

## APPENDIX D

### WWLG FIELD STRENGTH MEASUREMENTS

(Extracted from WWLG 2002 full  
proof of performance (BL-20020827ACC))

TABLE 2.1  
 NONDIRECTIONAL FIELD STRENGTH  
 MEASUREMENTS - 24° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(7/28/02)			
1	0.30	1725	1418
2	0.51	1120	1357
3	0.77	635	1404
(8/7/02)			
4	0.97	580	1134
5	1.10	450	1106
6	1.30	350	1055
7	1.50	260	1049
8	1.70	220	1043
9	1.90	195	1037
(7/28/02)			
10	2.15	140	1414
11	2.47	125	1418
12	2.67	96.0	1421
13	2.85	93.0	1425
14 MP	4.10	42.0	1432
15	5.80	26.0	1453
16	6.50	20.0	1500
17	6.85	18.5	1507
18	7.28	18.5	1514
19	7.63	16.0	1517

TABLE 2.1 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
20	8.05	16.5	1520
21	9.05	10.8	1528
22	10.15	9.50	1545
23	11.00	6.00	1603
24	11.50	7.80	1620
25	12.18	6.70	1612
26	13.80	2.40	1630
27	14.63	3.15	1637
28	15.42	1.85	1641

Points 1-3 and 10-28 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

Points 4-9 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

## KILOMETERS FROM ANTENNA

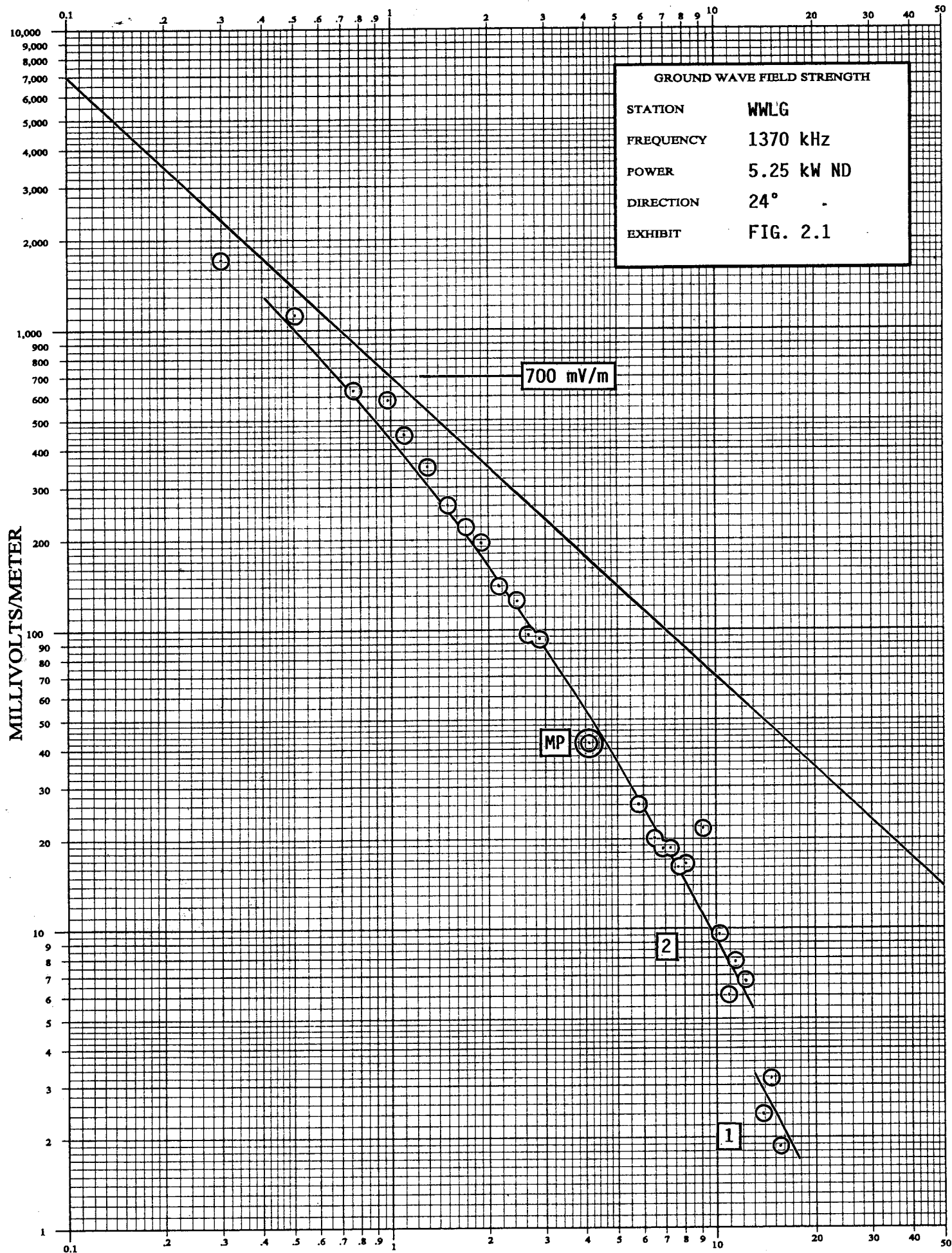


TABLE 2.3  
 NONDIRECTIONAL FIELD STRENGTH  
MEASUREMENTS - 92° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(8/8/02)			
1	0.35	1900	1038
(7/26/02)			
2	0.53	1200	1153
3	0.78	760	1158
4	1.10	350	1205
5	1.30	290	1209
6	1.50	180	1217
7	1.75	100	1222
8	1.90	145	1231
9	2.03	140	1234
10	2.30	120	1240
(8/8/02)			
11	2.84	120	1715
(7/26/02)			
12 MP	3.57	65.0	1307
13	4.20	44.0	1404
14	4.60	48.0	1411
(8/8/02)			
15	4.83	49.0	1605
(7/26/02)			
16	4.91	40.0	1418

TABLE 2.3 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
17	5.40	38.0	1425
18	5.73	35.0	1432
19	6.75	32.0	1445
20	6.95	29.0	1449
21	7.40	27.0	1455
	(8/8/02)		
22	7.50	30.0	1625
	(7/26/02)		
23	7.62	23.0	1500
	(8/8/02)		
24	8.20	19.0	1655
	(7/26/02)		
25	8.58	13.5	1505
26	9.05	12.0	1510
27	12.00	8.40	1542

Points 1 and 11 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

Points 2-10, 12-14, 16-21, 23, and 25-27 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 1128.

