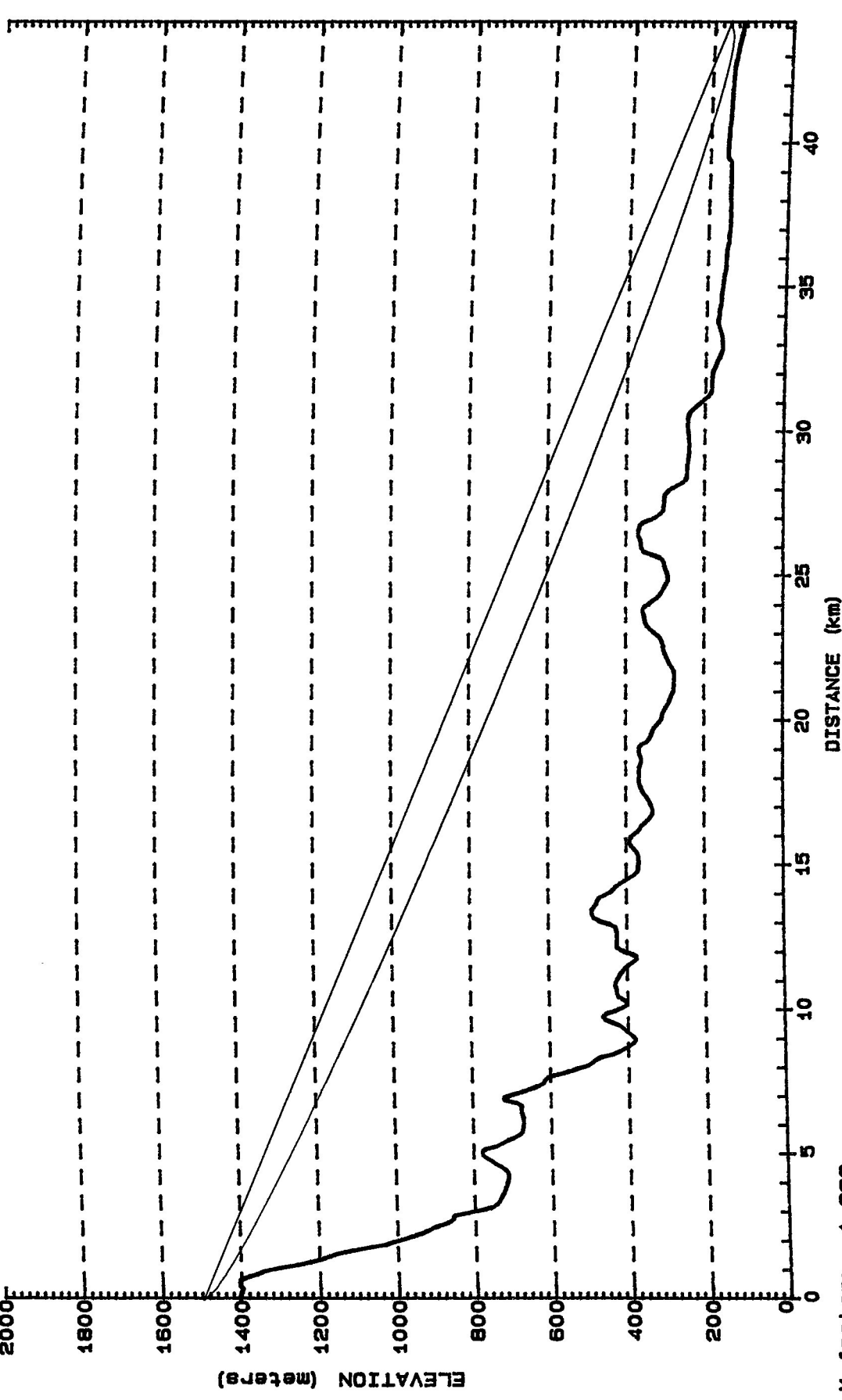


Site: BLUE MOUNTAIN  
 N 35 45 36 W 118 45 30  
 Ant. Elev. (AMSL): 1497.0 m  
 Path azimuth: 322.82 degs.

Frequency: 101.5 MHz  
 Path Length: 44.2 km  
 Total Path Loss: 104.0 dB  
 Excess Path Loss: -1.4 dB

Site: E. PORTERVILLE #1  
 N 36 4 34 W 119 3 19  
 Ant. Elev. (AMSL): 160.0 m  
 Path azimuth: 142.65 degs.



