

APPENDIX B

WPTF FIELD STRENGTH MEASUREMENTS

(Extracted from WPTF 1982 Full Proof
of Performance - BL-19821229AM)

WPTF(AM)
Raleigh, North Carolina

TABLE 1

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 10 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
1	0.133		7-15-82		0756		10,847		
2	0.142		7-15-82		0800		10,444		
3	0.152		7-15-82		0802		9,635		
4	0.161		7-15-82		0809		8,528		
5	0.170		7-15-82		0811		7,701		
6	0.180		7-15-82		0813		7,199		
7	0.189		7-15-82		0821		7,276		
8	0.199		7-15-82		0826		6,631		
9	0.208		7-15-82		0833		6,560		
10	0.219		7-15-82		0837		5,771		
11	0.238		7-15-82		0845		5,489		
12	0.256		7-15-82		0851		4,806		
13	0.275		7-15-82		0855		4,690		
14	0.294		7-15-82		0900		4,324		
15	0.313		7-15-82		0905		4,112		
16	0.331		7-15-82		0909		3,751		
17	0.350		7-15-82		0915		3,341		
18	0.369		7-15-82		0920		3,084		
19	0.388		7-15-82		0925		2,879		
20	0.407		7-15-82		0929		2,715		
21	0.426		7-15-82		0933		2,319		
22	0.445		7-15-82		0938		2,197		
23	0.60	0.58	7-23-82	8-19-82	0855	1350	2,480	770	-0.50796
24	0.62	0.60	7-23-82	8-19-82		1352	1,730	625	-0.44217
25	0.64	0.62	7-23-82	8-19-82	0900	1354	1,500	585	-0.40894
26	0.73	0.71	7-23-82	8-19-82	0906	1356	1,300	520	-0.39794
27	0.75	0.73	7-23-82	8-19-82	0907	1357	1,610	620	-0.41443
28	0.77	0.75	7-23-82	8-19-82	0910	1358	1,450	541	-0.42817
29	0.83	0.81	7-23-82	8-19-82	0912	1359	1,260	518	-0.38604
30	0.90	0.88	7-23-82	8-20-82	0915	1014	1,020	342	-0.47457
31	1.68	1.66	7-23-82	8-20-82	0937	1030	480	191	-0.40021

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

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TABLE 1 (CONTINUED)

