

**LIEBERMAN & WALISKO**  
*CONSULTING TELECOMMUNICATIONS ENGINEERS*  
701 YEATMAN PARKWAY  
SILVER SPRING, MD 20902

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KMQA - East Porterville, CA

Engineering Exhibit 5

**70 dBu SERVICE TO E. PORTERVILLE, CA**

Utilizing the methodology found in 47 C.F.R. Section §73.313 (standard prediction method), less than the required 70 dBu signal will be provided by the instant proposed effective radiated power to the proposed city of license, East Porterville, CA. This is demonstrated in Engineering Exhibit 4.

The instant application, therefore, is relying upon a supplemental showing to demonstrate the presence of 70 dBu signal over the city of license. This showing is made up of Engineering Exhibits 6 through 10.

In order to avail oneself of a supplemental showing, the applicant must first demonstrate the area in question meets the criteria for terrain roughness. The arc of N 325° E to N 335° E encompasses East Porterville. Engineering Exhibit 6 is a tabulation showing the average terrain elevation for the three radials employed. It also indicates the  $\Delta H$  for these radials. In calculating these values, terrain data from 10 to 50 kilometers was employed as required by 47 C.F.R. Section §73.313. The  $\Delta H$  for the radials (all in excess of 100 meters) allows for the employment of a supplemental showing for 70 dBu service.

This supplemental showing consists of 3 plots (Engineering Exhibits 7 to 9) constructed by use of the FCC's own PTP program. Engineering Exhibit 10 is a plot of the 70 dBu contour created as a result of the PTP program plots. The map also shows the U.S. Census Bureau area for East Porterville and that the 70 dBu contour is provided for as required in 47 C.F.R. Section §73.315.

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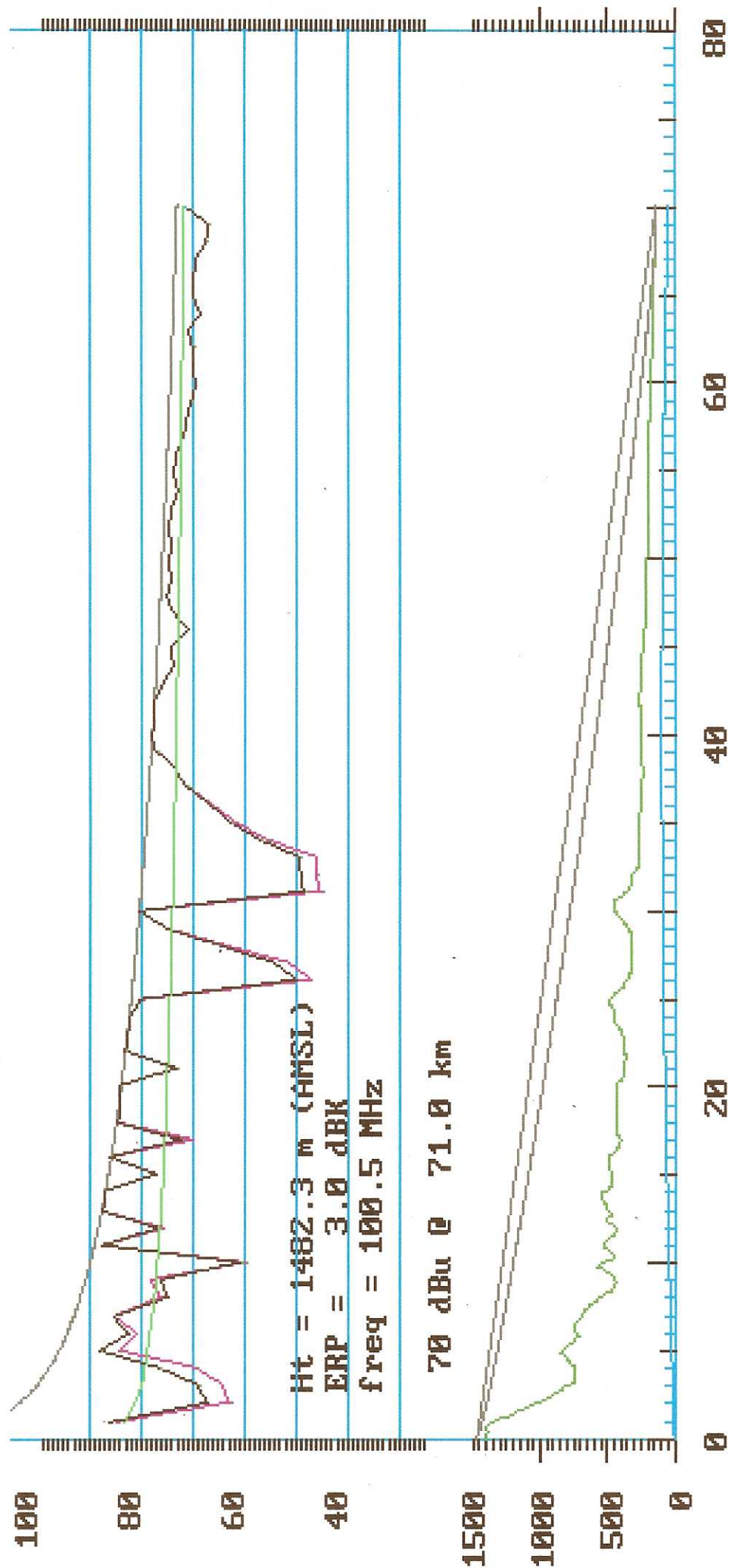
KMQA - East Porterville, CA

