

**Exhibit 15.5**  
**KMUR 1570 KHZ**

**TABULATION OF DATA EMPLOYED IN CALCULATION  
OF GROUNDWAVE CONTOURS**

**Part 4**

Station: KYAL 1550 kHz 36-01-08 96-05-55									
Distances are from Site to Conductivity Breaks									
AZIMUTH	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM	
-----									
0	8	42.6	30	419.9	15	450.0			
5	8	41.9	30	450.0					
10	8	9.8	15	42.3	30	271.2	15	447.7	
	30	450.0							
15	8	4.3	15	47.3	30	193.9	15	450.0	
20	8	2.8	15	55.9	30	160.6	15	450.0	
25	8	2.0	15	69.0	30	143.1	15	450.0	
30	-8	8.0	-7	58.0	-6	89.0	-4	125.0	
	-3	147.3	15	450.0					
35	-8	16.0	-7	58.0	-6	89.0	-4	125.0	
	-3	147.3	15	450.0					
40	-8	16.0	-7	58.0	-6	89.0	-4	125.0	
	-3	147.3	15	450.0					
45	-8	16.0	-7	58.0	-6	89.0	-4	125.0	
	-3	147.3	15	292.6	8	433.3	15	447.0	
	8	450.0							
50	-8	16.0	-7	58.0	-6	89.0	-4	125.0	
	-3	147.3	15	163.4	8	450.0			
55	-10	3.2	-6	26.0	-5	30.0	-4	33.0	
	-3	80.0	-2	151.3	8	450.0			
60	-10	3.2	-6	26.0	-5	30.0	-4	33.0	
	-3	80.0	-2	151.3	8	450.0			
65	-10	3.2	-6	26.0	-5	30.0	-4	33.0	
	-3	80.0	-2	151.3	8	450.0			
70	-10	3.2	-6	26.0	-5	30.0	-4	33.0	
	-3	80.0	-2	151.3	8	450.0			
75	-10	15.5	-8	19.0	-7	24.0	-8	29.0	
	-7	35.0	-5	49.0	-4	140.0	-5	155.0	
	-4	205.4	8	450.0					
80	-10	15.5	-8	19.0	-7	24.0	-8	29.0	
	-7	35.0	-5	49.0	-4	140.0	-5	155.0	
	-4	205.4	8	450.0					
85	-10	15.5	-8	19.0	-7	24.0	-8	29.0	
	-7	35.0	-5	49.0	-4	140.0	-5	155.0	
	-4	205.4	8	450.0					
90	-10	15.5	-8	19.0	-7	24.0	-8	29.0	
	-7	35.0	-5	49.0	-4	140.0	-5	155.0	
	-4	205.4	8	450.0					
95	-7	11.5	-8	45.0	-7	115.0	-6	180.0	
	-5	250.1	8	450.0					
100	-7	11.5	-8	45.0	-7	115.0	-6	180.0	
	-5	250.1	8	450.0					
105	-7	11.5	-8	45.0	-7	115.0	-6	180.0	
	-5	250.1	8	450.0					
110	-7	11.5	-8	45.0	-7	115.0	-6	180.0	
	-5	250.1	15	258.1	4	442.8	8	450.0	