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 10 DEGREES TRUE

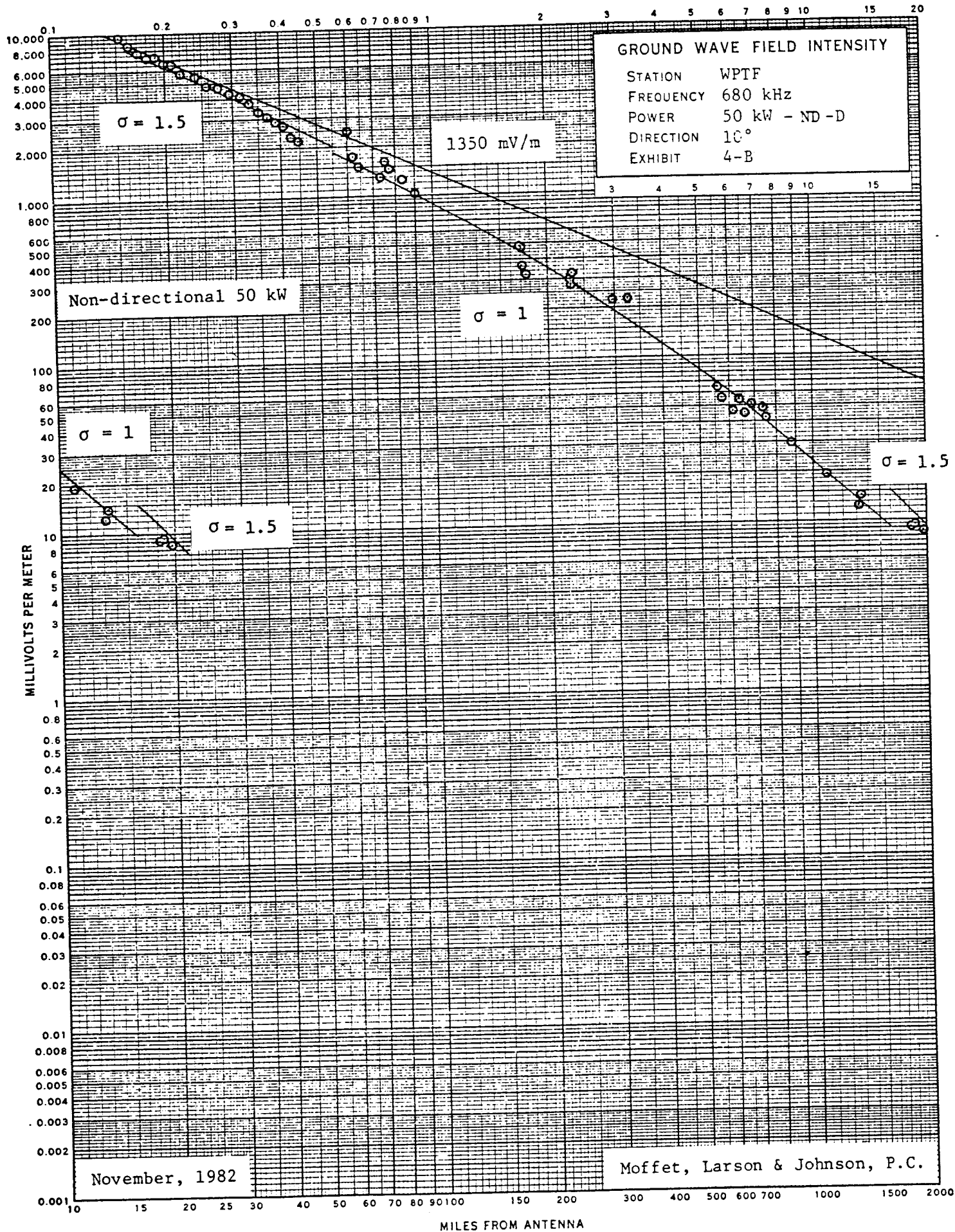
POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
32	1.70	1.68	7-23-82	8-20-82	0940	1033	470	186	-0.40258
33	1.71	1.70	7-23-82	8-20-82	0943	1035	365	149	-0.38911
34	1.73	1.71	7-23-82	8-20-82	0945	1037	405	161	-0.40063
35	1.75	1.73	7-23-82	8-20-82	0946	1039	325	140	-0.36576
36	2.28		7-23-82	8-20-82	1000	1047	300	122	-0.39076
37	2.30		7-23-82	8-20-82	1004	1048	278	110	-0.40265
38	2.32		7-23-82	8-20-82	1007	1049	325	128	-0.40467
39	2.97		7-23-82	8-20-82	1024	1054	222	92	-0.38257
40	3.24		7-23-82	8-20-82	1029	1057	224	93	-0.38177
41	access denied		7-23-82	8-20-82	1119		66		
42	5.58		7-23-82	8-20-82	1125	1117	65	22.8	-0.45498
43	5.72		7-23-82	8-20-82	1131	1119	56	20.2	-0.44284
44	6.12		7-23-82	8-20-82	1136	1121	47	17.5	-0.42906
45	6.38		7-23-82	8-20-82	1140	1124	54.2	21.2	-0.40766
46	6.59		7-23-82	8-20-82	1145	1128	45.5	17.1	-0.42502
47	6.89		7-23-82	8-20-82	1148	1130	51	19.6	-0.41531
48	7.37		7-23-82	8-20-82	1153	1132	48.5	18.3	-0.42329
49	7.50		7-23-82	8-20-82	1155	1134	42.5	16.7	-0.40567
50	8.79		7-23-82	8-20-82	1202	1139	29.6	10.3	-0.45845
51	10.85		7-23-82	8-20-82	1215	1149	19.2	7.75	-0.39400
52	13.16		7-23-82	8-20-82	1222	1156	12.3	5.4	-0.35751
53	13.48		7-23-82	8-20-82	1227	1158	14.2	5.5	-0.41193
54	18.16		7-23-82	8-20-82	1252	1221	9.1	3.14	-0.46211
55	18.69		7-23-82	8-20-82	1259	1217	9.4	3.62	-0.41442
56	19.58		7-23-82	8-20-82	1302	1212	8.6	2.96	-0.46321

AVERAGE LOG (RATIO) -0.41656

AVERAGE RATIO 0.38322

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

MILES FROM ANTENNA



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TABLE 3

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 70 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
1	0.379		7-16-82		1115		3,891		
2	0.388		7-16-82		1120		3,828		
3	0.398		7-16-82		1122		3,544		
4	0.407		7-16-82		1124		3,482		
5	0.417		7-16-82		1126		3,379		
6	0.426		7-16-82		1130		3,338		
7	0.436		7-16-82		1132		3,246		
8	0.445		7-16-82		1135		3,033		
9	0.455		7-16-82		1136		2,831		
10	0.466		7-16-82		1139		2,699		
11	0.473		7-16-82		1141		2,940		
12	0.483		7-16-82		1145		3,372		
13	0.58	0.63	7-24-82	8-21-82	1154	1300	1,990	1,200	-0.21967
14	0.62	0.47	7-24-82	8-21-82	1156	1301	1,810	1,130	-0.20460
15	0.77	0.81	7-24-82	8-21-82	1200	1304	1,360	845	-0.20668
16	0.80	0.84	7-24-82	8-21-82	1204	1305	1,370	810	-0.22824
17	0.87	0.92	7-24-82	8-21-82	1215	1310	1,000	572	-0.24260
18	0.90	0.95	7-24-82	8-21-82	1217	1311	1,320	762	-0.23862
19	0.98	1.02	7-24-82	8-21-82	1210	1307	1,070	562	-0.27965
20	1.68	1.72	7-24-82	8-21-82	1225	1318	550	268	-0.31223
21	1.71	1.76	7-24-82	8-21-82	1227	1320	605	290	-0.31936
22	2.47		7-24-82	8-21-82	1240	1331	358	215	-0.22144
23	2.49		7-24-82	8-21-82	1241	1330	360	213	-0.22792
24	2.52		7-24-82	8-21-82	1243	1329	351	212	-0.21897
25	2.95		7-24-82	8-22-82	1248	0923	293	166	-0.24676
26	3.28		7-24-82	8-22-82	1251	0927	232	137	-0.22877
27	3.35		7-24-82	8-22-82	1258	0928	295	187	-0.19798
28	3.73		7-24-82	8-22-82	1301	0931	224	136	-0.21671
29	4.05		7-24-82	8-22-82	1305	0933	171	109	-0.19557
30	4.32		7-24-82	8-22-82	1309	0935	206	122	-0.22751