K factor: 1.333  
 Fresnel Zone: .60  
 3 Second Database - NAD 27  
 Rain loss: .0 dB  
 Urban loss: .0 dB  
 Foliage loss: .0 dB

# PATH PROFILE

N 322.8 E

Sept. 2005

Eng. Ex V-A

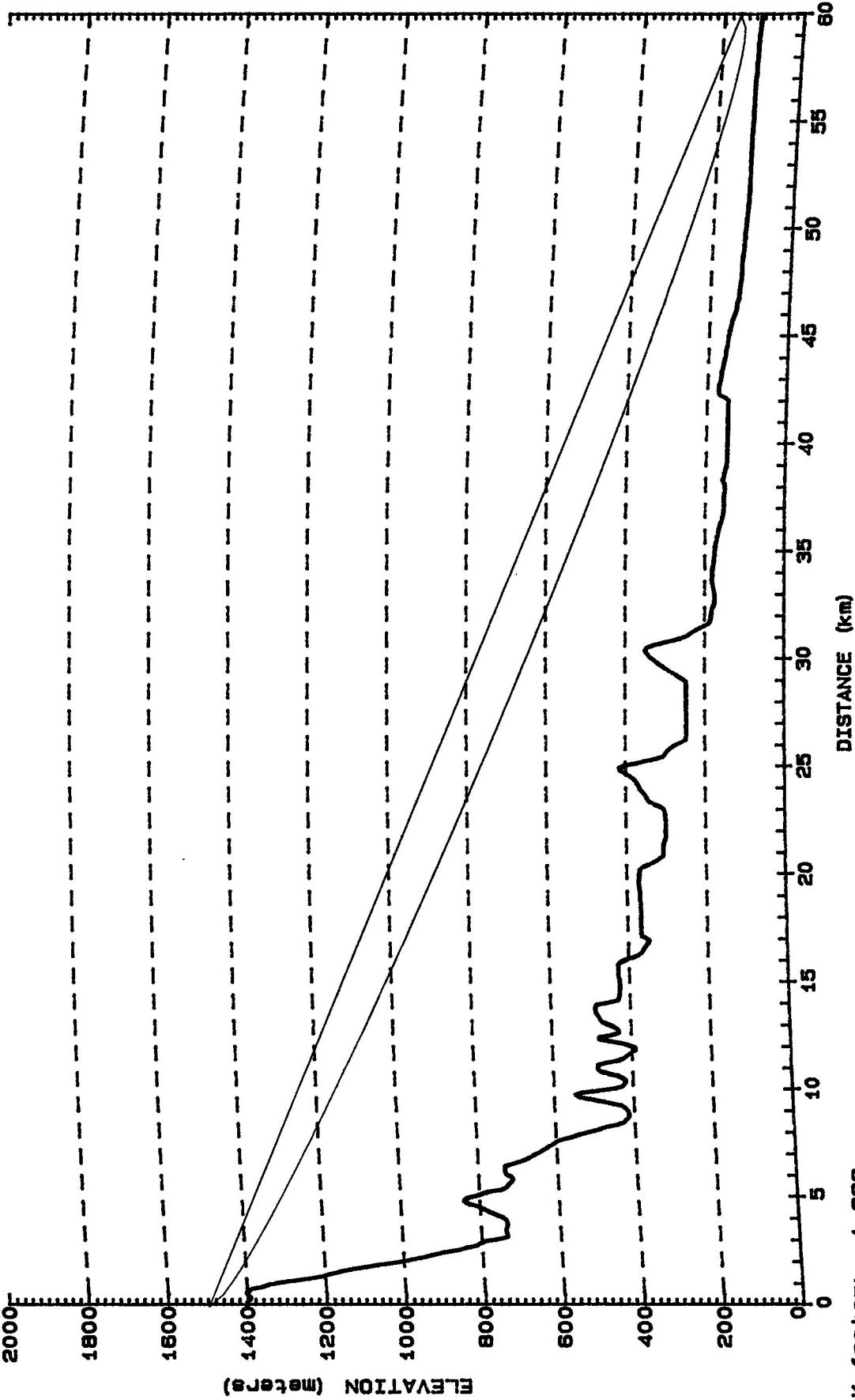
Lieberman & Malisko  
 Consulting Engineers  
 Silver Spring, MD

Moon Holdings, L.L.C.  
 Los Angeles, CA  
 Path Study to Site #1

Site: BLUE MOUNTAIN  
N 35 45 36 W 118 45 30  
Ant. Elev. (AMSL): 1497.0 m  
Path azimuth: 325.61 degs.

