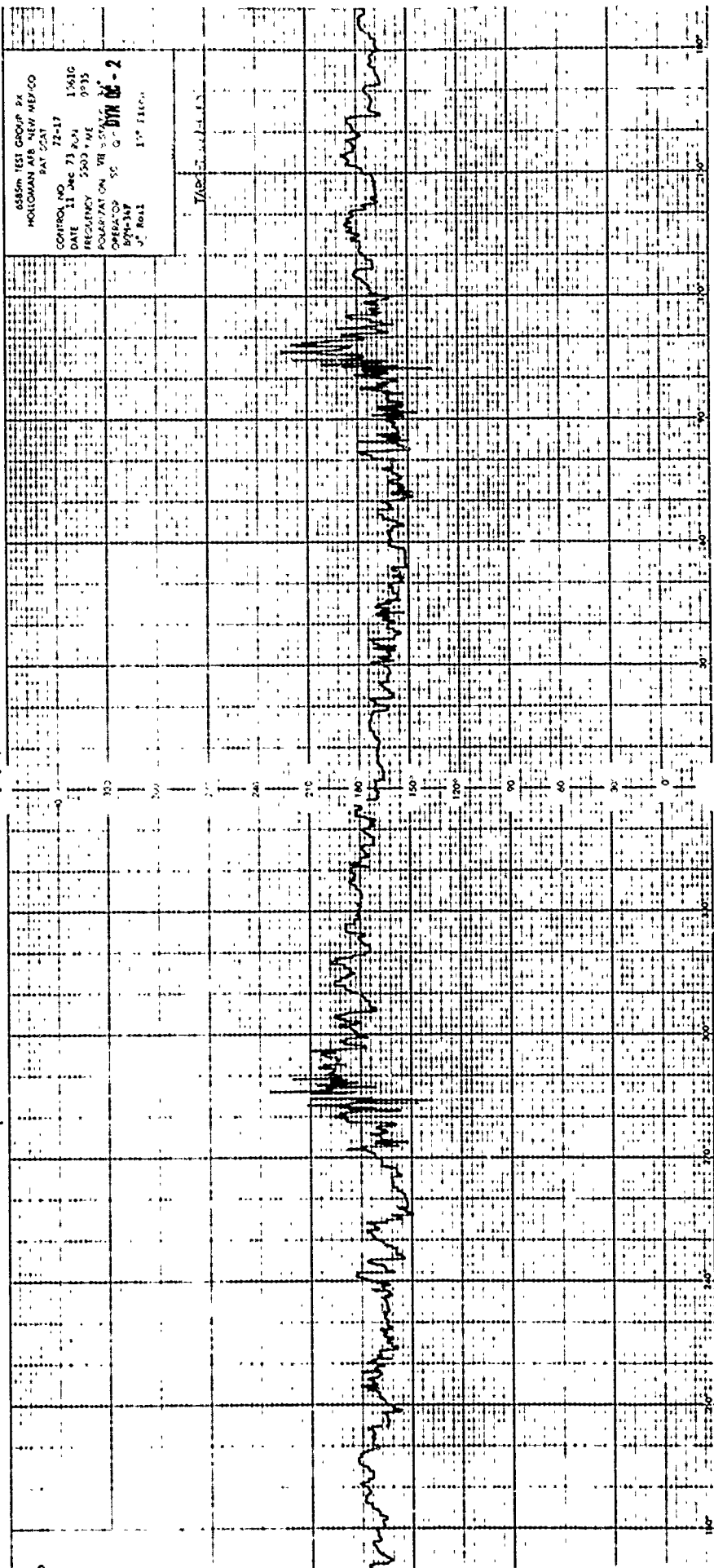
ASSEMBLY TEST QRC: 171
 POLICEMAN A - REF MEX LO
 EAST CAT
 CONTROL NO 72-17 1461A
 DATE 13 DEC 73 P-41 1835
 FREQUENCY 5500 KHZ 1835
 POLARIZATION 1/4 WAVE 30°
 ORIGINATOR SC 2:07N 02-2
 ANTENNA 0° ROLL 1.5° PITCH

TARGET ANTERIOR

REMARKS: 1835 DEC 17 73

6585m TEST GROUP 24
MOLLOMAN AFB NEW MEXICO
PAT 5047
CONTROL NO 72-17
DATE 11 JAN 73 204 1501G
FREQUENCY 2500 MHz 0015
POLARIZATION VERTICAL 30°
ORBITAL ALT 50000
EQU-JAY
EQU-ROLL
1° Pitch

Therapist's Name



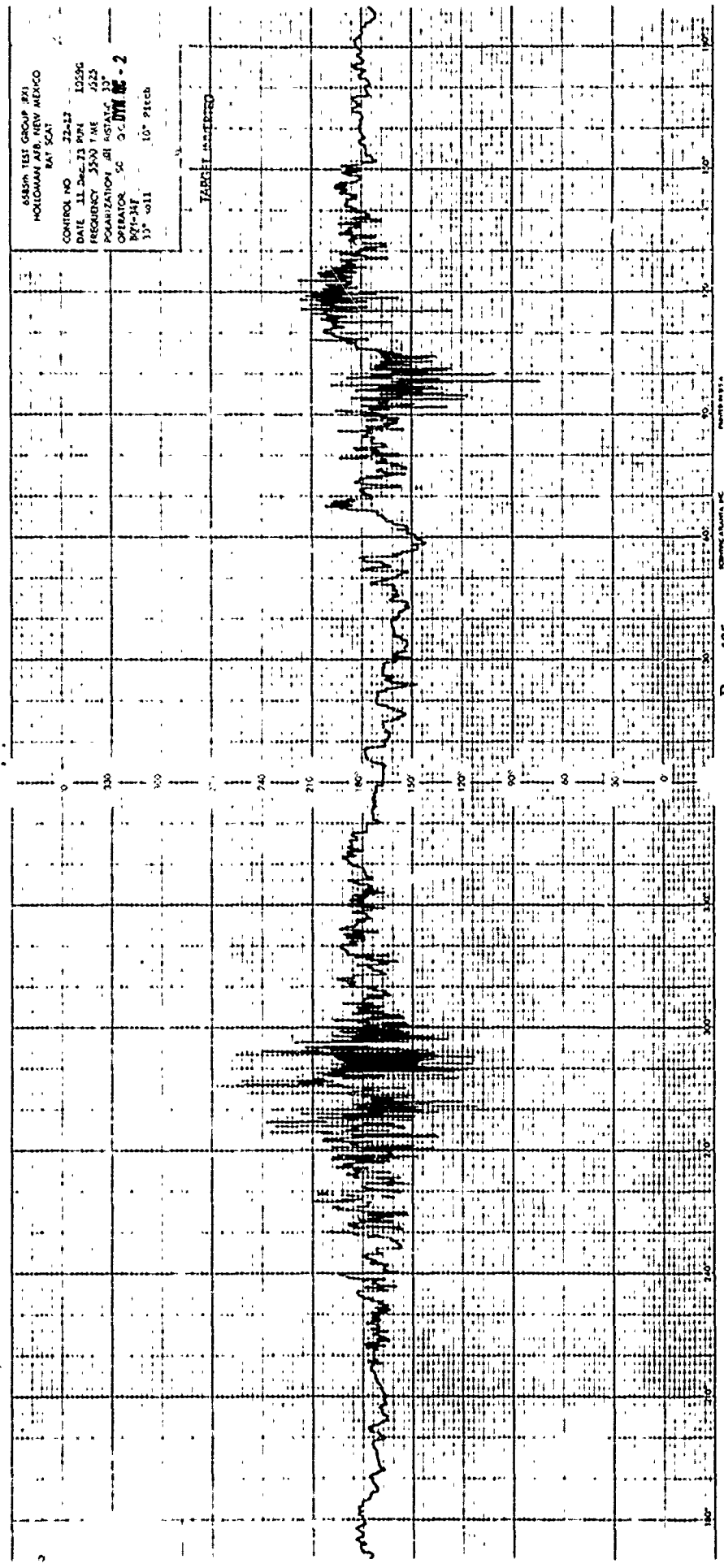
CONTROL NO 72-17
DATE 11 Dec 71 RW 1059
FREQUENCY 5560 TUE 0525
POLARIZATION RH B-STATIC 32°
OPERATOR SC JC DYN 06
474-347
30 Roll 10° Pitch

1953-54

ASSON TEST GROUP #21
HOLLOMAN AFB, NEW MEXICO
RAY SCAT

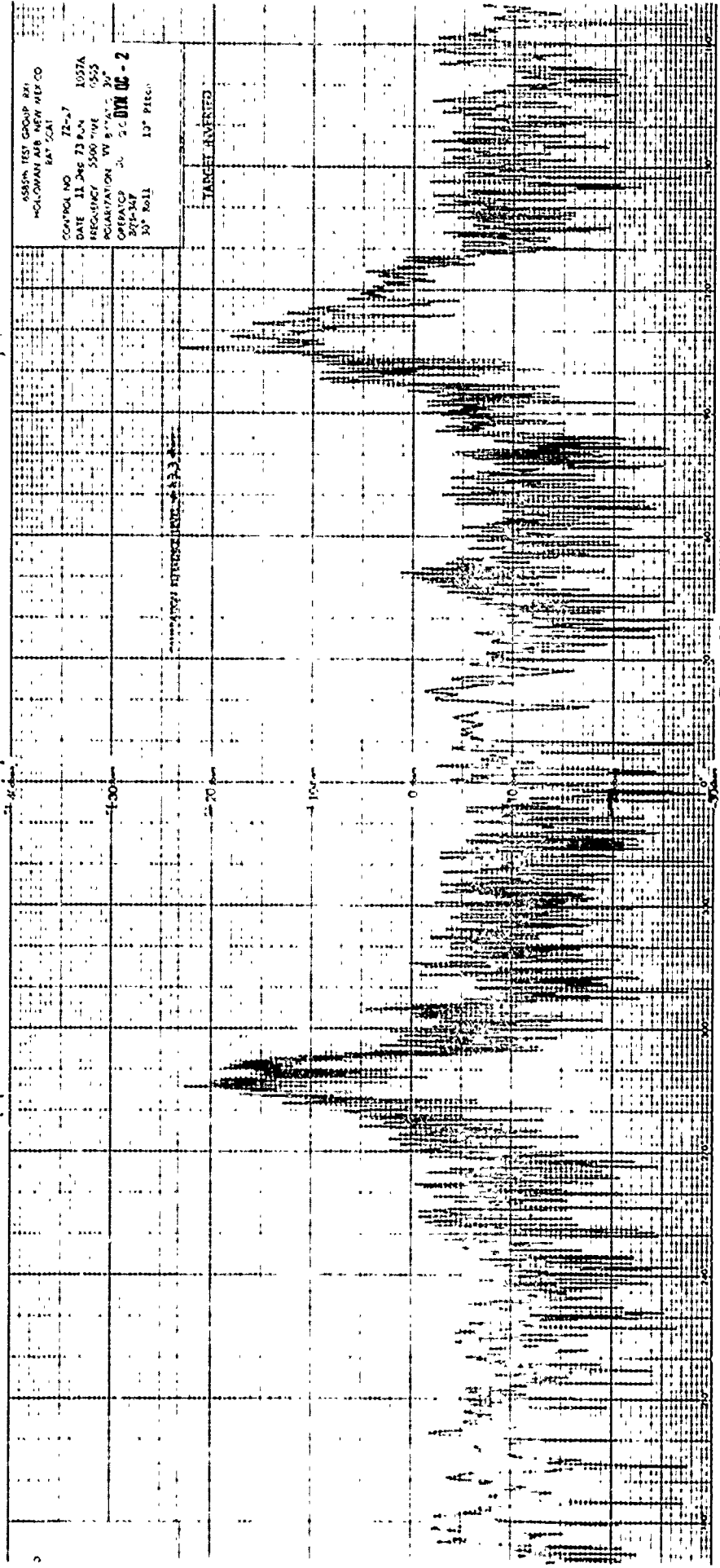
CONTROL NO 22-43
DATE 11 Dec 73 904 1525G
FREQUENCY 3500 MHz 1525
POLARIZATION RH ASY 15°
OPERATOR SC C. J. H. B. - 2
807-347
15° roll 10° pitch

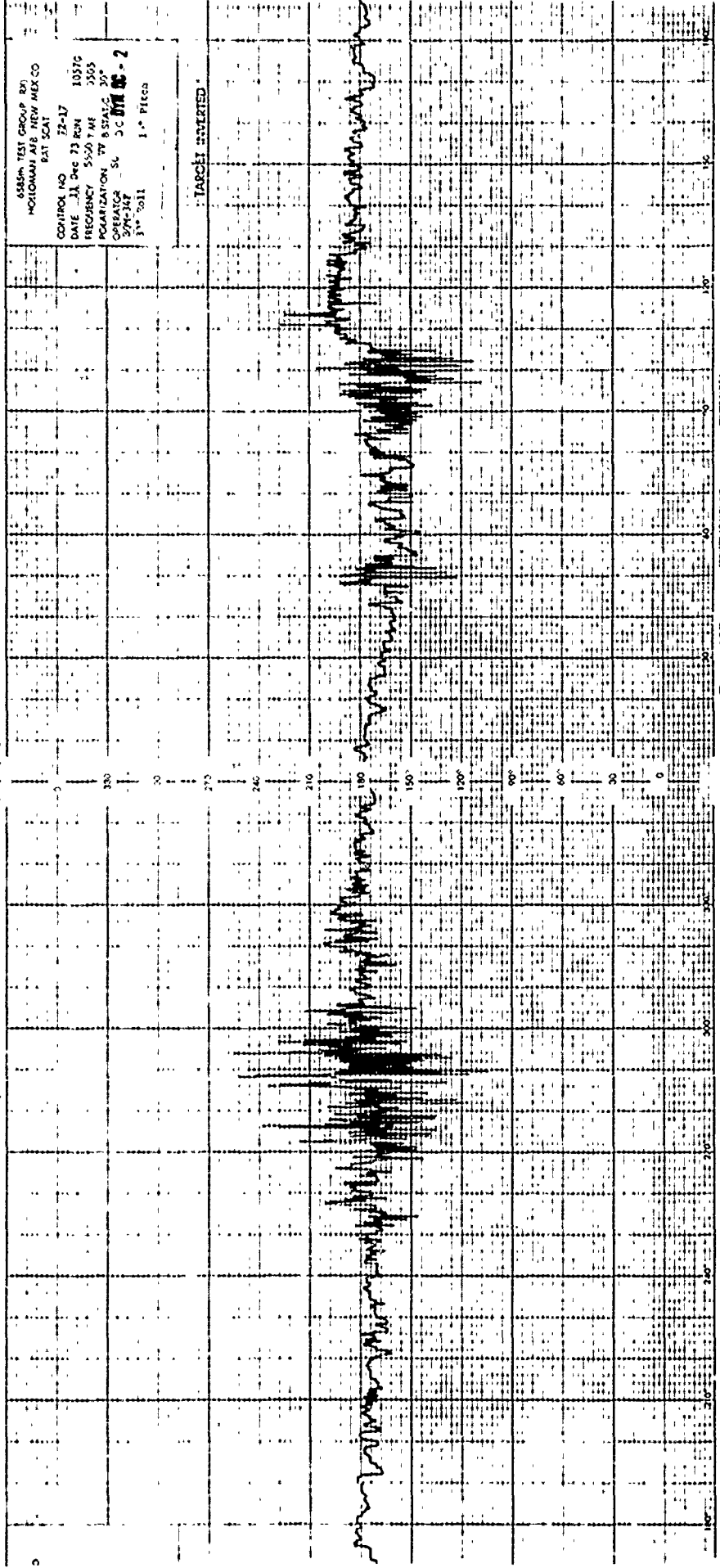
TARGET ASTERO



ASSON TEST GROUP 221
 HOLLOWAY AIR NEW MEXICO
 SAT 501
 CONTROL NO 72-27
 DATE 11 AUG 73 R/N 1057A
 FREQUENCY 5500 "IVE" 5505
 REGISTRATION WY 8 "AT" 30"
 OPERATOR DL 200 DYN 02-2
 2714-347
 30" Roll 13" Pitch

TARGET IDENTIFIED

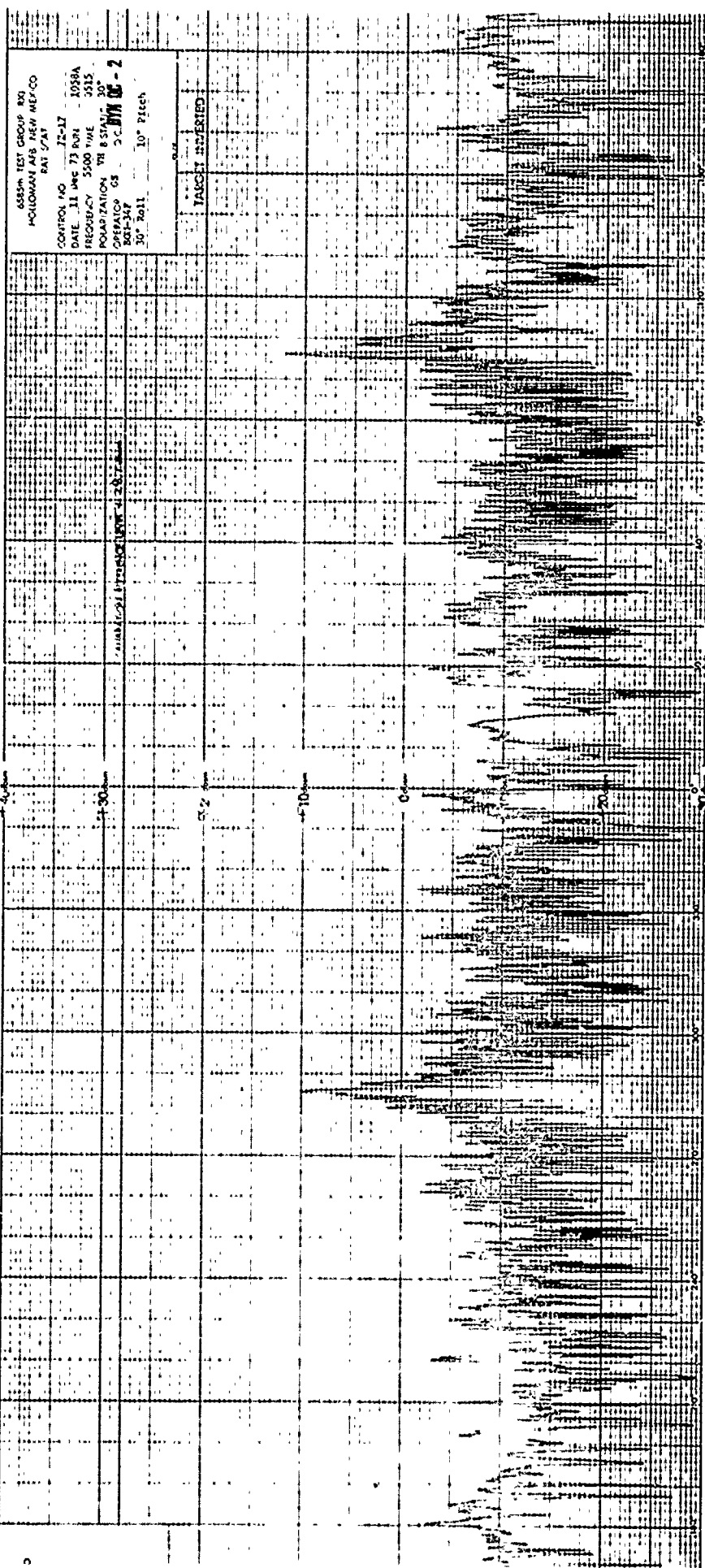




ASSEMBLY TEST GROUP RUN
HOLLOMAN AIR FORCE BASE TEXAS
BAT SCAT
CONTROL NO 72-17
DATE 11 Dec 73 RUN 1037G
FREQUENCY 5500 MHz 5503
POLARIZATION TV 8 STATE 30°
OPERATOR SC DC DTM 02-2
574-147
1st 0011 1st Pitch

TASCHER LIMITED

REPRODUCED BY NASA, INC.
PRINTED IN U.S.A.



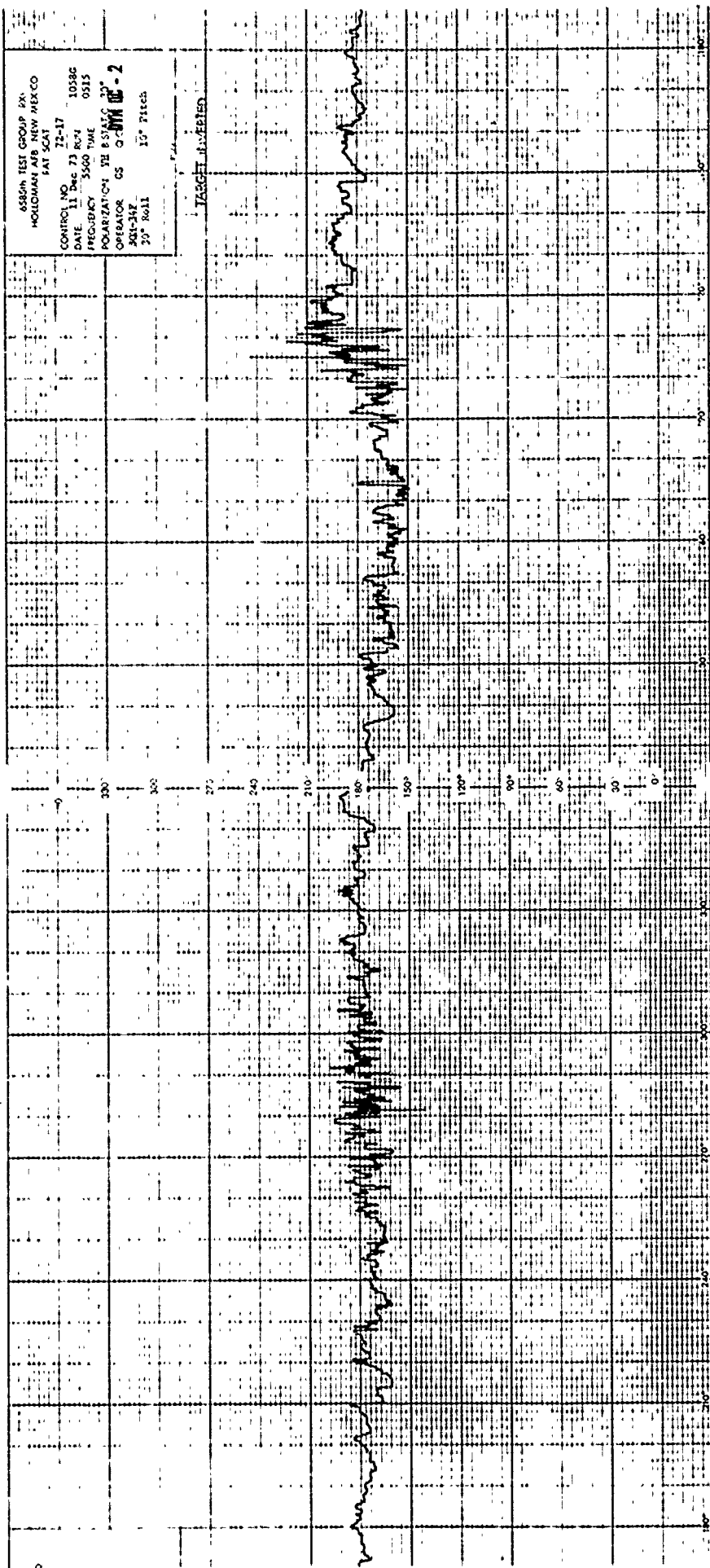
GREEN TEST GROUP 80
POLARON AIR INC CO
BAT 7AT

CONTROL NO 72-17
DATE 11 DEC 73 RUN 0388A
FREQUENCY 5500 MHz 5515
POLARIZATION VIB 8 STATE 30°
OPERATOR GS 5C 000000-2
500-347
30° Roll 10° Pitch

TARGET SCATTERED

6550th TEST GROUP EX
 HOLLAMAN AFB NEW MEXICO
 FAT SCAT
 CONTROL NO 72-17
 DATE 11 Dec 73 RCY 1038G
 FREQUENCY 5500 MHz 0515
 POLARIZATION VE 8513C 20°
 OPERATOR GS G-2
 ANTENNA 20° Roll 10° Pitch