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

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TABLE 3 (CONTINUED)

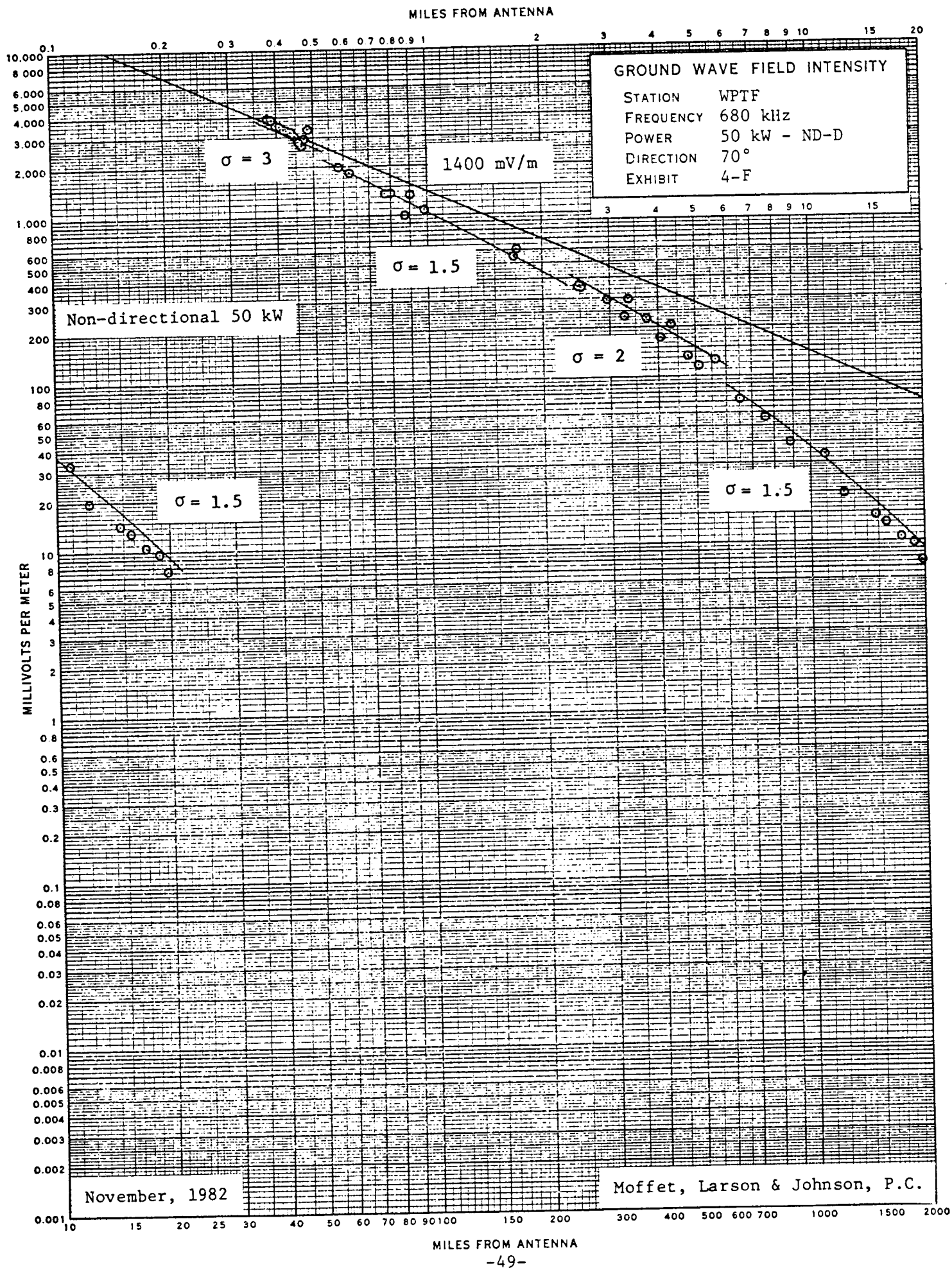
TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 70 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
31	4.77		7-24-82	8-22-82	1312	0939	132	88	-0.17609
32	5.09		7-24-82	8-22-82	1315	0942	116	77	-0.17797
33	5.61		7-24-82	8-22-82	1323	0945	126	84.5	-0.17351
34	6.50		7-24-82	8-22-82	1330	0949	73	45.2	-0.20818
35	7.58		7-24-82	8-22-82	1410	0955	56.2	33.5	-0.22469
36	8.88		7-24-82	8-22-82	1418	1002	40	22.2	-0.25571
37	10.81		7-24-82	8-22-82	1430	1009	33.8	19.6	-0.23666
38	12.22		7-24-82	8-22-82	1438	1014	19.6	11.5	-0.23156
39	14.75		7-24-82	8-22-82	1445	1023	14.3	9.6	-0.17306
40	15.68		7-24-82	8-22-82	1500	1028	13	9.4	-0.14082
41	17.31		7-24-82	8-22-82	1507	1033	10.6	6.7	-0.19923
42	18.71		7-24-82	8-22-82	1512	1038	9.7	5.6	-0.23858
43	19.66		7-24-82	8-22-82	1515	1041	7.6	4.49	-0.22857

