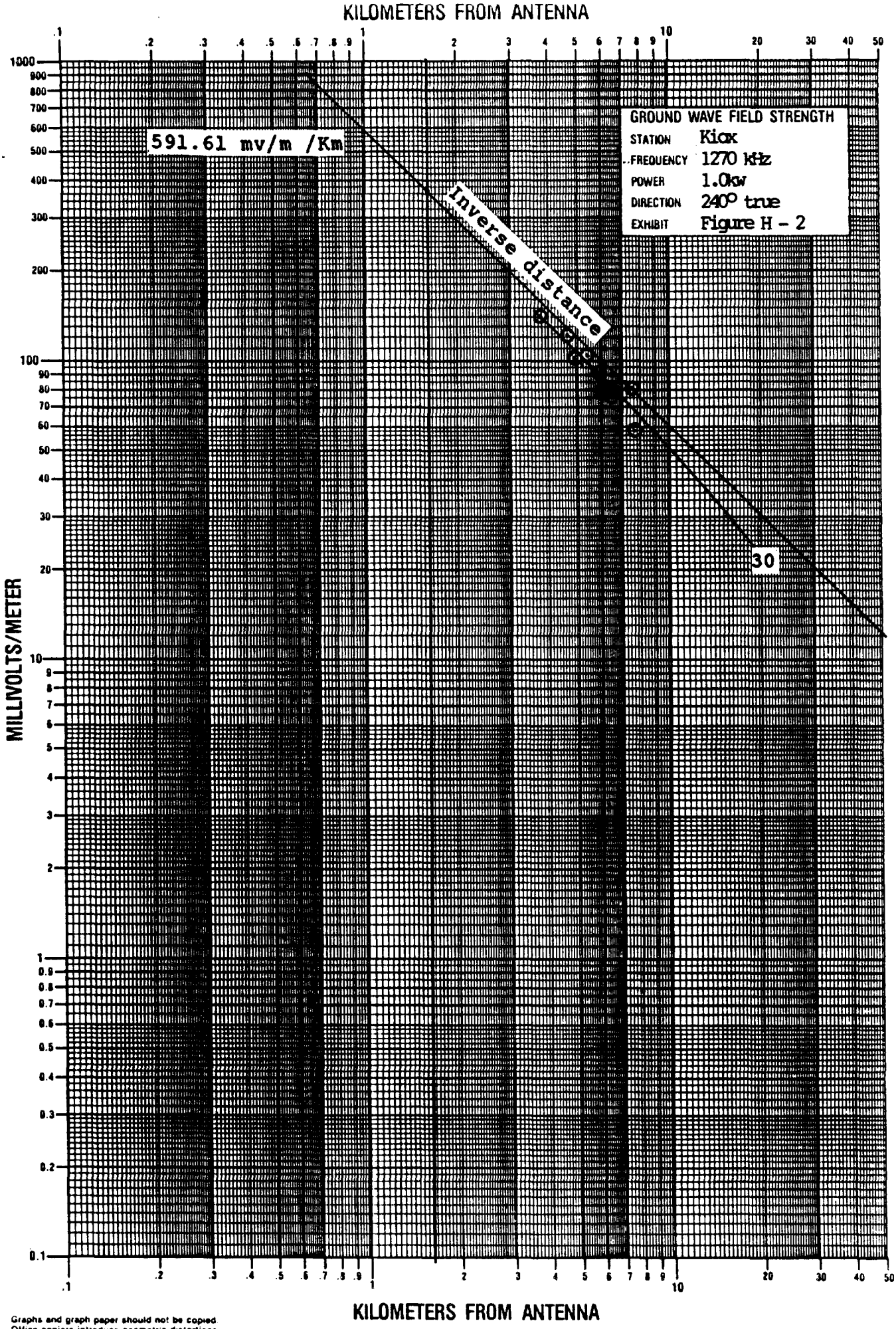

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TABULATION OF FIELD INTENSITY MEASUREMENTS FOR ANTENNA PARTIAL PROOF-OF-PERFORMANCE

