



THE MICROWAVE BEAM SCANS TERRAIN FOR VERTICAL DISPLACEMENT DOPPLER SHIFTS IN A MANNER ANALOGOUS TO SEISMIC MICROPHONES, THEREBY ACHIEVING THE EFFECT OF A LARGE MULTIELEMENT SEISMOPHONE ARRAY. TOMOGRAPHIC (SIGNAL) PROCESSING OF DISTURBANCES PRODUCED BY PENETRATOR IMPACTS YIELDS A MAP OF SUBSURFACE DENSITY WHICH INDICATES THE LOCATION OF CAVITIES SUCH AS TUNNELS AND BUNKERS

FIG 1.0 MICROWAVE SEISMIC SENSOR CARRIED BY RECCE PLATFORM (C.KOPP 10/95)