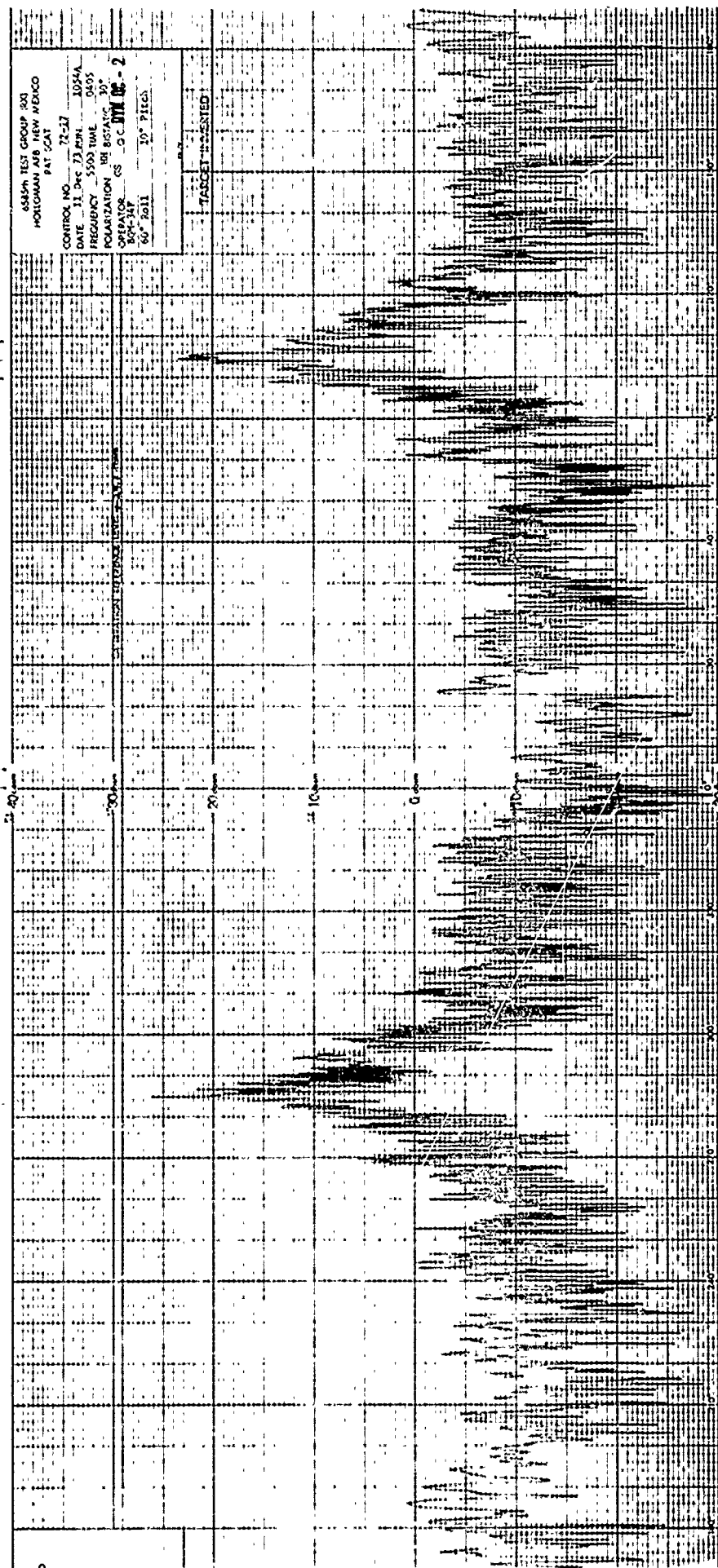
TARGET IDENTIFIED

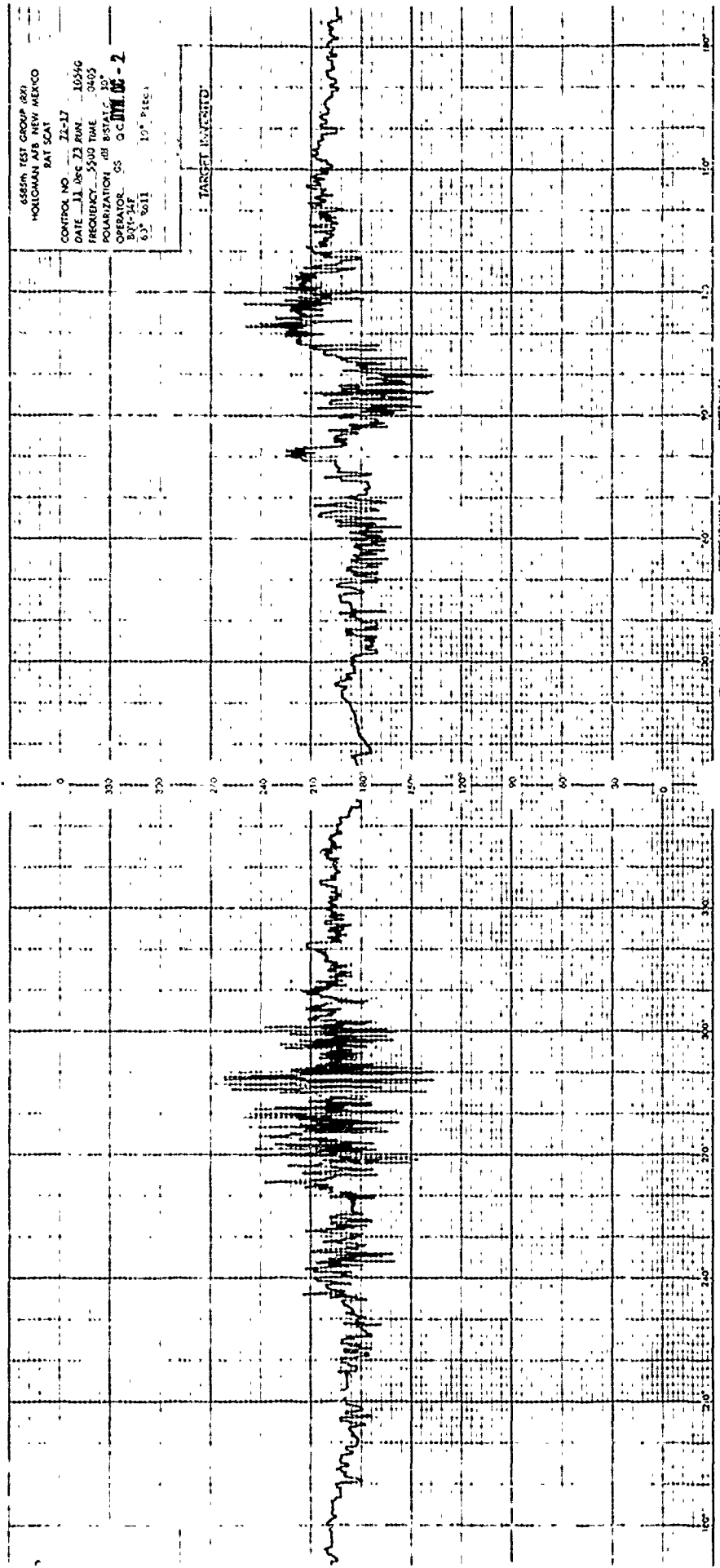


6585th TEST GROUP (RX)
HOLLAMAN AFB NEW MEXICO
PAT SCAT

CONTROL NO. 72-27
DATE 11 Dec 73
FREQUENCY 5500 TUNE 0405
POLARIZATION HF BISTATIC 30°
OPERATOR 804-147
60° Roll 10° Pitch

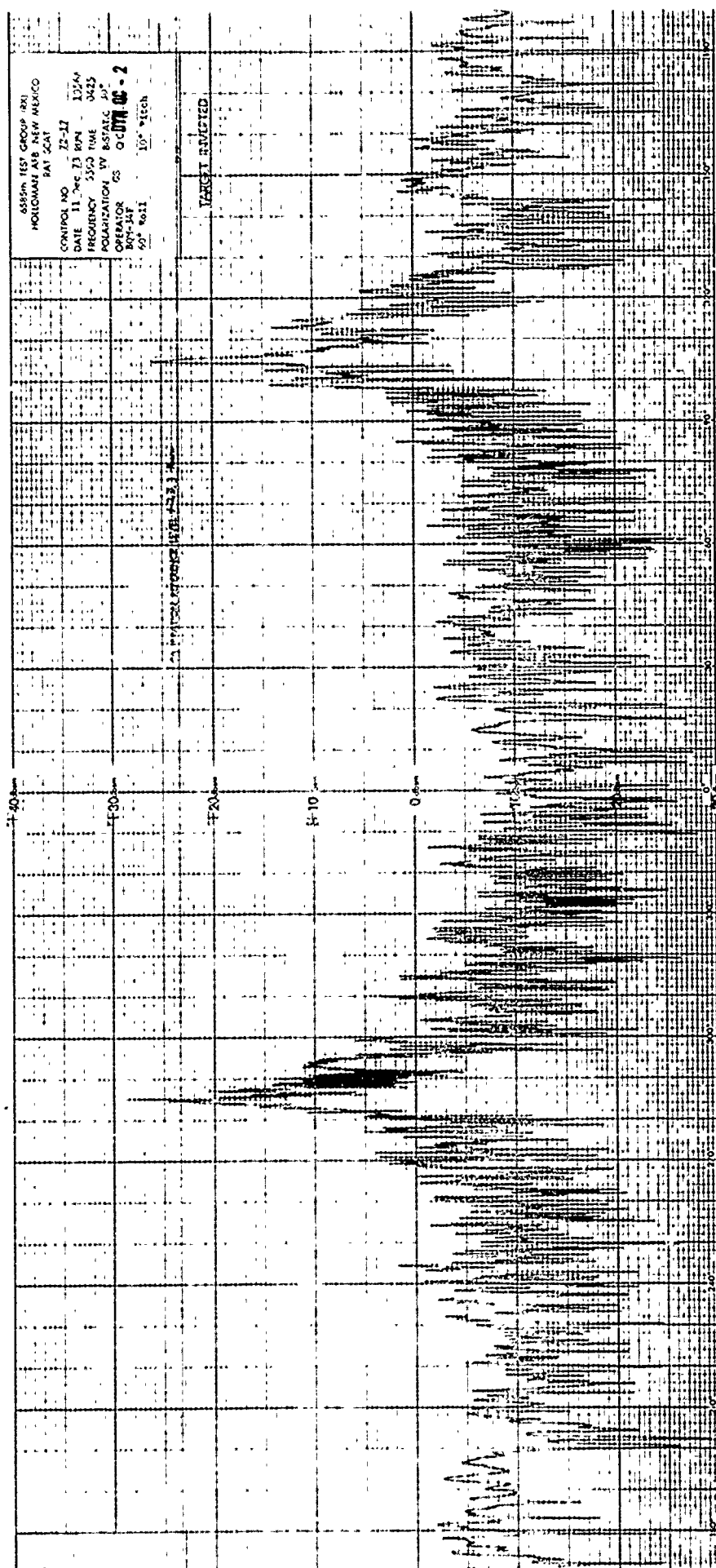
GOAL SETTING

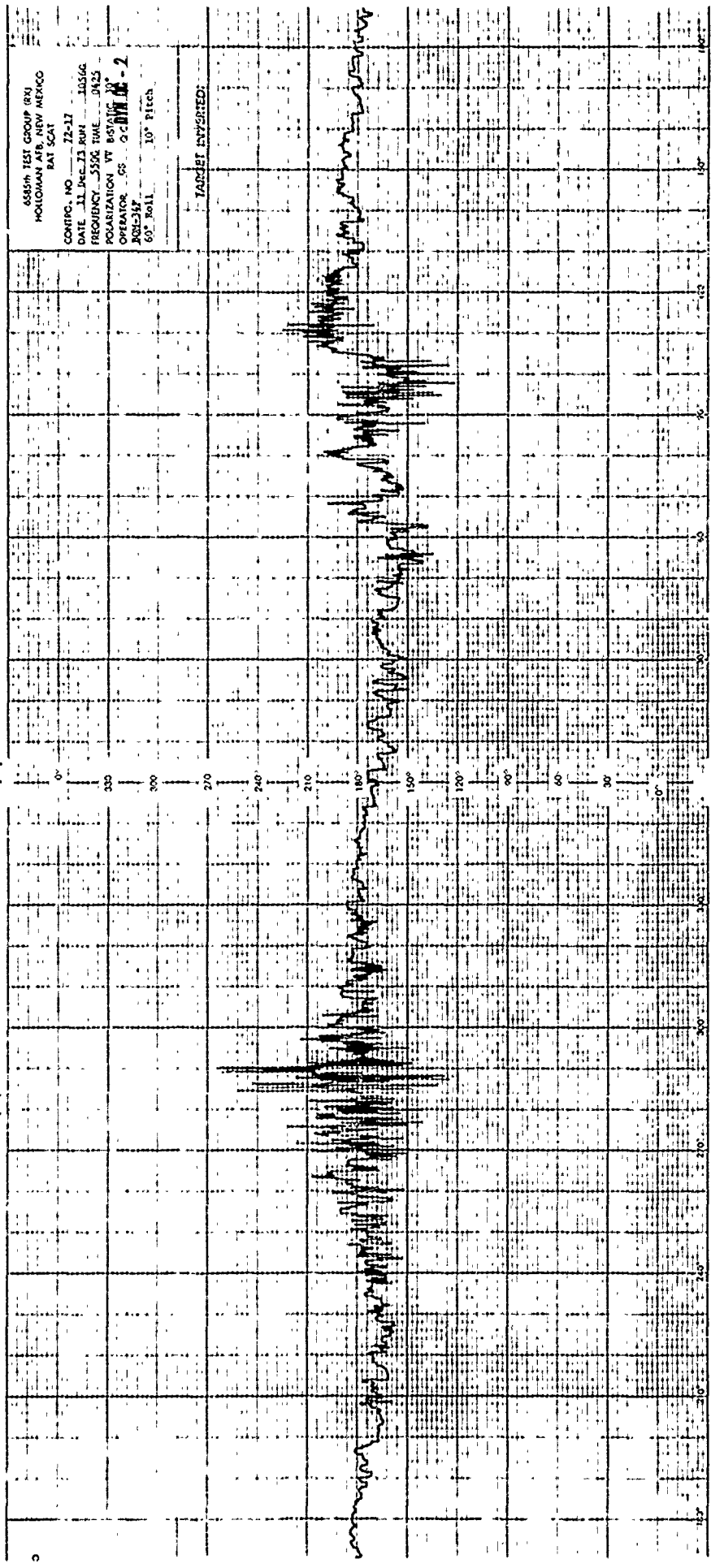




CONTROL NO - 72-17
DATE 11 Dec 73 RWY - 103A
FREQUENCY 5550 TIME 0425
POLARIZATION VV 8-STAT 10°
OPERATOR CS ODTN OC -
BOY-14F
60° x 11 10° x 11ch

100-443887-1

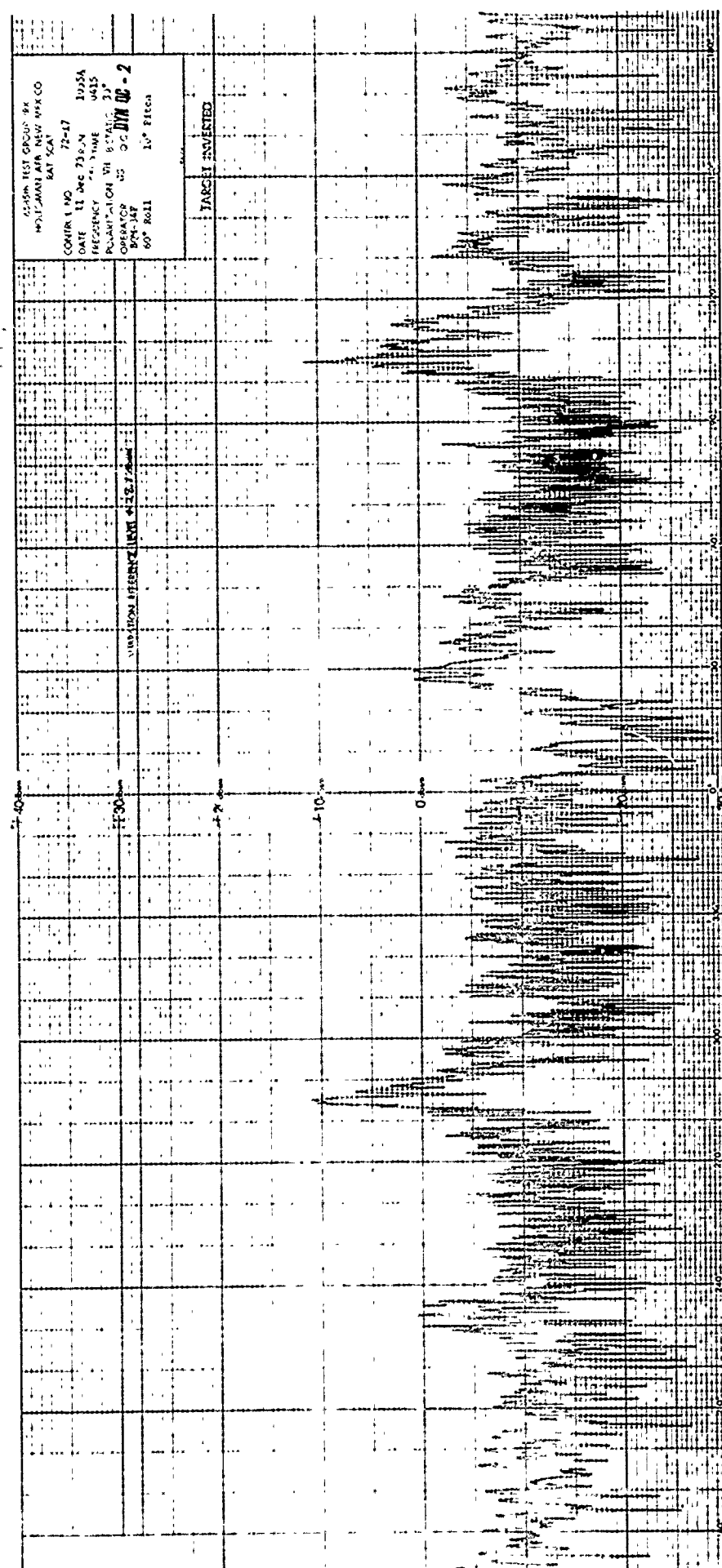


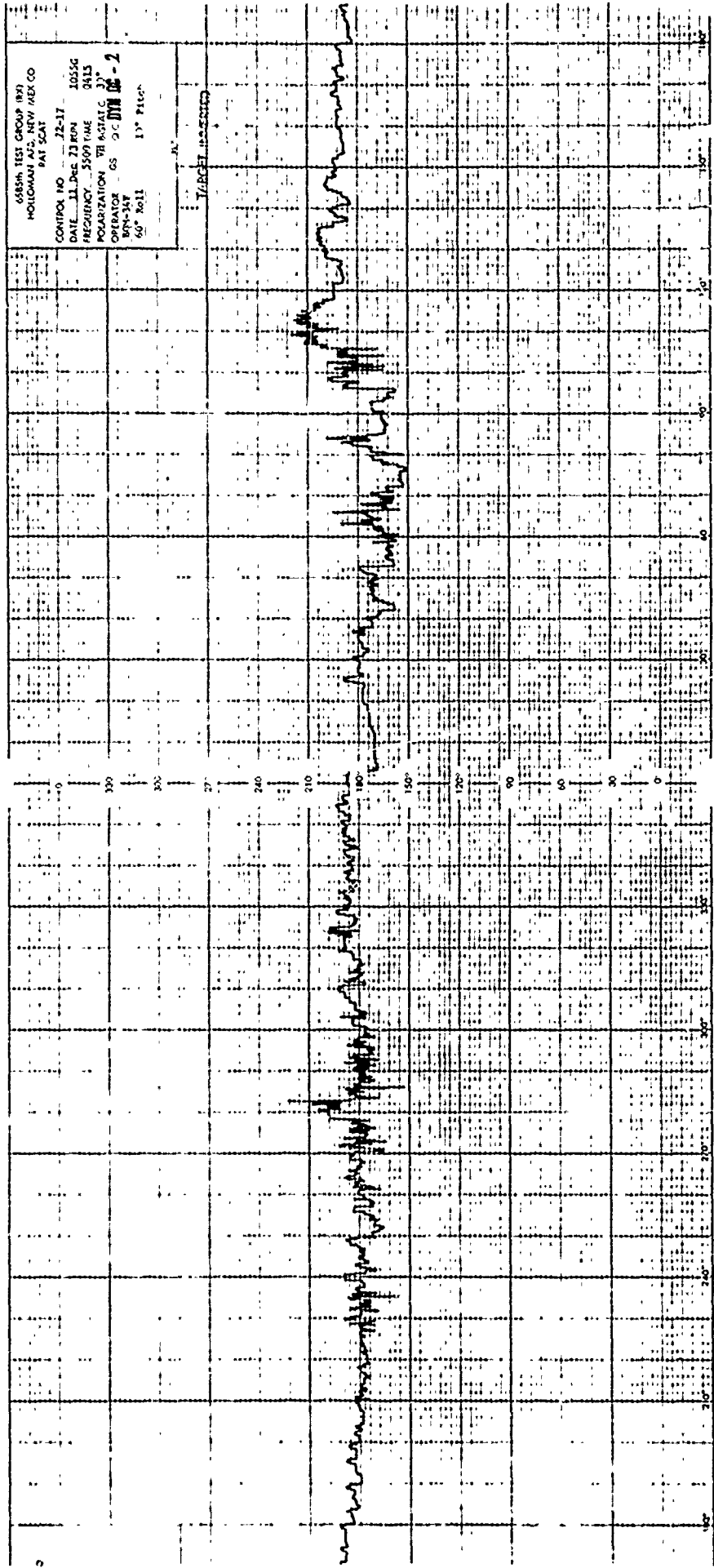


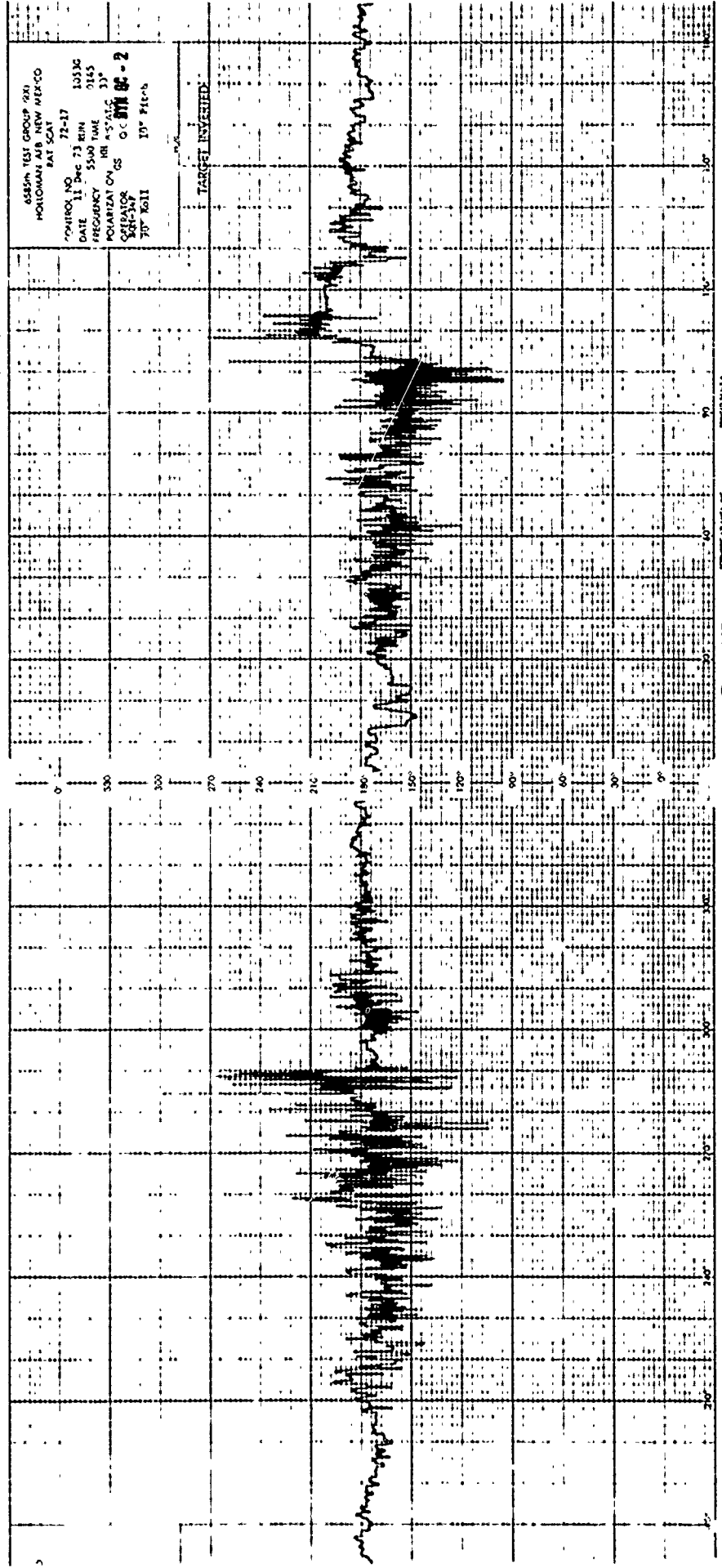
6235m TEST GROUP 8X
W7.1 JAMES AFB NEW MEX CO
BAT SCAT

CONTRACT NO 72-17
DATE 11 Dec 73 RJA 1955A
FREQUENCY 2.0 MHz 0415
PULSATION VIB STATION 33°
OPERATOR US OGDYD QC - 2
60° Roll 10° Pitch

