

EXHIBIT E

POWER CALCULATIONS AT LANCASTER

The Z_{ant} was measured with a GR Bridge model 606B and a Potomac Signal Generator and detector model 31. The antenna impedance was measured as:

$$Z_{(\text{ant. 1690})} = 40 - j23.7\Omega$$

The radiated power was set by the FCC as 1000 Watts.

The $I_{(\text{ant. 1690})}$ was calculated by:

$$I = (P)^{1/2}/R = (1000/40)^{1/2} = 5.0 \text{ amp}$$

$$P = I^2R = (5)^2 40 = 1000 \text{ Watts}$$

The $I_{\text{ant.}}$ was monitored and recorded each 15 minutes. This data is located within the logs of Exhibit N.

EXHIBIT E

KAFY Oildale POWER

KAFY's transmitter power was taken from the
FCC Data file Base:

DAY: $P_o = 4.2 \text{ kW}$

Ant. = Non-DA

The Station's Licensed Operation was assumed to be accurate.

See attached excerpt from FCC Data Base.



KAFY Power
10.19.2004

Audio Division

AM Query & AM List Results

(202)-418-2700

[FCC](#) > [MB](#) > [Audio Division](#) > [AM Query](#)

[FM Query](#)

[TV Query](#)

[FCC s](#)

AM Query and AM List results are derived from the public files at <http://www.fcc.gov/mb/databases/cdbs>. Requests to correct data should be referred to [Son Nguyen, son.nguyen@fcc.gov](mailto:son.nguyen@fcc.gov). Comments on the AM Query may be referred to [Dale Bickel, dale.bickel@fcc.gov](mailto:dale.bickel@fcc.gov).

Sun Oct 17 09:58:11 2004 Eastern time

Search Parameters

Callsign: KAFY
State: CA
Lower Frequency: 530
Upper Frequency: 1700

Next Record

KAFY CA BAKERSFIELD USA
Daytime

Licensee: KAFY, INC.

1100 kHz Licensed
Domestic Station Class: B Region 2 Station Class (corresponds to W. Hemisphere): B
Coordination Status: Canada: - Mexico: - Region 2: -
File No: BL-20000621AFK Facility ID No.: 36027
CDBS Application ID No.: 505384

35° 27' 0.00 " N Latitude Power: 4.2 kilowatts (kW) Daytime
118° 56' 48.00" W Longitude (NAD 27)

DAN - Directional Antenna: Nighttime only
Number of Augmentations to standard directional pattern: 0
RMS Standard: 0.00 mV/m at 1 kilometer
RMS Theoretical: 313.50 mV/m at 1 kilometer

1 tower CDBS Ant. System ID: 70087

Tower information:

Tower No.	Field Ratio	Phase (deg)	Spacing (deg)	Orientation (degrees)	Electrical Height (deg)	Twr Ref.	-No Top (#0)	Loaded or Sectionalized Tower(s)- A	B	C	D	Antenna Struct Registration No.
1	1.000	0.00	0.00	0.00	102.10	0	0.00	0.00	0.00	0.00	0.00	1057537

Additional Individual Tower Information from the Antenna Structure Registration database.

Use the Registration Number links for detailed information

Tower No.	ASRN	Site Elevation (meters)	Overall Height Above Ground (meters)	Overall Height Above Mean Sea Level (meters)	NAD 83 Tower Coordinates			Convert to NAD 27
					Latitude	Longitude		
1	1057537	161.5	78.8	240.3	N 35° 27' 0.0 "	W 118° 56' 51.0"	To NAD27	

Approximate Sunrise & Sunset Times => Pacific time zone

CDBS: [Station Info](#) [Application Info](#) [Mailing Address](#) [Assignments and Transfers](#)
[Application List](#) [CDBS Search Page](#) [Ownership Info](#) [EEO](#)
Maps: [Region Map](#) [Area Map](#) [Local Map](#)