Frequency: 101.5 MHz  
Path Length: 60.0 km  
Total Path Loss: 106.0 dB  
Excess Path Loss: -2.2 dB

Site: PORTERVILLE #2  
N 36 12 17 W 119 8 10  
Ant. Elev. (AMSL): 160.0 m  
Path azimuth: 145.38 degs.



K factor: 1.333  
Fresnel Zone: .60  
3 Second Database - NAD 27  
Rain loss: .0 dB  
Urban loss: .0 dB  
Foliage loss: .0 dB

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Consulting Engineers  
Silver Spring, MD

Koon Holdings, L.L.C.  
Los Angeles, CA  
Path Study to Site #2

# PATH PROFILE

N 325.6 E

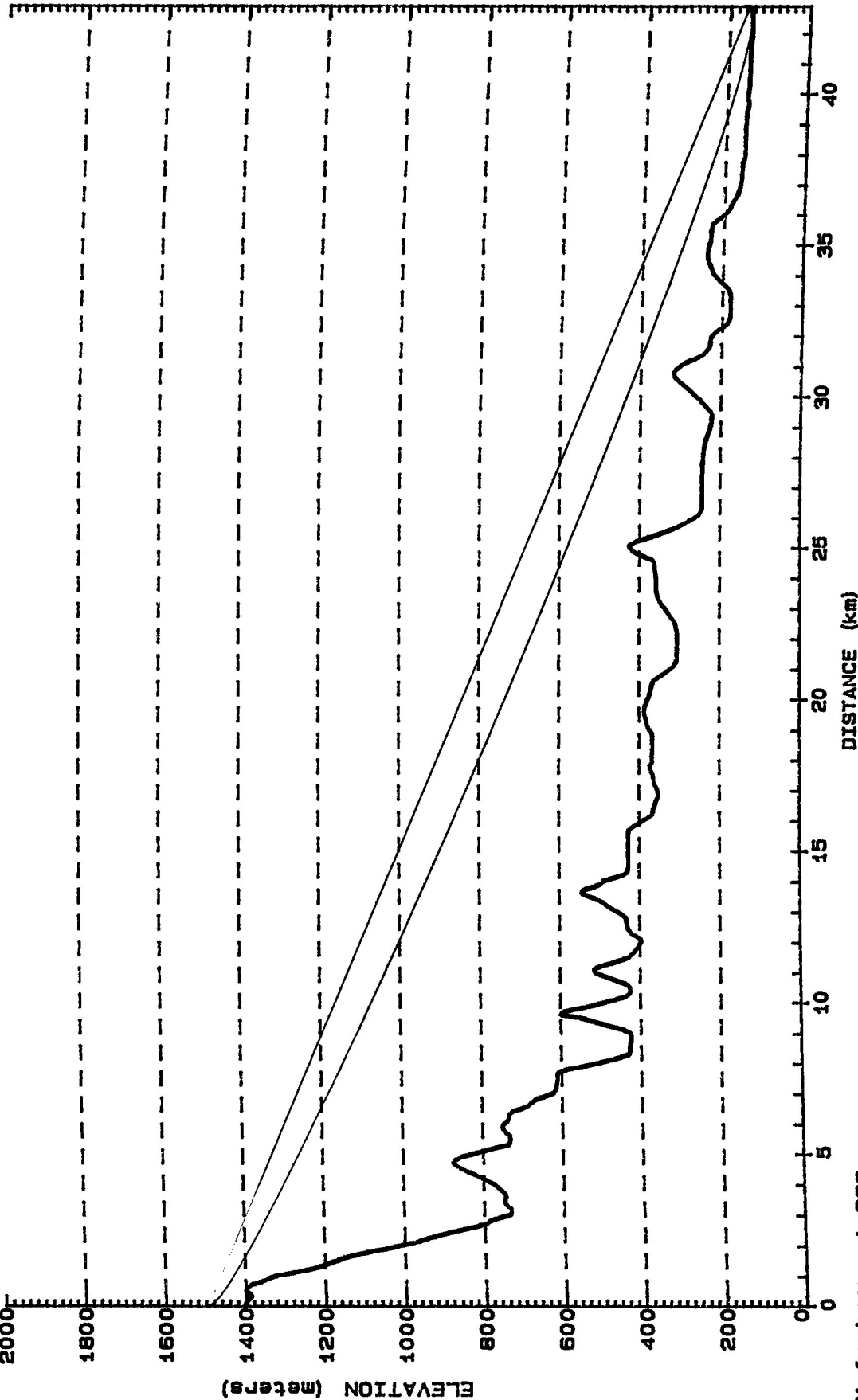
Sept. 2005

Eng Ex V-B

Site: BLUE MOUNTAIN  
 N 35 45 36 W 118 45 30  
 Ant. Elev. (AMSL): 1497.0 m  
 Path azimuth: 327.16 degs.