Points 15, 22, and 24 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

## KILOMETERS FROM ANTENNA

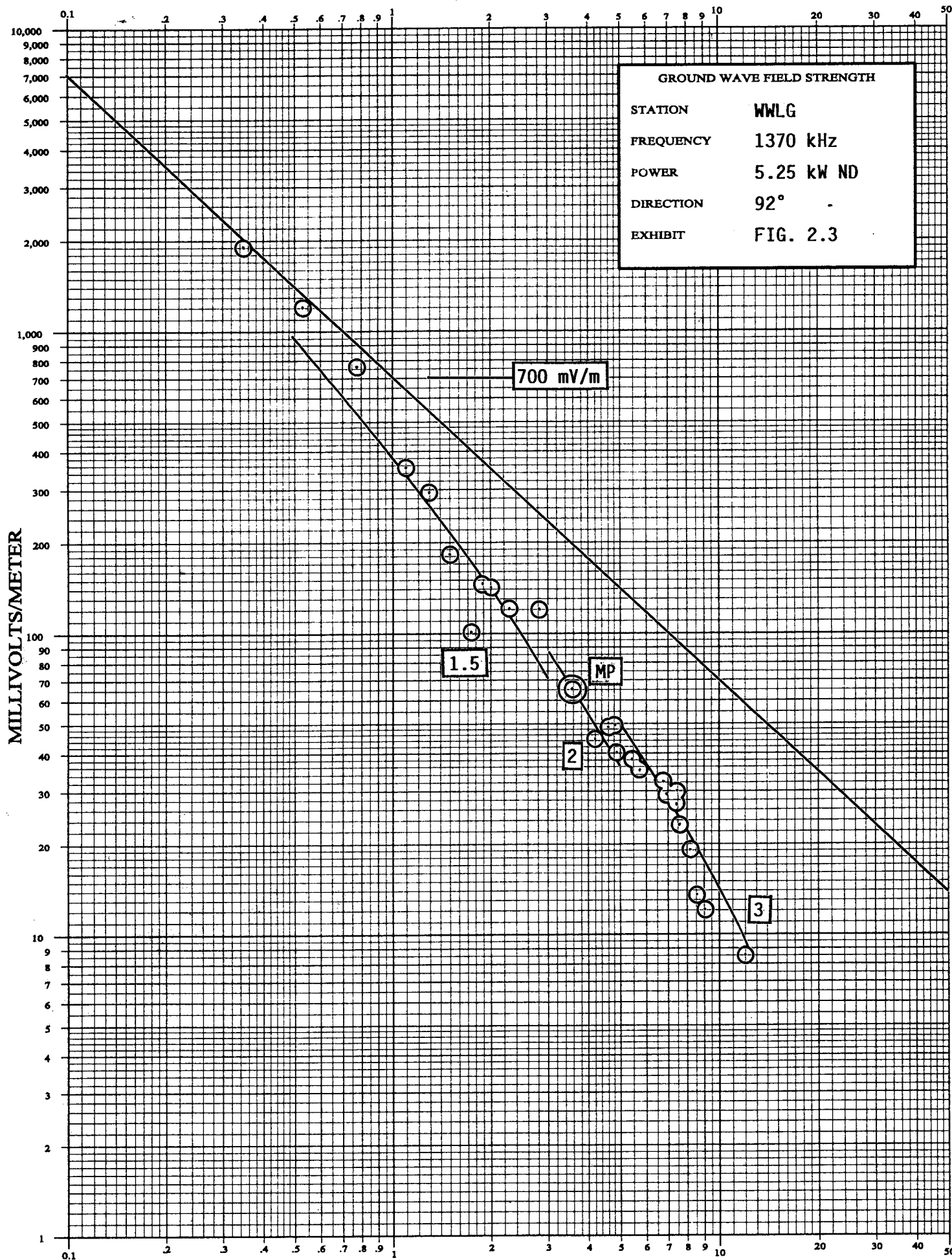


TABLE 2.4  
 NONDIRECTIONAL FIELD STRENGTH  
 MEASUREMENTS - 114° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(8/8/02)			
1	0.38	1750	1028
2	0.52	1150	1012
(7/26/02)			
3	0.65	560	1615
4	0.85	380	1618
5	1.05	290	1621
6	1.25	205	1625
(8/8/02)			
7	1.53	175	1216
(7/26/02)			
8	1.72	155	1631
9	2.02	120	1639
10	2.30	110	1643
11	2.60	82.0	1649
12	2.85	80.0	1654
13	3.00	87.0	1702
14	3.28	72.0	1828
15	3.36	66.0	1833
16	3.65	66.0	1713
17 MP	3.90	63.0	1719
18	4.07	51.0	1726



TABLE 2.4 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
19	4.25	52.0	1730
20	4.36	54.0	1736
21	4.62	47.0	1744
22	4.85	32.0	1747
23	5.28	29.5	1756
24	5.70	20.0	1802
25	6.08	19.0	1805
(7/27/02)			
26	22.92	3.00	1309
27	26.17	1.40	1316
28	29.42	1.55	1325
29	31.66	0.900	1331

Points 1,2, and 7 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

Points 3-6 and 8-25 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 1128.