KIOX - BAY CITY, TEXAS

1270 KHZ, 1.0 KW, DA-N

RADIAL 265 DEGREES TRUE

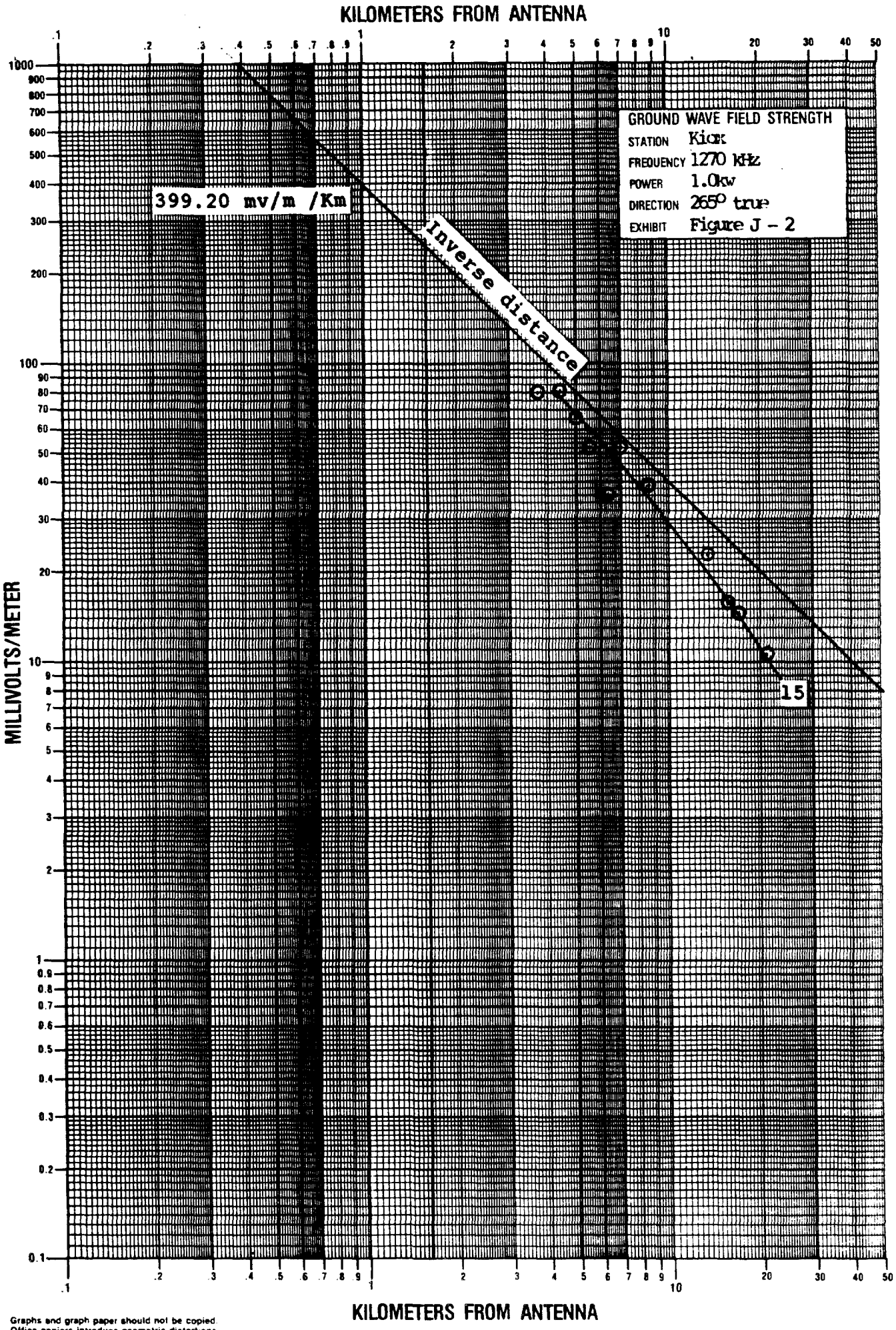
POINT	MILES/KILOMETERS		TIME	1969 FIELD	1994 FIELD	RATIO Of FIELDS	LOG Of RATIOS
4	2.30	3.70	0932	76.0	80.0	1.0526	0.0223
5(MP)	2.70	4.35	0938	80.0	80.3	1.0038	0.0016
6	3.10	4.99	0943	64.0	66.0	1.0313	0.0134
7	3.40	5.47	0948	54.0	52.0	0.9630	-0.0164
8	3.90	6.28	0954	30.0	36.0	1.2000	0.0792
9	4.35	7.00	1002	50.0	52.0	1.0400	0.0170
10	4.70	7.56	1012	41.0	39.0	0.9512	-0.0217
11	8.10	13.04	1031	23.0	22.8	0.9913	-0.0038
12	9.35	15.05	1102	16.0	15.7	0.9813	-0.0082
13	10.45	16.82	1117	15.0	14.5	0.9667	-0.0147
14	12.95	20.84	1135	10.0	10.7	1.0700	0.0294
							0.0981

0.0981/11 = 0.0089 [ANTILOG = 1.0207]

1969 FIELD = 243.0 mV/m

1994 FIELD = 243 X 1.0207 = 248.03 mV/m

Fields measured May 24, 1994



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TABULATION OF FIELD INTENSITY MEASUREMENTS
FOR ANTENNA PARTIAL PROOF-OF-PERFORMANCE