Station: KYAL			1550 kHz		36-01-08		96-05-55	
AZIMUTH	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM
115	-10	14.0	-7	52.0	-6	80.0	-5	100.0
	-4	250.5	15	255.5	4	450.0		
120	-10	14.0	-7	52.0	-6	80.0	-5	100.0
	-4	250.5	8	450.0				
125	-10	14.0	-7	52.0	-6	80.0	-5	100.0
	-4	250.5	15	253.2	4	450.0		
130	-8	29.0	-6	44.0	-7	90.0	-5	100.0
	-4	112.0	-3	190.0	-2	230.3	4	450.0
135	-8	29.0	-6	44.0	-7	90.0	-5	100.0
	-4	112.0	-3	190.0	-2	230.3	4	450.0
140	-8	29.0	-6	44.0	-7	90.0	-5	100.0
	-4	112.0	-3	190.0	-2	230.3	15	267.2
	4	419.4	15	450.0				
145	8	1.0	15	259.2	4	405.2	15	450.0
150	8	1.1	15	241.7	4	353.0	8	414.7
	15	450.0						
155	8	1.3	15	230.0	4	332.9	8	450.0
160	8	1.5	15	239.9	30	252.0	4	322.1
	8	450.0						
165	8	1.8	15	240.6	30	280.1	4	316.3
	8	450.0						
170	8	2.4	15	245.2	30	314.2	8	450.0
175	8	3.4	15	251.0	30	360.3	8	450.0
180	8	6.2	15	258.0	30	421.1	8	446.2
	4	450.0						
185	8	25.1	15	266.2	30	435.5	15	450.0
190	8	38.4	15	264.9	30	423.6	15	450.0
195	8	49.1	15	261.2	30	319.8	15	450.0
200	8	60.2	15	197.1	30	229.7	15	259.5
	30	298.6	15	450.0				
205	8	67.3	15	155.3	30	310.4	15	450.0
210	8	72.1	15	138.9	30	322.9	15	450.0
215	8	76.4	15	130.4	30	340.8	15	450.0
220	8	79.7	15	128.7	30	432.8	15	450.0
225	8	83.5	15	130.3	30	450.0		
230	8	85.5	15	136.2	30	278.2	15	318.8
	30	450.0						
235	8	88.4	15	143.8	30	251.4	15	351.0
	30	450.0						
240	8	90.4	15	144.7	30	154.7	15	354.5
	30	450.0						
245	8	93.2	15	138.7	30	172.4	15	376.9
	30	450.0						
250	8	96.8	15	135.2	30	192.3	15	396.9
	30	450.0						
255	8	96.4	30	103.1	15	129.4	30	201.6
	15	414.5	30	450.0				

Station: KYAL			1550 kHz		36-01-08		96-05-55	
AZIMUTH	mS/m	KM	mS/m	KM	mS/m	KM	mS/m	KM
260	8	90.4	30	210.4	15	436.0	30	450.0
265	8	85.7	30	221.8	15	374.4	30	450.0
270	8	82.0	30	236.3	15	349.5	30	450.0
275	8	79.4	30	255.4	15	344.5	30	450.0
280	8	78.1	30	282.7	15	351.7	30	450.0
285	8	77.4	30	327.2	15	351.5	30	450.0
290	8	77.3	30	450.0				
295	8	77.8	30	439.6	15	450.0		
300	8	78.9	30	430.1	15	450.0		
305	8	80.7	30	473.5				
310	8	84.4	30	450.0				
315	8	75.1	30	450.0				
320	8	67.5	30	450.0				
325	8	61.8	30	450.0				
330	8	57.0	30	450.0				
335	8	52.9	30	395.4	15	450.0		
340	8	49.6	30	377.2	15	450.0		
345	8	47.1	30	379.7	15	450.0		
350	8	45.2	30	387.7	15	450.0		
355	8	43.7	30	400.0	15	450.0		

Negative mS/m are MEASURED Conductivity Values

Measured data for KYAL was obtained from the Commission's files. This data was accepted by the Commission in file number 870324AA (application of KXOJ (KYAL) for a construction permit to increase power from .5 to 2.5 kW.) Distances to the conductivity breaks were taken from the processing engineer's notes contained in that file and were confirmed by reference to the conductivity graphs on file.