TARGET INVENTED

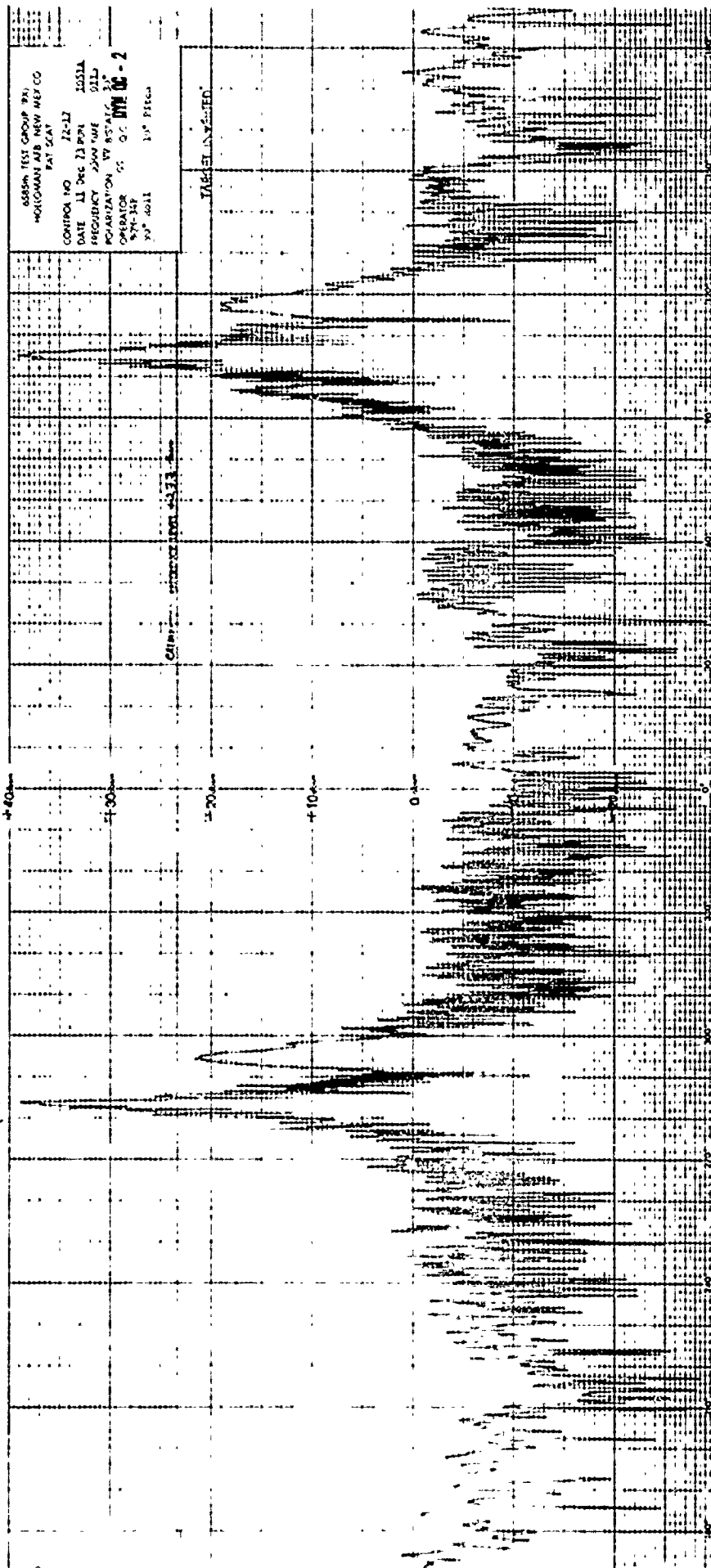






ASSEN TEST GROUP 921
HOLLOMAN AFB NEW MEXICO
RAT SCAT
CONTROL NO 72-17
DATE 11 Dec 73 1033G
FREQ 5500 MHz 0145
POLARIZAT ON RH
OPERATOR CS
CAPTAIN
300 Roll 10° Pitch

TARGET INVERTED

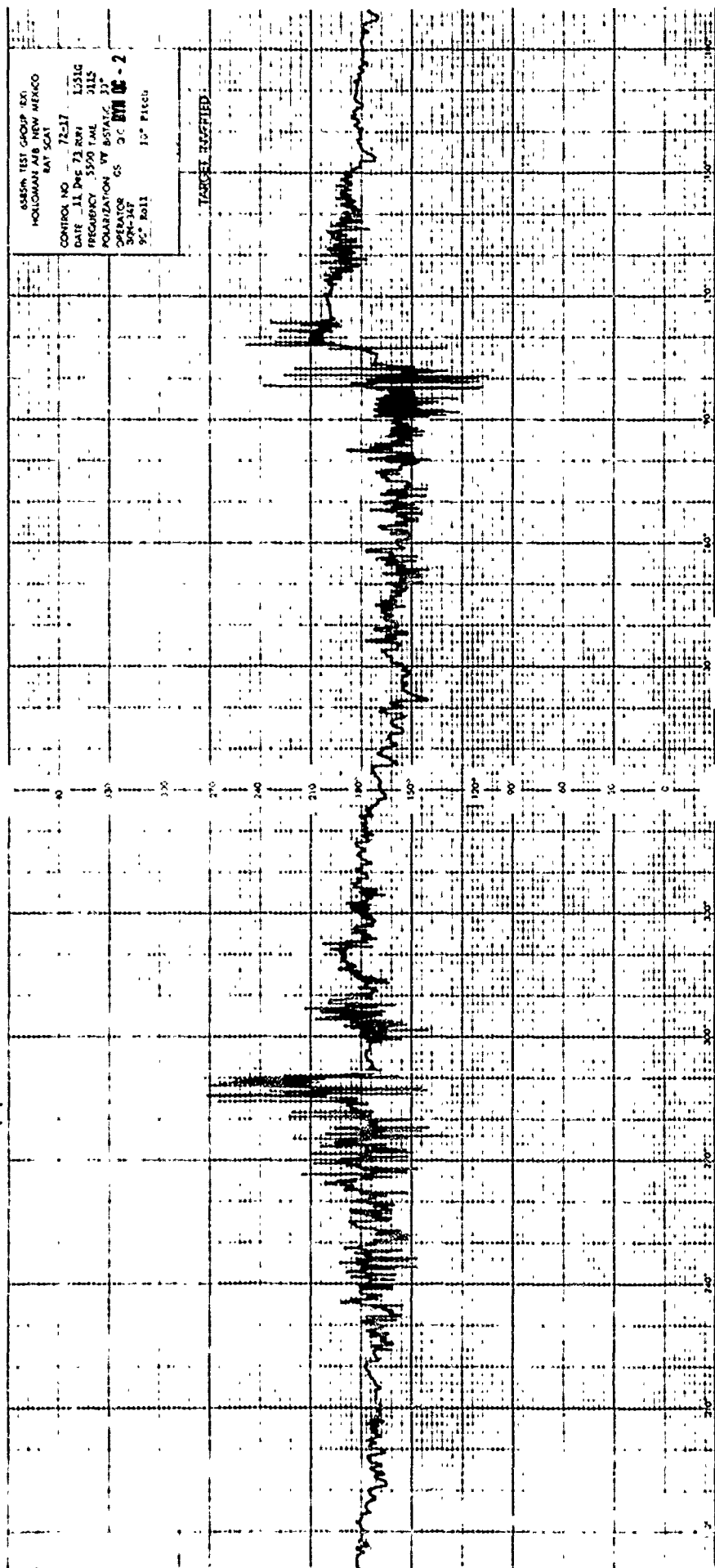


6855M TEST GROUP 3A
HOLCOMB AIR NEW HAVEN CT
PAT 22-12
CONTROL NO 22-12
DATE 11 Dec 73 PPM 1031A
FREQUENCY 3000 MHz 0110
MODULATION 100% AM 300
OPERATOR 01 01 01
WFO 147
WFO 4011
100 PPM

6550A TEST GROUP 101
HOLCOMB AIR NEW MEXICO
RAY SEA

CONTROL NO - 72317
DATE 11 Dec 71 RPN 1351G
FREQUENCY 5500 TALE 3115
POLARIZATION W 85°/12 33°
OPERATOR GS OC **BN OC - 2**
30M-347 90° Roll 10° Pitch

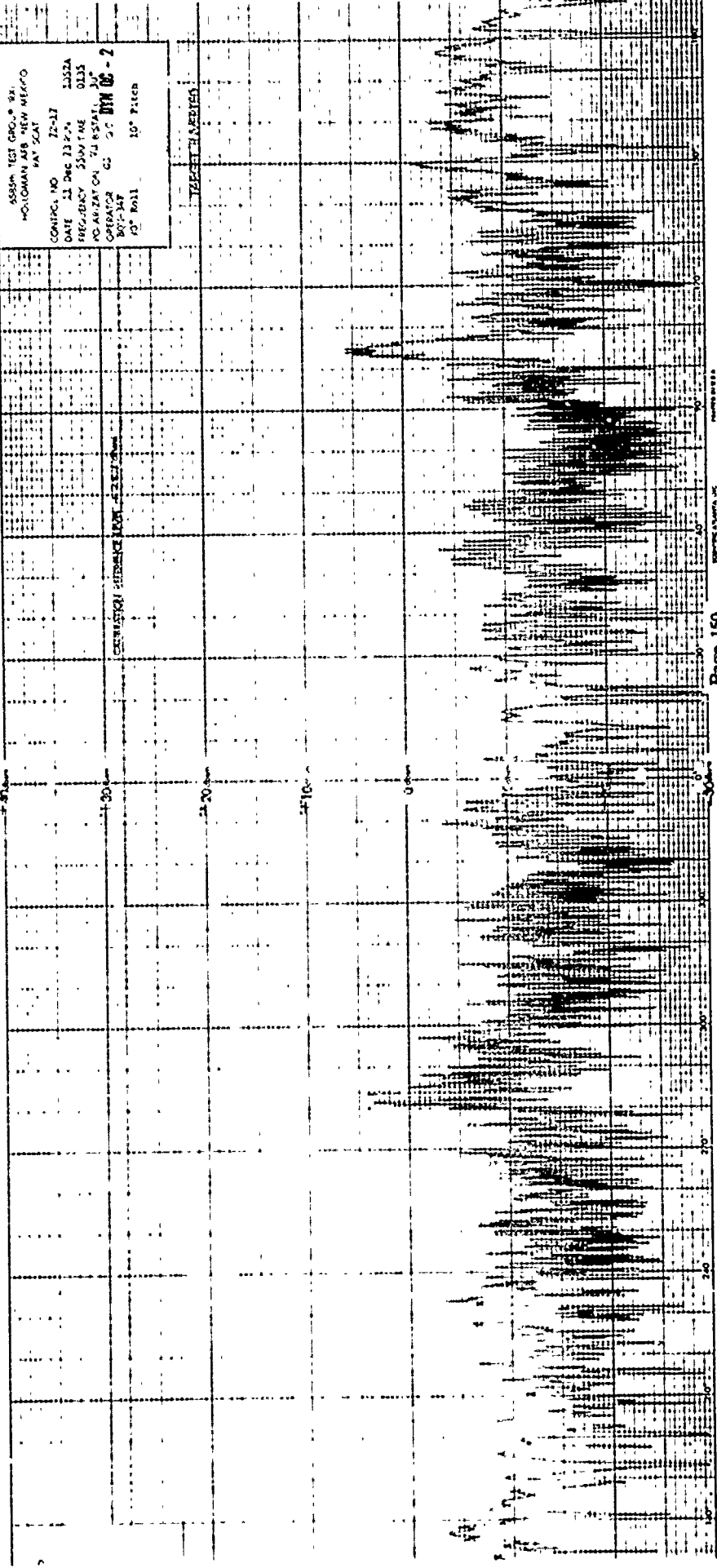
TARGET REQUESTED

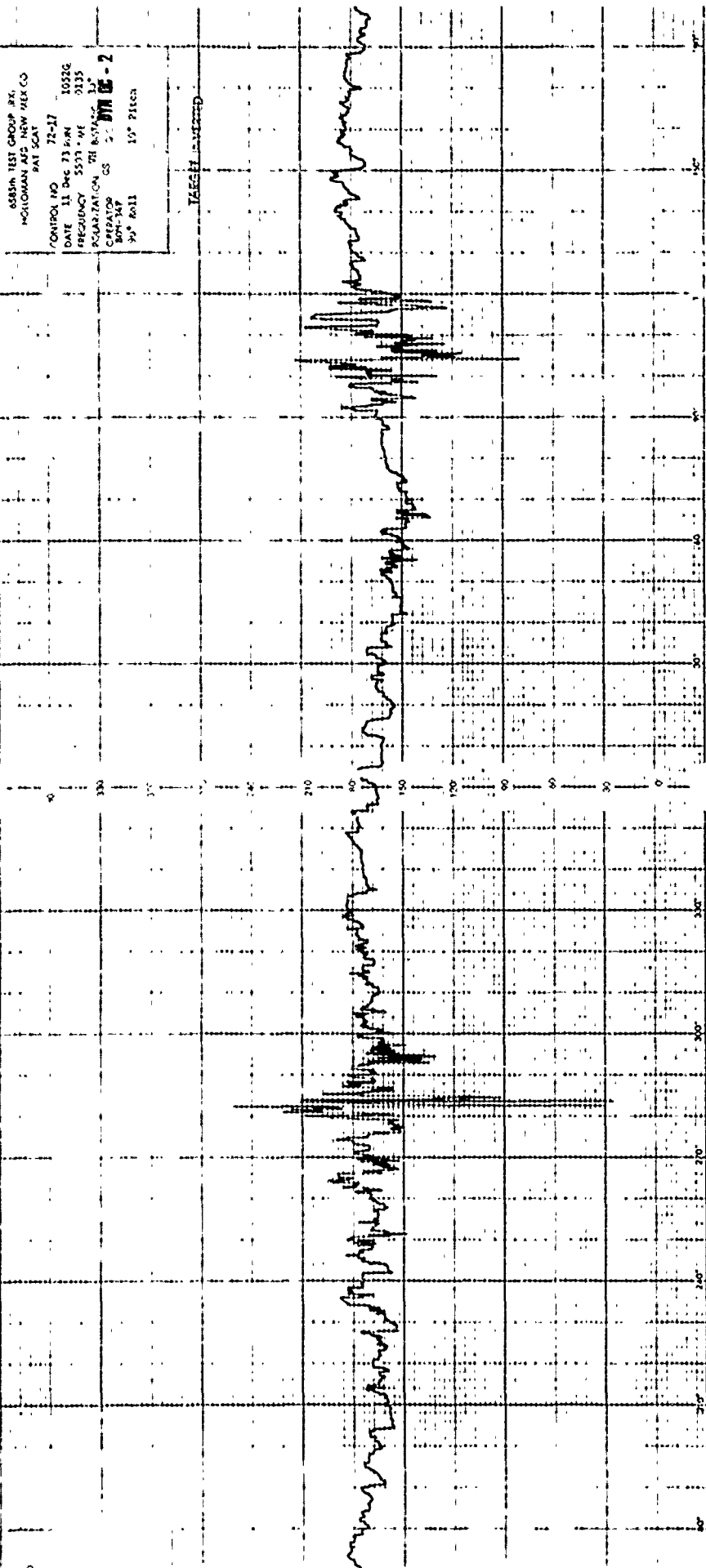


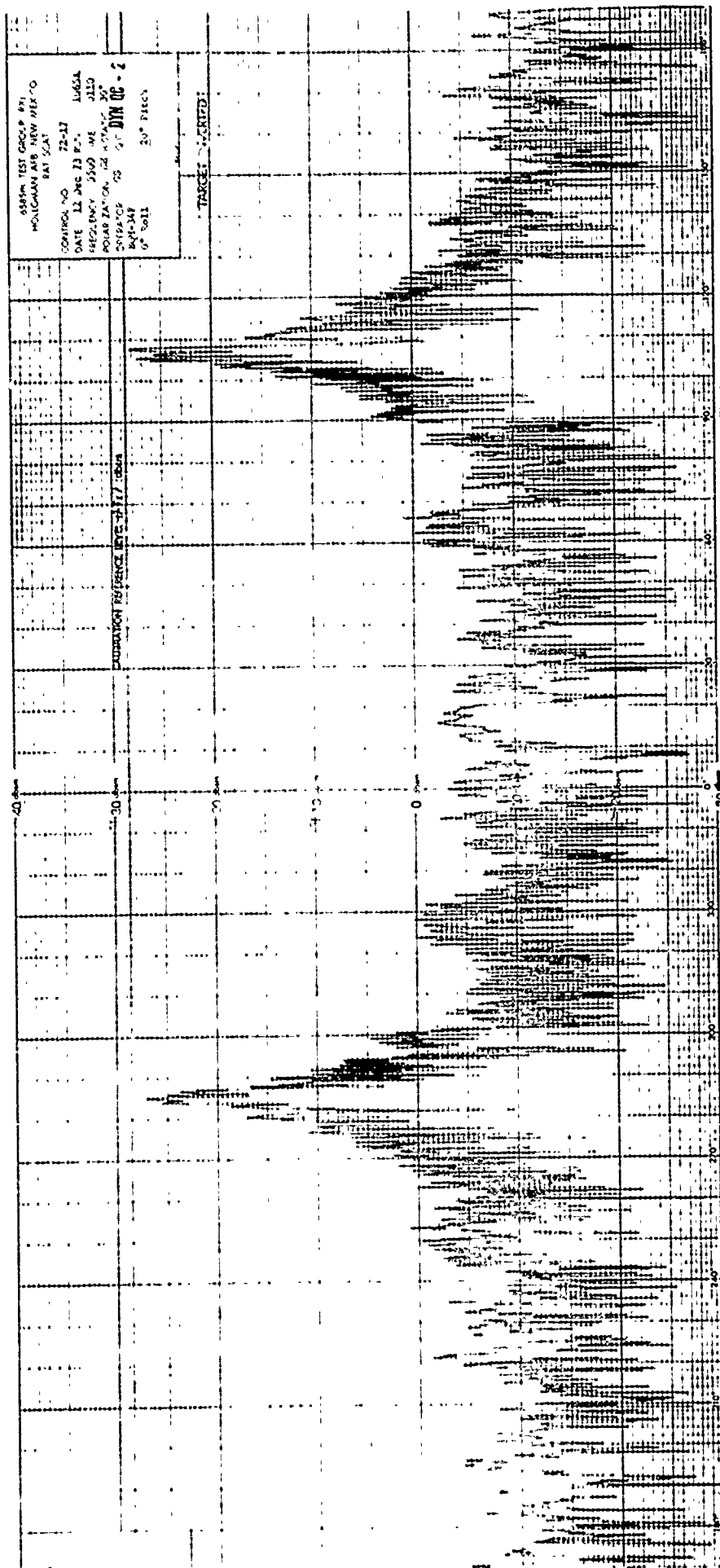
5555A TEST GRO. 9A
 HOLLOMAN AFB NEW MEXICO
 PAT SCAT
 CONTING. NO 12-17 1352A
 DATE 11 Dec 73 2-4
 FREQUENCY 5500 MHz 0135
 POLARIZATION VERTICAL, 30°
 OPERATOR GJ JC
 807-147
 10° Roll 10° Pitch

TARGET IDENTIFIED

ORIENTATION: 10° Roll, 10° Pitch

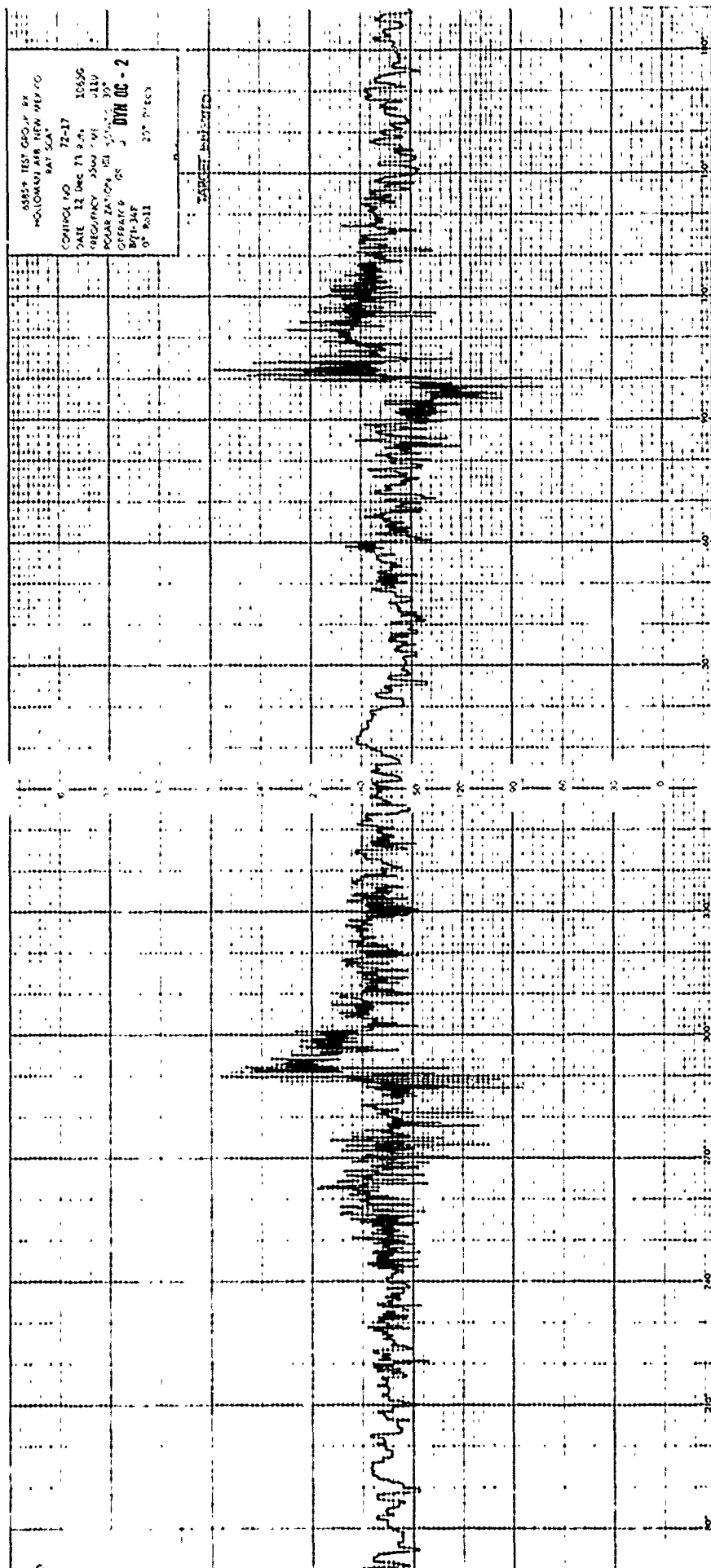


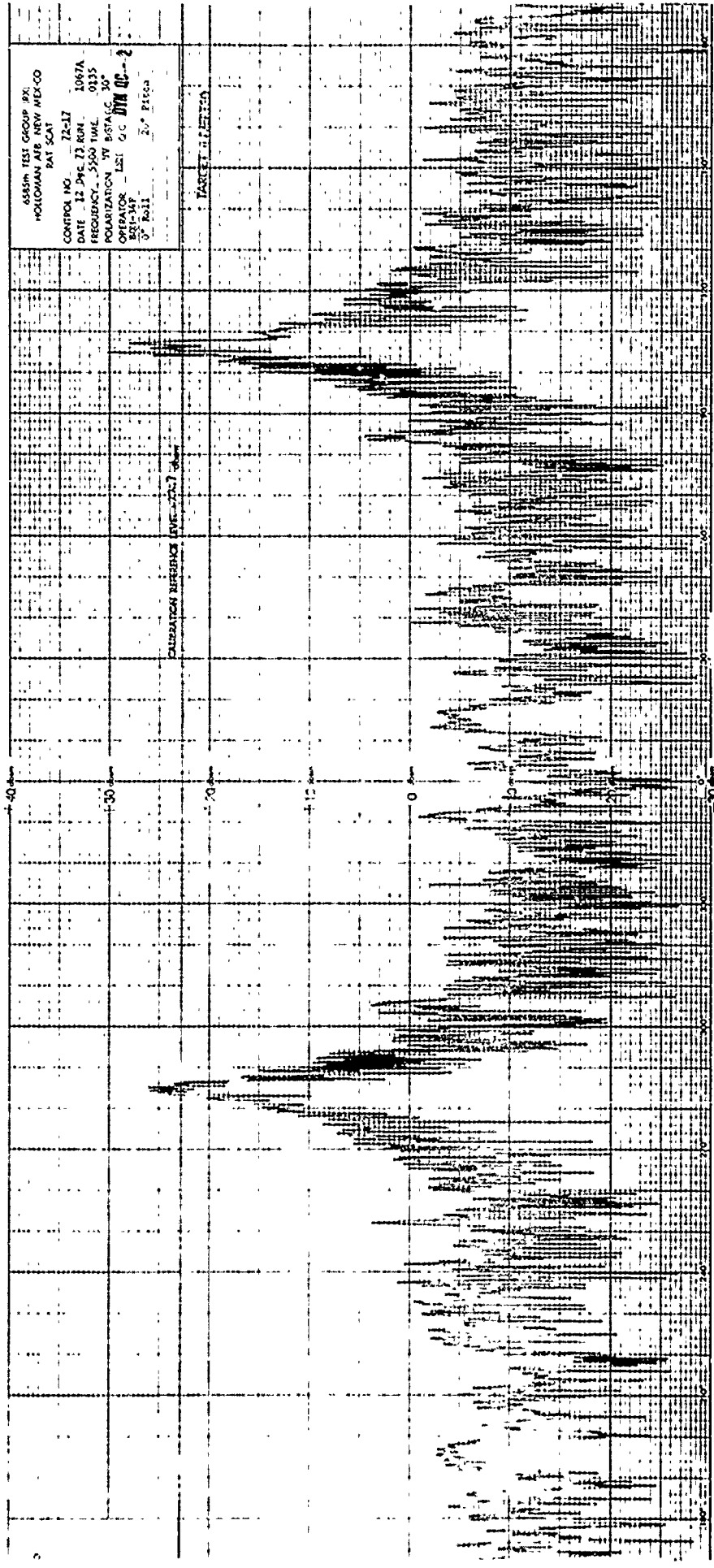




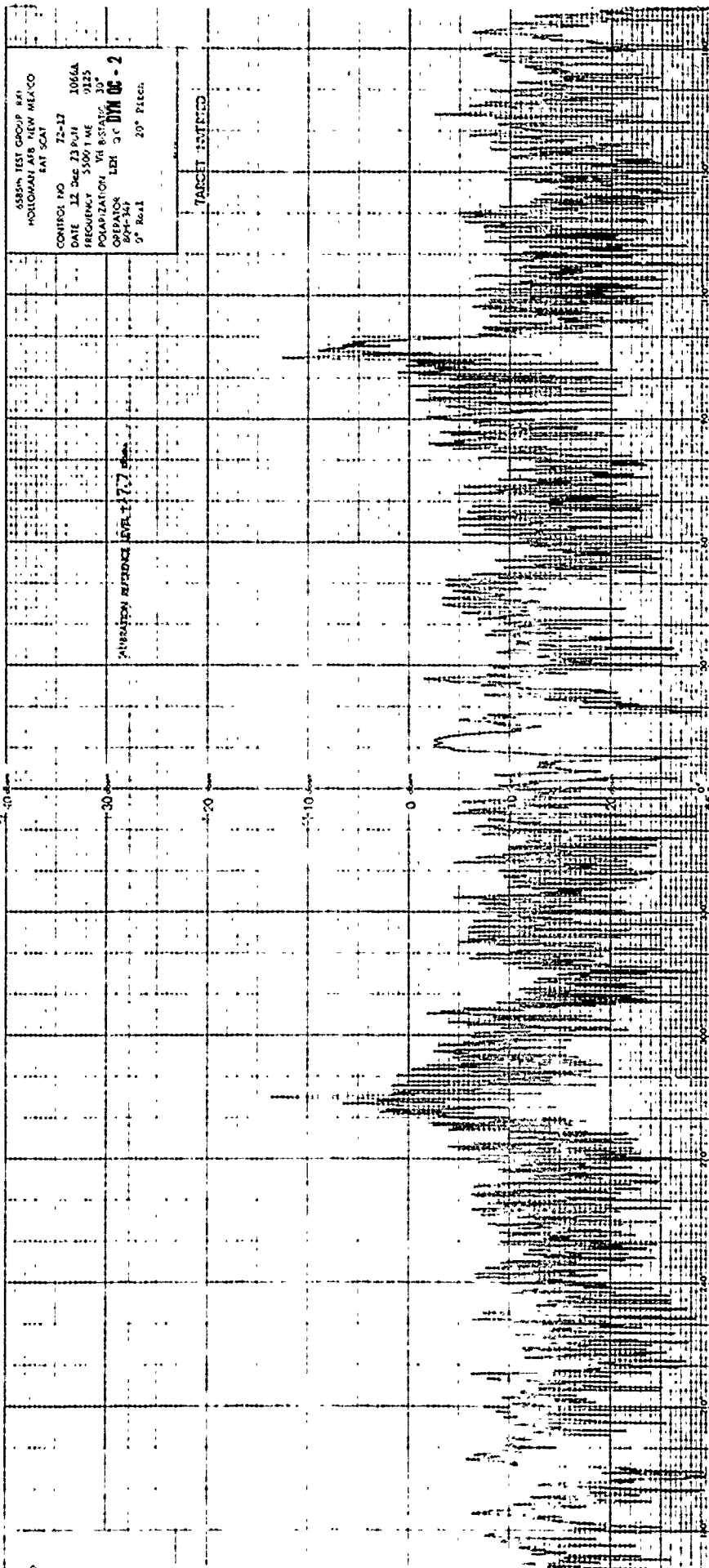
555PM TEST GROUP 871
 HOLLAND AIR NEW AVE 0
 141 5247
 CONTROL NO 72-17
 DATE 12 Dec 73 P. 1605A
 FREQUENCY 5500 MHz 3110
 POLARIZATION 120° 30°
 55124705 05 00 DYN 00-2
 847-347
 0° Soil 20° Pitch

