

Geophysical Survey of NE Nicaragua

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In 1997, Greenstone Resources secured permission from the Nicaraguan Ministry of Mines to fly an aeromagnetic and radiometric survey over an area of 4500 km² of northeastern Nicaragua. The survey was carried out by TerraQuest Ltd using a fixed wing aircraft (Navajo C-GXKS) flying at an elevation of 100 meters for a total of 29,323 line-km. Flight lines were oriented NW-SE (140°) at a line spacing of 400 meters over the entire survey area, closing to a line spacing of 200 meters over the mineral districts (see flight lines on following page). Data compilation and initial processing were carried out by CGI Controlled Geophysics Inc. A copy of the data was delivered to the Ministry of Energy and Mines.

Recursos del Caribe, S.A. (RdC) acquired both raw (xyz) and processed aeromagnetic and radiometric data from Greenstone Resources during its bankruptcy proceedings (1999). Condor Consulting reprocessed the raw aeromagnetic (xyz) data for RdC in 2022 generating new grid files for total magnetic intensity (TMI), reduced to pole (RTP), Analytical Signal (AS), and first vertical derivative (RTP_1VD) along with new grid files for the following filters: Area, Block, Edge, EdgeZone, Mod, Plateau, and Tilt.

In addition to the aeromagnetic data, RdC's NE Nicaragua geophysical dataset also includes raw radiometric data along with grid files for total count, uranium, thorium, and potassium. There is also a SRTM (Shuttle Radar Topography Mission) grid file for the survey area.

The NE Nicaragua geophysical dataset is available for US\$31,800, five percent of the estimated current cost to repeat the survey. The maps on the following page show the survey area and the mineral districts covered.

