

Figure 8G

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

WCDL - Carbondale, PA

1440 kHz; 5 kW, ND-D

Inverse Field: 708.92 mv/m/km @ 5 kW.

Azimuth	Soil Conductivity (mS/m)
0.0°T	M-3: 4 - Total distance
10.0°T	M-3: 4 - Total distance
20.0°T	M-3: 4 - Total distance
30.0°T	M-3: 4 - 183.1 km, 2 - Remainder
40.0°T	M-3: 4 - 212.4 km, 2 - Remainder
50.0°T	M-3: 4 - Total distance
60.0°T	M-3: 4 - Total distance
62.0°T	#[Meas: 0.5 - 11.0 km, 1 - 38.0 km, 0.5 - 38.9 km]; M-3: 4 - 223.5 km, 1 - Remainder
* 72.0°T	#[Meas: 0.5 - 11.0 km, 1 - 38.0 km, 0.5 - 38.9 km]; M-3: 4 - 195.5 km, 1 - Remainder
82.0°T	#[Meas: 1 - 15.5 km, 1.25 - 28.0 km, 1 - 37.3 km]; M-3: 4 - 171.2 km, 1 - 205.5 km, 2 - Remainder
* 92.0°T	#[Meas: 1 - 15.5 km, 1.25 - 28.0 km, 1 - 37.3 km]; M-3: 4 - 148.5 km, 1 - 202.0 km, 2 - Remainder
102.0°T	#[Meas: 1.5 - 1.8 km, 1 - 26.0 km, 0.75 - 43.0 km]; M-3: 4 - 69.0 km, 2 - 94.8 km, 4 - 143.9 km, 1 - 201.0 km, 5000 - Rem.
*112.0°T	#[Meas: 1.5 - 1.8 km, 1 - 26.0 km, 0.75 - 43.0 km]; M-3: 4 - 56.5 km, 2 - 112.5 km, 4 - 158.8 km, 1 - 166.7 km, 5000 - 198.9 km, 0.5 - Remainder
122.0°T	#[Meas: 1.5 - 2.6 km, 1.25 - 7.0 km, 1.5 - 32.0 km, 1 - 48.3 km]; M-3: 4 - 49.4 km, 2 - 115.1 km, 4 - 168.0 km, 0.5 - 194.6 km, 5000 - Rem.
*132.0°T	#[Meas: 1.5 - 2.6 km, 1.25 - 7.0 km, 1.5 - 32.0 km, 1 - 48.3 km]; M-3: 2 - 125.4 km, 4 - 154.3 km, 5000 - 158.7 km, 0.5 - 167.2 km, 5000 - Remainder
142.0°T	#[Meas: 1.5 - 2.6 km, 1.25 - 7.0 km, 1.5 - 32.0 km, 1 - 48.3 km]; M-3: 2 - 109.6 km, 4 - 196.3 km, 5000 - Remainder
150.0°T	M-3: 4 - 41.7 km, 2 - 68.9 km, 4 - 217.4 km, 5000 - Remainder
160.0°T	M-3: 4 - 41.0 km, 2 - 68.4 km, 4 - Remainder
170.0°T	M-3: 4 - 42.6 km, 2 - 72.7 km, 4 - Remainder
180.0°T	M-3: 4 - 43.6 km, 2 - 83.7 km, 4 - Remainder
190.0°T	M-3: 4 - 49.1 km, 2 - 257.3 km, 4 - Remainder
200.0°T	M-3: 4 - 56.5 km, 2 - 112.7 km, 4 - Remainder
210.0°T	M-3: 4 - 65.8 km, 2 - 132.1 km, 4 - Remainder
220.0°T	M-3: 4 - 71.1 km, 2 - Remainder

* Indicates measured radial; measurements included with this application.

Measurements in brackets [] analyzed with conductivity curves employing a reduced dielectric constant of 5 ($\epsilon=5$) so as to place measurements within a conductivity range covered by the FCC's Family of Curves.