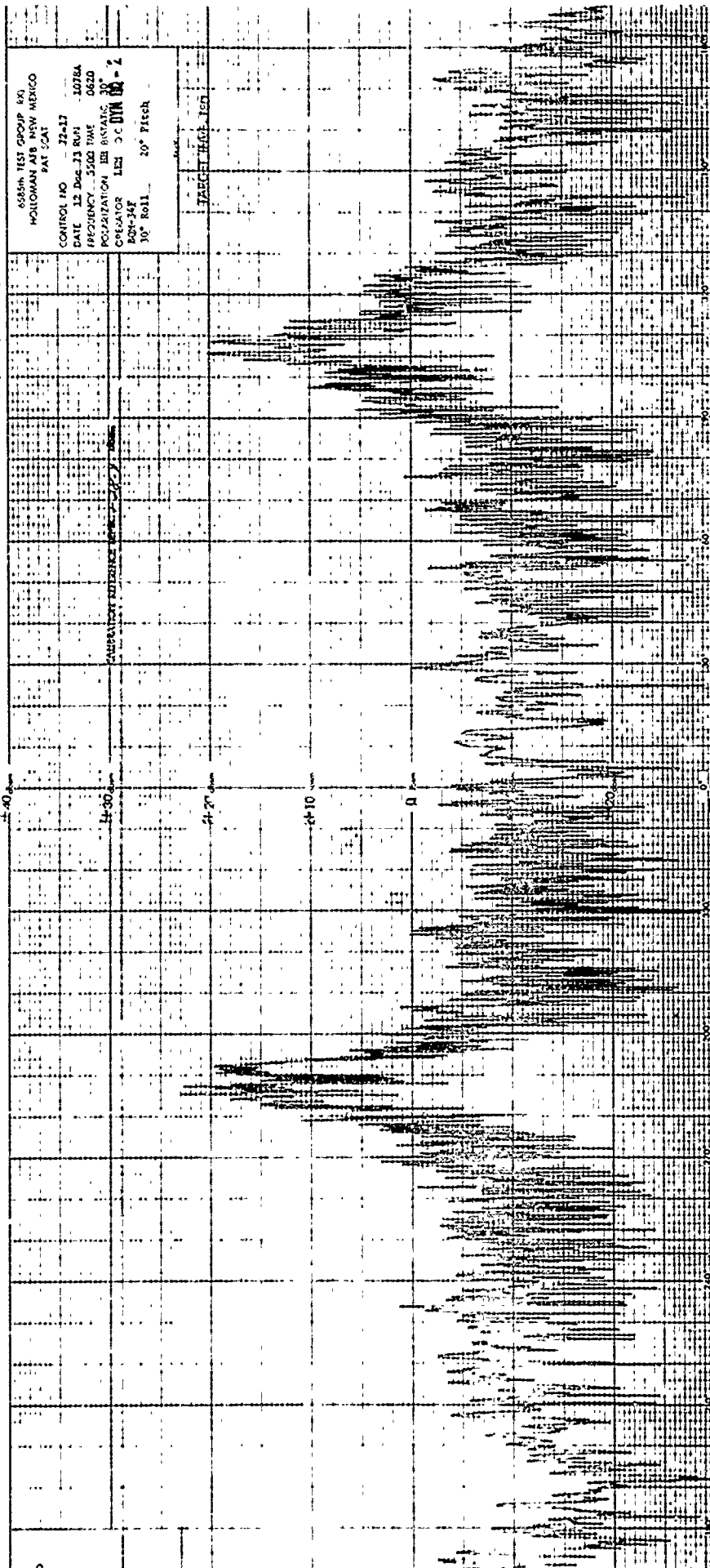
TARGET DESCRIBED:





6555m TEST GROUP 19X
HOLLOMAN AFB NEW MEXICO
RAT SCAT
CONTROL NO. 72-17 1067A
DATE 12 Dec 72 RUM
FREQUENCY 5500 HZ 0135
POLARIZATION 90 HORIZONTAL 30°
OPERATOR LSI G.C. DYN 02-2
801-347
0° Roll 20° Pitch





CHS 11-1001



[illegible]

ASBSON TFSI CACCA P 5X1
COO CANAN AFR NEW MEX CO
RA "CA"

2-13

20360

10360

100

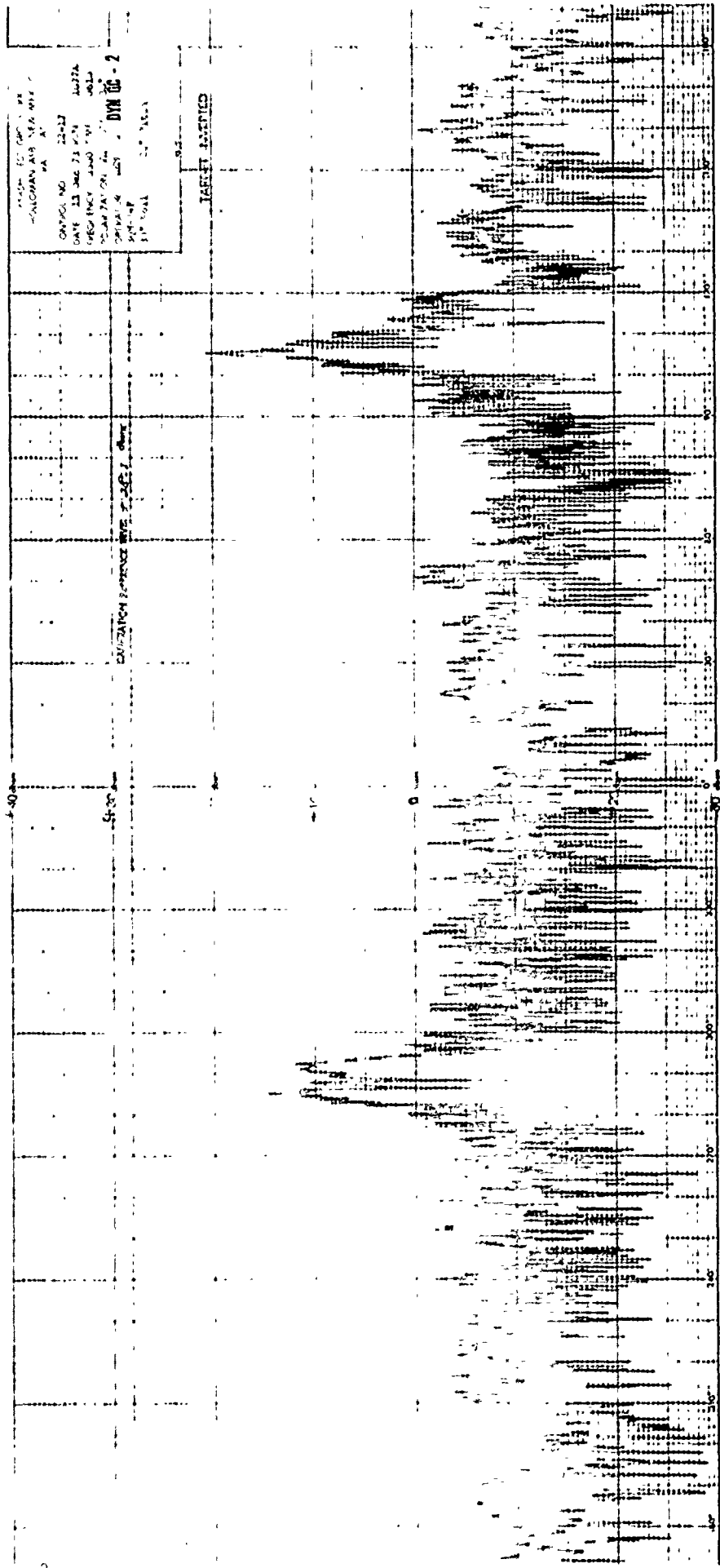
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2-2

TARGET MARKET

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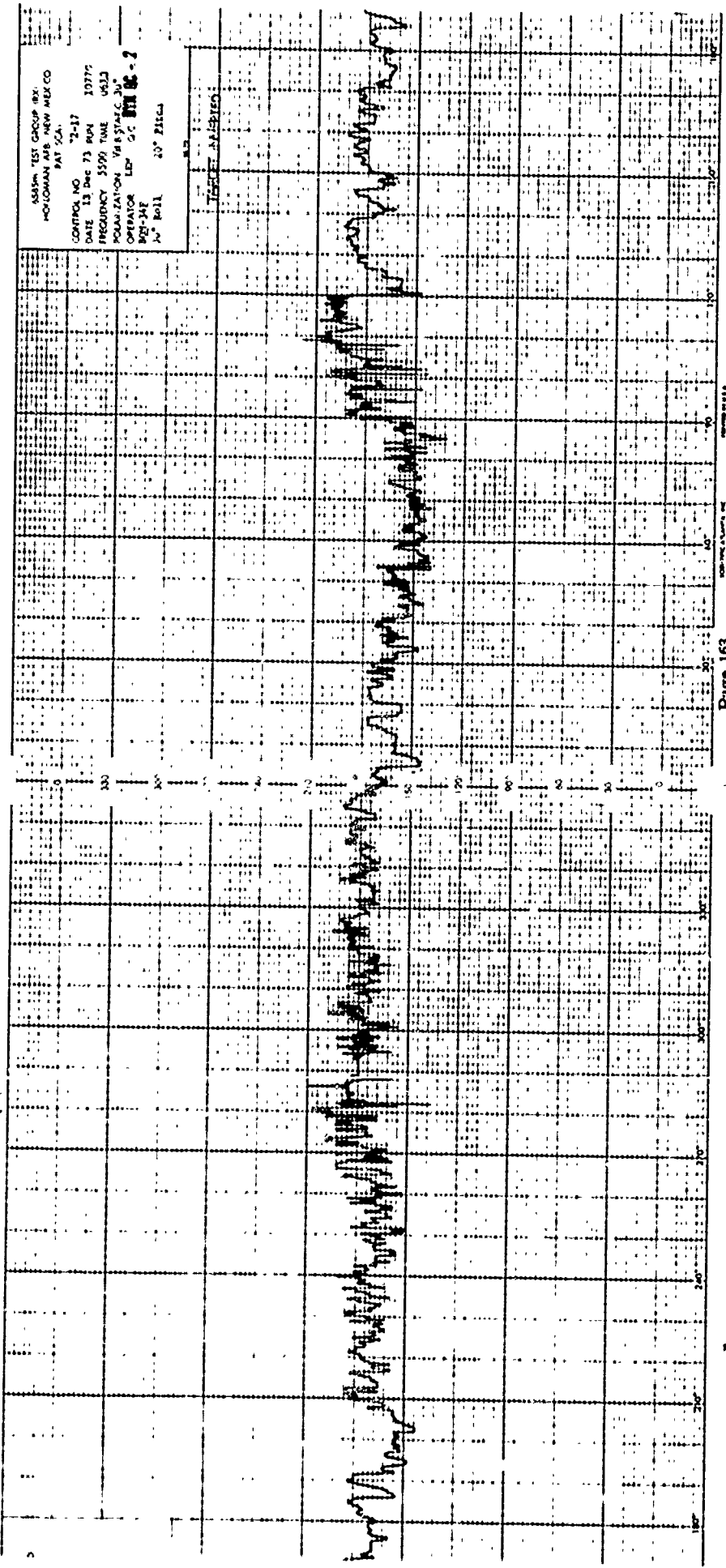


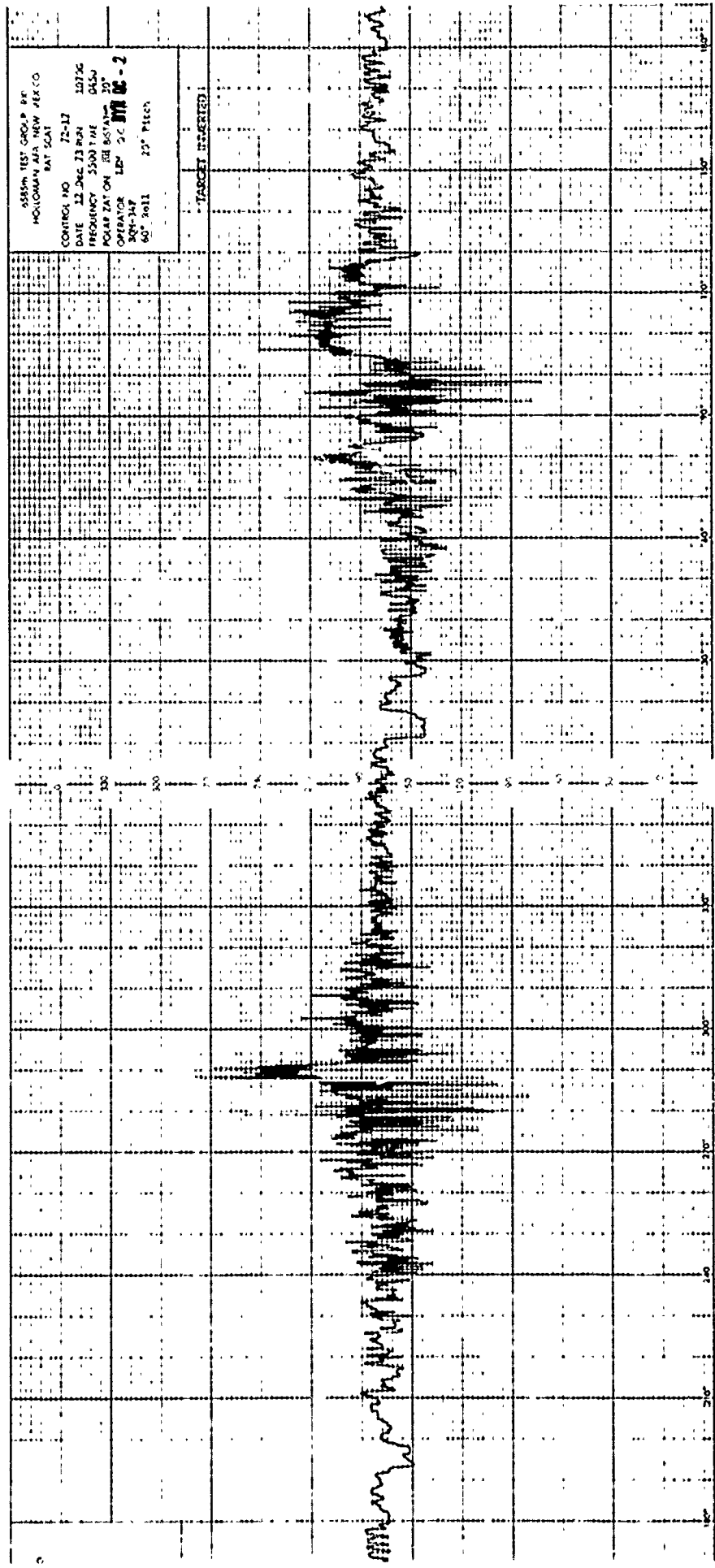
CONTROL NO. 12-12
DATE 12 DEC 71
FREQUENCY 1200 Hz
REMARKS 1200 Hz
DWN 12-12
1200 Hz

JANET MARRIED

ASSIN TEST GROUP INC.
 100 COMMERCE ST. NEW ALEX CO
 NAT CAN
 CONTROL NO 72-17
 DATE 13 Dec 73 RUN 10775
 FREQUENCY 5500 TIME 0633
 POLARIZATION VERTICAL 30°
 OPERATOR LEP C C
 825-242
 Ju Ball 20° 2150

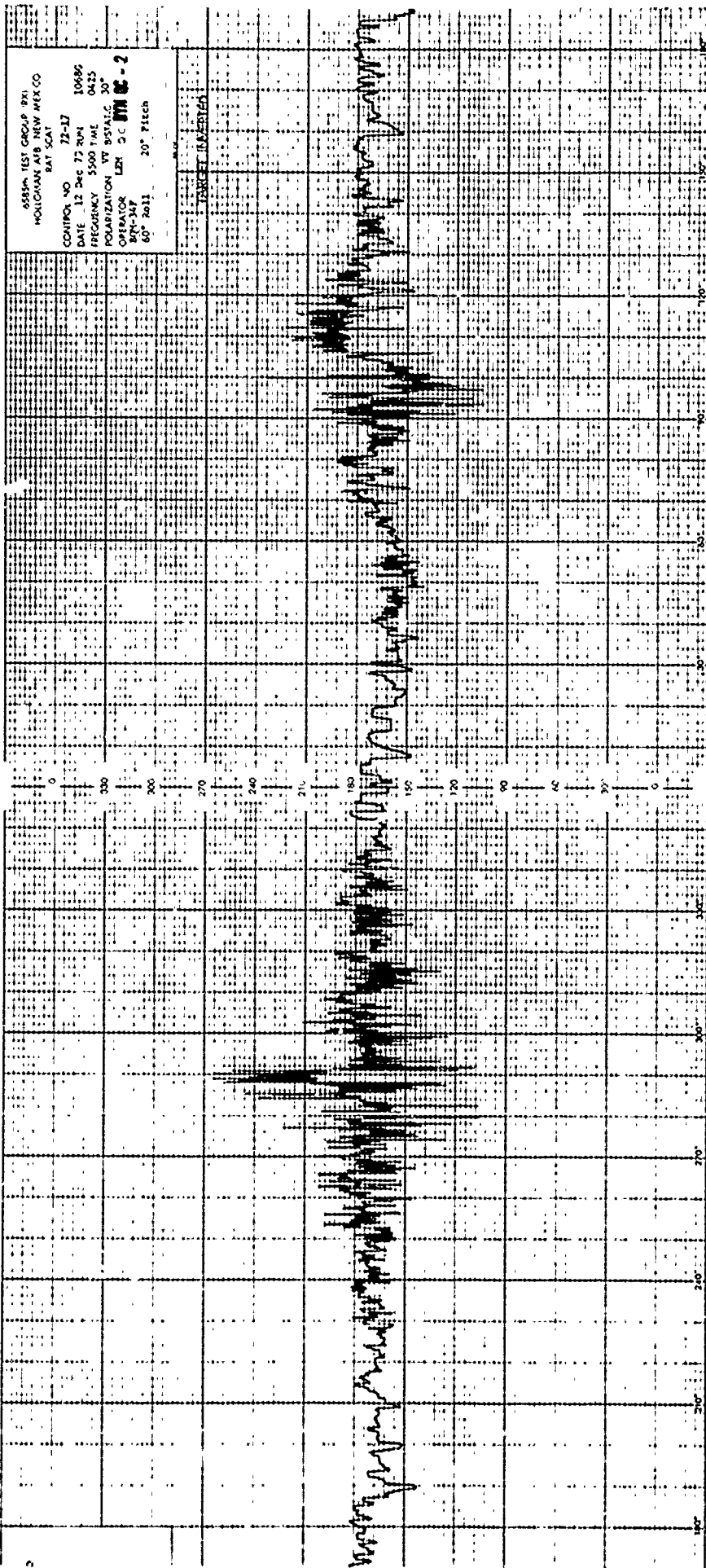
TARGET ADJUSTED
 1000

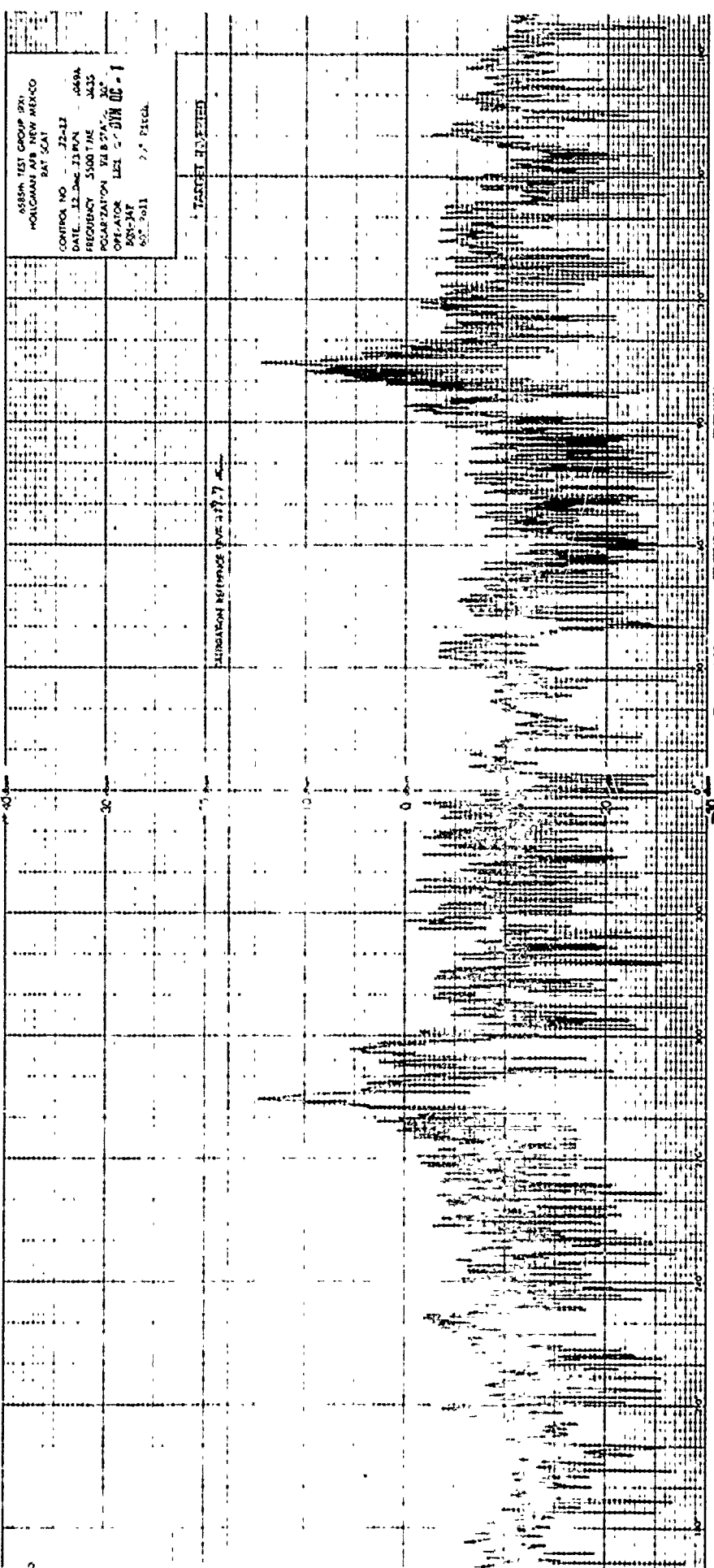




11-2-20

254-340-1772





ASSIGN TEST GROUP 1971
HOLICMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO. 22-12
DATE 12 Dec 73
FREQUENCY 5500 TNE
POLARIZATION VE 8.75%
OPERATOR LES C. D. W. 00-1
RPM-247
607-2411 2.7 P100