Points 26-29 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

## KILOMETERS FROM ANTENNA

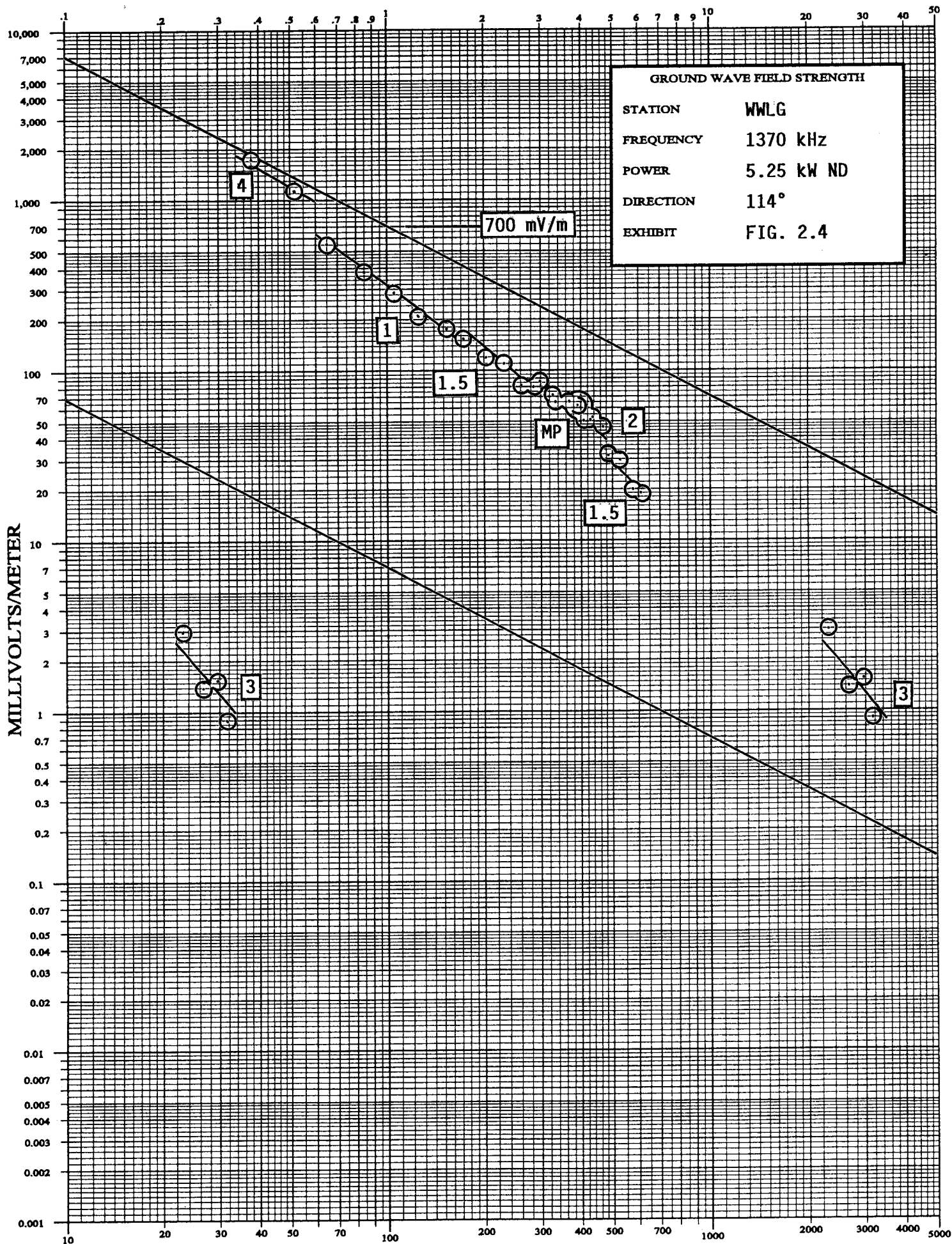


TABLE 2.5  
 NONDIRECTIONAL FIELD STRENGTH  
 MEASUREMENTS - 132.5° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(7/27/02)			
1	0.30	2100	0956
2	0.52	1350	0940
(8/8/02)			
3	0.69	640	1139
4	0.90	430	1151
(7/27/02)			
5	1.20	330	1035
6	1.43	230	1020
(8/8/02)			
7	1.75	185	1332
8	1.95	155	1319
9	2.15	120	1312
10	2.35	105	1300