BROADCAST CONSULANT  
AM - FM - TV

TABCON  
WILLIAM E. DAVIS, P.E.  
12856 S. 114th E. Ave.  
BROKEN ARROW, OKLAHOMA, 74011

TELEPHONE  
918-369-2559

FIELD STRENGTH DATA

FIELD SET TYPE RCA MODEL WX-2D SERIAL NO. 1418

DATE FACTORY CALIBRATED AUGUST, 1975

PAGE NO. 51

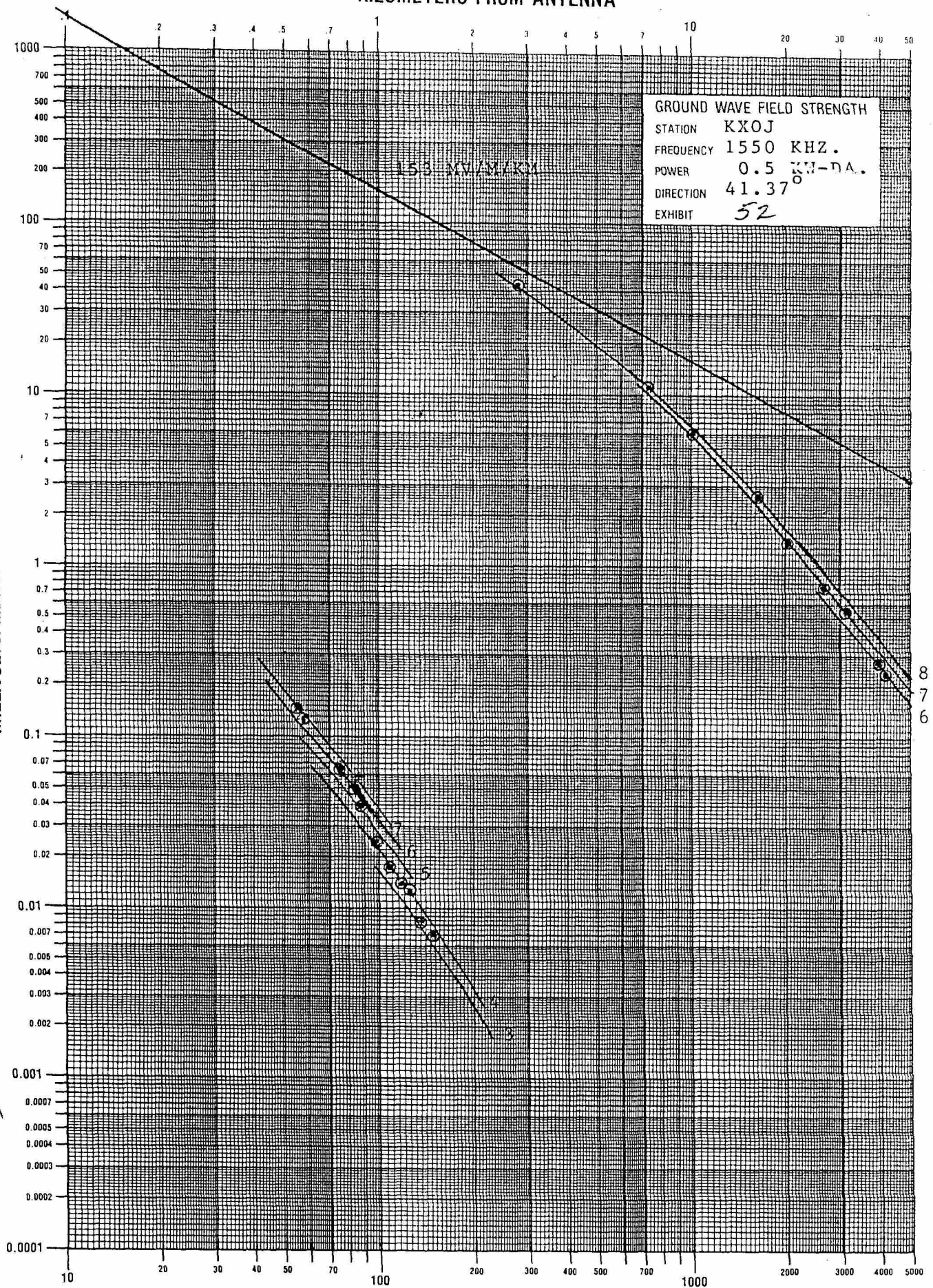
FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 41.37° FREQUENCY 1550 KHZ. POWER 0.5 KW-DA

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
1	2.74	43	6:00 PM	7/2/86	
2	7.24	11	5:45		
3	10.14	6.1	5:25		
4	16.41	2.6	5:15		
5	20.92	1.4	5:00		
6	27.36	0.75	4:50		
7	31.86	0.55	4:40		
8	35.73	0.49	4:25		
9	39.91	0.28	4:15		
10	42.65	0.24	4:00		
11	54.72	0.15	3:45		
12	58.26	0.12	3:35		
13	75.32	0.065	3:25		
14	84.0	0.05	3:10		
15	89.80	0.04	3:00		
16	98.48	0.025	2:50		
17	109.75	0.018	2:45		
18	119.57	0.014	2:35		
19	124.24	0.013	2:20		
20	134.22	0.0085	2:00		
21	147.25	0.007	1:40		

# KILOMETERS FROM ANTENNA

MILLIVOLTS/METER



Graphs and graph paper should not be copied. Office copiers introduce geometric distortions which will affect accuracy. Copies for submission to the FCC and station files should only be made after all data have been plotted.