KIOX - BAY CITY, TEXAS
1270 KHZ, 1.0 KW, DA-N

RADIAL 306.3 DEGREES TRUE

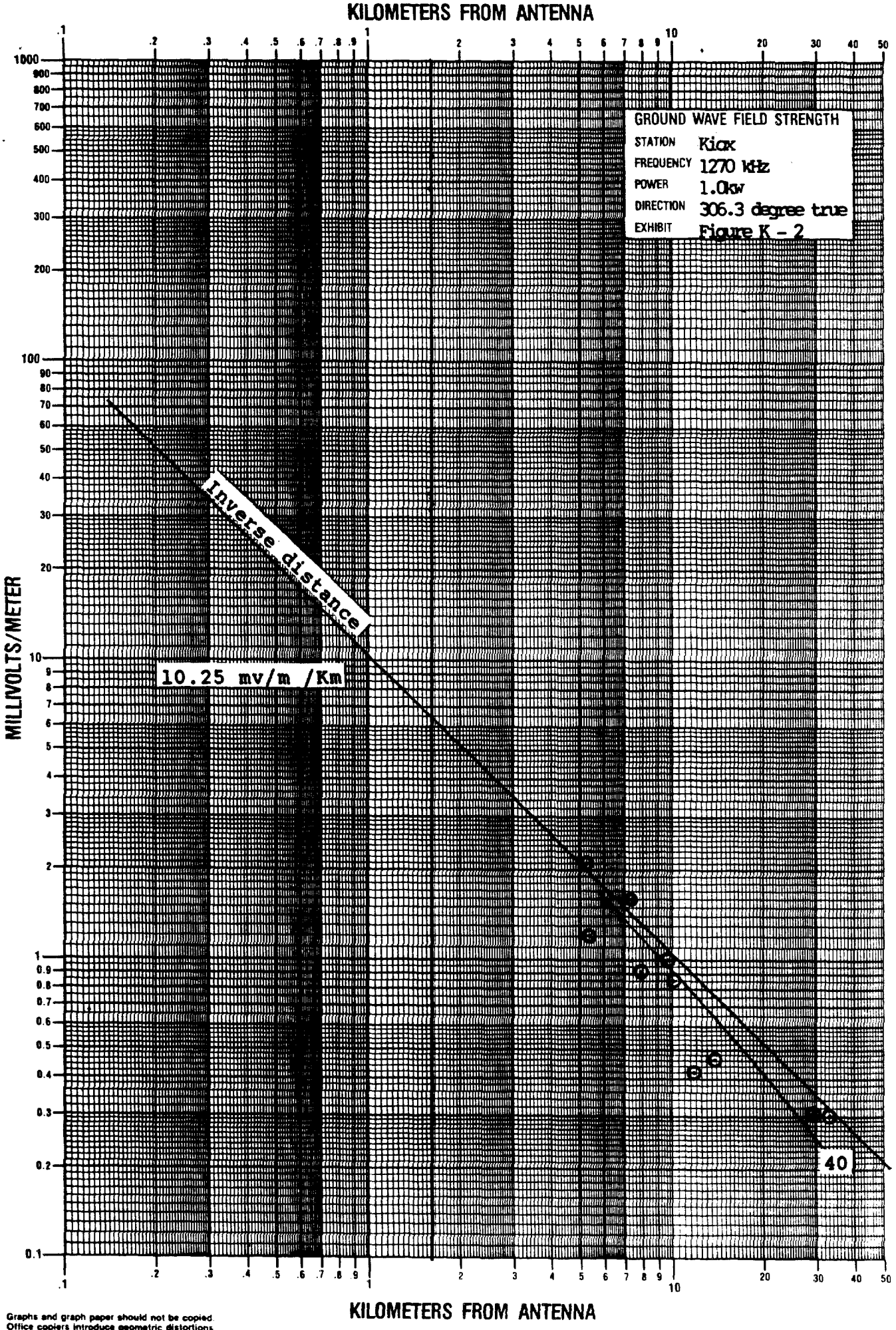
POINT	MILES/KILOMETERS		TIME	1969 FIELD	1994 FIELD	RATIO Of Fields	LOG Of Fields
4	3.20	5.15	1302	2.00	2.10	1.0500	0.0212
5	3.30	5.31	1306	0.45	1.20	2.6667	0.4260
6	4.55	7.32	1314	1.35	1.60	1.1852	0.0738
7	4.90	7.89	1355	2.60	0.92	0.3538	-0.4512
8	6.00	9.66	1425	0.65	1.00	1.5385	0.1871
9	6.25	10.06	1431	0.81	0.85	1.0494	0.0209
10	7.30	11.75	1505	0.45	0.42	0.9333	-0.0300
11	8.50	13.68	1600	0.30	0.47	1.5667	0.1950
13	12.00	19.31	1645	0.25	0.38	1.5200	0.1818
14	14.30	23.01	1717	0.29	0.30	1:0345	0.0147
							0.6393

0.6393/10 = 0.0639 [ANTILOG = 1.1586]

1969 FIELD = 5.50 mV/m

1994 FIELD = 5.50 X 1.1586 = 6.37 mV/m

Fields measured May 24, 1994



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TABULATION OF FIELD INTENSITY MEASUREMENTS FOR ANTENNA PARTIAL PROOF OF PERFORMANCE