Frequency: 101.5 MHz  
 Path Length: 42.9 km  
 Total Path Loss: 105.4 dB  
 Excess Path Loss: .1 dB

Site: Porterville #3  
 N 36 5 2 W 119 1 2  
 Ant. Elev. (AMSL): 155.0 m  
 Path azimuth: 147.01 degs.



K factor: 1.333  
 Fresnel Zone: .60  
 3 Second Database - NAD 27  
 Rain loss: .0 dB  
 Urban loss: .0 dB  
 Foliage loss: .0 dB

# PATH PROFILE

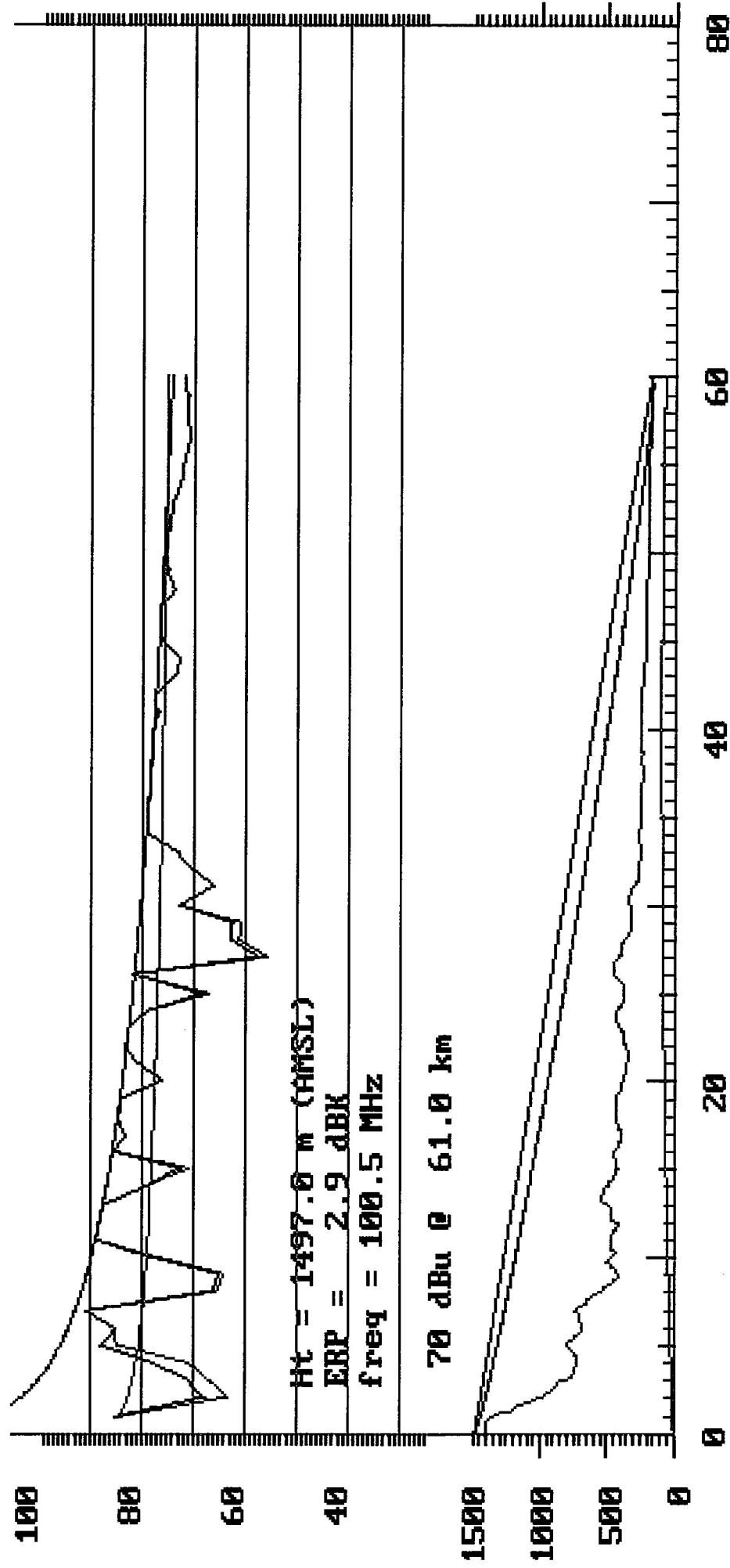
N 327.2 E

Sept. 2005

Eng. Ex V-C

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 Consulting Engineers  
 Silver Spring, MD