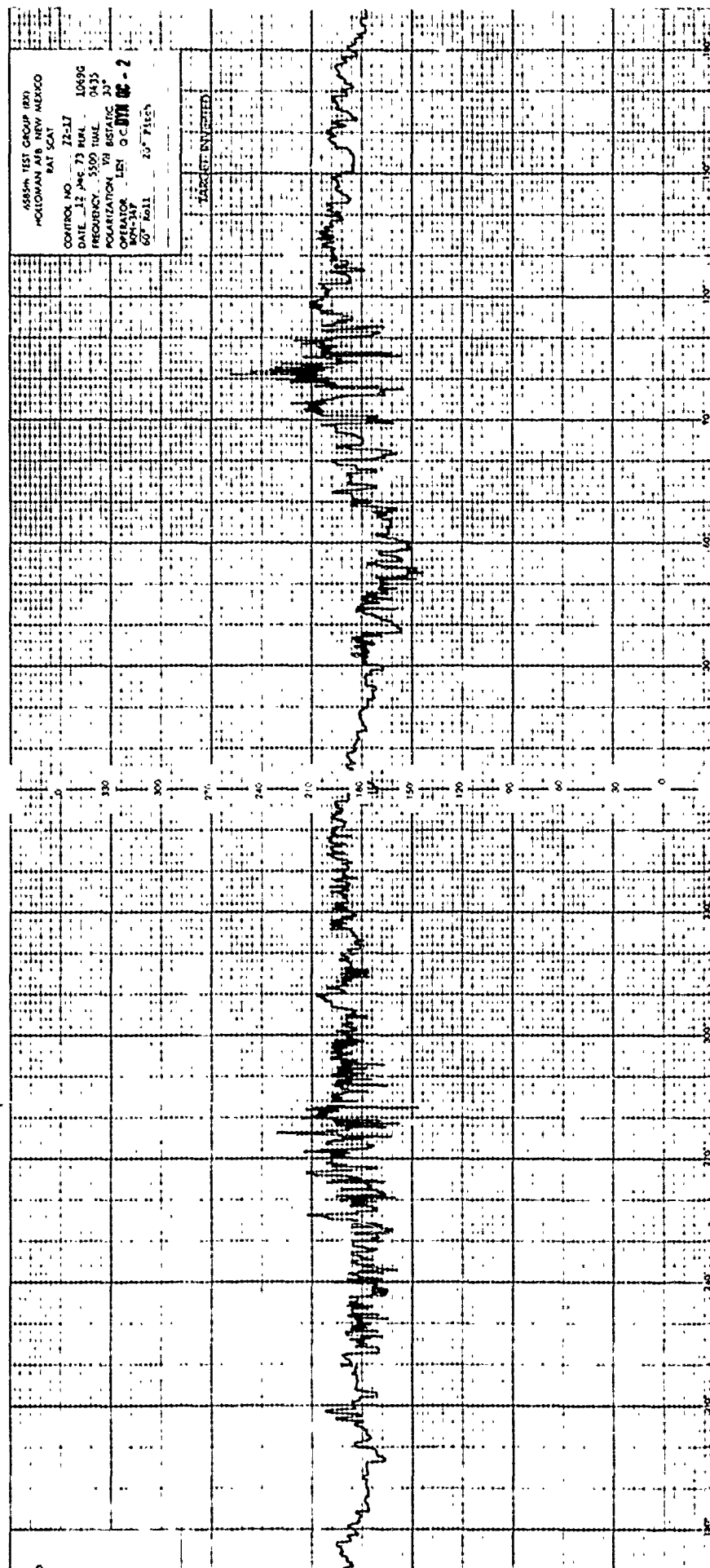
TAPET HYPHET

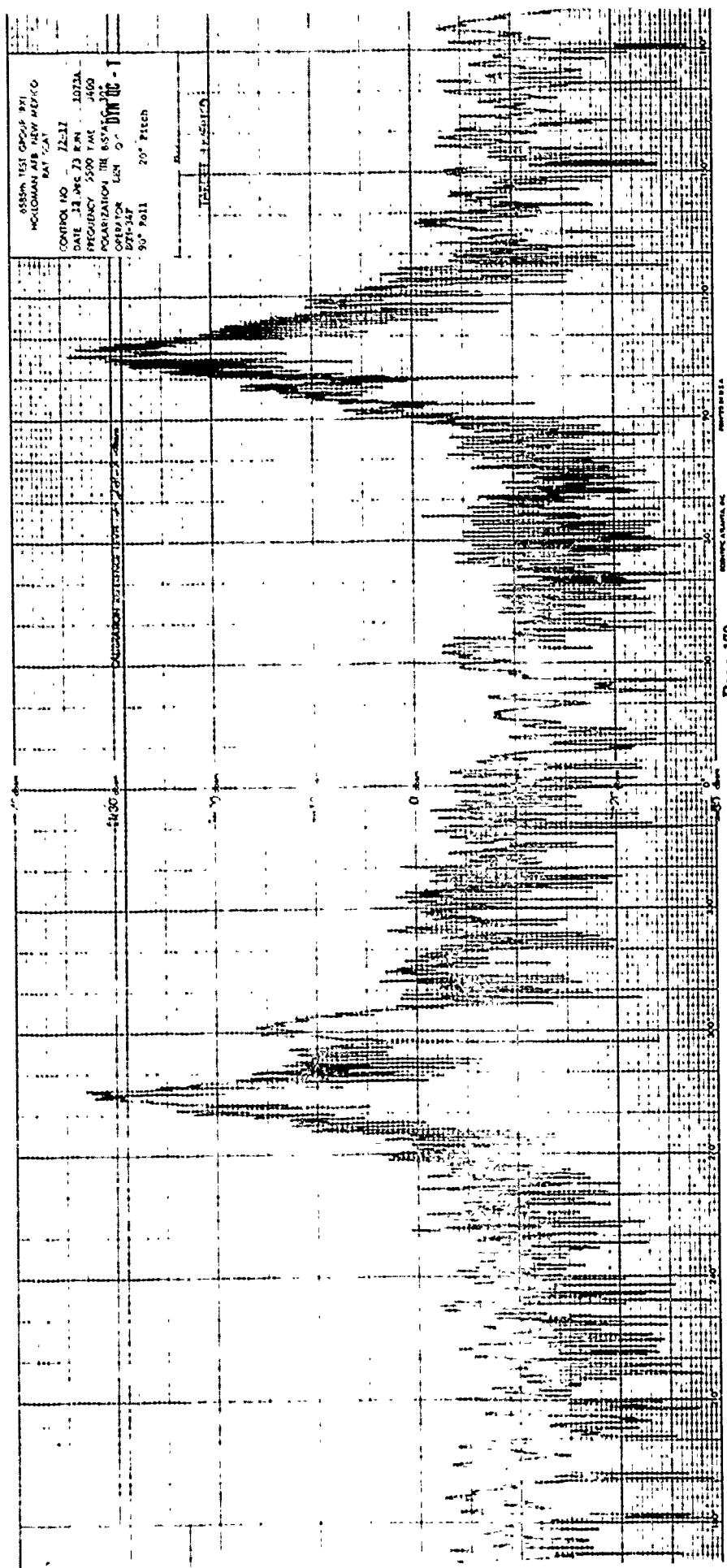
ALUMINUM REFLECTOR (RUE 2.7.7)

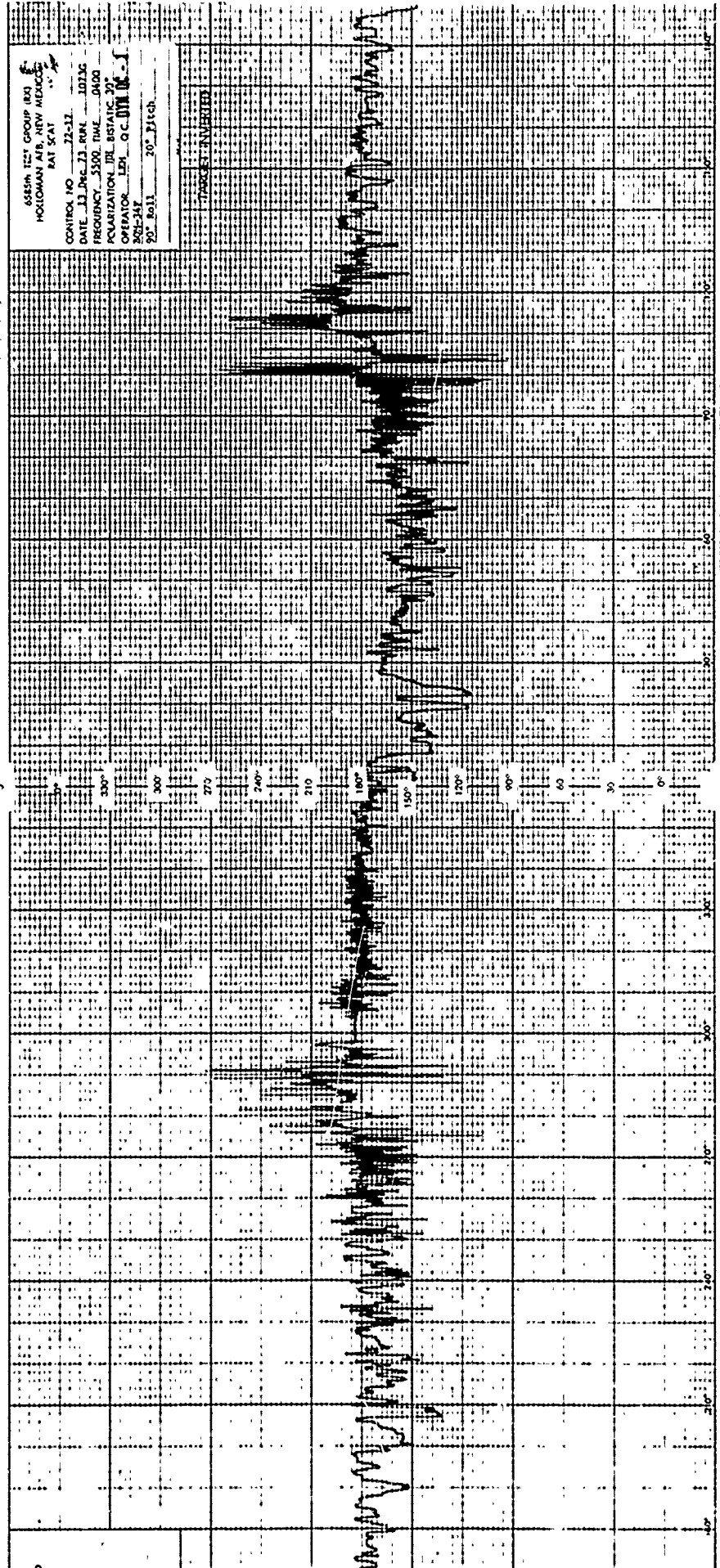
ASB544 TEST GROUP (RX)
MOLLOMAN AFB NEW MEXICO
RAT SCAT

CONTROL NO. 72-17
DATE 12 JAN 73 PUR. 1069G
FREQUENCY 5500 TUNE 0435
POLARIZATION VIB BSTATIC 30°
OPERATOR LEM C C DYN 08-2
NON-147 60" Roll 25" Pitch

1925

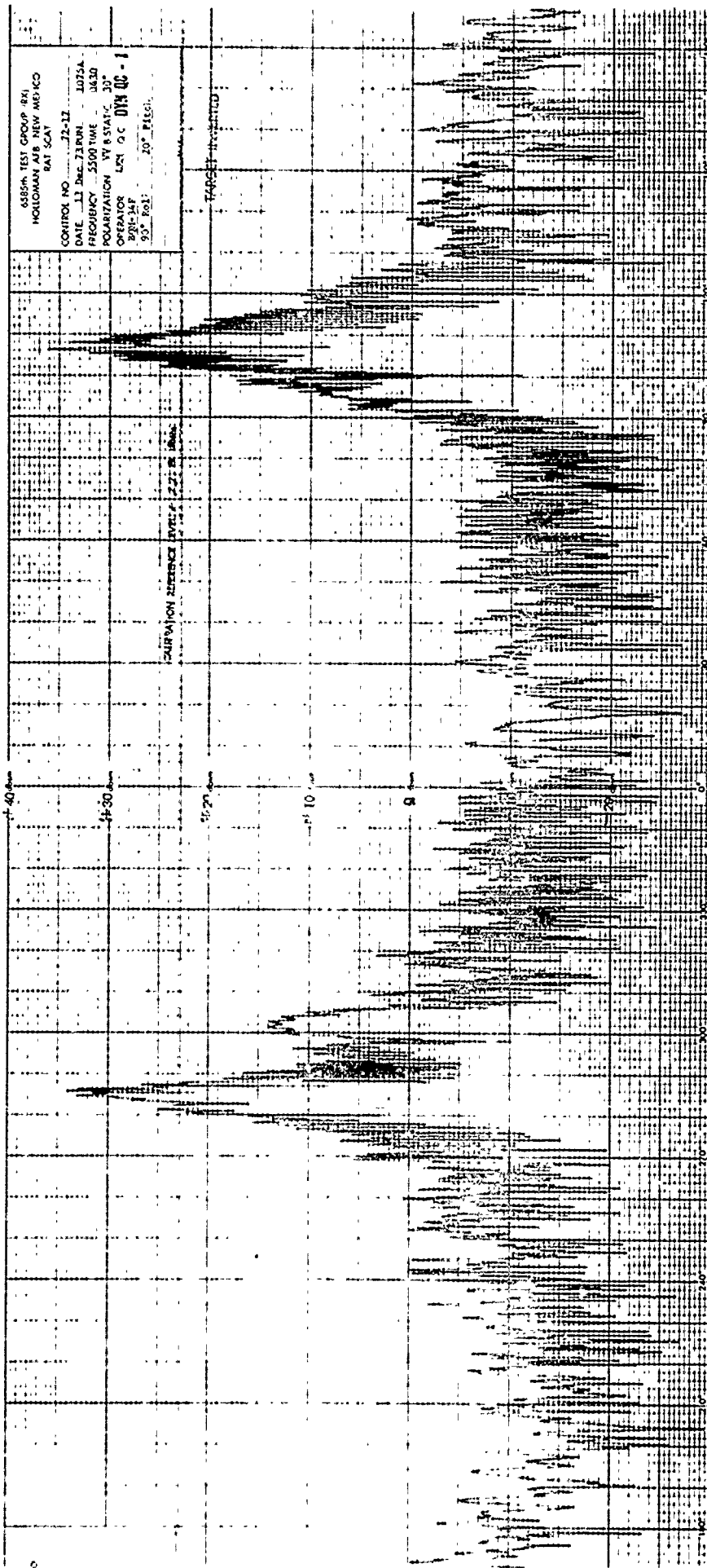


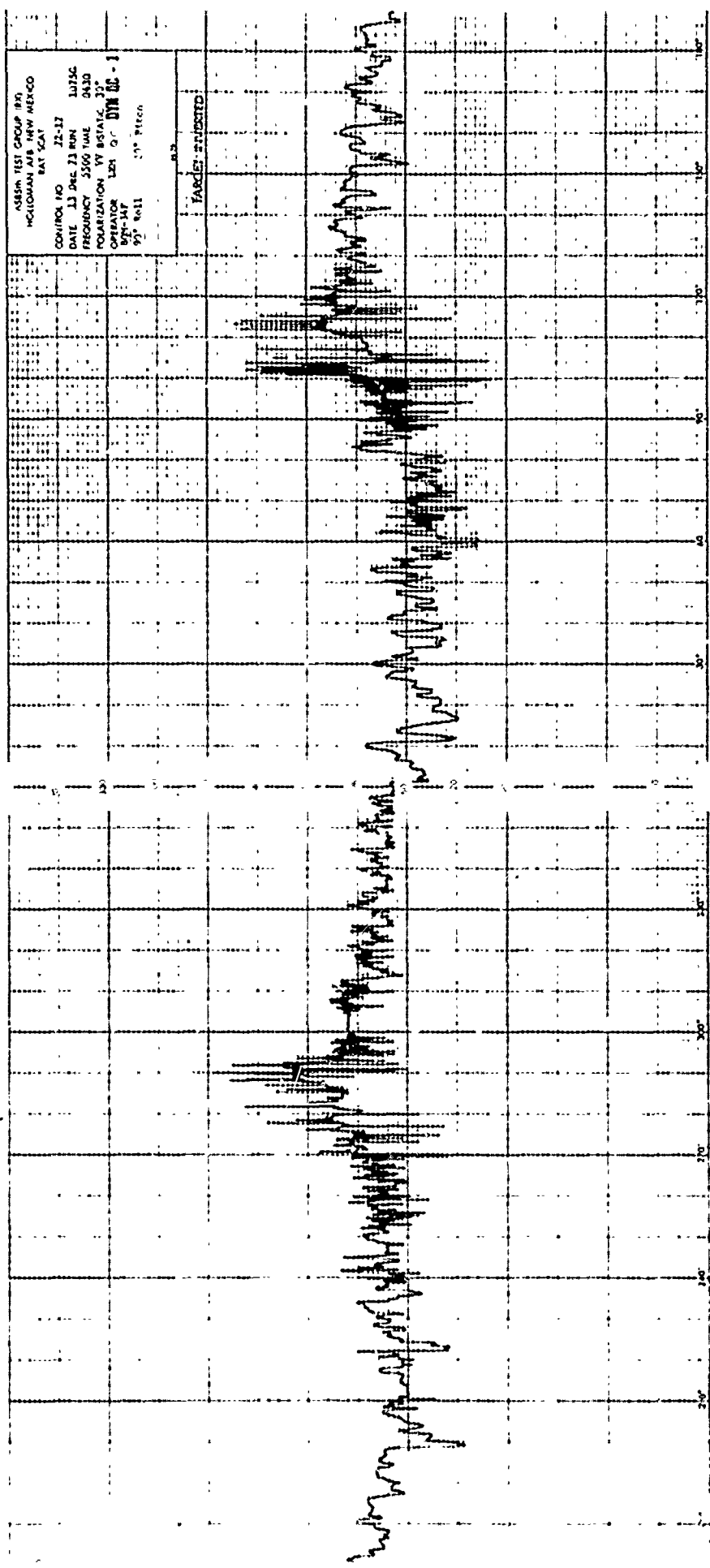




6585M 121 GROUP (R)
HOLLOMAN AFB, NEW MEXICO
BAT SCAT
CONTROL NO 12-12
DATE 11 DEC 73 RUN 1012G
FREQUENCY 5500 TIME 0400
POLARIZATION IRL BEARING 90°
OPERATOR LBN G.C. DVM DC-1
201-247
90° Ball 20° 2140.

