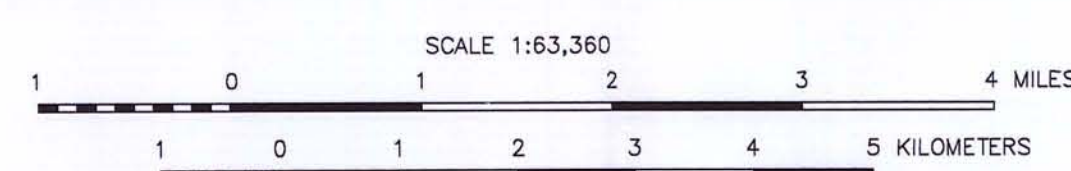


The geophysical data were acquired with a DIGHELY Electromagnetic (EM) system, Exploranium GR-820, which is a self-contained, rugged, portable, battery-powered magnetometer. The EM and magnetic sensors were flown at a height of 100 feet. The gamma-ray spectrometer was flown at a height of 200 feet. In addition the survey recorded data from a radar altimeter, a Digilog 1000 data streamer, 50/50 monitors and video camera. Flights were performed with an AS350B-2 Squirrel helicopter at a mean terrain clearance of 200 feet along NW-SE (340°) survey flight lines with a spacing of one quarter of a mile. The flight lines were conducted in a series of flight lines at intervals of approximately 3 miles.

## TOTAL MAGNETIC FIELD

The total magnetic field data were acquired with a sampling interval of 0.1 seconds, and were (1) corrected for diurnal variations by subtraction of the digitally recorded base station magnetic data, (2) leveled to the tie line data, and (3) interpolated onto a regular 100 m grid using a modified Akima (1970) technique. The regional variation (or IGRF gradient, 1995, updated to September 1999) was removed from the leveled magnetic data.

Akima, H., 1970, A new method of interpolation and smooth curve fitting based on local procedures: *Journal of the Association of Computing Machinery*, v. 17, no. 4, p. 589-602.



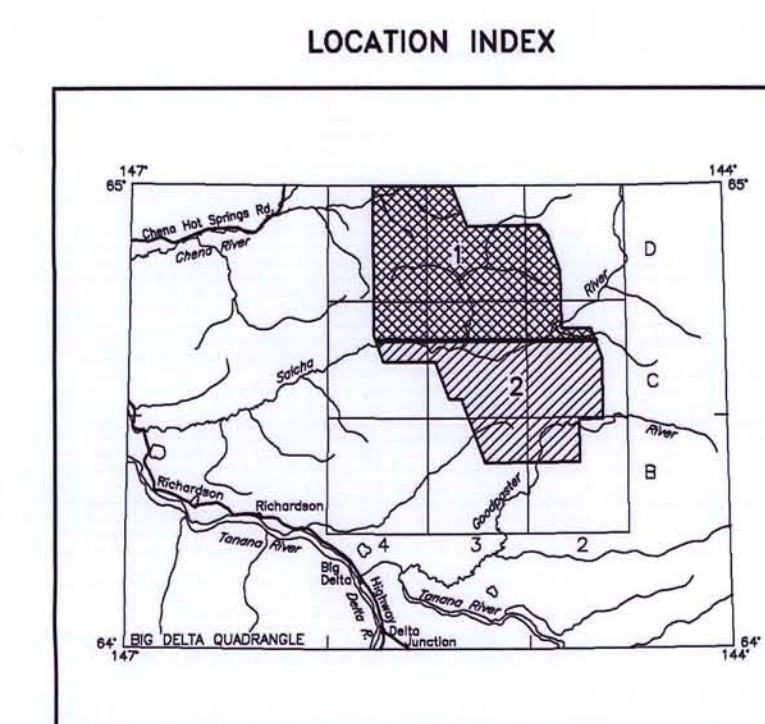
COLOR SHADOW TOTAL MAGNETIC FIELD  
OF THE SALCHA RIVER - POGO MINING AREA,  
CENTRAL ALASKA

### BIG DELTA QUADRANGLE

2000

Sun Azimuth: 270 degrees

**Inclination: 35 degrees**



## SURVEY HISTORY

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys (DGGS), and STGS. The data for the map were collected by Airborne geophysical data for the area were acquired by Geotrex-Dighem, a division of CGG Canada Ltd., in 1999. Laurel Burns was the contract manager for DGGS. This map and other products from this survey are available by mail order or in person from DGGS, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.