Moon Holdings, L.L.C.  
 Los Angeles, CA  
 Path Study to Site #3



RADIAL = 322.8 Deg

ENG. EXHIBIT VI-A

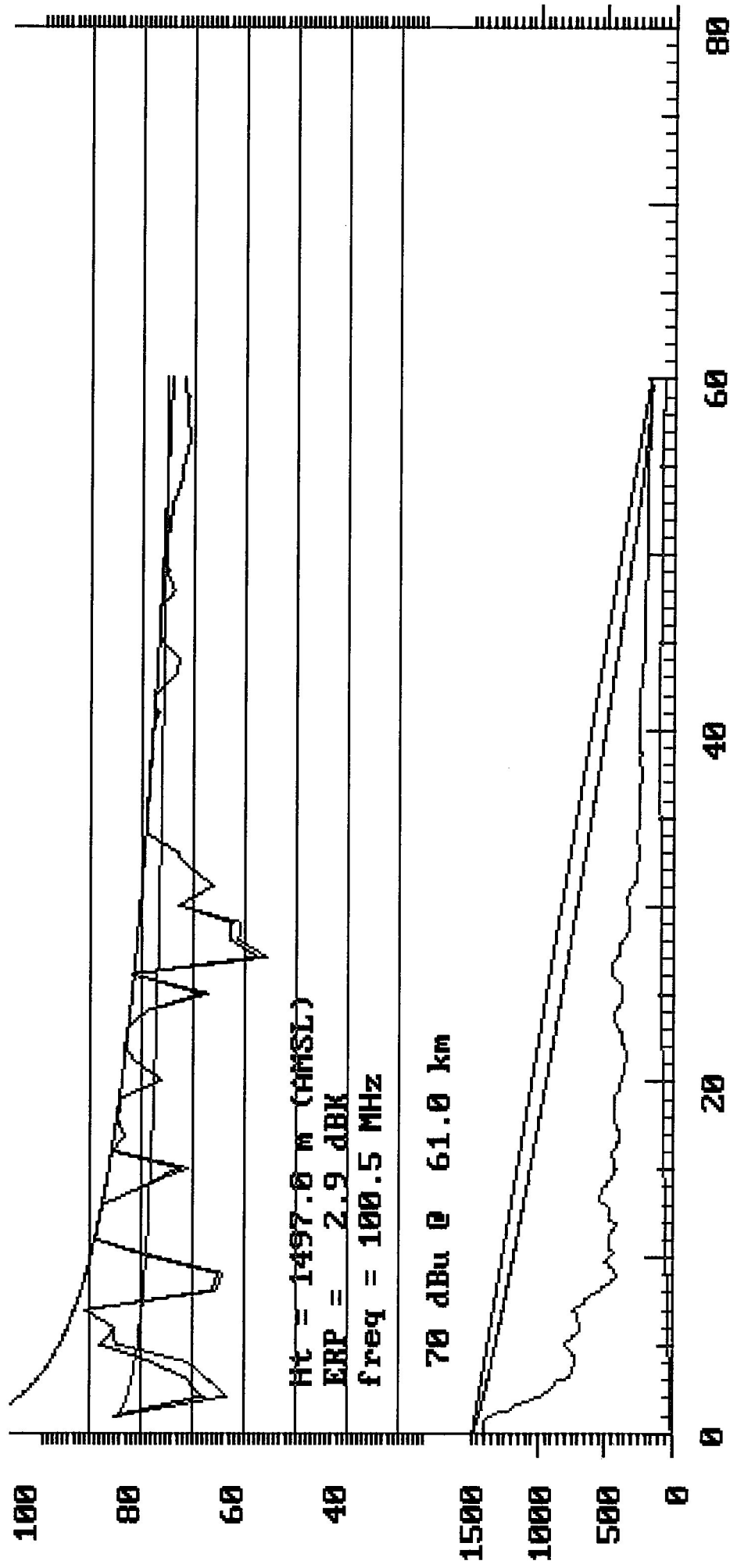
KQMA - Porterville, CA

PTP PLOT - BLUE MOUNTAIN TO  
PORTERVILLE SITE #1

Sept. 2005

Lieberman & Walisko





**RADIAL = 325.6 Deg**

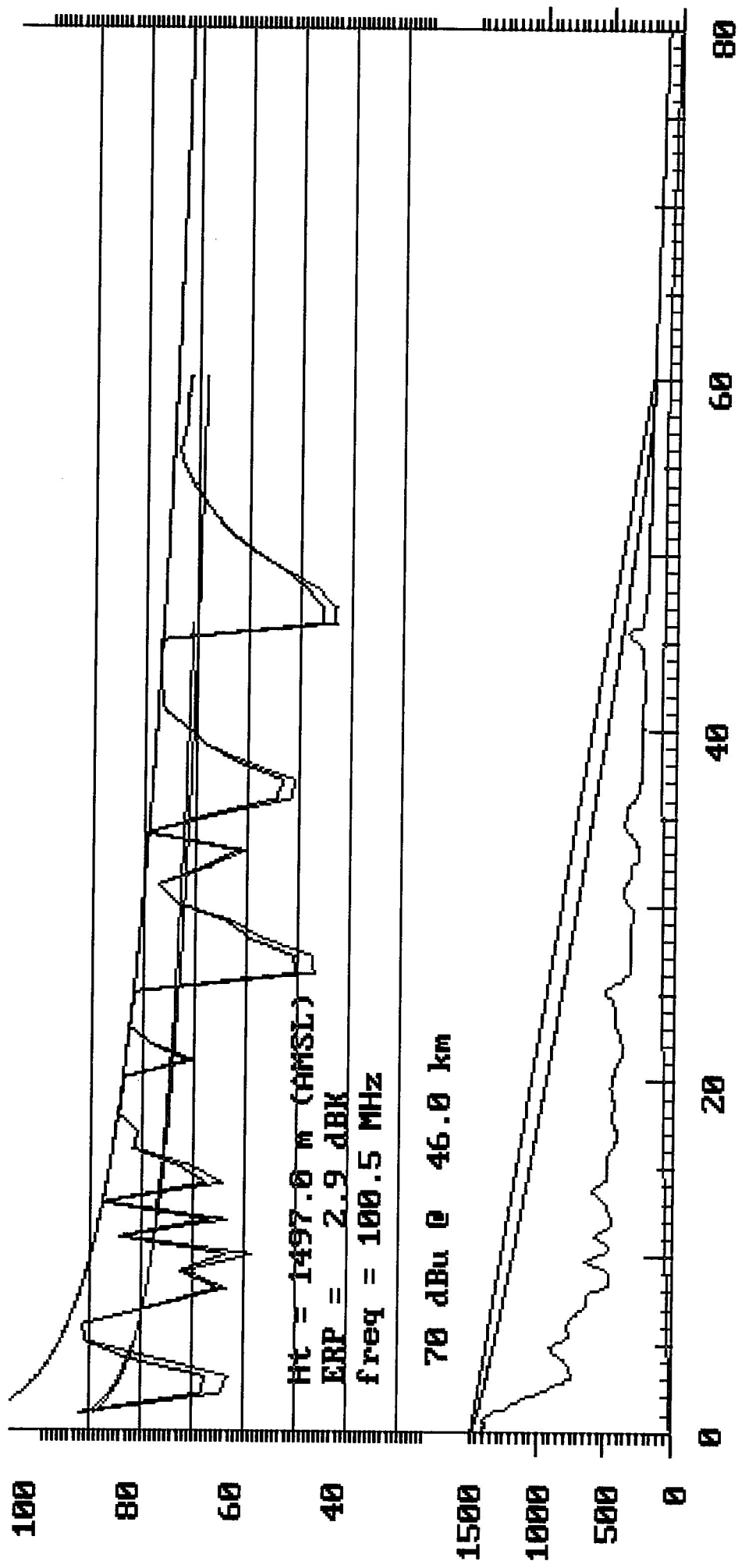
**ENG. EXHIBIT VI-B**

KQMA - Porterville, CA

**PTP PLOT - BLUE MOUNTAIN TO  
PORTERVILLE SITE #2**

Sept. 2005

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

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KQMA - Porterville, CA

Eng. Ex. VI-D

**FREE SPACE SIGNAL STRENGTH COMPUTATION**

Utilizing the methodology found in 47 C.F.R. Section §73.313, less than the required 70 dBu signal will be provided by the instant proposed effective radiated power over the city of license, Porterville, California.

As shown in Figure VI-E, the proposed 70 dBu contour calculated using the curves found in Figure 1 of 47 C.F.R. Section §73.333 would fall at 39.2 kilometers (at N 325° E). The distance from the instant proposed transmitter site to the far side of Porterville varies from 42.9 to 44 kilometers. As shown in the attached Engineering Exhibits V-A, V-B, and V-C, the paths are not obstructed.