KIOX - BAY CITY, TEXAS
1270 KHZ, 1.0 KW, DA-N

RADIAL 312 DEGREES TRUE

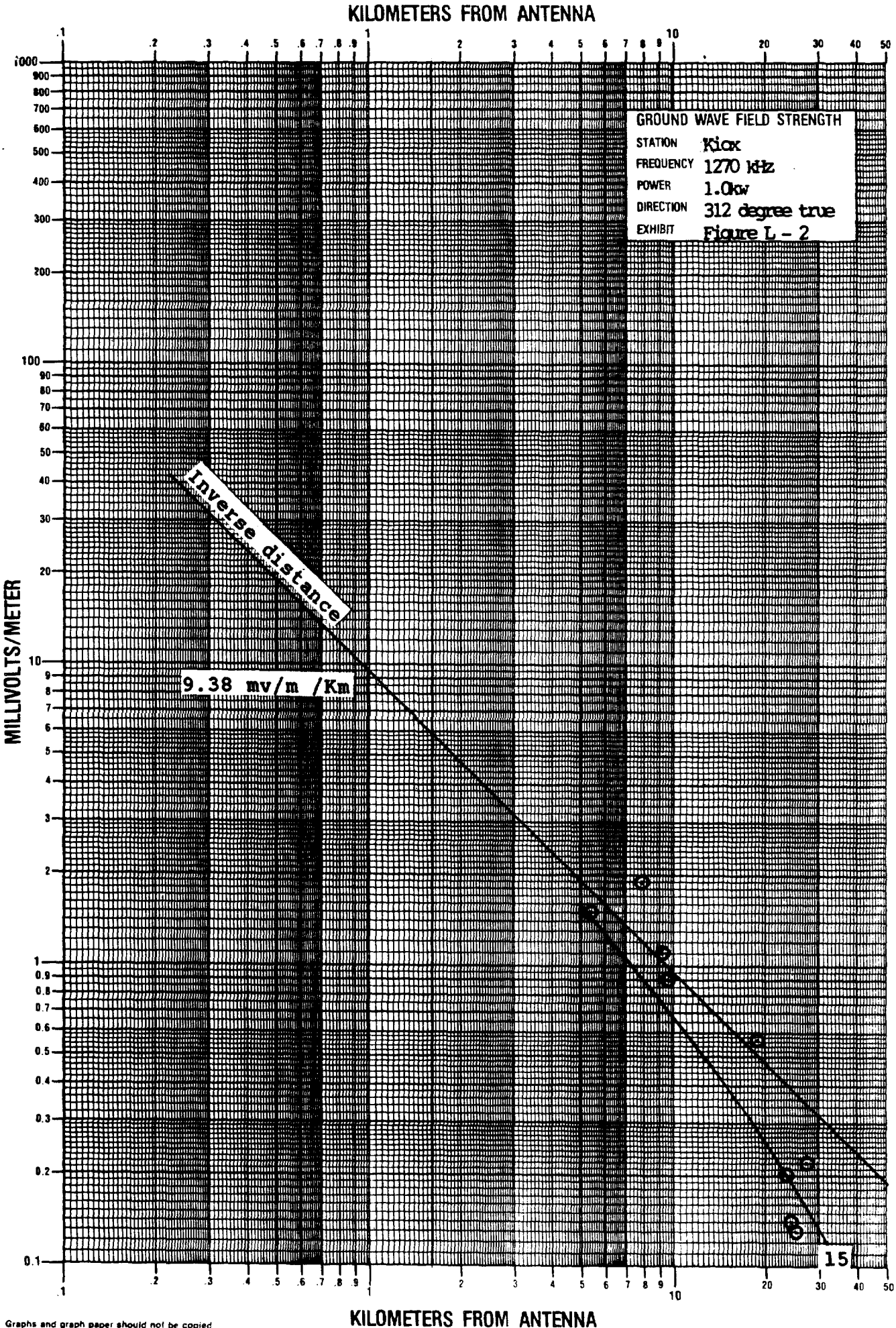
POINT	MILES/KILOMETERS		TIME	1969 FIELD	1994 FIELD	RATIO Of FIELDS	LOG Of RATIOS
5	3.30	5.31	0940	0.60	1.50	2.5000	0.3979
6	4.90	7.89	0949	2.00	1.89	0.9450	-0.0246
7	5.70	9.17	0958	0.55	1.10	2.0000	0.3010
8	5.95	9.58	1004	0.82	0.90	1.0976	0.0404
10	11.65	18.75	1140	0.91	0.57	0.6264	-0.2032
11	14.60	23.50	1215	0.34	0.20	0.5882	-0.2304
12	15.00	24.14	1234	0.13	0.15	1.1538	0.0621
13	15.65	25.19	1241	0.12	0.13	1.0833	0.0348
14	17.25	27.76	1310	0.31	0.22	0.7097	-0.1489
							0.2291

0.2291/9 = 0.0255 = [antilog = 1.0604]

1969 FIELD = 5.50 mV/m

1994 FIELD = 5.50 X 1.0604 = 5.83 mV/m

Fields measured May 25, 1994



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TABULATION OF FIELD INTENSITY MEASUREMENTS FOR ANTENNA PARTIAL PROOF-OF-PERFORMANCE