AVERAGE LOG (RATIO)									-0.22251
AVERAGE RATIO									0.59909

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.



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TABLE 4

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 90 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
1	0.464		7-16-82		1258		2800		
2	0.473		7-16-82		1300		2769		
3	0.483		7-16-82		1302		2426		
4	0.492		7-16-82		1304		2123		
5	0.502		7-16-82		1306		2435		
6	0.511		7-16-82		1308		2515		
7	0.521		7-16-82		1310		2967		
8	0.52	0.58	7-25-82	8-22-82	0816	1127	2410	2270	-0.02599
9	0.54	0.60	7-25-82	8-22-82	0819	1130	2320	2215	-0.02011
10	0.55	0.62	7-25-82	8-22-82	0821	1129	2180	2050	-0.02670
11	0.66	0.72	7-25-82	8-22-82	0830	1135	1670	1720	0.01281
12	0.68	0.74	7-25-82	8-22-82	0839	1137	2030	2280	0.05044
13	0.70	0.76	7-25-82	8-22-82	0840	1138	1520	1540	0.00568
14	0.72	0.78	7-25-82	8-22-82	0845	1139	1540	1600	0.01660
15	0.72	0.79	7-25-82	8-22-82	0847	1140	1560	2020	0.11223
16	0.77	0.83	7-25-82	8-22-82	0850	1141	1510	1500	-0.00289
17	0.79	0.86	7-25-82	8-22-82	0857	1143	1490	1450	-0.01182
18	1.41	1.47	7-25-82	8-22-82	0907	1148	910	950	0.01868
19	1.43	1.49	7-25-82	8-22-82	0908	1149	810	845	0.01837
20	1.45	1.52	7-25-82	8-22-82	0910	1150	860	865	0.00252
21	2.33		7-25-82	8-22-82	0915	1156	420	398	-0.02337
22	2.43		7-25-82	8-22-82	0923	1157	341	360	0.02355
23	2.55		7-25-82	8-22-82	0928	1159	300	329	0.04007
24	2.99		7-25-82	8-22-82	0935	1200	293	271	-0.03390
25	3.69		7-25-82	8-22-82	0945	1205	282	305	0.03405
26	4.13		7-25-82	8-22-82	0947	1209	261	260	-0.00167
27	4.55		7-25-82	8-22-82	0949	1212	122	122	0.00000

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

WPTF(AM)
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TABLE 4 (CONTINUED)