EXHIBIT **F**

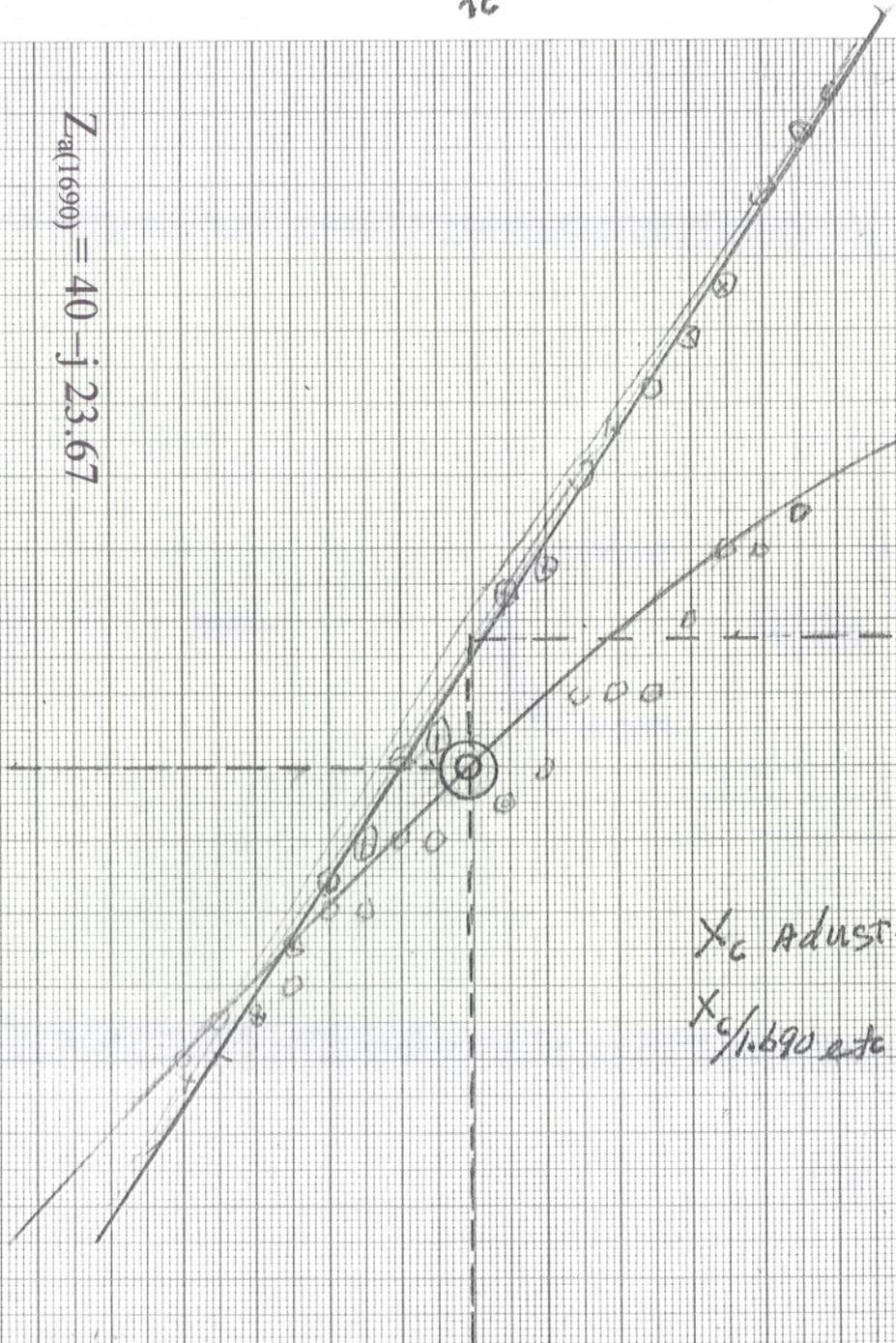
**Antenna Impedance Measurements by John Bartal
Under the direction of Norwood J. Patterson.
John Bartal is the transmitter maintenance
technician for KGDP 660 AM.**

<u>Meas. No.</u>	<u>Fc MHz</u>	<u>R Ω</u>	<u>-jXc RawΩ</u>	<u>-jXc/fcmh Corr.Ω</u>
1	1.650	36	-j19	-j11.52
2	1.660	37	-j22	-j13.25
3	1.670	38	-j28	-j16.77
4	1.680	39	-j34	-j20.18
5 f _{cc}	1.690	40	-j40	-j23.67
6	1.700	40	-j45	-j25.42
7	1.710	41	-j50	-j29.24
8	1.720	42	-j55	-j31.98
9	1.730	43	-j62	-j35.84
10	1.740	44	-j67	-j38.51