KIOX - BAY CITY, TEXAS
1270 KHZ, 1.0 KW, DA-N

RADIAL 324 DEGREES TRUE

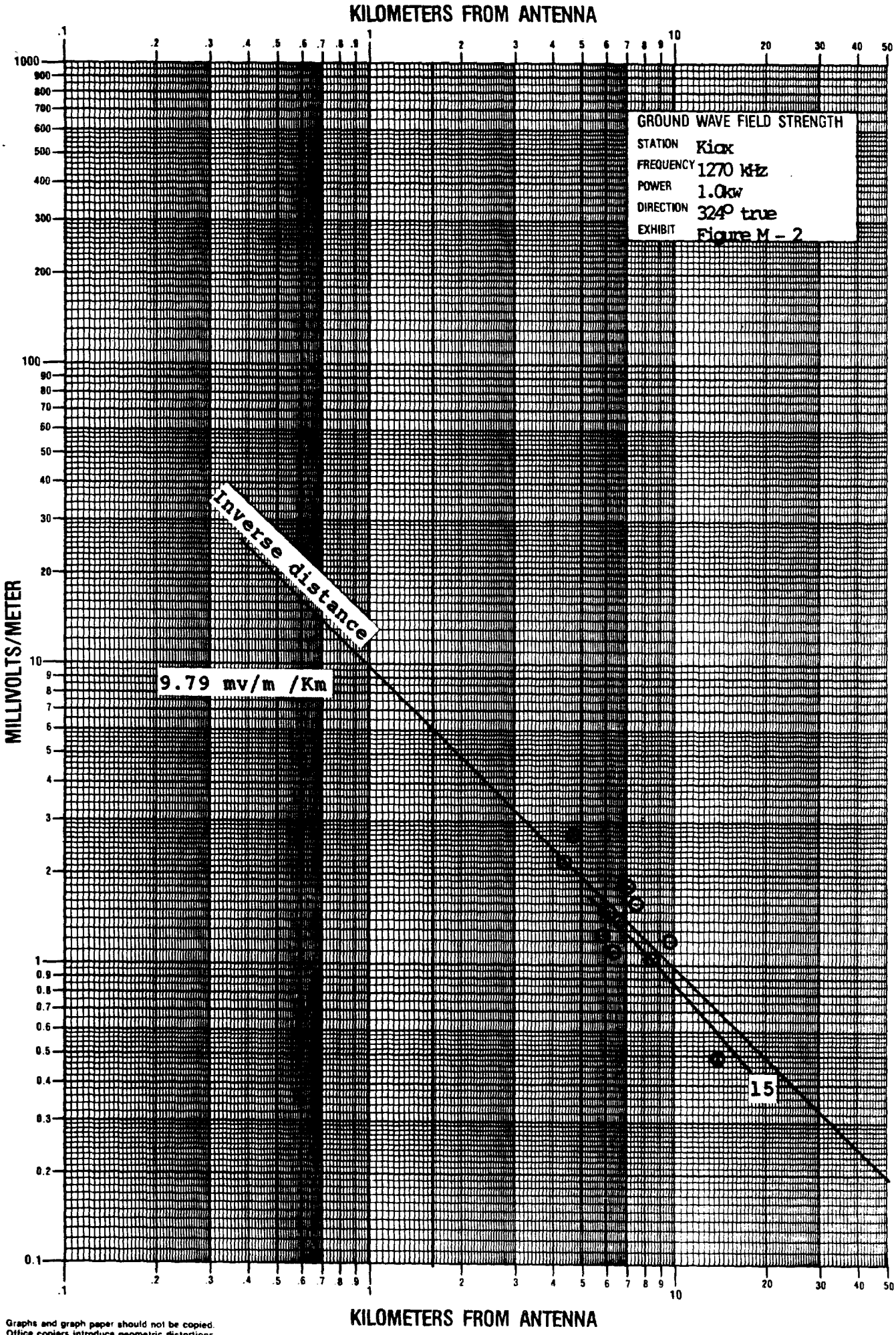
POINT	MILES/KILOMETERS		TIME	1969 FIELD	1994 FIELD	RATIO OF FIELDS	LOG of FIELDS
4	2.70	4.35	0940	4.20	2.20	0.5238	-0.2808
5	2.90	4.67	0949	6.40	2.70	0.4219	-0.3748
6	3.65	5.87	0955	1.00	1.25	1.2500	0.0969
7	3.80	6.12	1000	2.20	1.50	0.6818	-0.1663
8	3.95	6.36	1006	1.30	1.10	0.8462	-0.0726
9	4.10	6.60	1011	0.90	1.40	1.5556	0.1919
10	4.40	7.08	1022	1.60	1.82	1.1375	0.0560
11	4.50	7.24	1027	2.00	1.70	0.8500	-0.0706
12	5.25	8.45	1040	0.60	1.05	1.7500	0.2430
13	6.00	9.66	1448	1.80	1.20	0.6667	-0.1761
15	8.60	13.84	1520	0.55	0.49	0.8909	-0.0502
							-0.6036