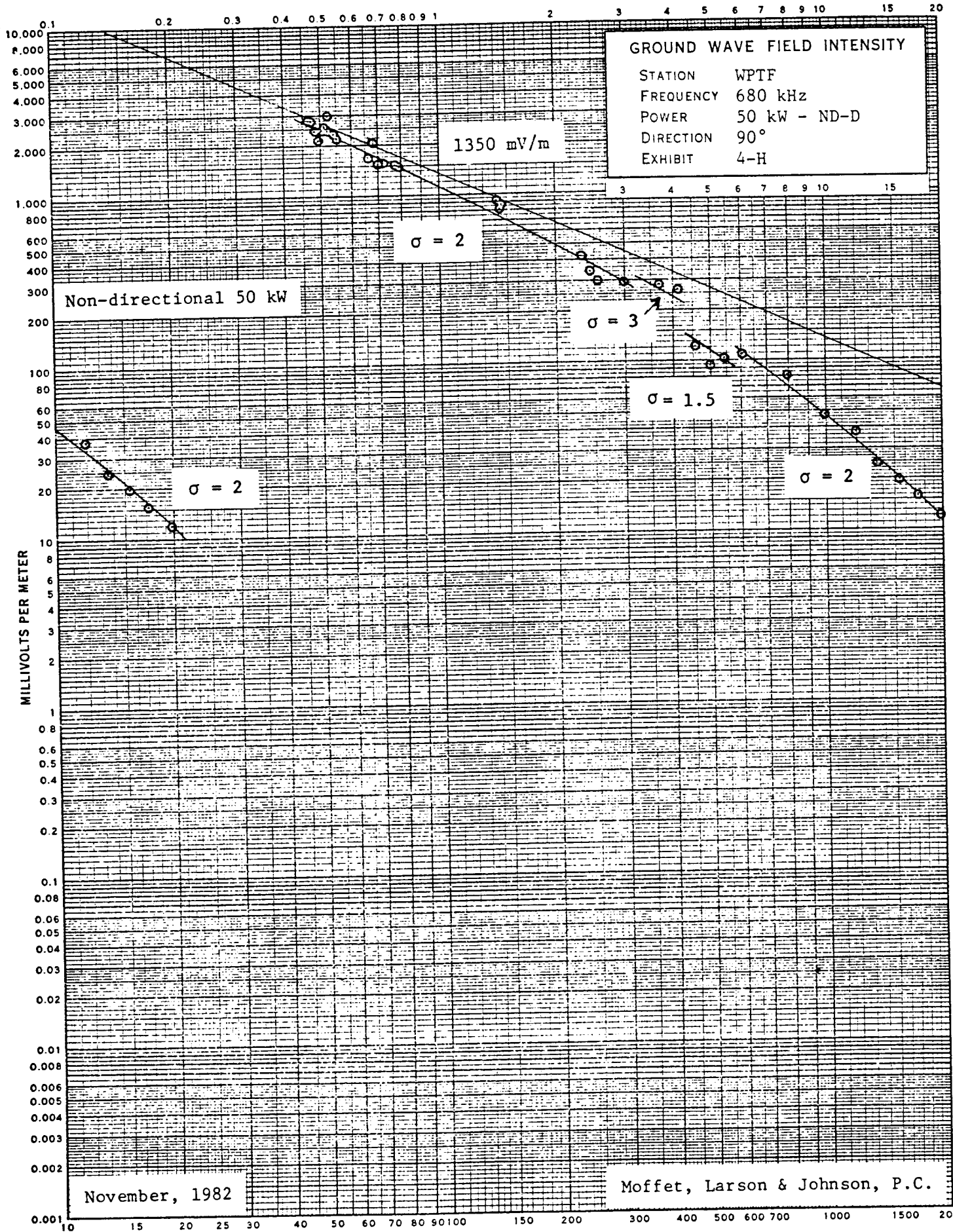
TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 90 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
28	4.97		7-25-82	8-22-82	0955	1215	94	80.5	-0.06733
29	5.42		7-25-82	8-22-82	0958	1218	103	123	0.07707
30	6.04		7-25-82	8-22-82	1005	1222	108	102	-0.02482
31	7.94		7-25-82	8-22-82	1040	1231	81	84	0.01579
32	9.92		7-25-82	8-22-82	1050	1242	47.5	49.6	0.01879
33	11.97		7-25-82	8-22-82	1059	1248	37.8	39.2	0.01579
34	13.56		7-25-82	8-22-82	1102	1252	24.5	26.5	0.03408
35	15.45		7-25-82	8-22-82	1115	1258	19.7	20.4	0.01516
36	17.25		7-25-82	8-22-82	1120	1306	15.6	16.3	0.01906
37	19.77		7-25-82	8-22-82	1135	1313	12.0	10.6	-0.05388
Average log (Ratio)									0.00794
Average Ratio									1.01846

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

MILES FROM ANTENNA



MILES FROM ANTENNA

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TABLE 5

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 120 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
1	0.189		7-16-82		1328		5873		
2	0.199		7-16-82		1330		5823		
3	0.208		7-16-82		1332		5062		
4	0.218		7-16-82		1333		3761		
5	0.227		7-16-82		1335		4832		
6	0.237		7-16-82		1336		5233		
7	0.246		7-16-82		1337		4199		
8	0.256		7-16-82		1338		2362		
9	0.265		7-16-82		1339		1848		
10	0.275		7-16-82		1340		1448		
11	0.288		7-16-82		1343		1995		
12	0.294		7-16-82		1346		2045		
13	0.303		7-16-82		1348		1483		
14	0.313		7-16-82		1350		2427		
15	0.322		7-16-82		1351		2688		
16	0.331		7-16-82		1353		3659		
17	0.350		7-16-82		1356		3128		
18	0.369		7-16-82		1358		2983		
19	0.53	0.60	7-25-82	8-23-82	1528	1325	2350	2790	0.07454
20	0.58	0.64	7-25-82	8-23-82	1525	1318	2310	2810	0.08509
21	0.60	0.67	7-25-82	8-23-82	1523	1320	1870	2200	0.07058
22	0.63	0.70	7-25-82	8-23-82	1522	1321	2030	2480	0.08696
23	0.92	0.98	7-25-82	8-22-82	1541	1527	1370	1610	0.07011
24	1.03	1.10	7-25-82	8-22-82	1540	1525	1230	1460	0.07445
25	1.13	1.20	7-25-82	8-22-82	1537	1524	990	1220	0.09072
26	1.34	1.41	7-25-82	8-22-82	1535	1522	890	1010	0.05493
27	1.46	1.52	7-25-82	8-22-82	1532	1521	710	885	0.09568
28	1.58	1.65	7-25-82	8-22-82	1530	1520	602	740	0.08964
29	1.99		7-25-82	8-22-82	1517	1516	450	532	0.07270