Engineering Exhibit 6

**TERRAIN ELEVATIONS &  $\Delta H$**   
**FOR RADIALS ENCOMPASSING E. PORTERVILLE, CA**

Site Coordinates: N. Lat.: 35-45-36, W. Long.: 118-45-30

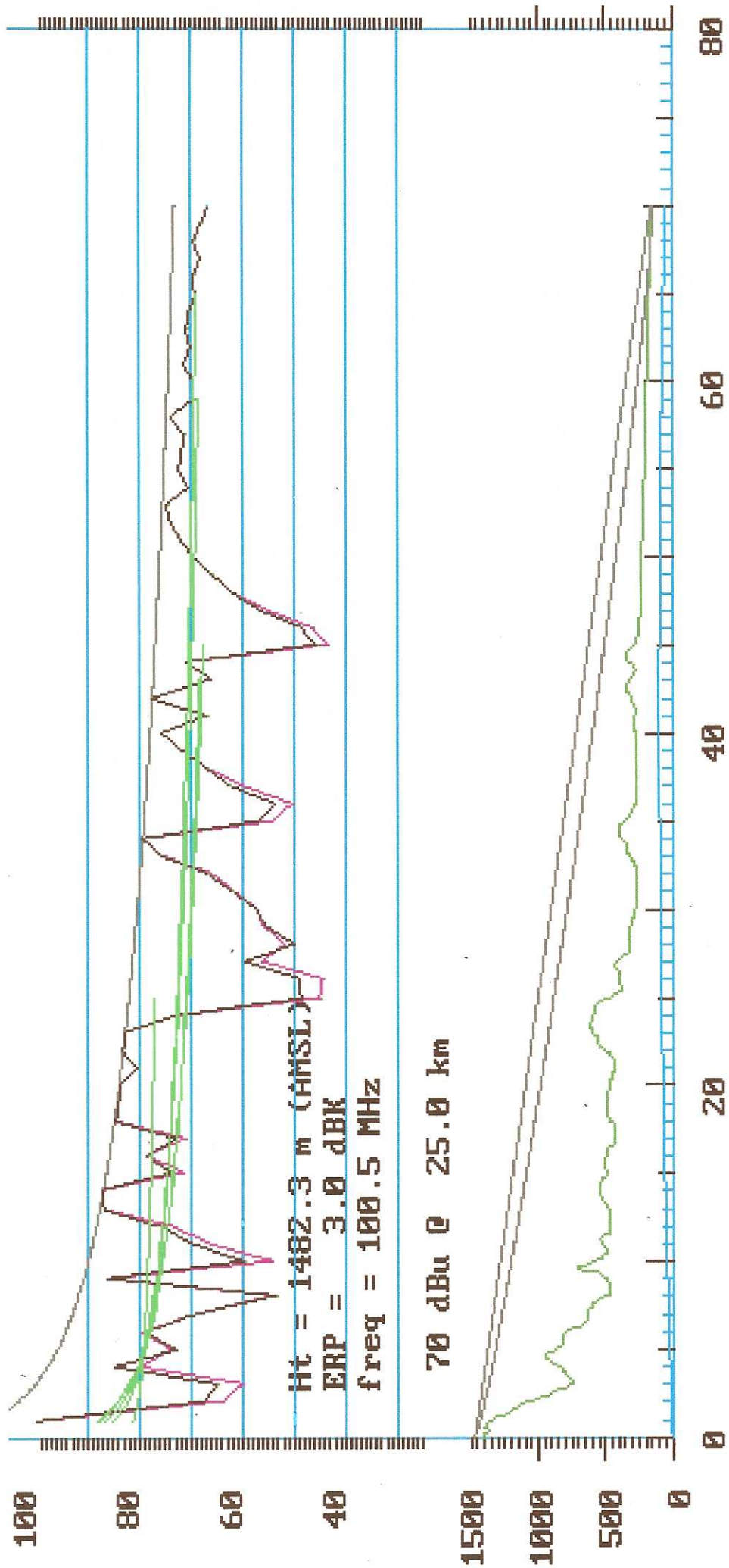
<u>Radial</u>	<u>Avg. El.</u>	<u><math>\Delta H</math> 10-50 km.</u>
325.0	546.2	293.0
330.0	568.1	325.0
335.0	575.9	304.0