To determine the field strength at the far side of Porterville, 44.2 kilometers (worst case) from the instant proposed transmitter site, the following field strength equation was used:

$$\text{Field Strength} = 106.9 + \text{ERP}_{\text{dBd}} - 20 \log(\text{DIST}) - A$$

Where  $\text{ERP}_{\text{dBd}}$  is the Effective Radiated Power in dBk relative to a dipole antenna (2.9226)

DIST is the path length in kilometers

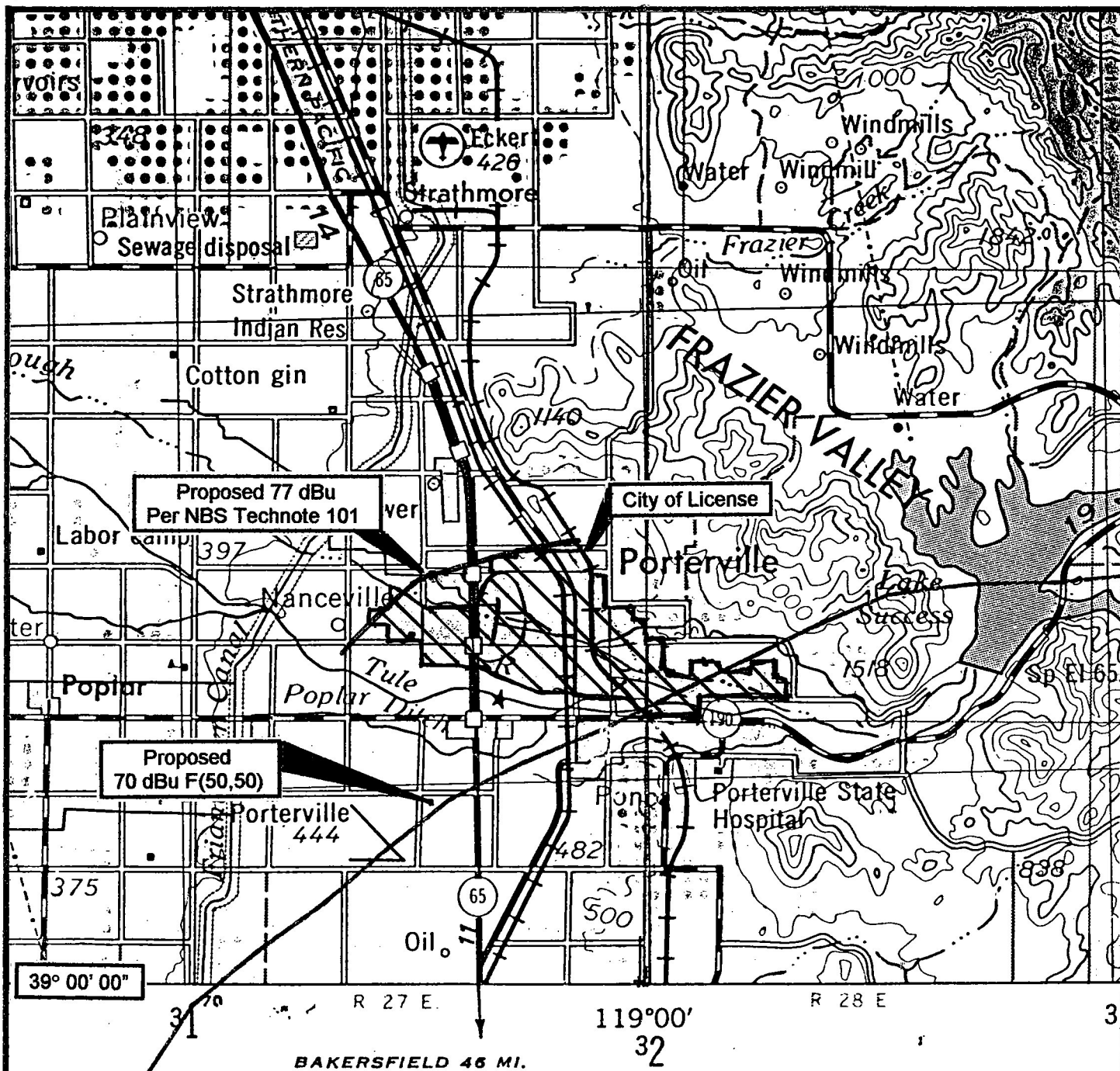
Site #1: 44.2 kM

Site #2: 43.45 kM

Site #3: 42.9 kM

A is the excess path loss

Employing this formula for the 3 test sites, we find a field strength of 77 dBu for the far side of Porterville.