-0.6036/11 = -0.0549 = [ANTILOG = 0.8813]

1969 FIELD = 6.90 mV/m

1994 FIELD = 6.90 X 0.8813 = 6.0810 mV/m

Fields measured May 26, 1994



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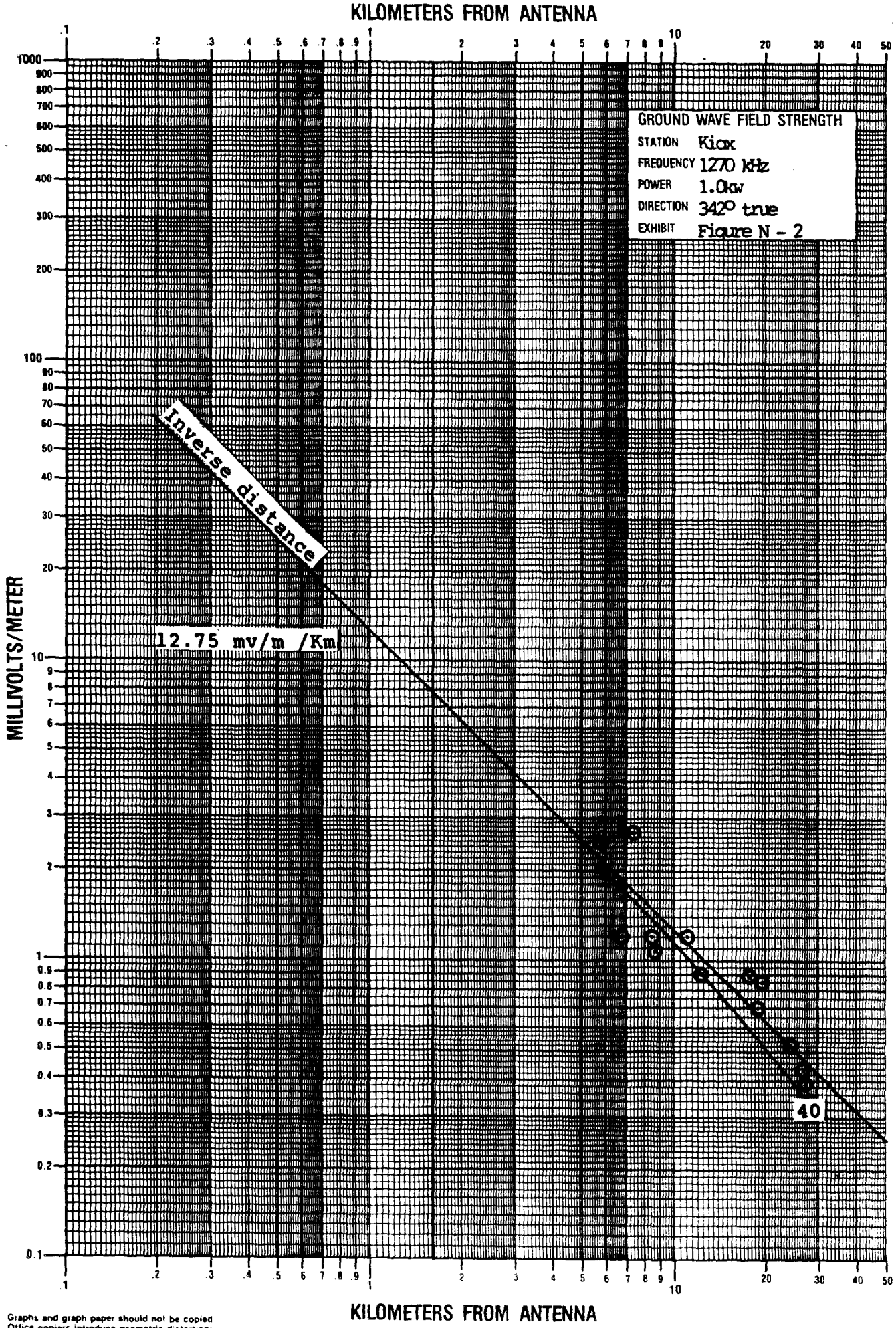