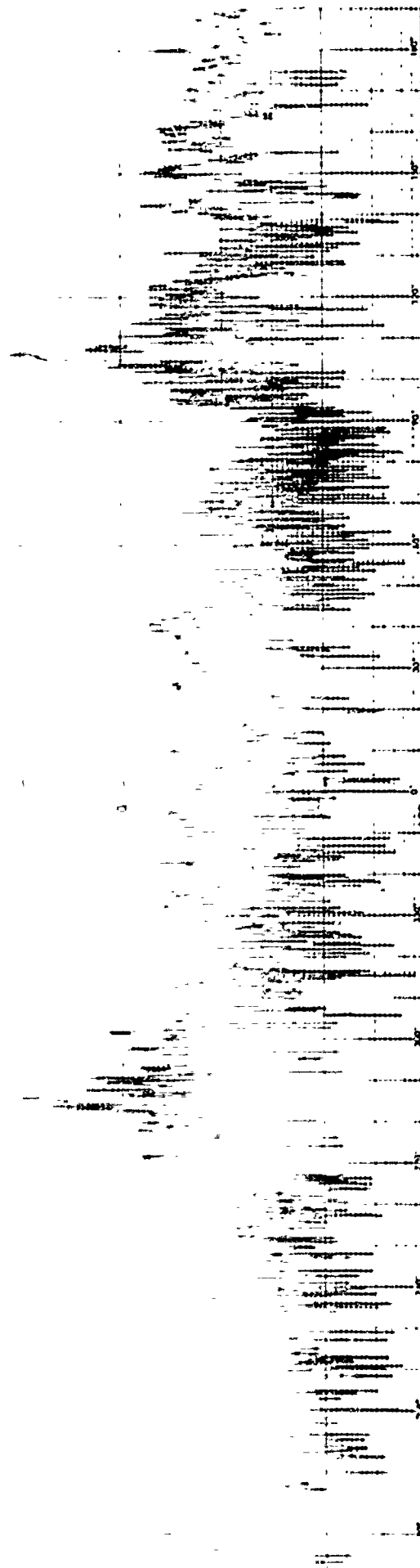
INVERTED

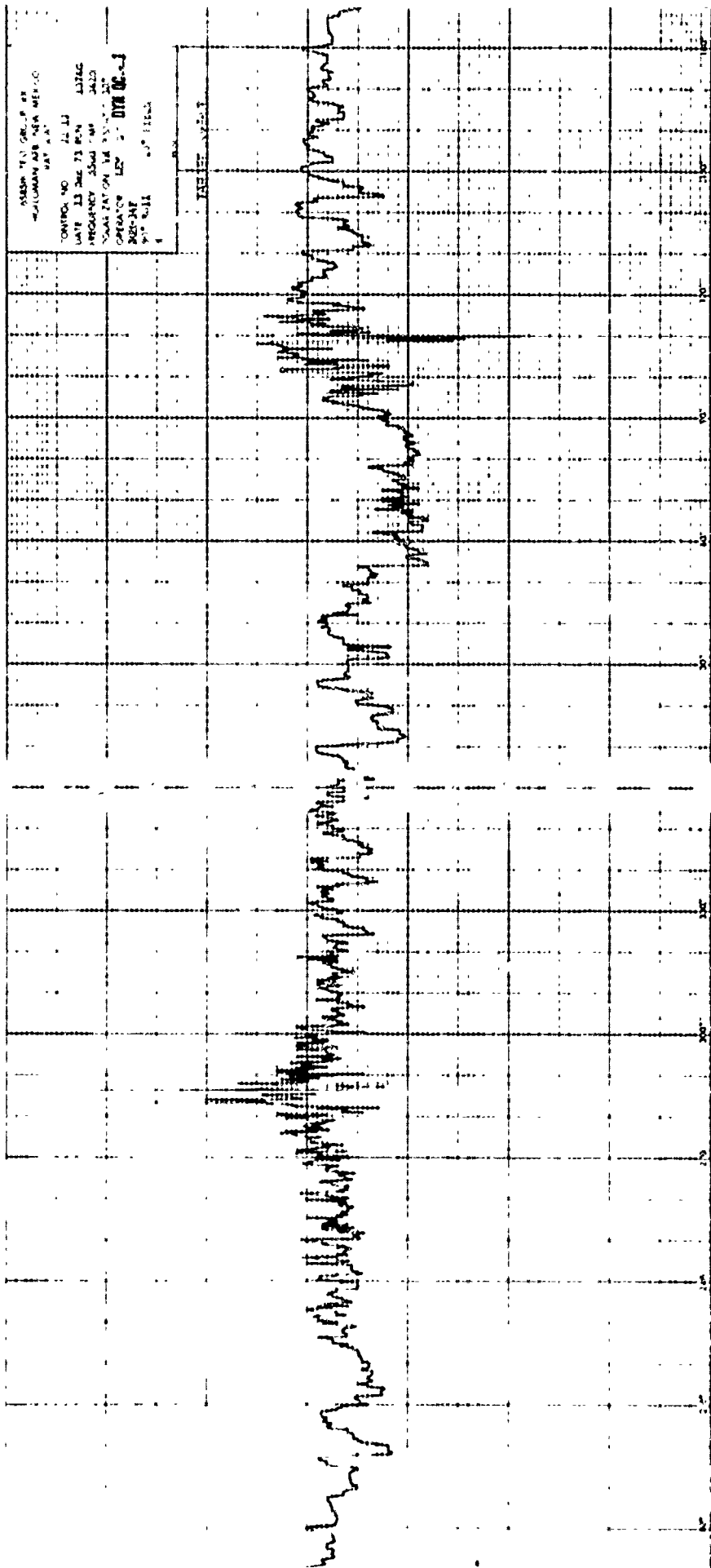




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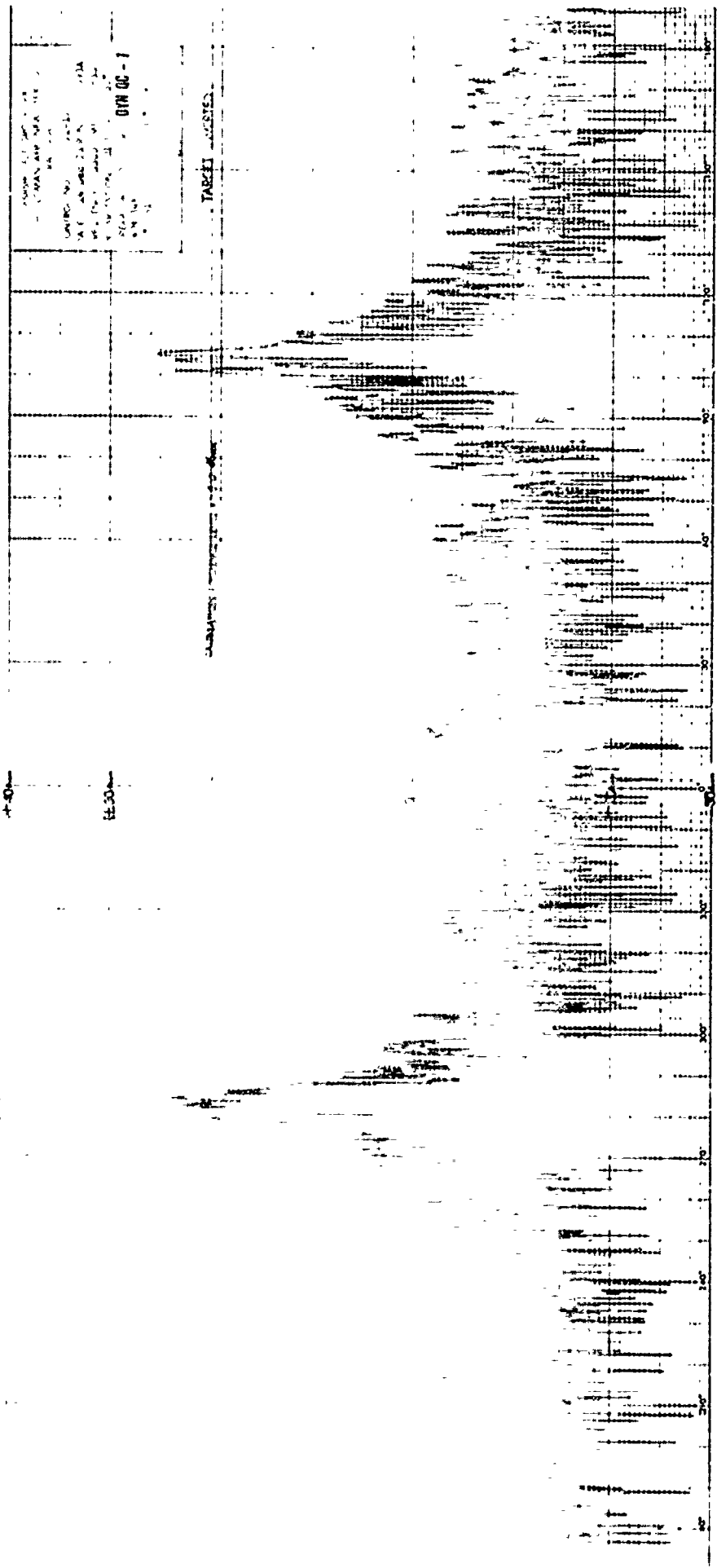
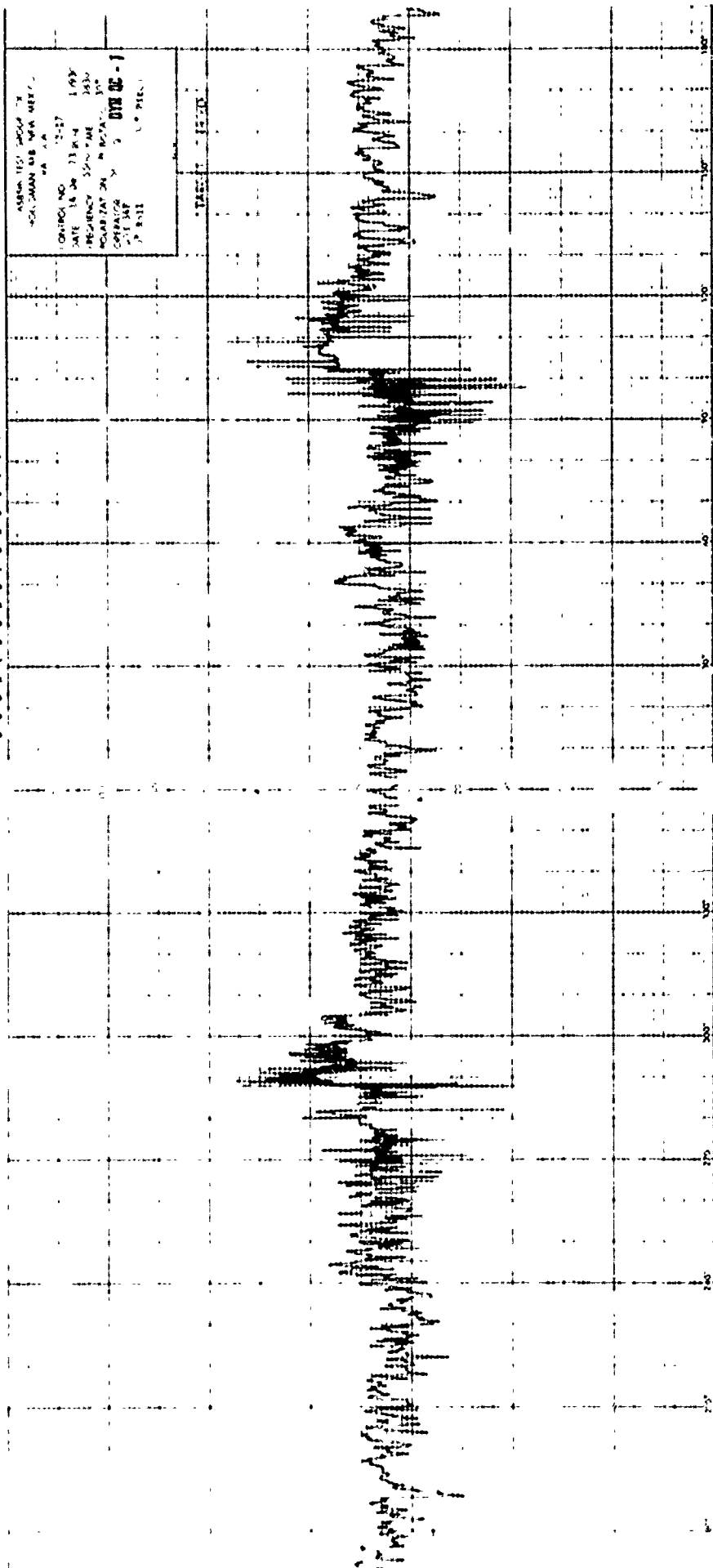
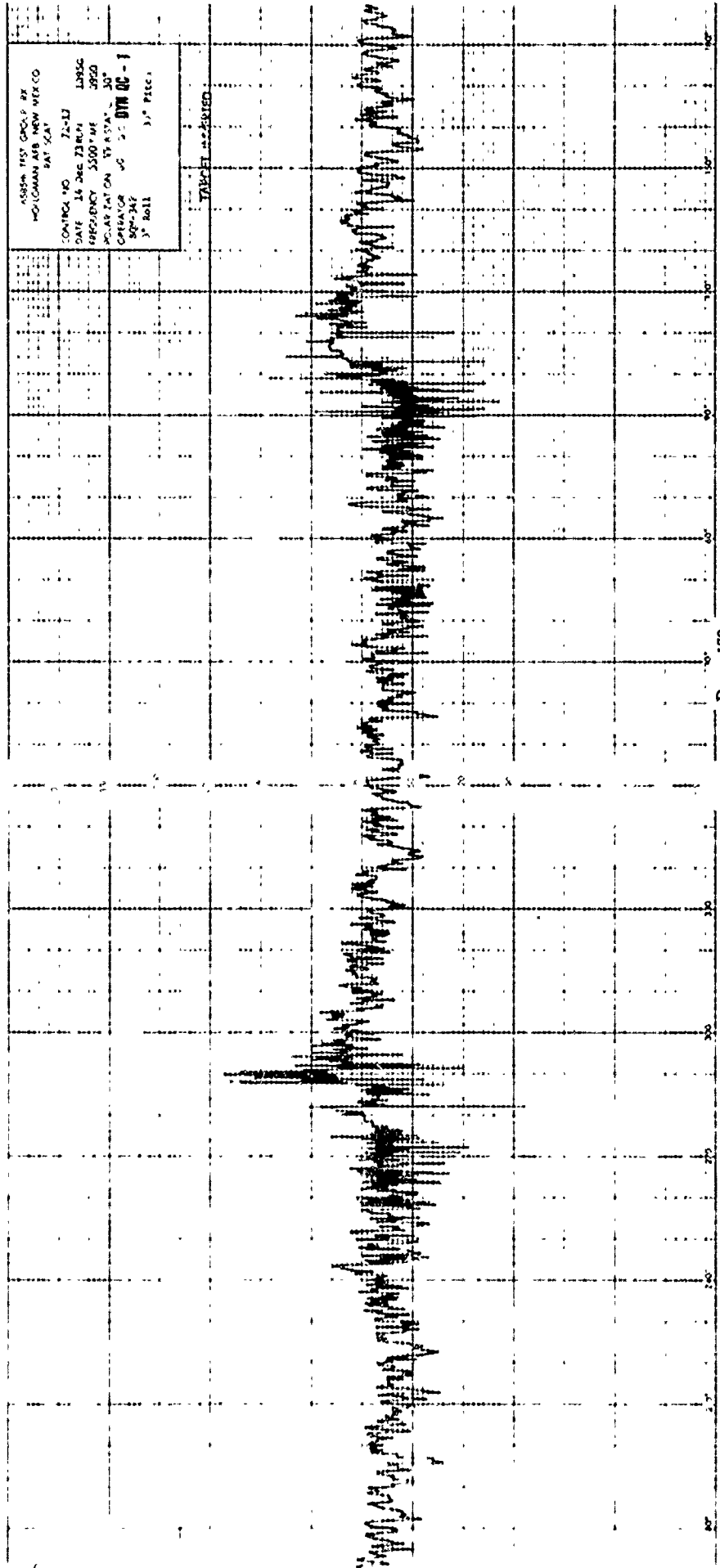
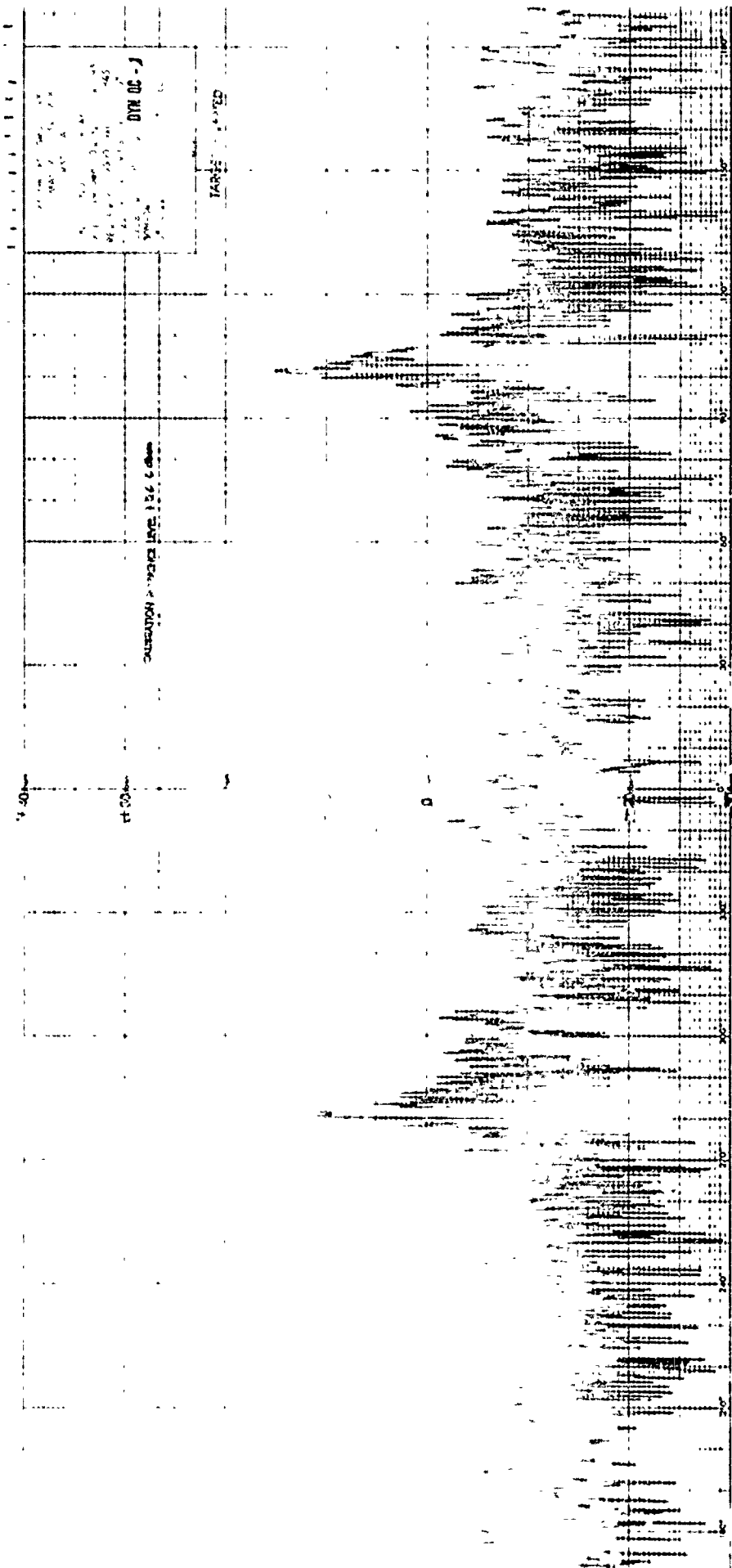


FIGURE 11
UNIFORMITY OF
DYN 00-1

TARGET CENTER

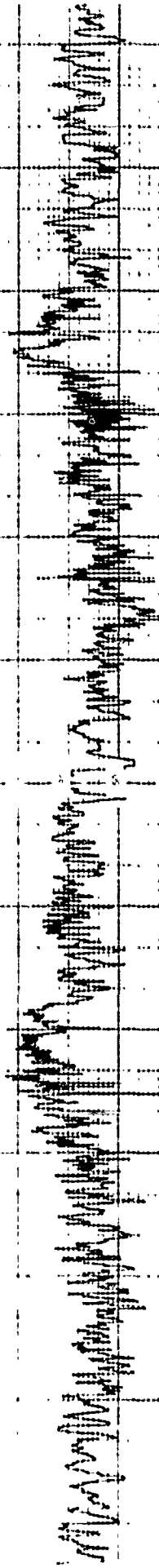






1500m TEST GROUP BY
 MCCLONAN AIR NEW MEXICO
 24 JUL 74
 CONTROL NO 72-17
 DATE 14 JUNE 73 RUN 1054G
 FREQUENCY 5500 MHz 0245
 PC AP ZAI ON VE STATION
 ORBITOR SC 01 DYN 00-1
 574-247
 5° 46.21 15° 14.00

TARGET INVERTED



CONFIDENTIAL 72-17
DATE 13 DEC 73 BY 1092A
REASONING 2500-001 2230
DO NOT ATTEMPT TO RE-CLASSIFY
OPERATOR 2500-001 2230
2500-001 2230

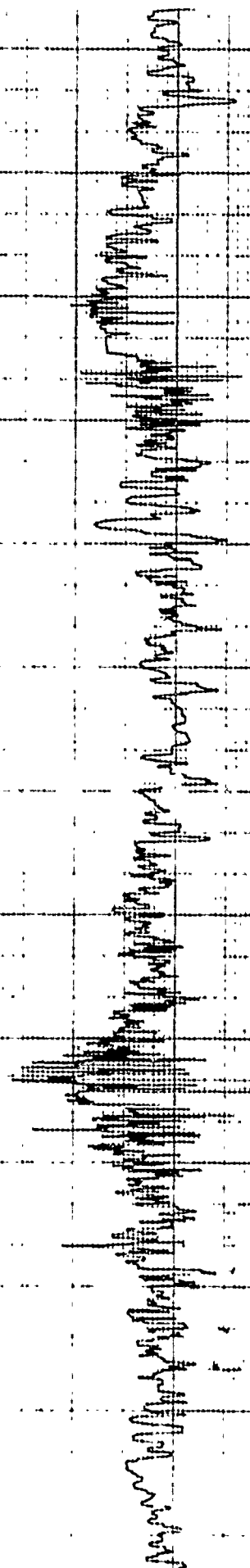
Page 1308A

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AGSM TEST GROUP #1
NOTIONMAN AIR NEW MEXICO
SAT 201

CONTROL NO 22-17 1091G
DATE 13 Dec 73 RPA 2230
FREQUENCY 5500 TAE 2230
ACQUISITION 81 8 51AF - 30°
OPERATOR GS 2C DYN QC-1
BOM-3AF 30° Roll 30° Pitch

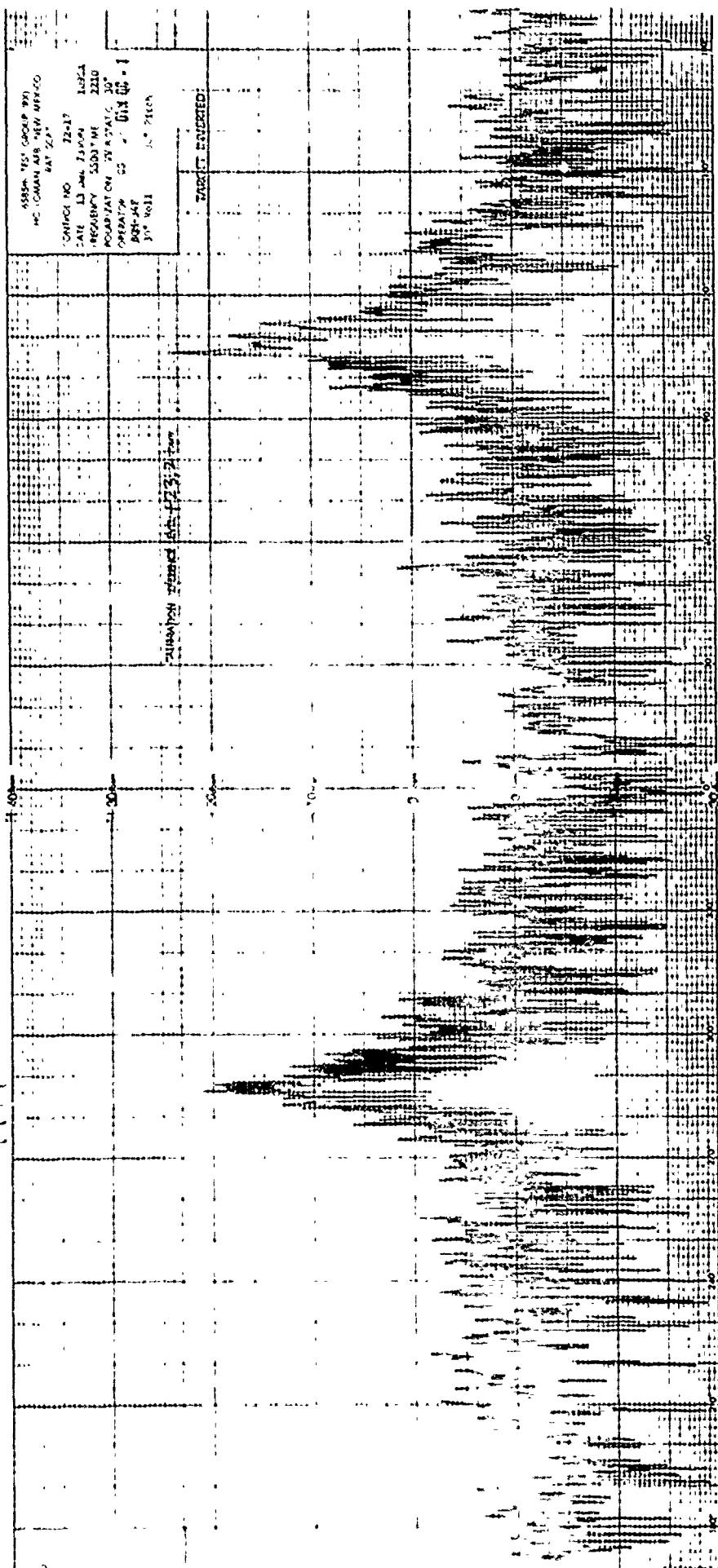
YARCEL INVERTED



UNITED NO. 72-17
DATE 13 JUL 1964 1824
REQUENCY 5500 MHz 2210
COORDINATION 17 W 21 N 30°
OPERATION 05 01X 00 -
RQ-46
30° 40' N

REPORT OF THE

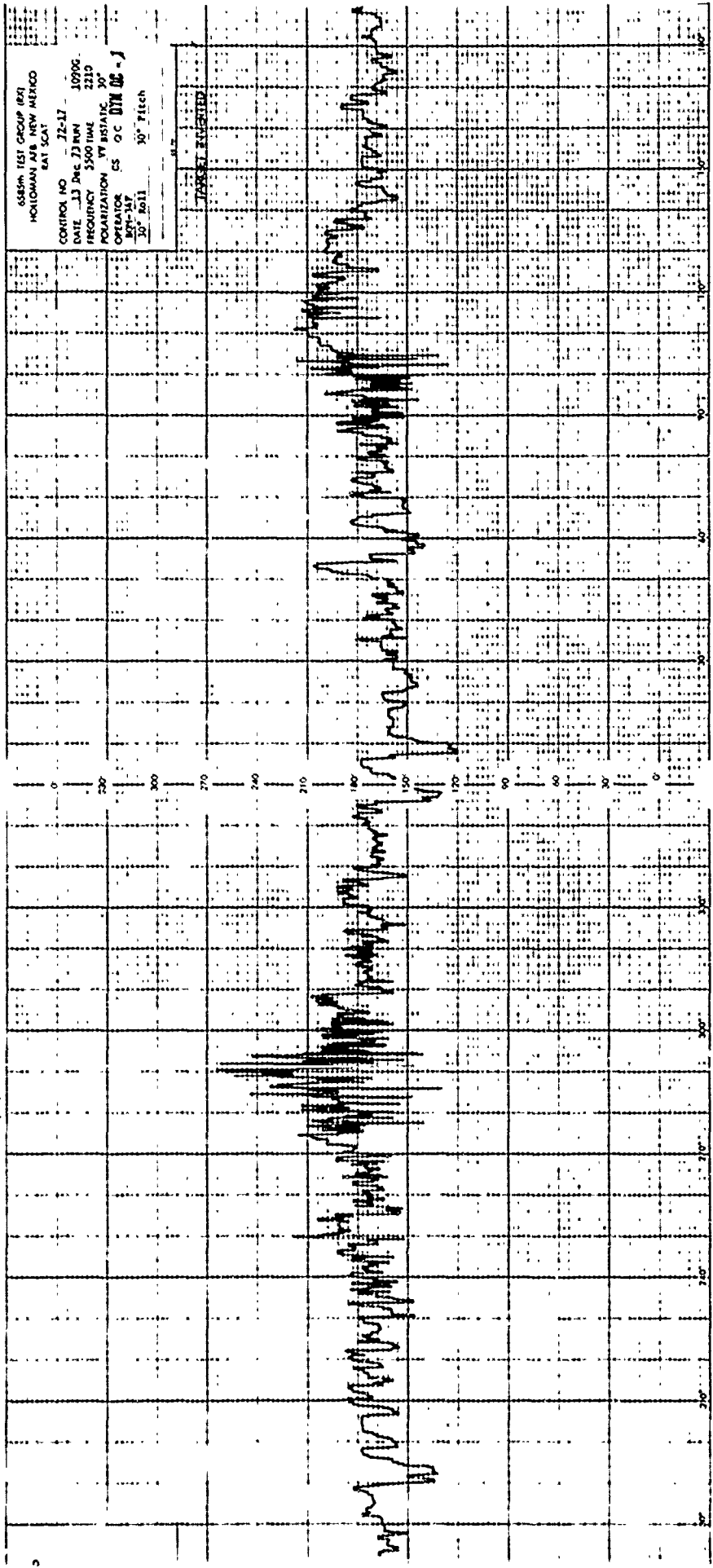
with 12-24% porosity. And we're

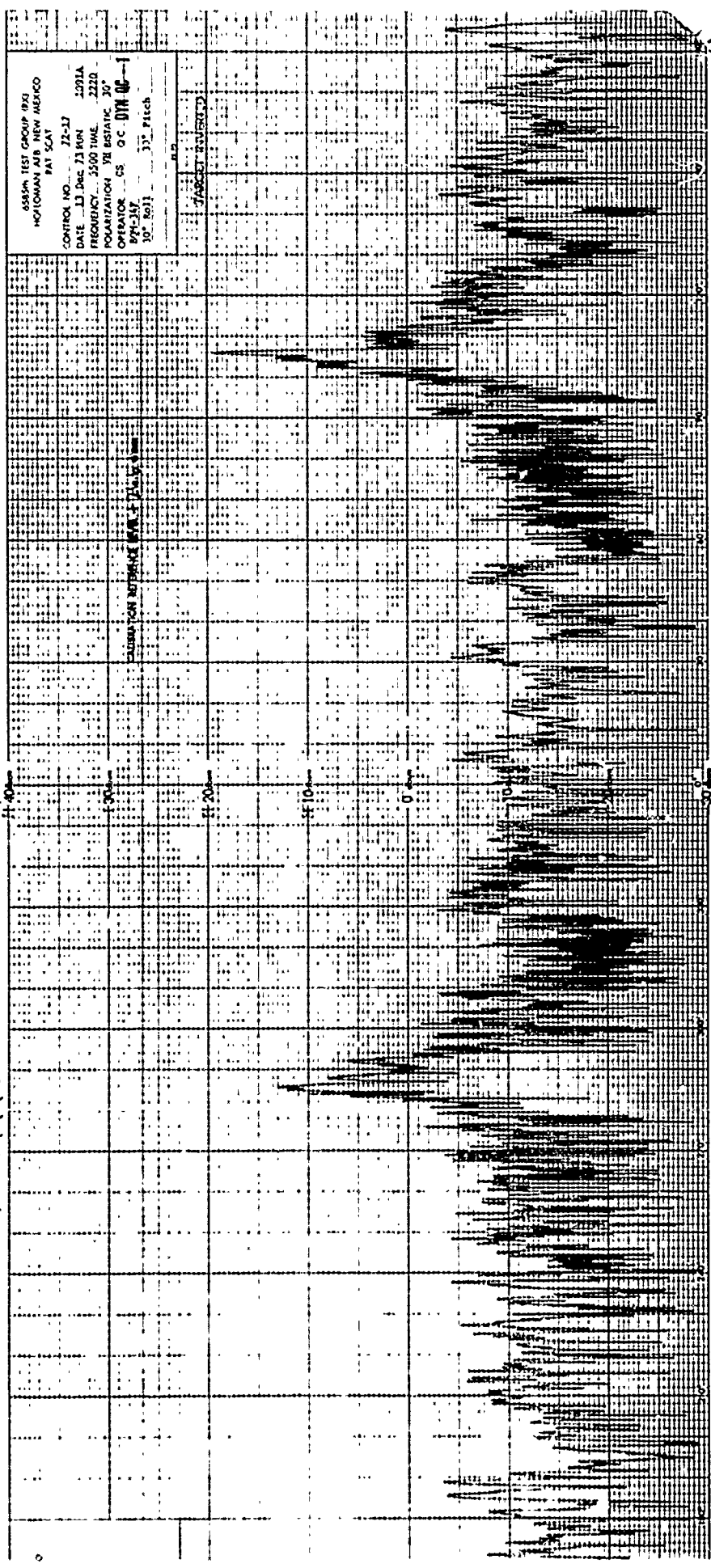


658th TEST GROUP (B2)
HOLLAMAN AFB NEW MEXICO
EAT SCAT

CONTROL NO - 72-17
DATE 13 Dec 73 RUN 10906
FREQUENCY 5500 MHz 2210
POLARIZATION W/ BISTATIC 30°
OPERATOR CS G/C DYN DC - J
30° 2011 30° 712ch