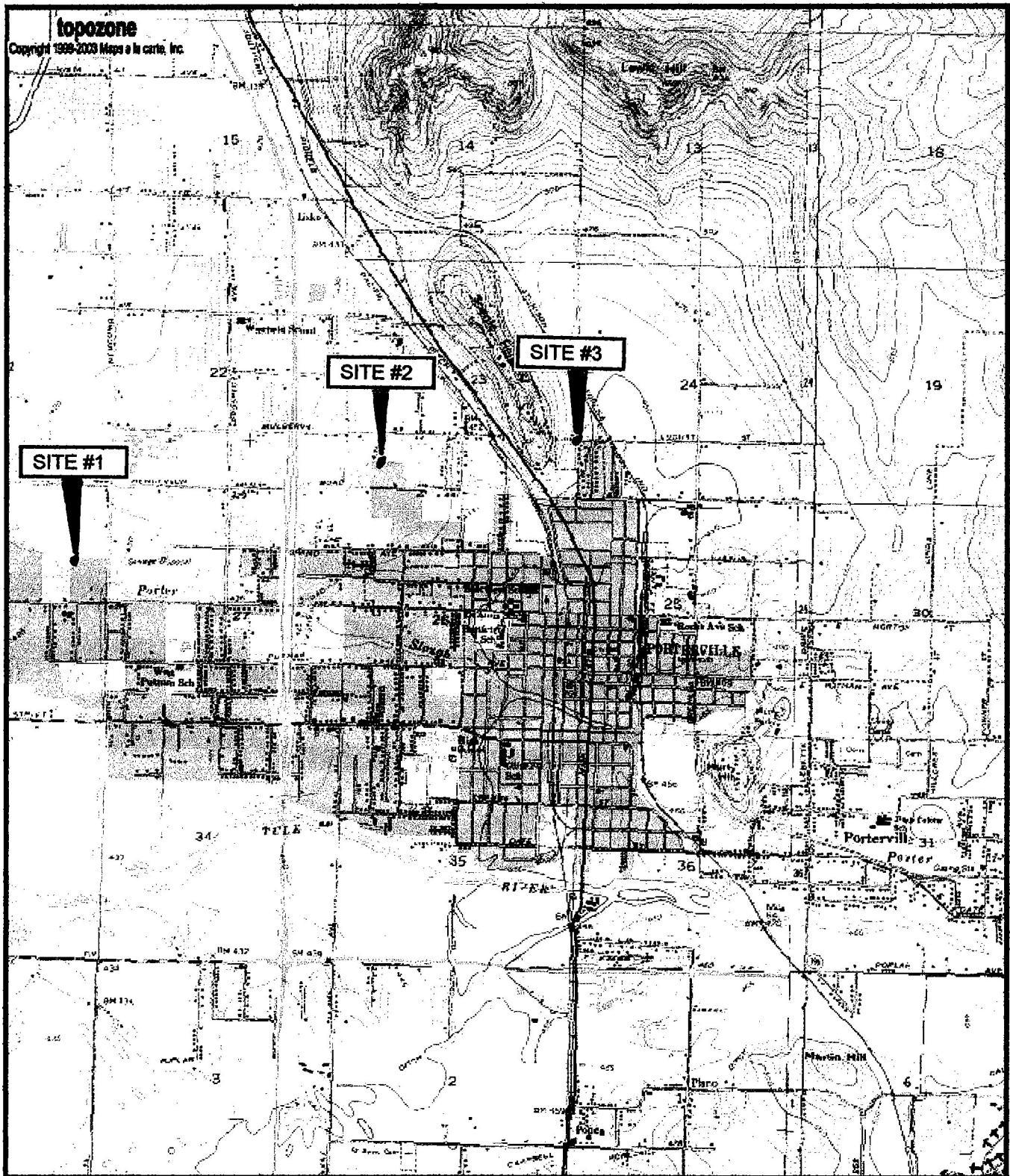
ENG. EX. VI-E

KQMA - Porterville, CA

**70 dBu PREDICTED CONTOUR  
FCC F(50,50) vs NBS TECHNOTE 101**

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0 0.6 1.2 1.8 2.4 3 km  
0 0.4 0.8 1.2 1.6 2 mi

ENG. EX. VI-F

KQMA – Porterville, CA

**SITE LOCATOR MAP FOR PTP &  
TERRAIN PROFILE STUDIES**

Sept. 2005

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