KILOMETERS FROM ANTENNA

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DATE FACTORY CALIBRATED AUGUST, 1975

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FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 61.37° FREQUENCY 1550 KHZ. POWER 0.5 KW-DA

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
1	0.80	200	8:45 AM	7/4/86	
2	0.97	180	5:50		
3	1.13	140	8:55		
4	1.28	110	9:00		
5	1.44	105	9:05		
6	1.60	90	9:10		
7	1.77	85	9:20		
8	1.93	80	9:25		
9	2.09	75	9:30		
10	2.25	70	9:35		
11	2.41	65	9:40		
12	2.57	58	9:45		
13	2.74	53	9:50		
14	2.89	50	10:00		
15	3.05	48	10:05		
16	3.21	45	10:10		
17	7.24	11.0	10:30		
18	9.65	7.0	10:40		
19	11.26	5.8	10:45		
20	14.16	3.0	11:00		
21	21.24	1.3	11:05		

BROADCAST CONSULANT  
AM - FM - TV

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FIELD STRENGTH DATA

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DATE FACTORY CALIBRATED AUGUST, 1975

PAGE NO. 54

FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 61.37° FREQUENCY 1550 KHZ. POWER 0.5 KW-DA

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
22	26.39	0.9	11:15 AM	7/4/86	
23	30.73	0.5	11:30		
24	33.47	0.32	11:35		
25	41.84	0.14	11:40		
26	54.71	0.08	11:55		
27	64.05	0.06	12:05		
28	73.06	0.046	12:20		
29	80.14	0.035	12:30		
30	87.86	0.024	12:40		
31	93.33	0.02	12:50		
32	100.42	0.016	12:58		
33	106.85	0.014	1:20		
34	110.23	0.013	10:00 AM	2/25/87	
35	119.73	0.012	10:30		
36	123.91	0.0098	11:00		
37	134.21	0.009	11:20		
38	151.27	0.0047	11:40		



BROADCAST CONSULANT  
AM - FM - TV

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FIELD STRENGTH DATA

FIELD SET TYPE RCA MODEL WX-2D SERIAL NO. 1418

DATE FACTORY CALIBRATED AUGUST, 1975

PAGE NO. 56

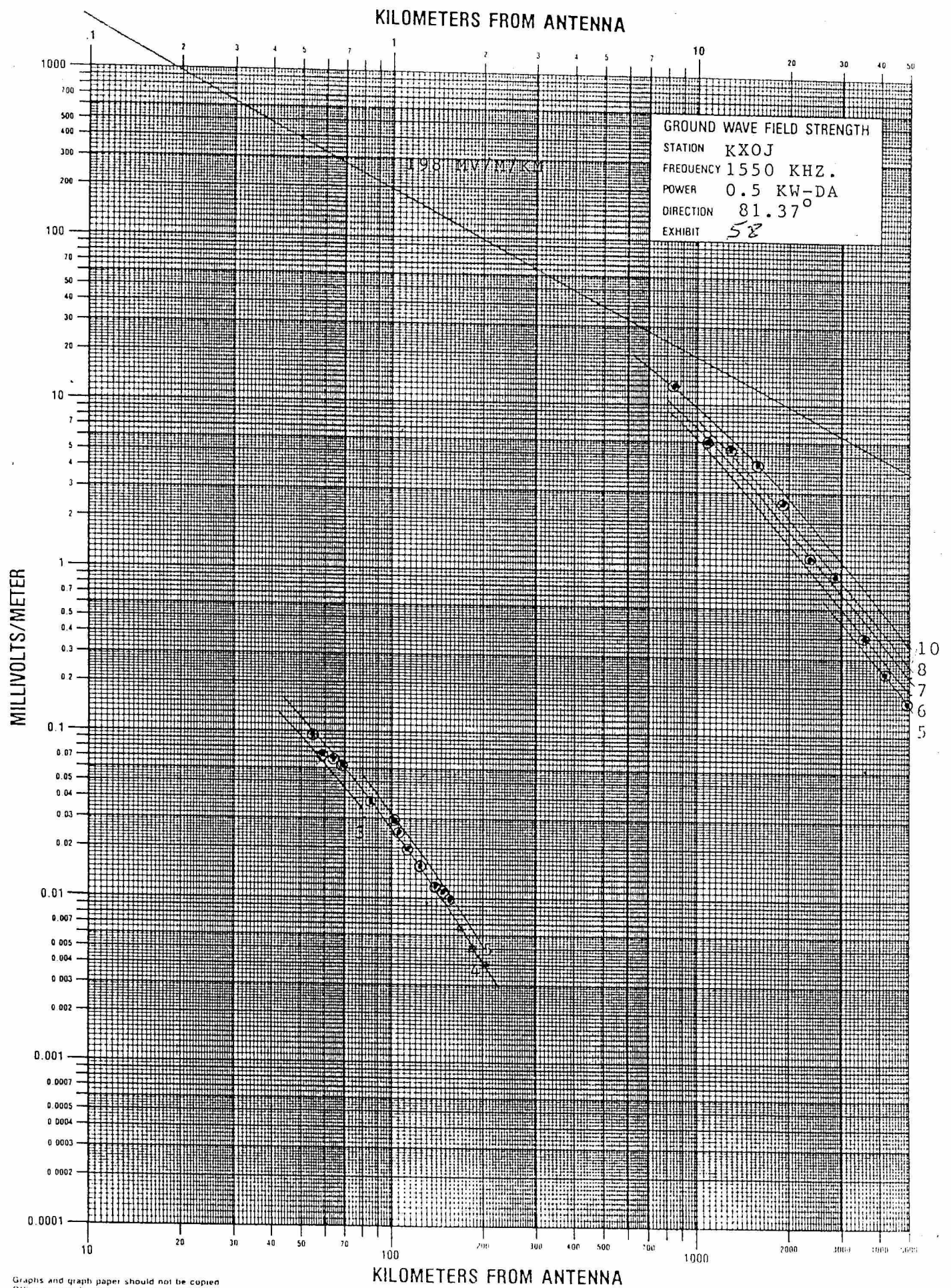
FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 81.37° FREQUENCY 1550 KHZ. POWER 0.5 KW.-DA.