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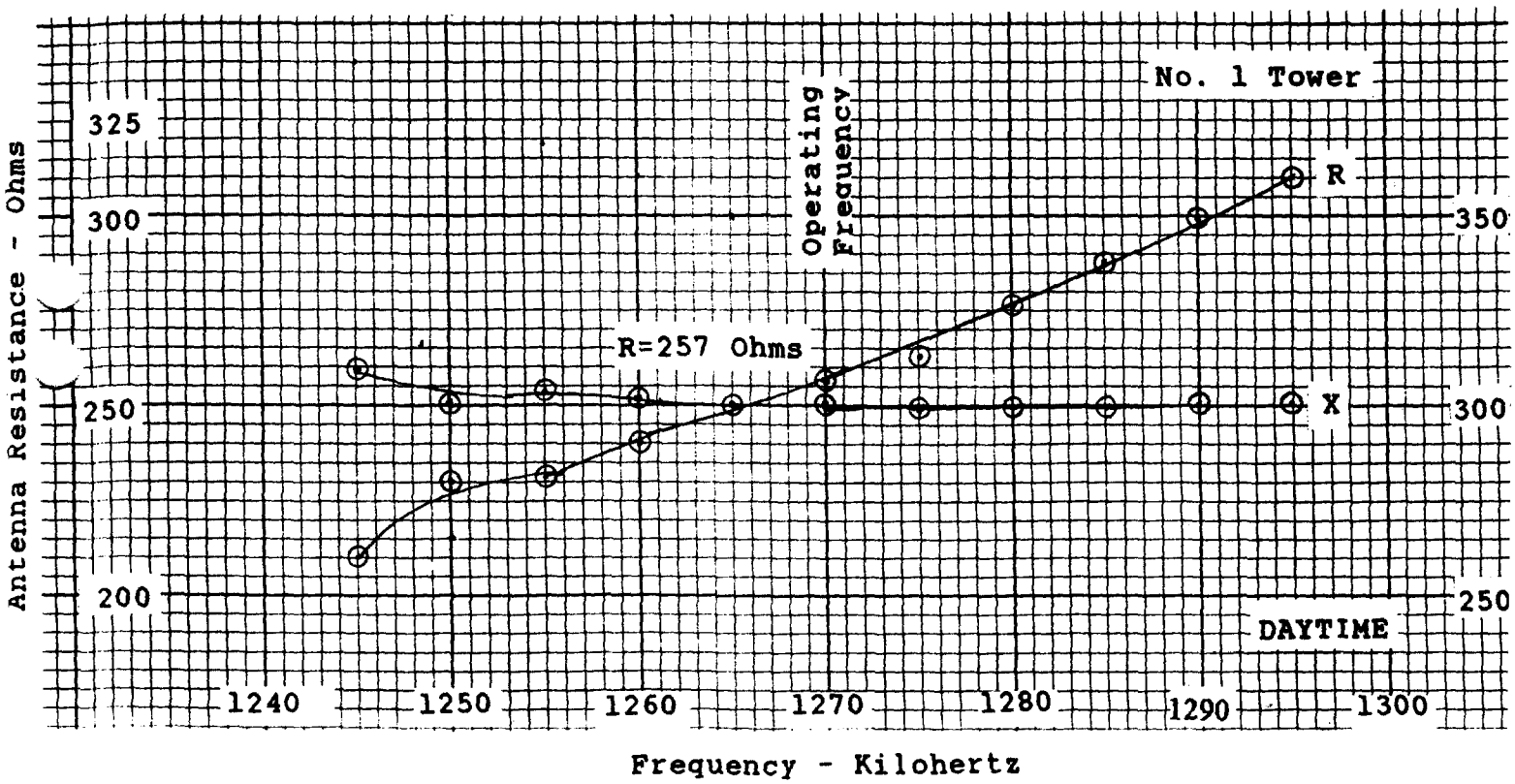
NON-DIRECTIONAL ANTENNA IMPEDANCE MEASUREMENTS
RADIO STATION KIOX BAY CITY, TEXAS

Frequency Kilohertz	Antenna Resistance	Antenna Reactance
1240	201	287.0
1245	210	292.1
1250	230	295.9
1255	232	297.2
1260	240	298.5
1265	250	299.7
1270	257	299.7
1275	266	301.0
1280	277	301.0
1285	288	301.0
1290	299	299.7
1295	310	299.7
1300	323	298.5



TABULATION OF FIELD INTENSITY MEASUREMENTS FOR ANTENNA PARTIAL PROOF-OF-PERFORMANCE

KIOX - BAY CITY, TEXAS
1270 KHZ, 1.0 KW, DA-N

RADIAL 342 DEGREES TRUE

POINT	MILES/KILOMETERS		TIME	1969 FIELD	1994 FIELD	RATIO Of FIELDS	LOG Of FIELDS
5	3.60	5.79	1430	2.10	2.50	1.1905	0.0757
6	4.15	6.68	1415	1.50	1.20	0.8000	-0.0969
7	4.45	7.16	1409	3.50	2.70	0.7714	-0.1127
8	5.25	8.45	1402	0.92	1.20	1.3043	0.1154
9(MP)	5.35	8.61	1130	1.25	1.08	0.8640	-0.0635
10	6.85	11.02	1103	1.35	1.20	0.8889	-0.0512
11	7.65	12.31	1050	0.73	0.90	1.2329	0.0909
12	11.00	17.70	1539	0.82	0.89	1.0854	0.0356
13	11.75	18.91	1550	0.76	0.70	0.9211	-0.0357
14	12.25	19.71	1605	0.88	0.85	0.9659	-0.0151
15	15.30	24.62	1617	0.47	0.55	1.1702	0.0683
16	16.90	27.20	1630	0.45	0.42	0.9333	-0.0300
17	17.00	27.36	1635	0.42	0.39	0.9286	-0.0322
							-0.0870