TARGET RUMBLING

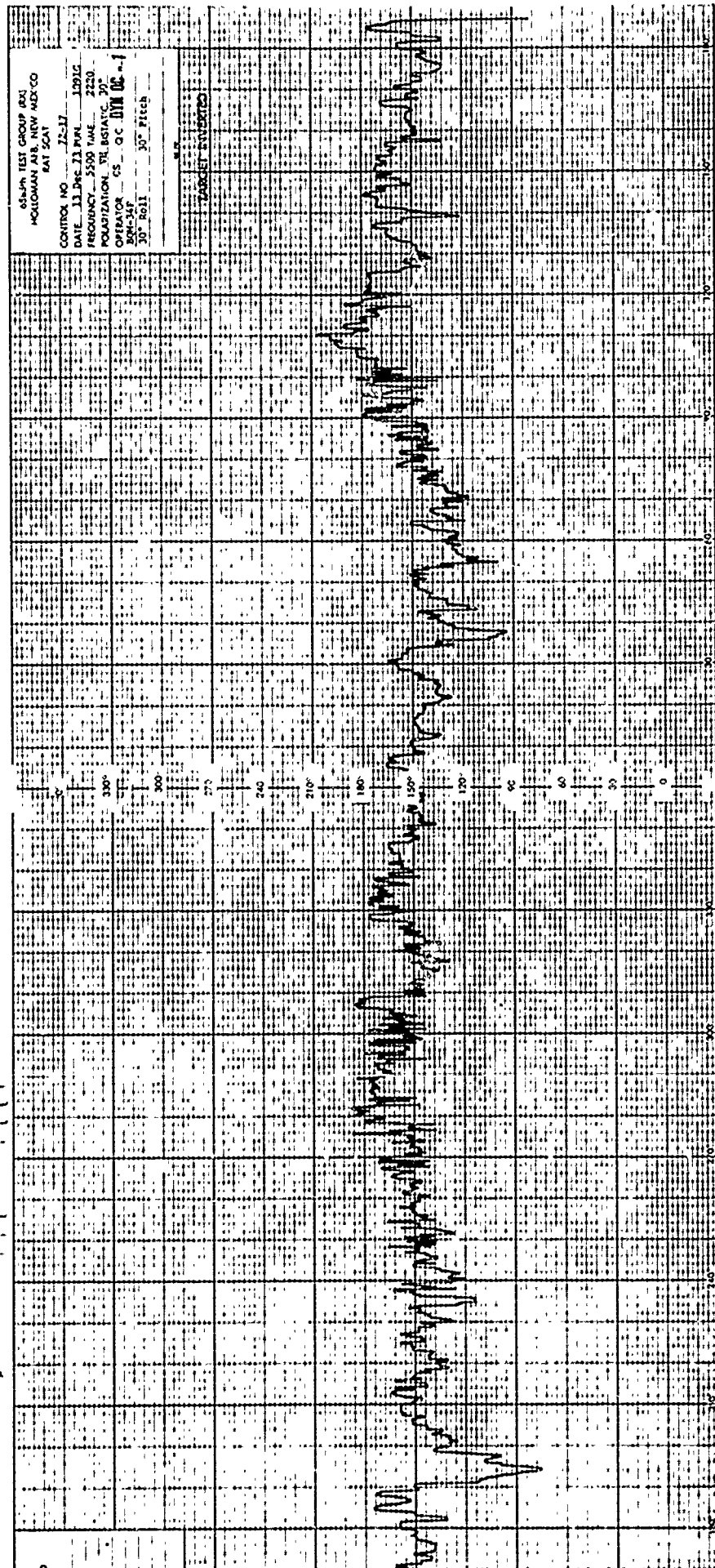


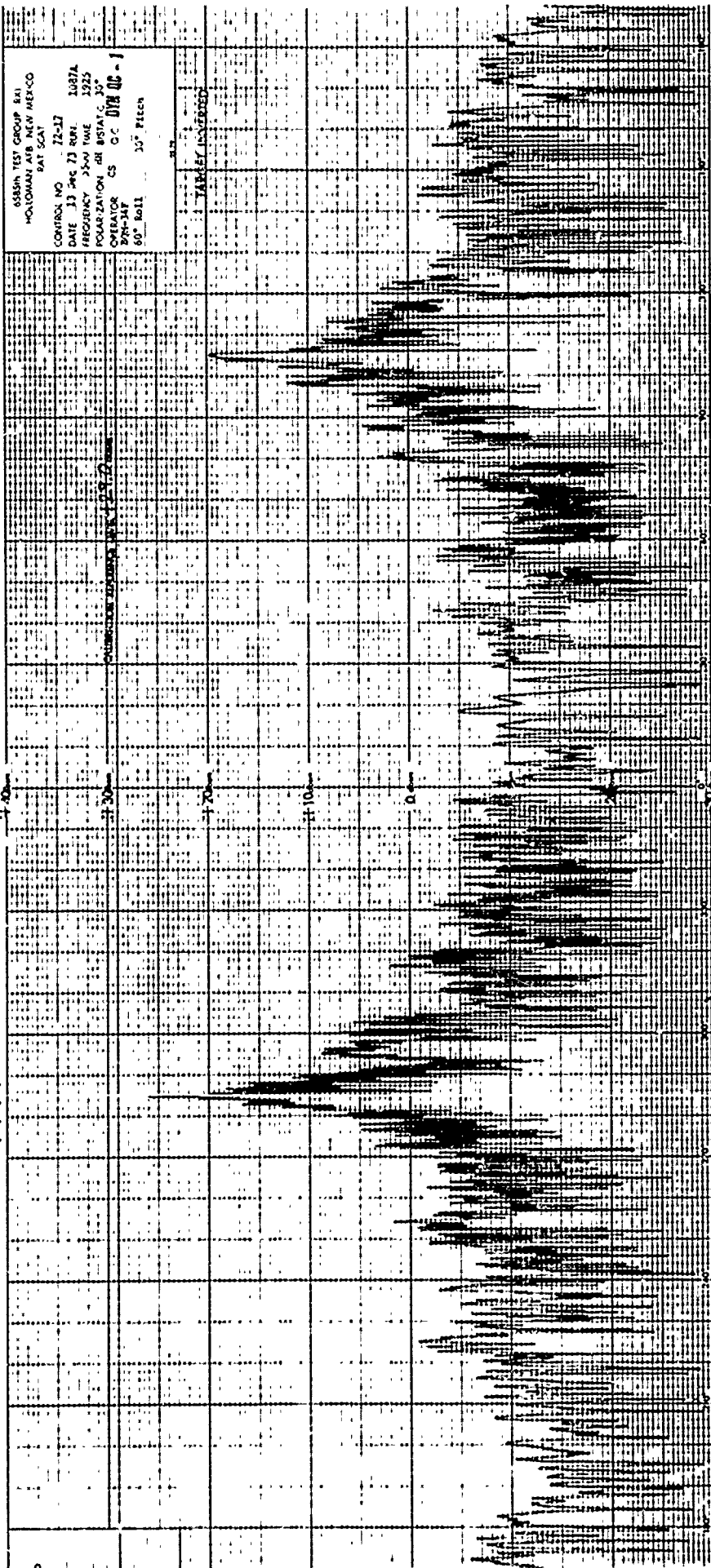


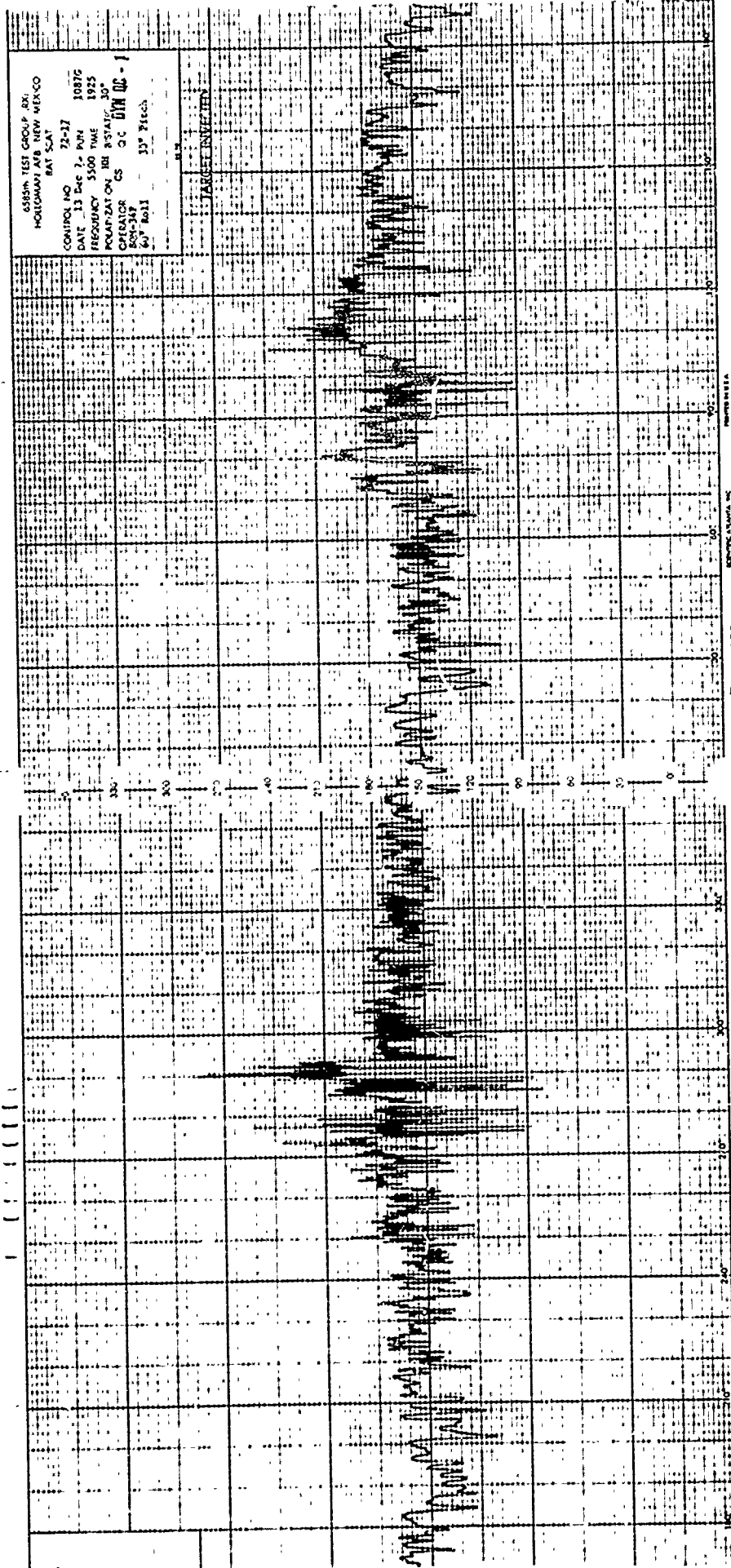
6585M TEST GROUP 9XJ
HOTIOMAN AIR NEW MEXICO
PAT SCAT
CONTROL NO. 22-17
DATE 13 Dec 71 RUN 1201A
FREQUENCY 2500 TIME 2220
POLARIZATION VE ESTATIC 30°
OPERATOR CS O.C. DYN OC-1
BY: 137
10° Roll 33° Pitch

TARGET RETURNED

ELIMINATION REFERENCE MARK 1



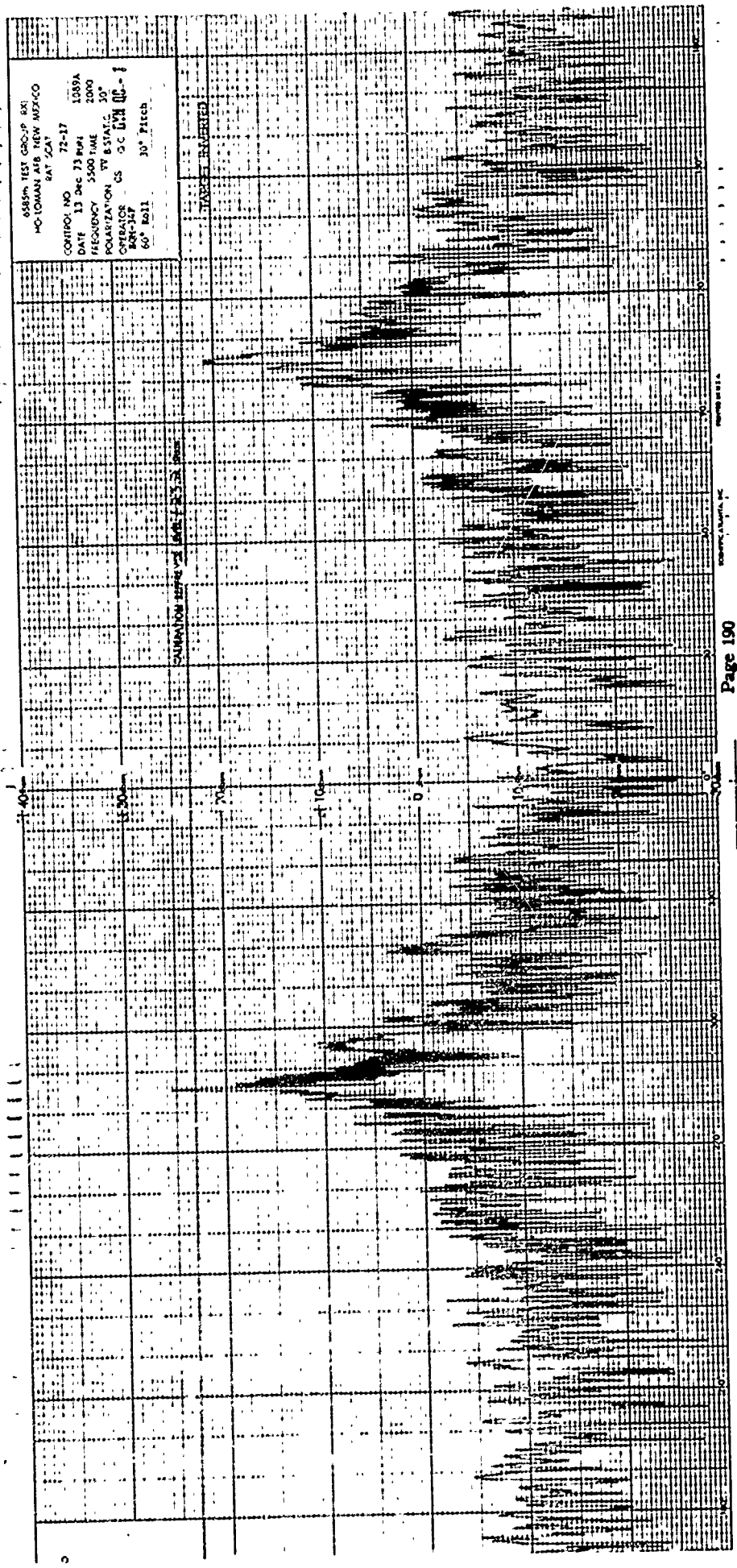




ASSON TEST GROUP BX
HOLLAND AFB NEW MEXICO
BAT SCAT

CONTROL NO 22-27 10876
DATE 13 Dec 74 DPH 1975
FREQUENCY 5500 MHz
POLARIZATION RH ESTATE 30°
OPERATOR CS CC
SC-347
20° Roll 10° Pitch

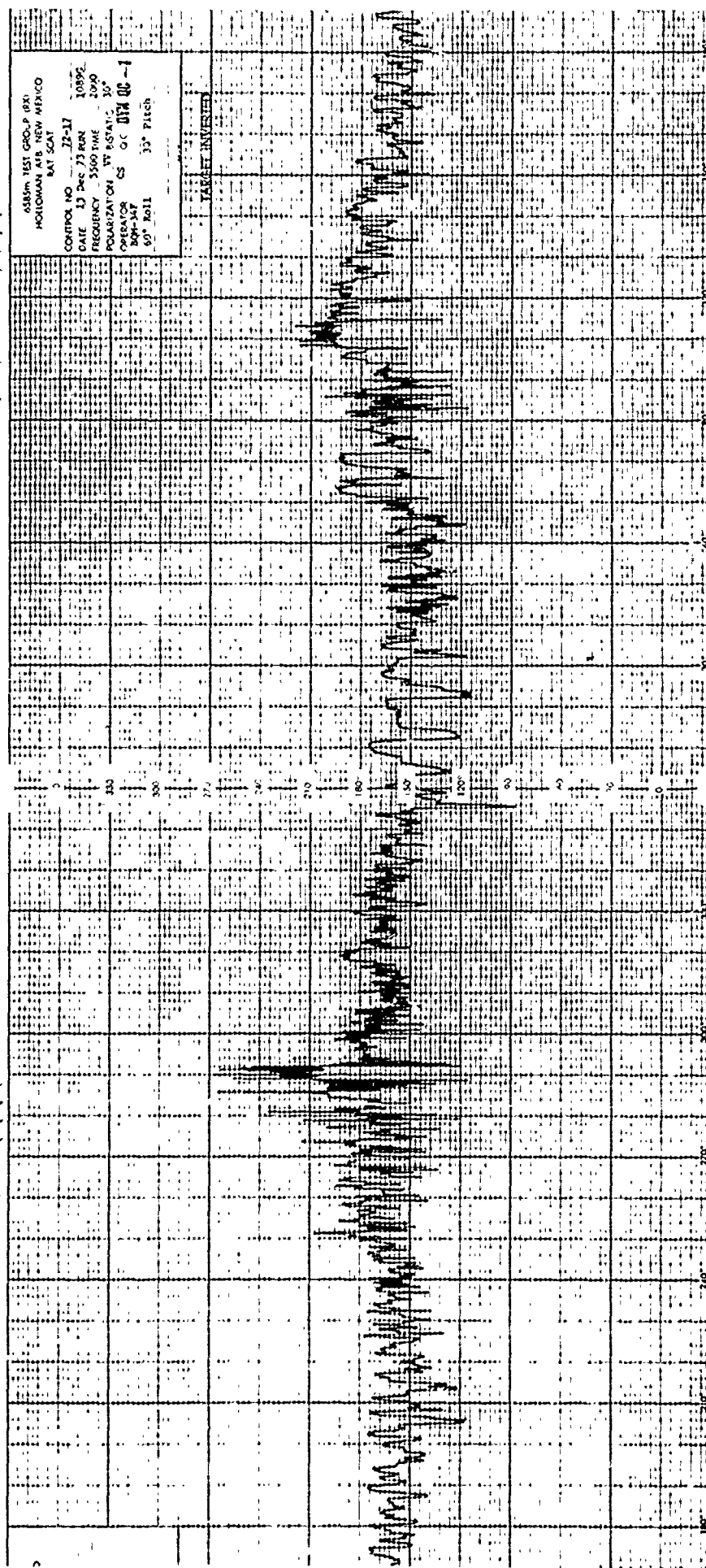
TARGET IDENTIFICATION



6855m TEST GROUP BK
MO-10MAN AIR NEW MEXICO
BAT 204
CONTROL NO 72-27 1089A
DATE 13 Dec 73 RMI
FREQUENCY 5500 TME 2000
POLARIZATION TV & STATC 30°
QUANTOR CS 0.0 0.0 0.0
60° Roll 30° Pitch

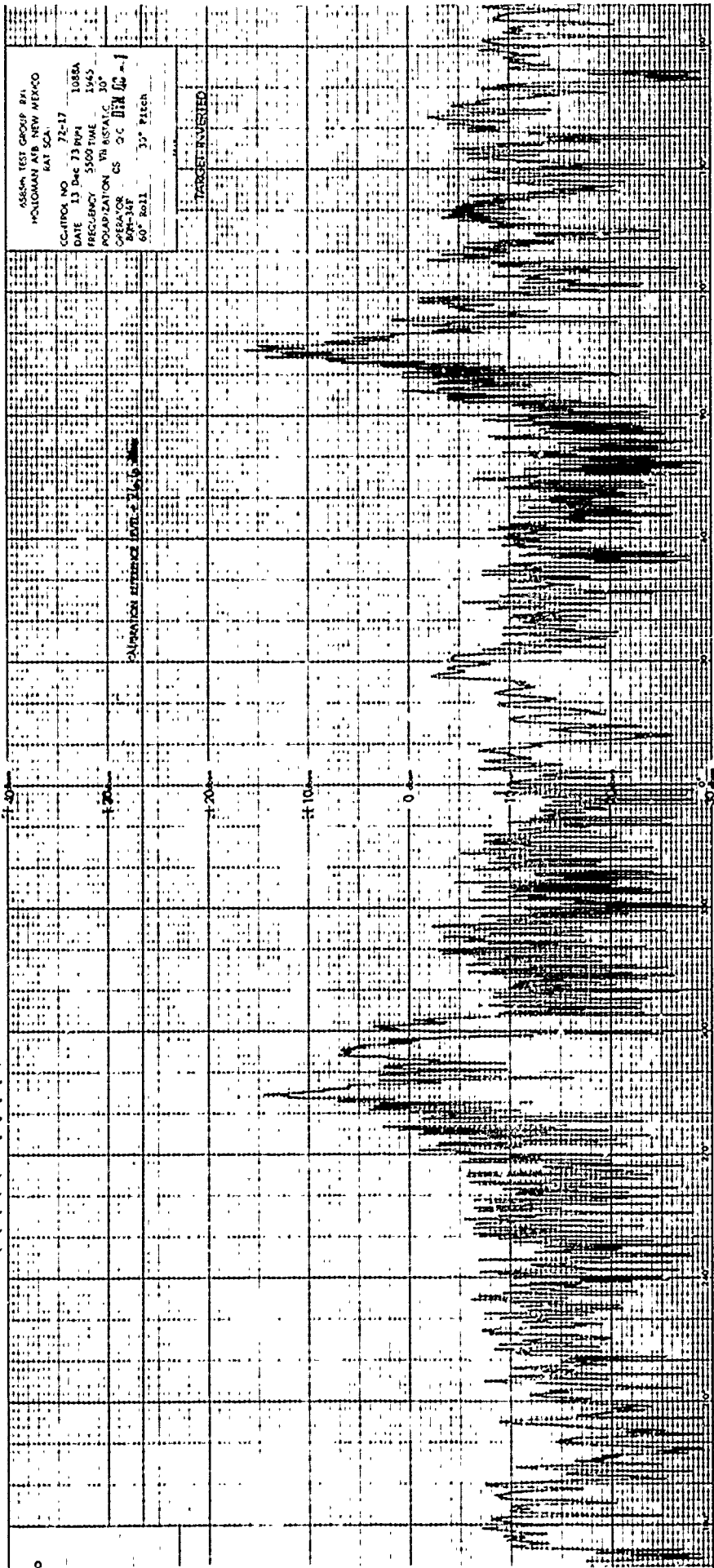
QUANTON 2000 0.0 0.0 0.0
DATE 13 Dec 73 RMI

TARGET NUMBER



6580m TEST GROUP (RT)
HOLLAND AIR NEW MEXICO
BAT SGT
CONTROL NO 22-17 10892
DATE 13 Dec 73 RUN 2990
FREQUENCY 5500 MHz 30°
POLARIZATION W PASTIC 30°
OPERATOR CS GC 0174 00-1
804-347
60° Roll 33° Pitch