(7/27/02)			
11	2.55	88.0	1050
(8/8/02)			
12	2.70	84.0	1235
(7/27/02)			
13	2.87	52.0	1059
14	3.15	62.0	1106
15	3.35	50.0	1130

TABLE 2.5 (cont'd)

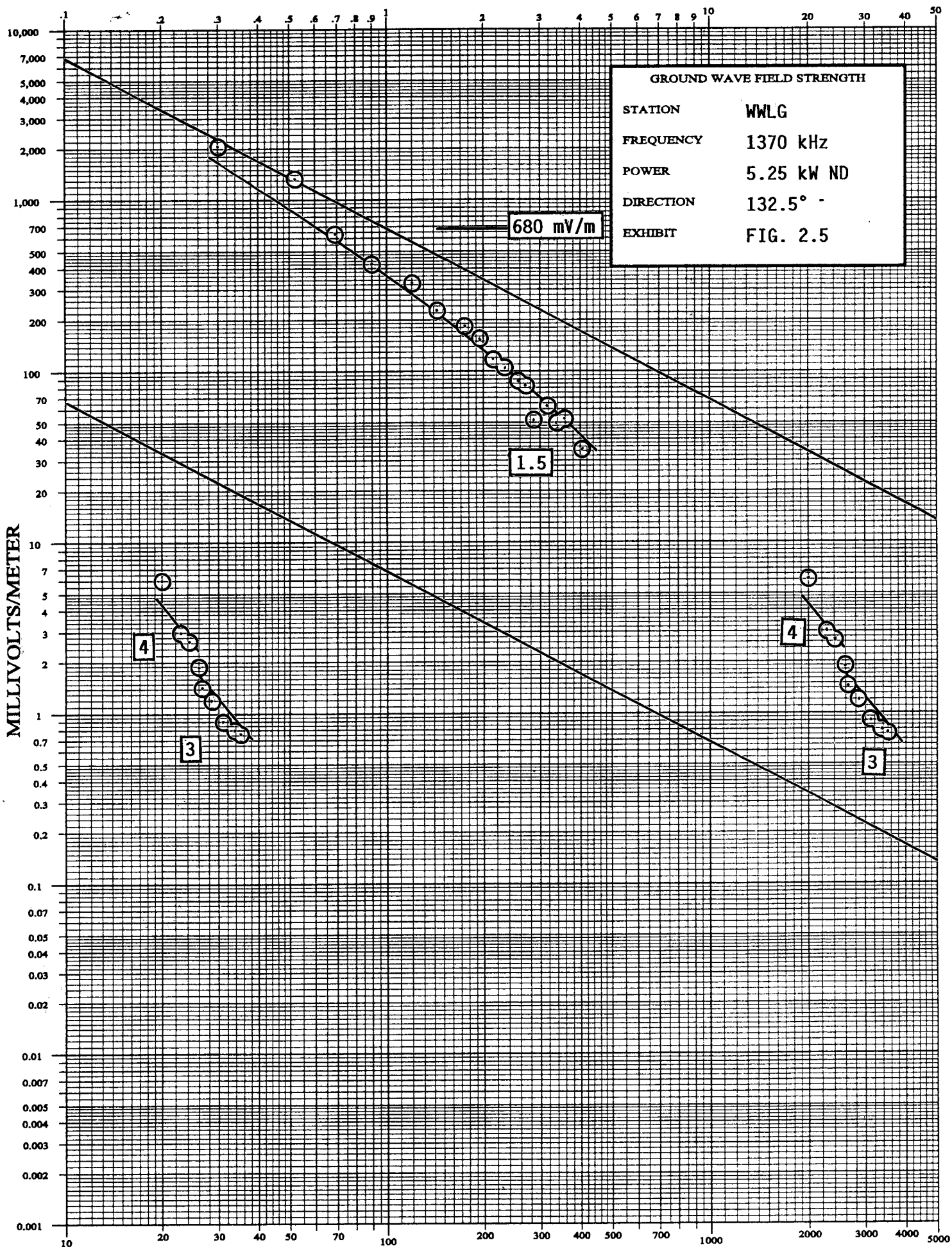
<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
16	3.55	53.0	1124
17	4.03	35.0	1113
18	20.00	6.00	1120
19	22.85	3.00	1109
20	24.37	2.65	1102
21	25.95	1.90	1058
22	26.62	1.45	1053
23	28.70	1.20	1138
24	31.23	0.900	1146
25	33.73	0.800	1152
26	35.20	0.770	1159