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
1	8.04	13	9:30	7/3/86	
2	10.94	6.6	9:40		
3	12.87	5.5	10:00		
4	15.93	4.4	10:15		
5	19.15	2.6	10:30		
6	23.82	1.2	10:40		
7	29.29	0.95	10:50		
8	35.40	0.4	11:05		
9	41.84	0.24	11:20		
10	49.89	0.16	11:35		
11	54.88	0.095	11:45		
12	59.87	0.075	11:55		
13	64.69	0.068	12:10		
14	69.52	0.064	12:20		
15	85.29	0.038	12:40		
16	101.39	0.029	12:55		
17	106.86	0.025	1:15		
18	113.46	0.02	1:25		
19	124.24	0.016	1:40		
20	139.37	0.012	1:55		
21	146.45	0.011	2:10		

TELEPHONE  
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[illegible]



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BROADCAST CONSULANT  
AM - FM - TV

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FIELD STRENGTH DATA

FIELD SET TYPE RCA MODEL WX-2D SERIAL NO. 1418

DATE FACTORY CALIBRATED AUGUST, 1975

PAGE NO. 59

FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 102.8° FREQUENCY 1550 KHZ. POWER 0.5 KW-DA

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
1	0.80	310	8:15 AM	4/11/86	
2	0.97	230	8:20		
3	1.13	180	8:25		
4	1.29	165	8:30		
5	1.45	150	8:40		
6	1.61	130	8:45		
7	1.77	120	8:50		
8	1.93	110	8:55		
9	2.09	105	9:00		
10	2.25	90	9:10		
11	2.41	80	9:20		
12	2.57	75	9:25		
13	2.74	70	9:30		
14	2.9	65	9:40		
15	3.06	60	9:45		
16	3.22	55	9:55		
17	3.70	40	10:00		
18	6.44	21	10:15		
19	8.21	14	10:20		
20	11.43	7.0	10:30		
21	18.02	3.2	10:40		

BROADCAST CONSULTANT  
AM - FM - TV

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TELEPHONE  
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FIELD STRENGTH DATA

FIELD SET TYPE RCA MODEL WX-2D SERIAL NO. 1418

DATE FACTORY CALIBRATED AUGUST, 1975

PAGE NO. 60

FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 102.8° FREQUENCY 1550 KHZ. POWER 0.5 KW.-DA.

POINT NO.	DISTANCE IN KILO-METERS	MV/M/KM	TIME	DATE	COMMENTS
22	21.24	2.2	10:50 AM	4/11/86	
23	24.62	1.7	10:55		
24	31.06	1.1	11:00		
25	36.21	0.65	11:15		
26	41.04	0.48	11:20		
27	46.19	0.34	11:30		
28	50.21	0.3	11:40		
29	54.23	0.27	11:50		
30	57.93	0.22	12:05 PM		
31	64.37	0.17	12:20		
32	68.72	0.15	12:30		
33	78.21	0.095	3:45	3/1/87	
34	93.0	0.07	10:30 AM	3/10/87	
35	106.0	0.05	11:00		
36	115.2	0.04	11:40		
37	125.1	0.028	11:58		
38	140.22	0.020	12:20 PM		
39	160.11	0.014	1:00		
40	180.20	0.010	1:50		
41	205.1	0.006	2:25		
42	215.01	0.005	2:45		