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

WPTF(AM)
Raleigh, North Carolina

TABLE 5 (CONTINUED)

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

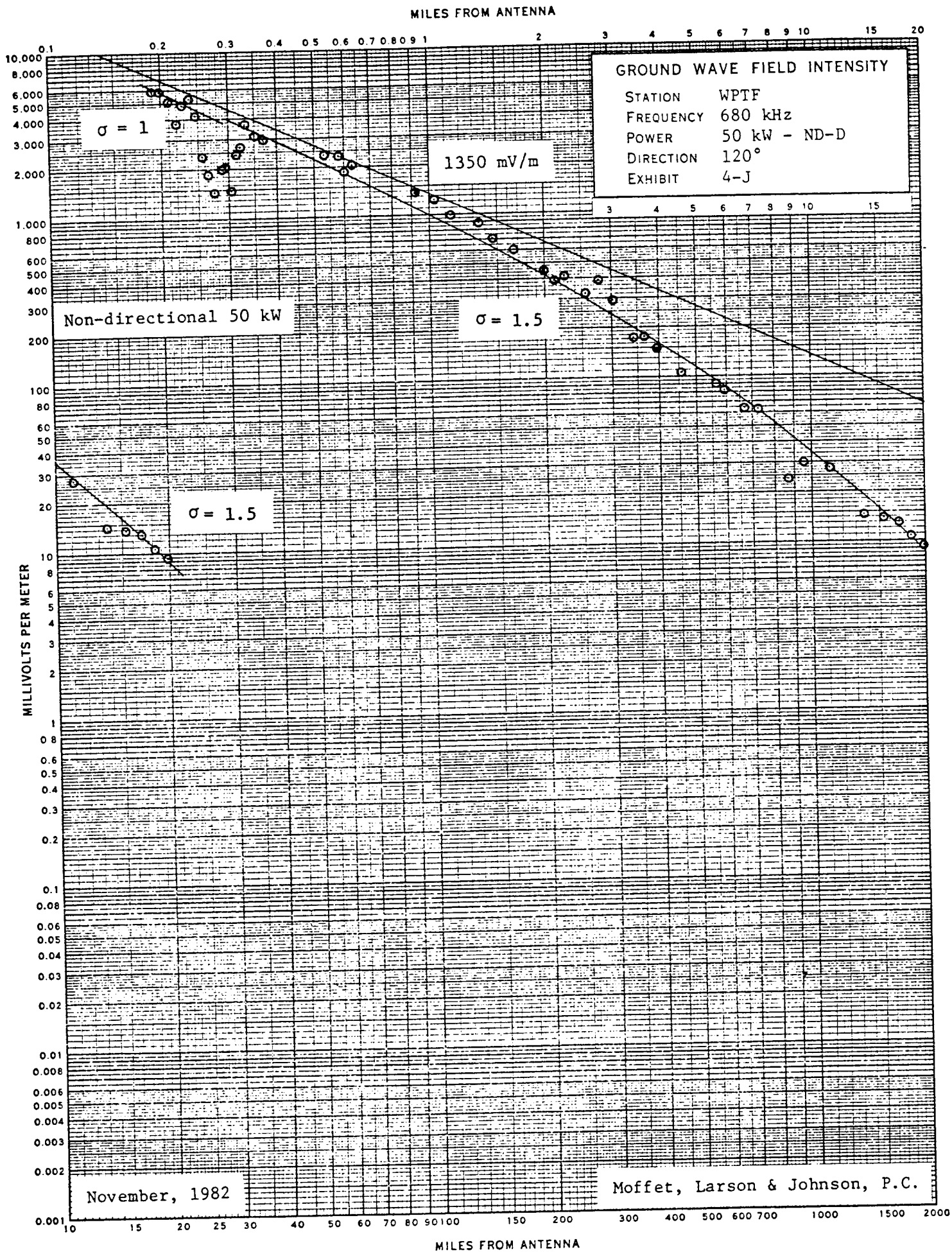
RADIAL 120 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
30	2.12		7-25-82	8-22-82	1512	1513	392	503	0.10828
31	2.25		7-25-82	8-22-82	1505	1511	410	510	0.09479
32	2.56		7-25-82	8-22-82	1502	1508	322	463	0.15773
33	2.77		7-25-82	8-22-82	1500	1506	385	521	0.13138
34	3.03		7-25-82	8-22-82	1457	1502	290	380	0.11739
35	3.41		7-25-82	8-22-82	1450	1500	171	227	0.12303
36	3.66		7-25-82	8-22-82	1443	1458	175	240	0.13717
37	3.95		7-25-82	8-22-82	1435	1456	148	194	0.11754
38	4.57		7-25-82	8-22-82	1430	1452	106	128	0.08190
39	5.61		7-25-82	8-22-82	1405	1444	90	117	0.11394
40	5.93		7-25-82	8-22-82	1345	1441	82	107	0.11557
41	6.69		7-25-82	8-22-82	1338	1435	64.5	85	0.11986
42	7.27		7-25-82	8-22-82	1330	1427	63.5	94	0.17035
43	8.67		7-25-82	8-22-82	1315	1419	24	49	0.30998
44	9.51		7-25-82	8-22-82	1305	1415	30	41.8	0.14406
45	11.16		7-25-82	8-22-82	1255	1408	27.7	38.9	0.14747
46	13.67		7-25-82	8-22-82	1247	1402	14.4	20.6	0.15550
47	15.42		7-25-82	8-22-82	1245	1359	13.8	21.3	0.18850
48	16.91		7-25-82	8-22-82	1212	1346	13.0	18.8	0.16021
49	18.33		7-25-82	8-22-82	1202	1339	10.7	14.9	0.14380
50	19.79		7-25-82	8-22-82	1156	1333	9.4	7.1	-0.12187