Points 1, 2, 5, 6, 11, and 13-17 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 1128.

Points 3, 4, 7-10, and 12 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

Points 18-26 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

## KILOMETERS FROM ANTENNA



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TABLE 2.6  
 NONDIRECTIONAL FIELD STRENGTH  
 MEASUREMENTS - 142.5° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(7/27/02)			
1	0.30	2000	1142
2	0.48	1400	1146
3	0.68	430	1151
4	0.90	380	1201
5	1.08	370	1218
6	1.28	245	1209
7	1.55	240	1231
(8/8/02)			
8	1.65	210	1527
9	1.85	165	1540
10	2.05	130	1600
11	2.25	120	1608
12	2.45	93.0	1618
(7/27/02)			
13	2.65	90.0	1245
(8/8/02)			
14	2.85	68.0	1653
(7/27/02)			
15	3.25	60.0	1256
16	3.75	29.0	1301
17 MP	4.65	34.0	1314

TABLE 2.6 (cont'd)

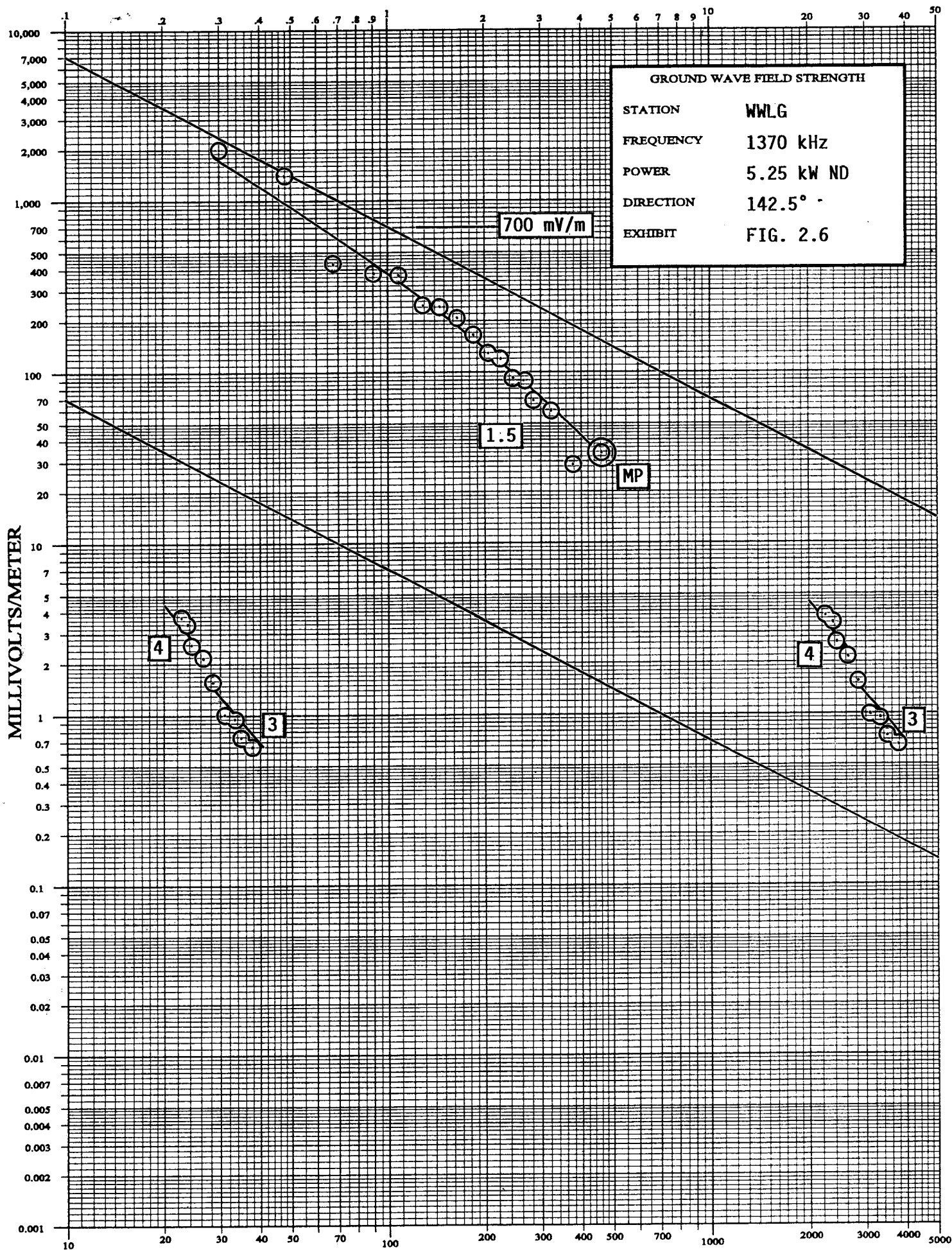
<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
18	22.71	3.75	1041
19	23.52	3.40	1037
20	24.50	2.60	1031
21	26.60	2.15	1024
22	28.30	1.55	1017
23	30.83	1.02	1010
24	33.02	0.960	1004
25	34.68	0.750	0955
26	37.70	0.660	0945