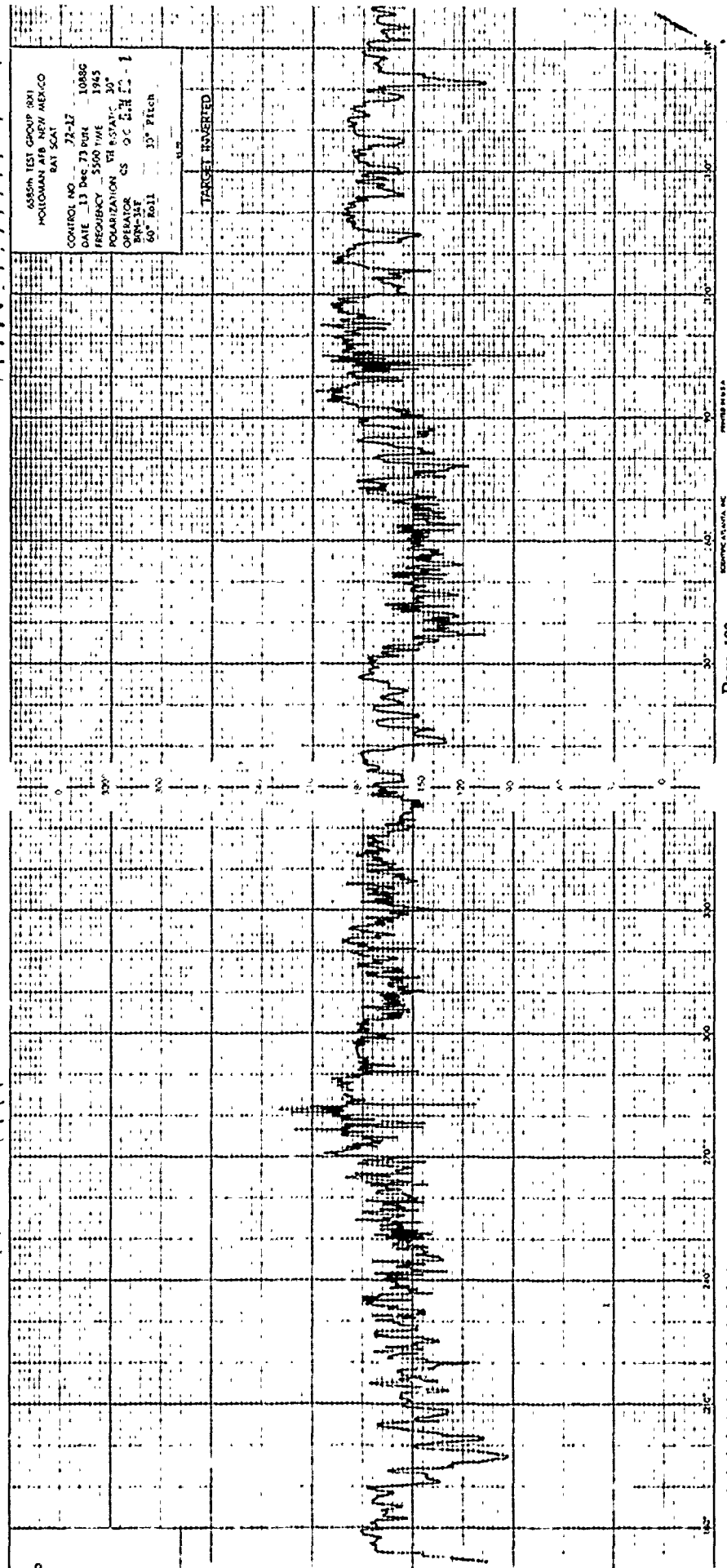
TARGET IN VIEW



ASSEM TEST GROUP B1
MOLLOMAN ATB NEW MEXICO
EAT 50A

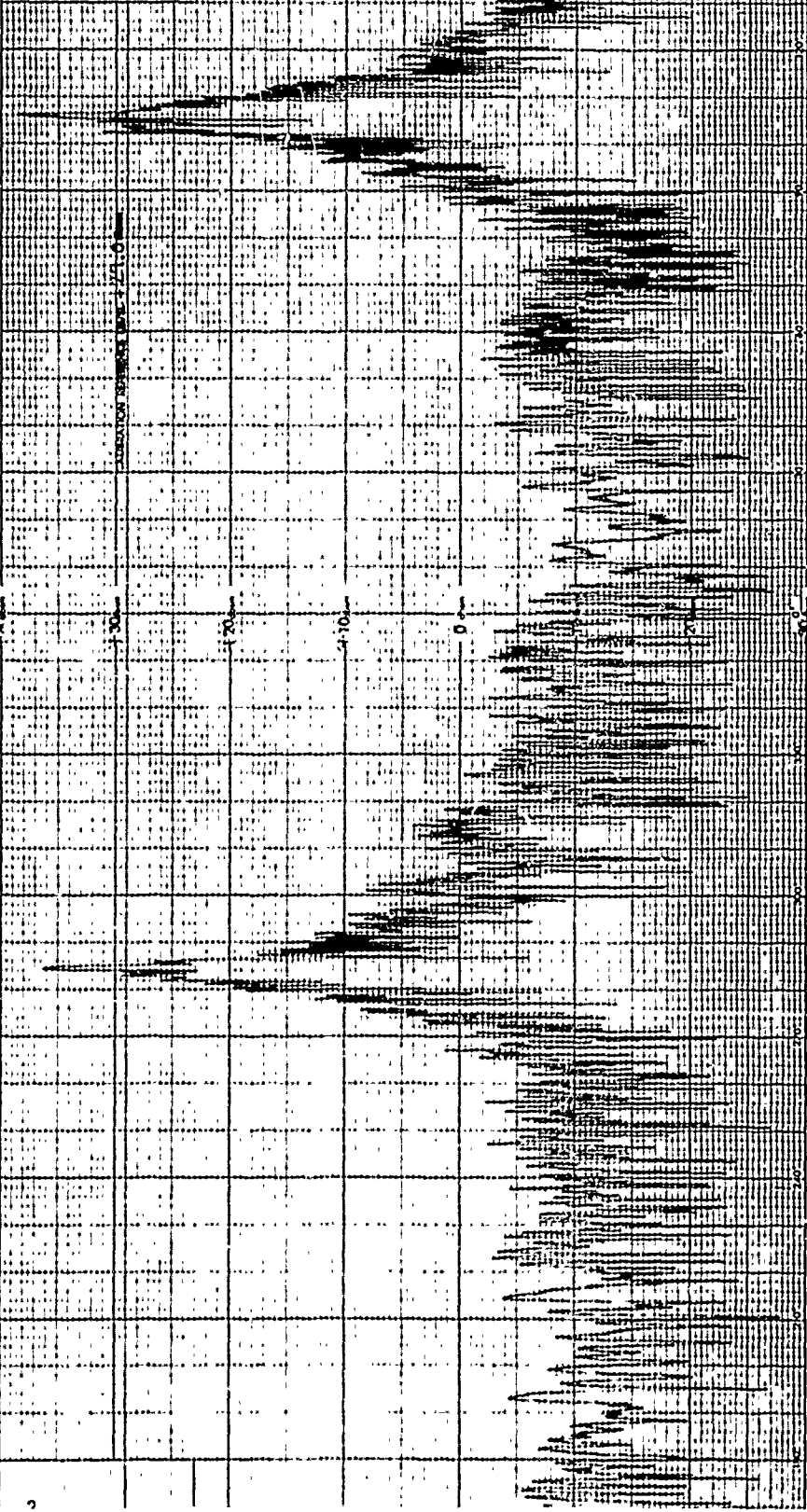
CC-100A NO 72-17 1088A
DATE 13 Dec 73 RPI 1945
FREQUENCY 5500 MHz
POLARIZATION VIB 65° V/C 10°
CARRIER CS 0° C 10°
CARRIER 60° Ball 30° Pitch

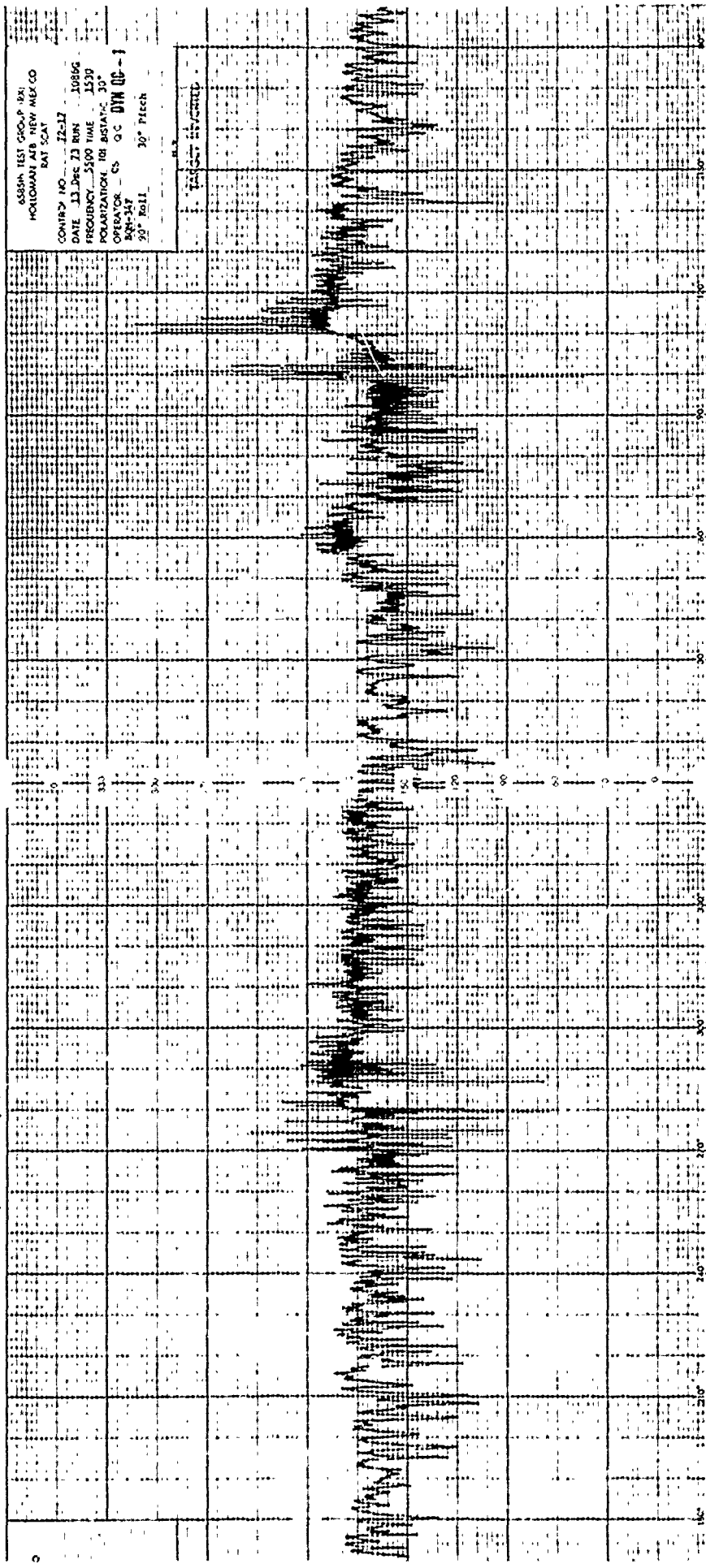
TARGET NUMBER



6550th TEST GROUP (BX)
 HONOLULU AIR NEW MEXICO
 PAT SCAT
 CONTROL NO. 22-17
 DATE 11 DEC 71 RUN 1086A
 FREQUENCY 5500 TIME 1230
 POLARIZATION RH BISTATIC 30
 OPERATOR CS QC DTN 00-1
 87N-347
 90° Roll 30° Pitch

TARGET ENRIEVED
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
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 2700
 2800
 2900
 3000
 3100
 3200
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 3400
 3500
 3600
 3700
 3800
 3900
 4000
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 4600
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 8400
 8500
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 9500
 9600
 9700
 9800
 9900
 10000





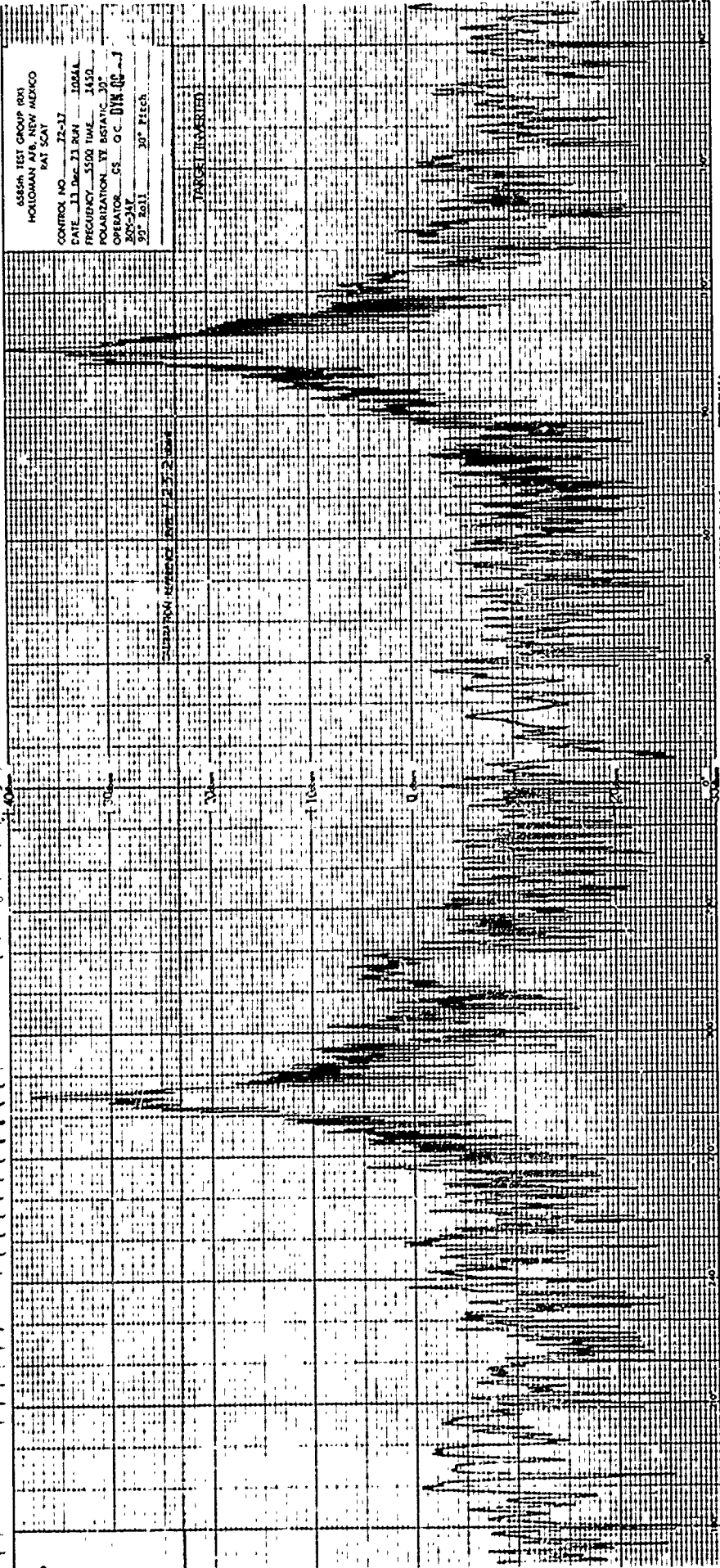
65834 TEST GROUP 121
 HOLLOWAY AIR NEW MEX CO
 BAT SCAT
 CONTRA NO. 22-12
 DATE 13 Dec 73 RUN 1086G
 FREQUENCY 5500 TIME 1530
 POLARIZATION 101 BISTATIC 30
 OPERATOR CS GC DTA QP - 1
 24-547
 30° Roll 30° Pitch

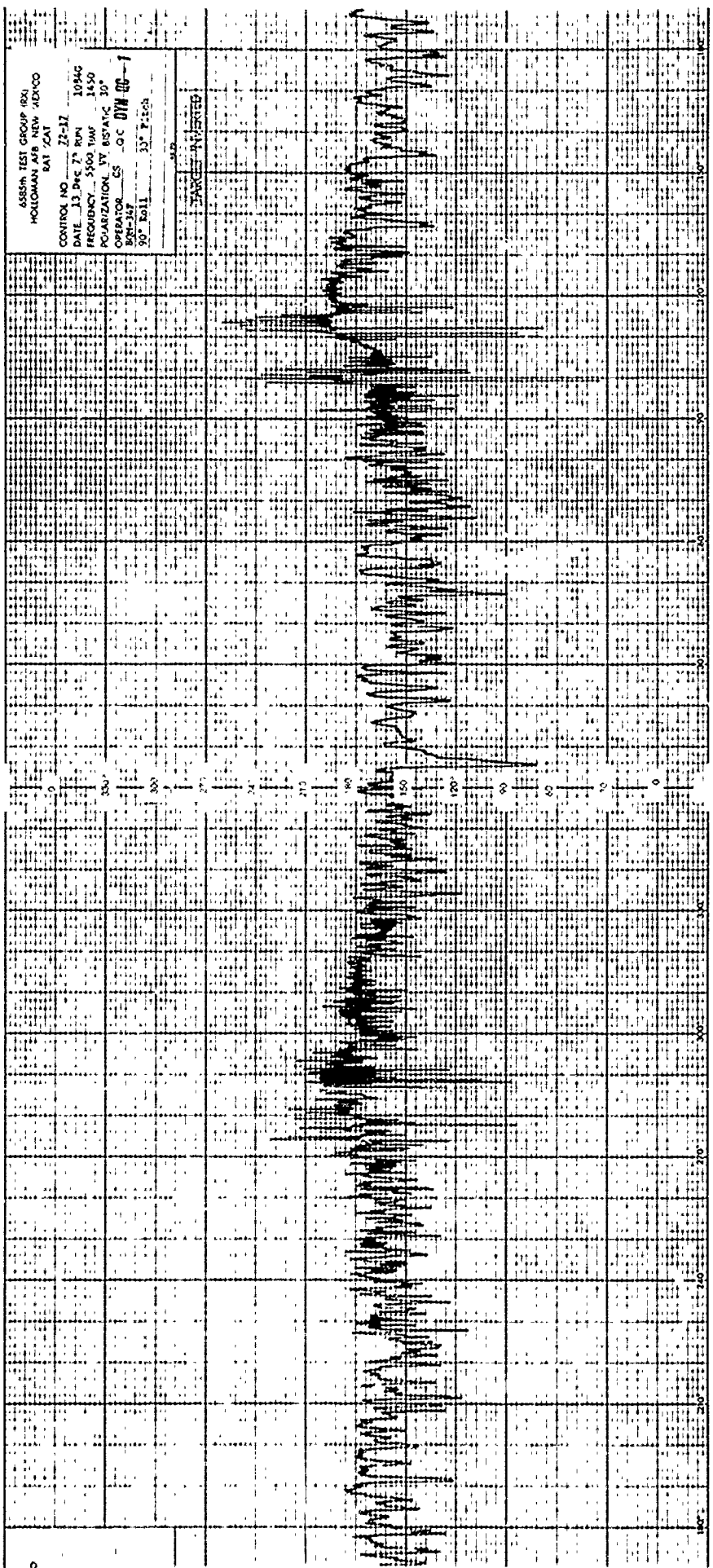
Target ID: 121

6585th TEST GROUP (R3)
 HOLLAMAN AFB, NEW MEXICO
 BAT SCAT
 CONTROL NO. 22-37
 DATE 11 Dec 71 RGN 105AL
 FREQUENCY 3500 MHz 1450
 POLARIZATION BY BEAT C 30
 OPERATOR GS OC 018 00-3
 200-3AT
 30° Pitch

TARGET TRACKED

Sub-PWM Reference Wave 7.2-2.0sec





SSSR TEST GROUP (BX)
HOLCOMAN AFB NEW ADSCO
SAT CAT

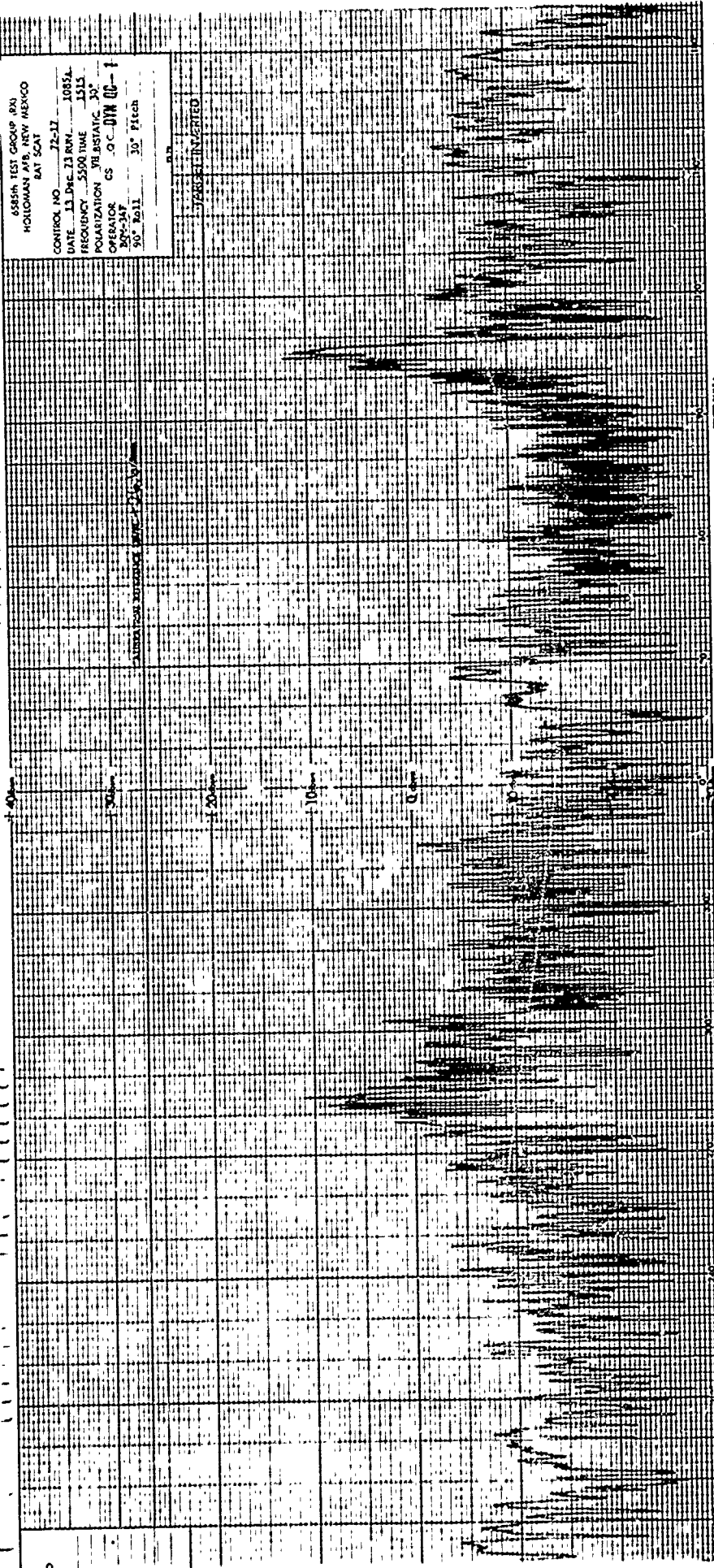
CONTROL NO 22-37
DATE 13 Dec 77 RUN 1054G
FREQUENCY 5500 MHZ 1650
POLARIZATION 1V BISTATIC 30°
OPERATOR CS LOC DYN 05-1
R/N-247 33° Pitch
90° Roll

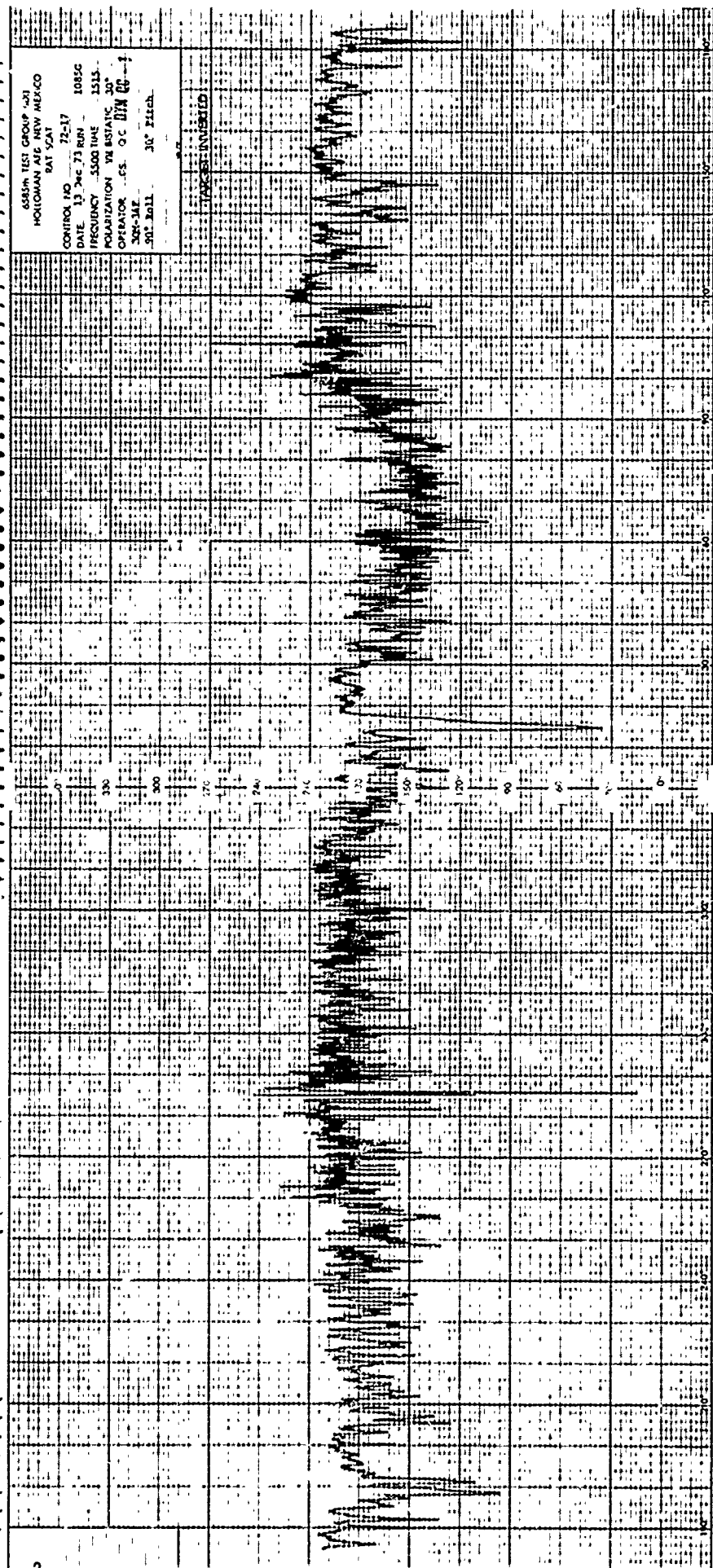
GENERAL
ELECTRIC

6588th TEST GROUP (R)
HOLLAMAN AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-17-10854
DATE 13 Dec 73 RUN 1515
FREQUENCY 5500 TIME 1515
POLARIZATION VERTICAL 30°
OPERATOR CS J.C. DVM CC-1
30° Az 30° Pitch

TARGET INVERTED





6583th TEST GROUP 421
HOLLOMAN AFB NEW MEXICO
BAT 5241
CONTROL NO 72-17
DATE 13 May 73 RUN 1085G
FREQUENCY 5500 MHz 1515
POLARIZATION PM INSTANT 30°
OPERATOR GS OC DW CC
SW-ME 30° Pitch
JUL 2011

TARGET IDENTIFIED