Average log (Ratio) 0.11194

Average Ratio 1.29401

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.



WPTF(AM)
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TABLE 14

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 341.4 DEGREES TRUE

POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO	
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA		
1	0.147		7-20-82		1210		9,340			
2	0.157		7-20-82		1213		8,440			
3	0.166		7-20-82		1215		7,987			
4	0.176		7-20-82		1217		7,784			
5	0.185		7-20-82		1223		7,504			
6	0.195		7-20-82		1227		7,271			
7	0.204		7-20-82		1230		6,639			
8	0.214		7-20-82		1232		6,807			
9	0.223		7-20-82		1235		6,266			
10	0.232		7-20-82		1237		6,243			
11	0.242		7-20-82		1240		5,842			
12	0.251		7-20-82		1242		5,924			
13	0.261		7-20-82		1245		5,199			
14	0.270		7-20-82		1247		4,641			
15	0.289		7-20-82		1248		4,162			
16	0.308		7-20-82		1250		3,951			
17	0.327		7-20-82		1255		3,488			
18	0.346		7-20-82		1257		3,128			
19	0.365		7-20-82		1302		3,033			
20	0.384		7-20-82		1305		2,606			
21	0.403		7-20-82		1307		2,311			
22	0.422		7-20-82		1309		2,329			
23	0.441		7-20-82		1310		2,267			
24	0.460		7-20-82		1312		2,105			
25	0.479		7-20-82		1315		2,355			
26	0.498		7-20-82		1320		2,082			
27	0.63	0.58	7-31-82	8-18-82	1146	0903	1,600	1070	-0.17474	
28	0.64	0.60	7-31-82	8-18-82	1147	0904	1,710	1110	-0.18767	
29	0.70	0.65	7-31-82	8-18-82	1152	0907	1,450	940	-0.18824	
30	0.77	0.72	7-31-82	8-18-82	1208	0930	1,720	1160	-0.17107	

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

WPTF(AM)
Raleigh, North Carolina

TABLE 14 (CONTINUED)