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### FIELD STRENGTH DATA

FIELD SET TYPE RCA MODEL WX-2D SERIAL NO. 1418

DATE FACTORY CALIBRATED AUGUST, 1975

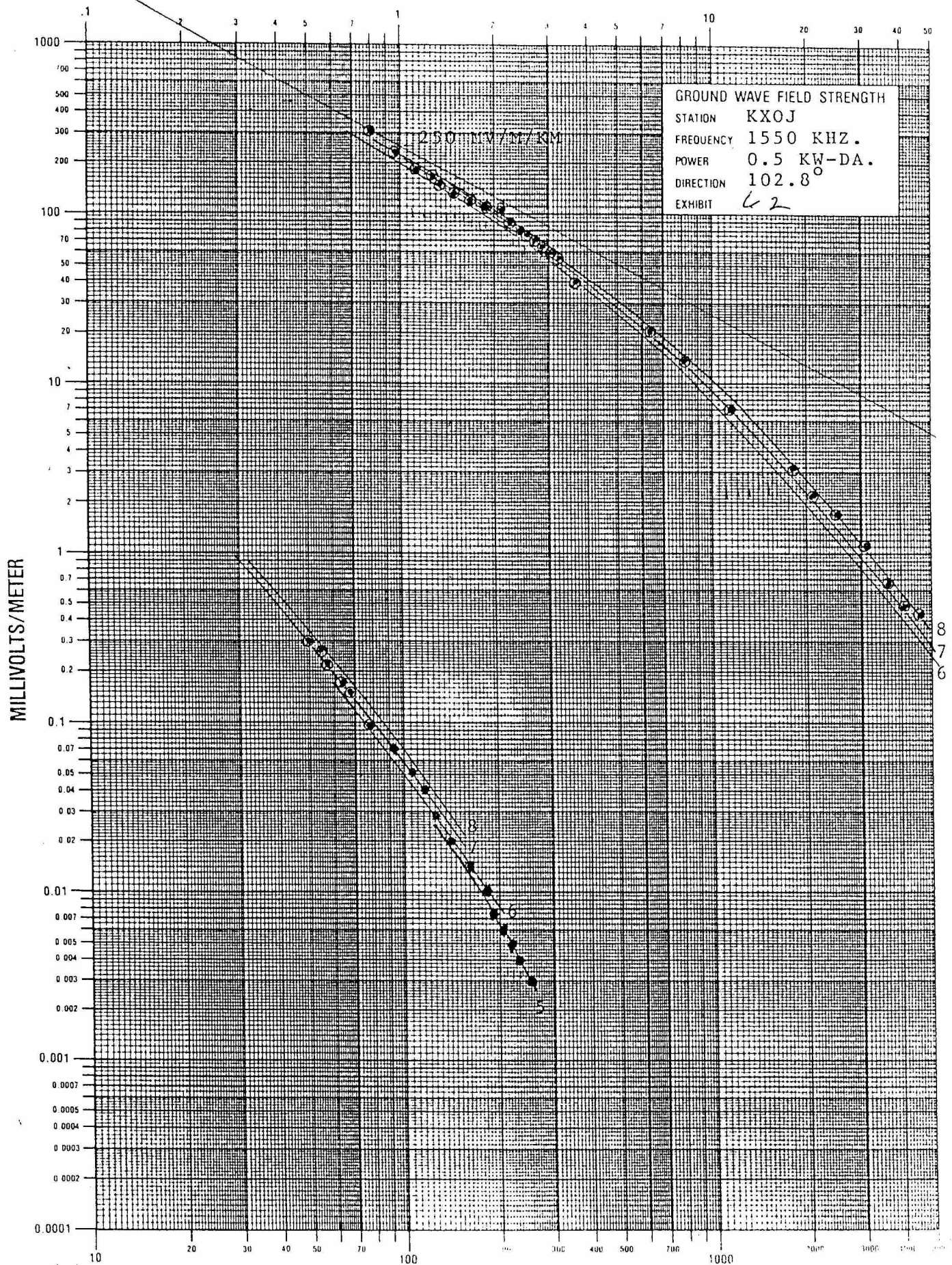
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FIELD MEASUREMENTS MADE ON RADIO STATION KXOJ, SAPULPA, OKLAHOMA

RADIAL 102.8 FREQUENCY 1550 KHZ. POWER 0.5 KW-DA.

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