RADIAL = 325.0 Deg

ENG. EXHIBIT 7

KQMA - E. Porterville, CA  
**PTP PLOT - BLUE MOUNTAIN TO  
E. PORTERVILLE N 325° E**  
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RADIAL = 330.0 Deg

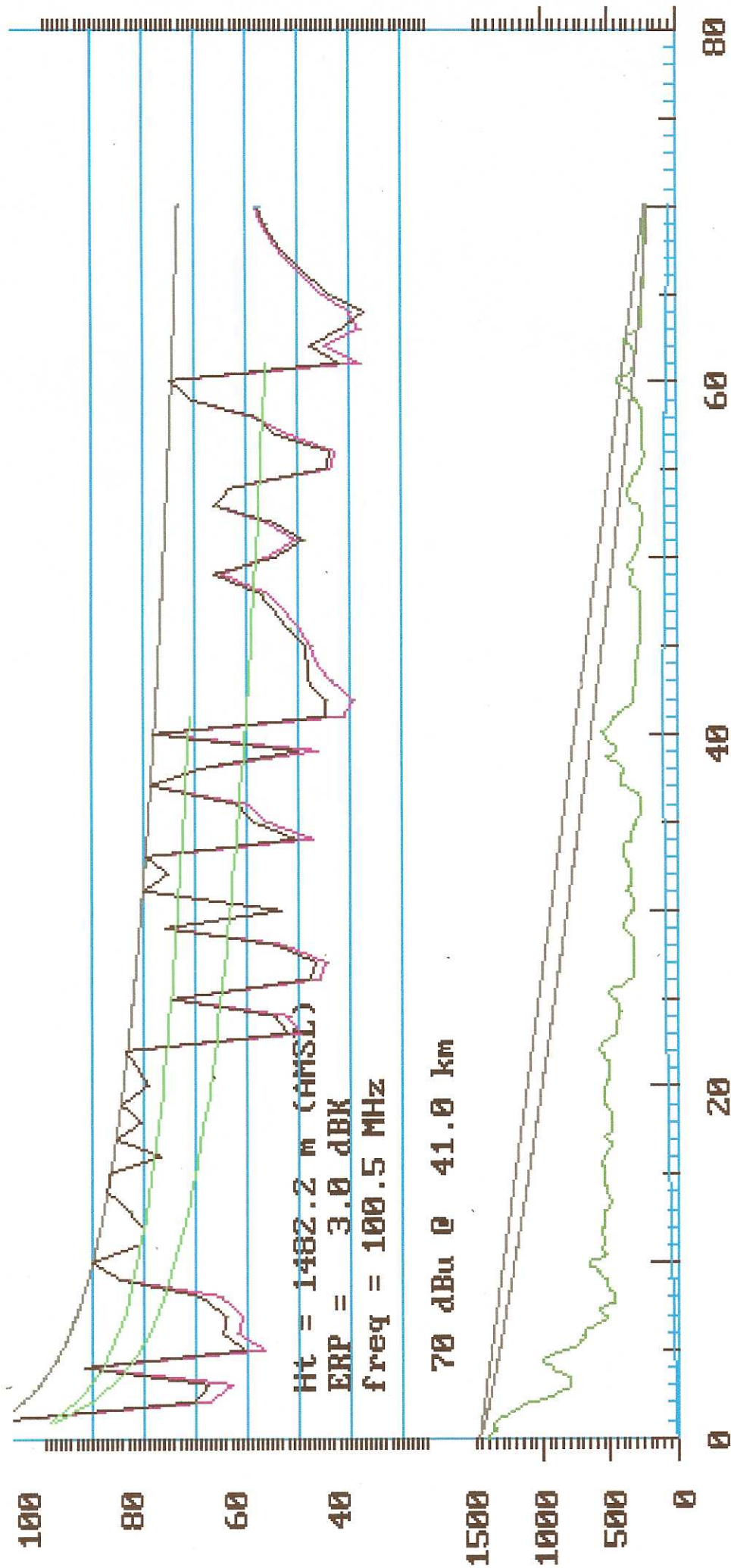
ENG. EXHIBIT 8

KQMA - E. Porterville, CA

PTP PLOT - BLUE MOUNTAIN TO  
E. PORTERVILLE N 330° E

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**RADIAL = 335.0 Deg**

ENG. EXHIBIT 9

KQMA - E. Porterville, CA

**PTP PLOT - BLUE MOUNTAIN TO  
E. PORTERVILLE N 335° E**

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