TABULATION OF NON DIRECTIONAL AND DIRECTIONAL FIELD INTENSITY
MEASUREMENT DATA AND LOG RATIO

RADIAL 341.4 DEGREES TRUE

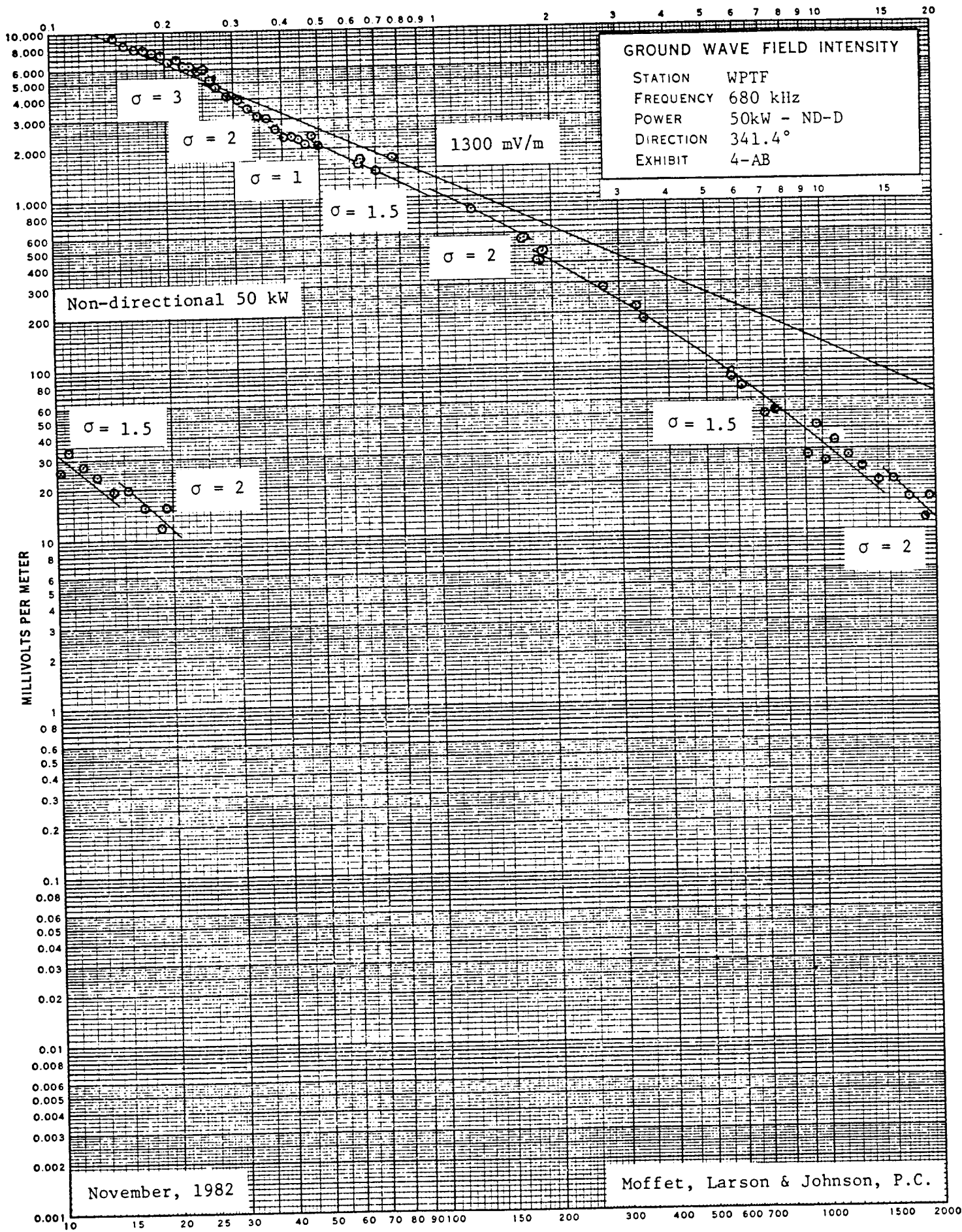
POINT NO.	DISTANCE * (Miles)		DATE		TIME		FIELD (mV/m)		LOG RATIO
	NON-D	DA	NON-D	DA	NON-D	DA	NON-D	DA	
31	0.92	0.87	7-31-82	8-18-82	1212	0932	1,150	758	-0.18103
32	1.22	1.17	7-31-82	8-18-82	1217	0935	830	471	-0.24606
33	1.66	1.61	7-31-82	8-18-82	1222	0946	550	320	-0.23521
34	1.69	1.64	7-31-82	8-18-82	1224	0947	561	315	-0.25065
35	1.83	1.78	7-31-82	8-18-82	1230	0940	410	228	-0.25485
36	1.86	1.81	7-31-82	8-18-82	1234	0946	408	236	-0.23775
37	1.88	1.83	7-31-82	8-18-82	1238	0942	462	269	-0.23489
38	1.90	1.85	7-31-82	8-18-82	1237	0944	470	271	-0.23913
39	2.72		7-31-82	8-18-82	1245	0951	262	153	-0.23361
40	3.32		7-31-82	8-18-82	1300	1000	217	132	-0.21589
41	3.47		7-31-82	8-18-82	1252	0954	183	116	-0.19799
42	5.79	51	7-31-82	8-18-82	1308	1008	81	45	-0.25527
43	6.17		7-31-82	8-18-82	1315	1012	72	40.5	-0.24988
44	7.06		7-31-82	8-18-82	1320	1016	49.5	27.5	-0.25527
45	7.50		7-31-82	8-18-82	1328	1017	51.0	28.9	-0.24667
46	9.15		7-31-82	8-18-82	1333	1021	28.0	18.2	-0.18709
47	9.62		7-31-82	8-18-82	1337	1023	41.5	22.8	-0.26011
48	10.17		7-31-82	8-18-82	1343	1028	25.5	15.8	-0.20788
49	10.74		7-31-82	8-18-82	1347	1030	33.5	20.8	-0.20698
50	11.72		7-31-82	8-18-82	1352	1035	27.5	15.6	-0.24621
51	12.73		7-31-82	8-18-82	1357	1039	23.9	12.8	-0.27119
52	14.02		7-31-82	8-18-82	1406	1045	19.5	12.2	-0.20367
53	15.38		7-31-85	8-18-82	1415	1052	19.9	11.6	-0.23440
54	16.91		7-31-82	8-18-82	1423	1058	15.5	15.5	-0.24094 9.0
55	18.67		7-31-82	8-18-82	1432	1116	11.8	6.1	-0.28655
56	19.28		7-31-82	8-18-82	1436	1120	15.6	9.6	-0.21085

Average log (Ratio) -0.22706

Average Ratio 0.59285

* Note: Where Non-D and DA distances are equal no figure is given for DA
see Engineering Statement for details.

MILES FROM ANTENNA



MILES FROM ANTENNA