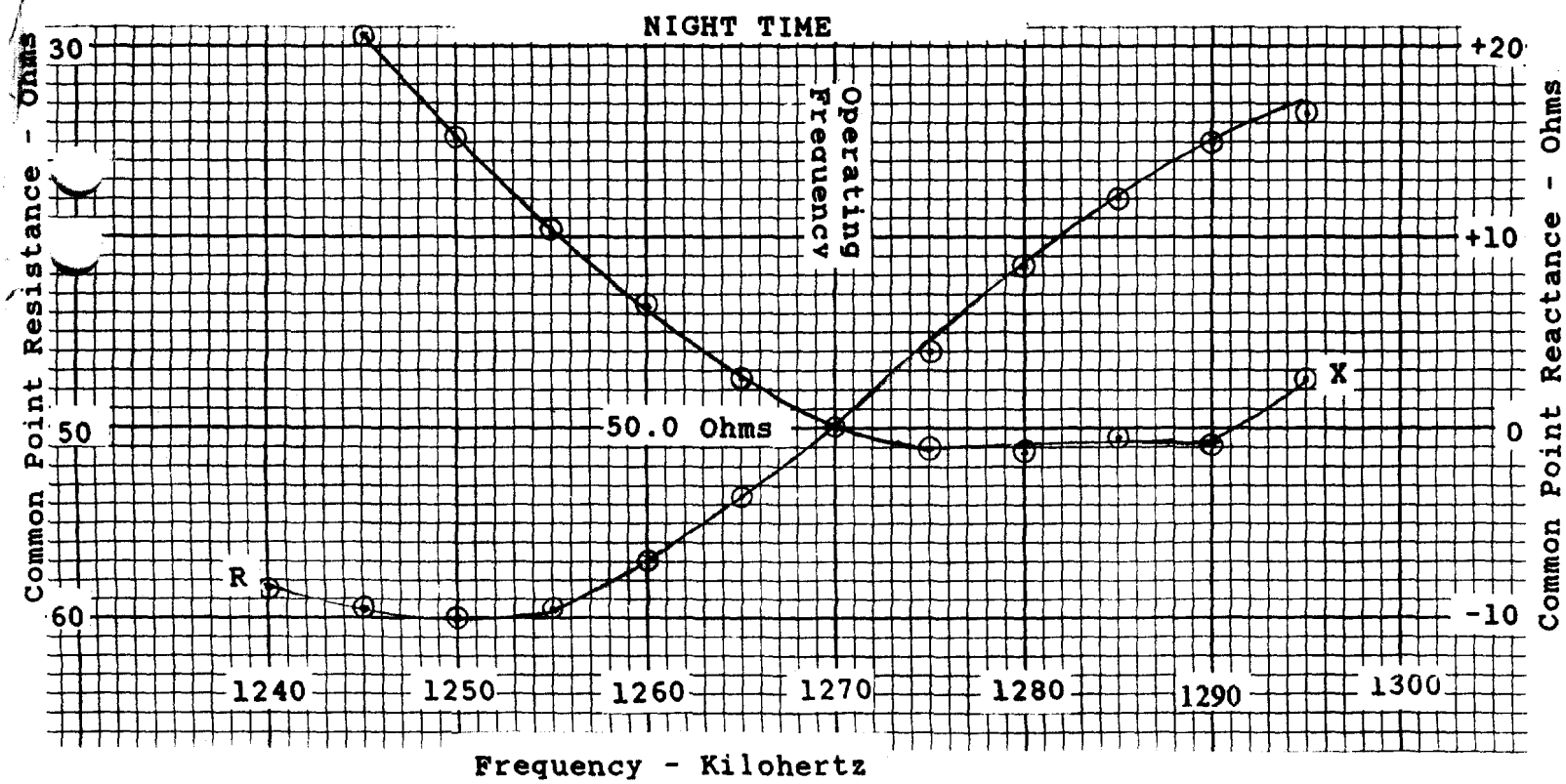
-0.0870/13 = -0.0067 = [ANTILOG = 0.9847]

1969 FIELD = 8.04 mV/m

1994 FIELD = 8.04 X 0.9847 = 7.92 mV/m

Field measured May 25,26, 1994

FIGURE R-2

DIRECTIONAL COMMON POINT IMPEDANCE MEASUREMENTS
RADIO STATION KIOX BAY CITY, TEXAS

Frequency Kilohertz	Common Point Resistance	Common Point Reactance
1240	57.5	25.4
1245	58.5	20.6
1250	60.0	15.2
1255	59.5	10.4
1260	57.0	6.4
1265	53.6	2.8
1270	50.0	0.0
1275	46.0	-1.1
1280	41.5	-1.3
1285	38.0	-0.6
1290	35.0	+0.9
1295	33.5	+2.5
1300	32.0	+4.0