1690 kHz
 f_c

X/f_c
40-j
38
36
34
32
30
28
26
24
-j23
22
20
18
16
14
12
-j10
 X/f_c
-2
-5

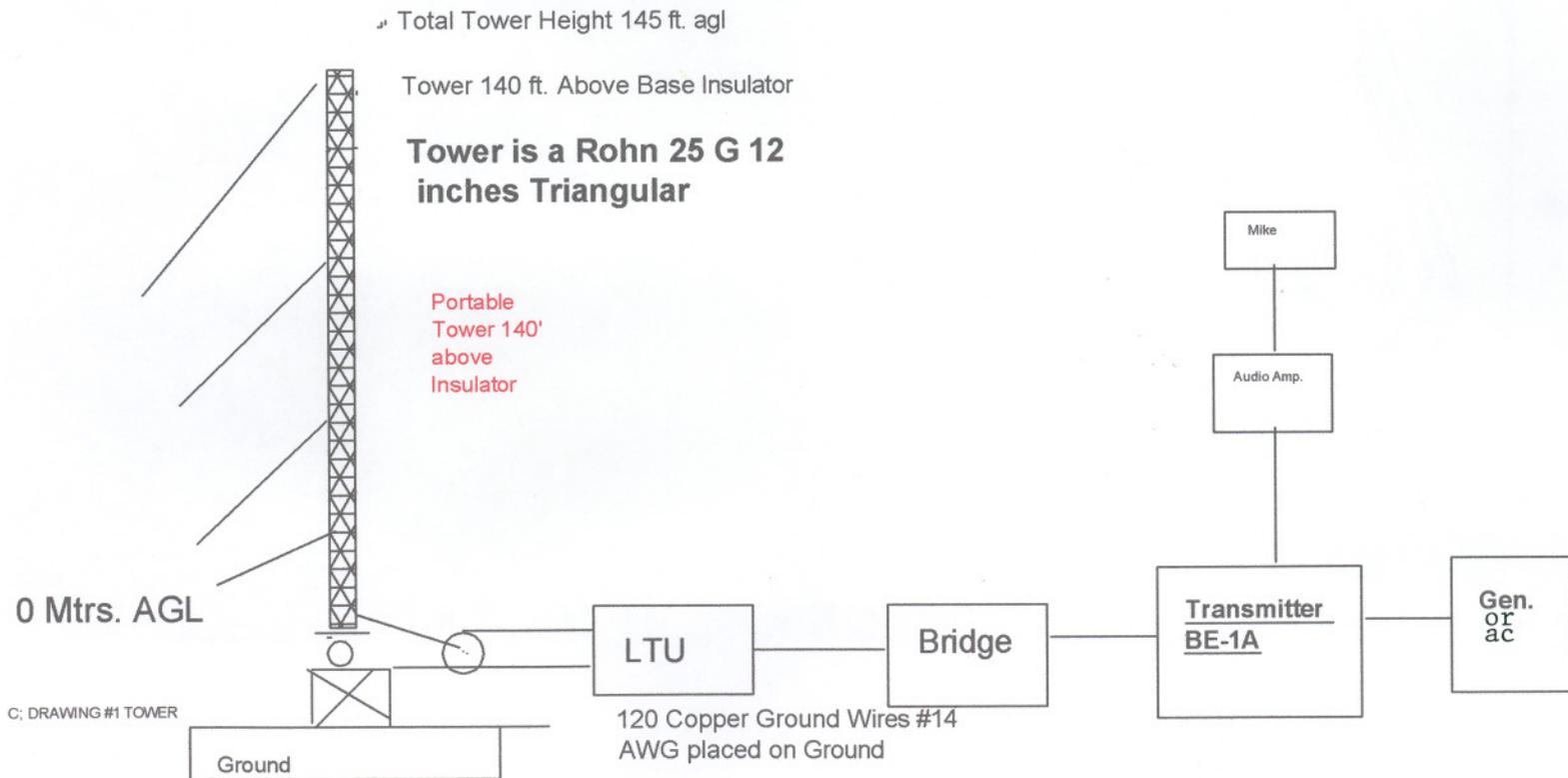
$Z_{in}(1690) = 40 - j23.67$



X_c Adjusted for Frequency
 $f_c/1.690$ etc (1.690/1740)

5
4
3
2
1
40
39
38
37
36
35
34
33
2

KG6XDP Portable Guyed Tower KD6XDP System Set-up



KG6XDP Portable Guyed Tower

Antenna location where Antenna Impedance is measured.