Points 1-7, 13, and 15-17 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 1128.

Points 8-12 and 14 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

Points 18-26 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

## KILOMETERS FROM ANTENNA



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TABLE 2.8  
 NONDIRECTIONAL FIELD STRENGTH  
MEASUREMENTS - 315.5° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
	(7/28/02)		
1	0.39	1220	1425
2	0.64	550	1509
	(8/7/02)		
3	0.80	525	0939
	(7/28/02)		
4	1.03	350	1243
	(8/7/02)		
5	1.20	315	0954
	(7/28/02)		
6	1.50	195	1237
	(7/27/02)		
7	1.75	145	0939
8	1.97	142	0948
	(7/28/02)		
9	2.20	78.0	1232
10	2.45	67.0	1227
11	2.62	52.0	1223
	(8/7/02)		
12	2.70	96.0	1027
13	2.90	88.0	1048
	(7/28/02)		

TABLE 2.8 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
14	3.33	58.0	1255
	(7/27/02)		
15	3.80	51.0	1005
	(8/14/02)		
16 MP	3.93	34.0	1733
	(7/28/02)		
17	5.30	14.5	1215
	(7/27/02)		
18	6.20	10.5	1026
19	7.10	8.80	1040
20	7.45	10.0	1050
21	9.65	4.30	1110
22	10.60	2.70	1120
23	11.40	2.20	1135
24	12.15	2.40	1150
25	13.60	2.40	1210
26	15.03	1.90	1225
27	15.50	1.80	1230
28	16.45	1.60	1320
29	17.62	1.40	1330
30	17.85	1.40	1335
31	20.22	1.00	1345
32	21.40	0.960	1355
33	23.15	0.900	1405

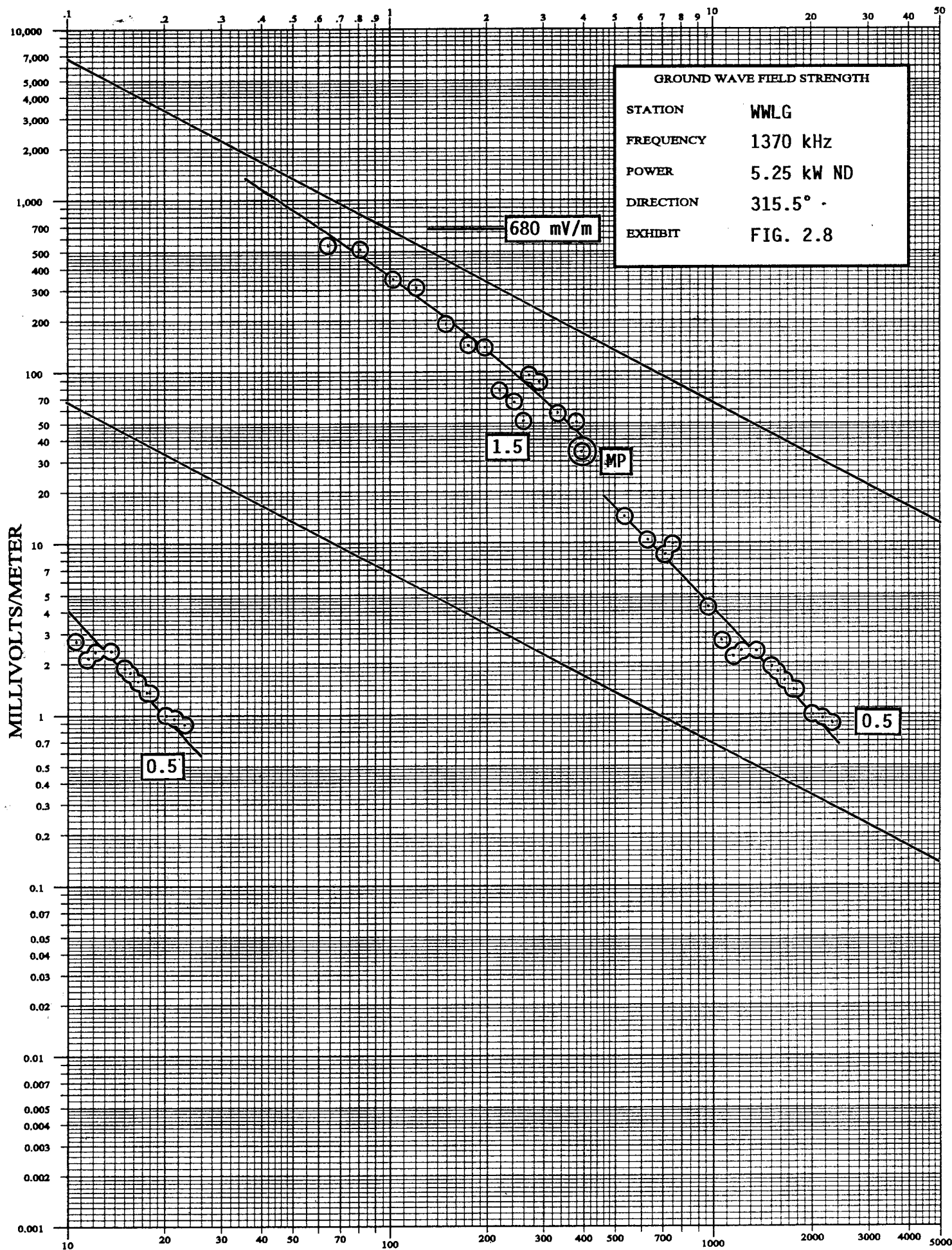
TABLE 2.8 (cont'd)

Points 1, 2, 4, 6, 9-11, 14, and 17 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

Points 3, 5, 7, 8, 12, 13, 15, and 18-33 measured by Marlin Heckendorn using Potomac Instruments FIM-41 S/N 1058.

Point 16 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

## KILOMETERS FROM ANTENNA



**KILOMETERS FROM ANTENNA**  
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TABLE 2.9  
 NONDIRECTIONAL FIELD STRENGTH  
MEASUREMENTS - 331° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
(7/28/02)			
1	0.31	1550	1423
2	0.60	730	1317
(8/7/02)			
3	0.80	590	1427
4	1.00	330	1441
5	1.20	280	1127
(7/27/02)			
6	1.45	300	0920
7	1.82	140	0930
8	1.93	130	0932
9	2.12	56.0	0937
10	2.30	94.0	0935
11	2.45	70.0	0943
12	2.68	82.0	0946
(8/7/02)			
13	2.88	74.0	1553
(8/12/02)			
14	3.42	47.0	1550
15	4.45	31.0	1554
16	5.15	27.5	1556
17	5.82	22.0	1600

TABLE 2.9 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
18	6.65	15.5	1603
19	7.20	14.5	1607
20	8.43	6.90	1611
21	9.63	7.30	1614
22	10.75	6.00	1617
23	12.10	5.40	1622
24	14.20	0.950	1628
25	16.05	1.20	1635
26	17.88	0.900	1641
27	19.45	0.910	1644
28	21.07	0.930	1654
29	22.88	0.700	1700

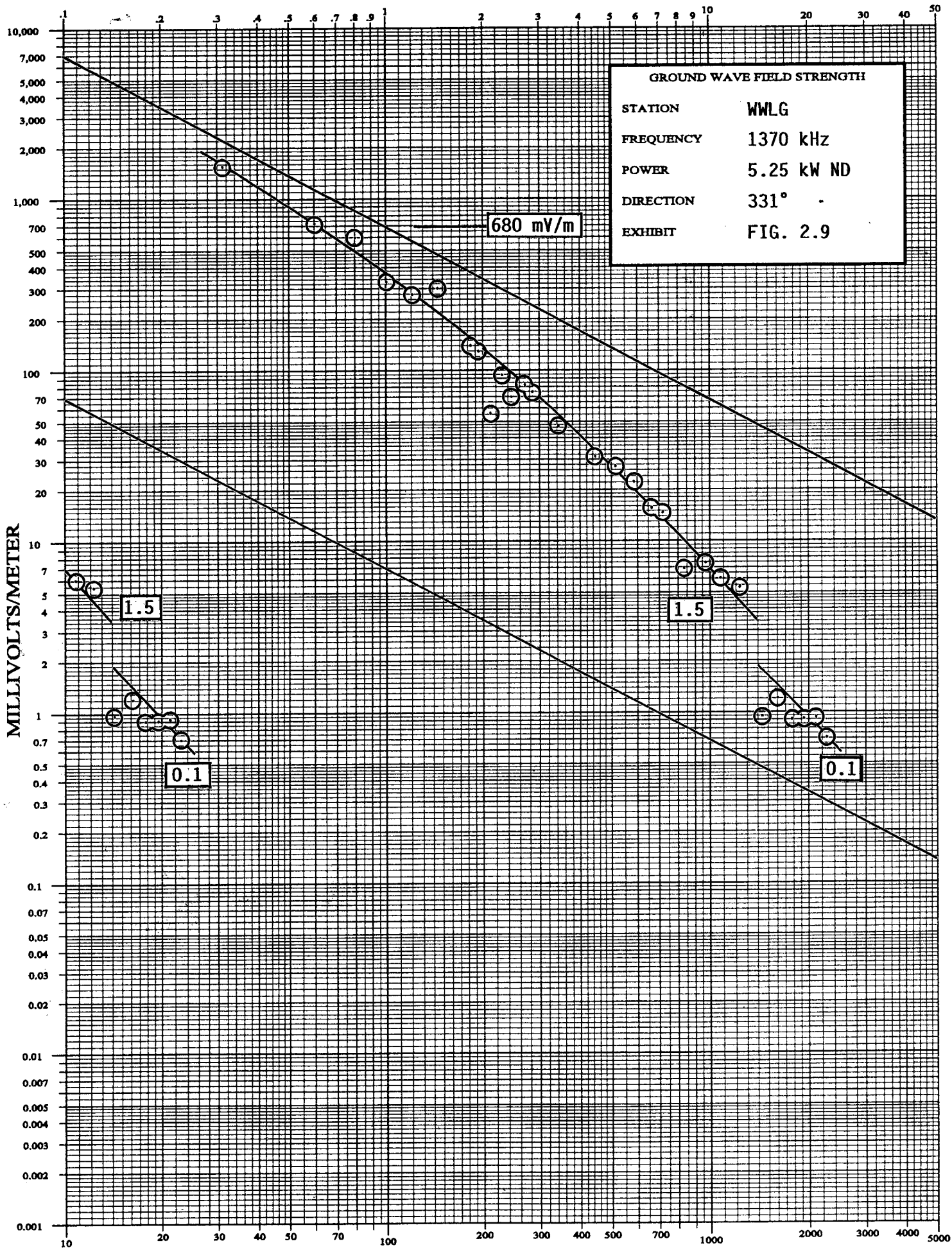
Points 1 and 2 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

Points 3-5 measured by Marlin Heckendorn using Potomac Instruments FIM-41 S/N 1058.

Points 6-12 measured by J. R. Richardson using Potomac Instruments FIM-41 S/N 1332.

Points 13-29 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

## KILOMETERS FROM ANTENNA



KILOMETERS FROM ANTENNA

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TABLE 2.10  
 NONDIRECTIONAL FIELD STRENGTH  
MEASUREMENTS - 349.5° RADIAL  
 M-10 Broadcasting, Inc.  
 Baltimore, MD

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
		(7/28/02)	
1	0.28	1820	1421
		(8/7/02)	
2	0.70	620	1456
		(7/28/02)	
3	0.83	495	1314
		(8/7/02)	
4	0.95	410	1509
5	1.12	300	1508
		(7/28/02)	
6	1.25	260	1145
		(8/7/02)	
7	1.42	200	1652
		(7/28/02)	
8	1.70	175	1141
9	2.00	135	1136
10	2.21	105	1134
11	2.40	82.0	1131
		(8/7/02)	
12	2.72	72.0	1625
		(7/28/02)	
13	2.92	73.0	1123



TABLE 2.10 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (EDT)</u>
14	3.10	47.5	1120
15 MP	3.77	47.0	1106
(7/26/02)			
16	4.85	26.5	1843
17	5.30	25.5	1839
18	6.45	15.5	1833
19	7.20	10.0	1828
20	7.75	8.60	1824
21	8.18	8.30	1821
22	8.82	9.30	1814
23	10.20	6.30	1758
24	11.66	6.30	1753
25	12.40	5.50	1749
26	13.40	3.00	1732
27	14.43	3.40	1741
28	15.20	2.35	1723
29	16.39	2.35	1718

Points 1, 3, 6, 8-11, and 13-29 measured by Earl Miller using Potomac Instruments FIM-21 S/N 1129.

Points 2 and 4 measured by Marlin Heckendorn using Potomac Instruments FIM-41 S/N 1058.

Points 5, 7, and 12 measured by Derek Gorman using Potomac Instruments FIM-21 S/N 537.

## KILOMETERS FROM ANTENNA

