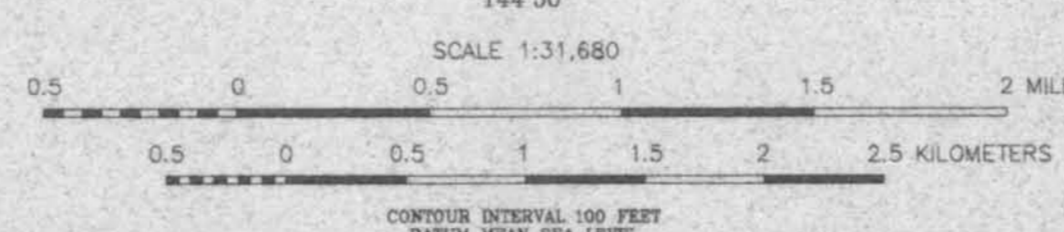
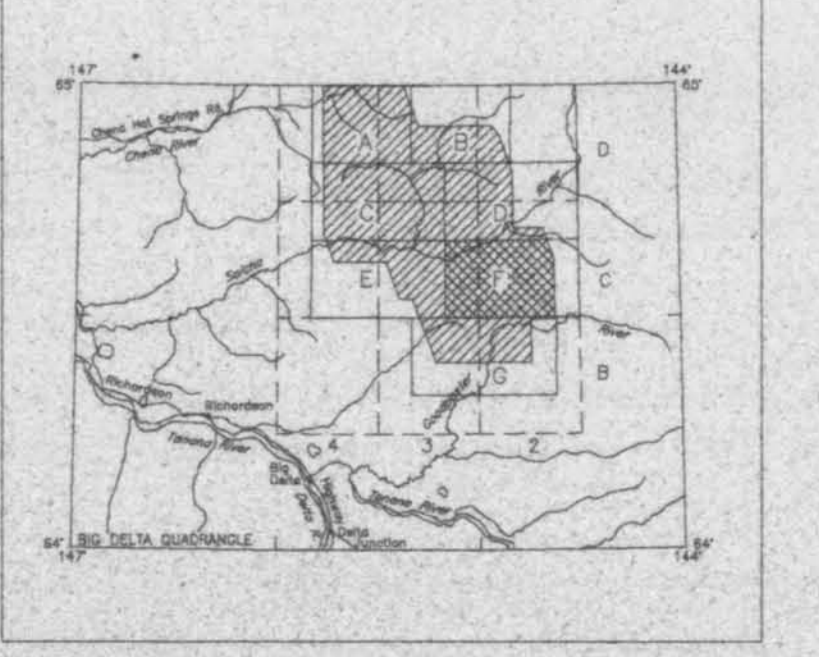


From U.S. Geological Survey Big Delta C-2, 1966; C-3, 1966 Quadrangles, Alaska



LOCATION INDEX FOR SCALE 1:31,680



DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM[®] Electromagnetic (EM) system, Exploration GR-820 gamma-ray spectrometer and a Sinterex cesium magnetometer. The EM and magnetic sensors were flown at a height of 200 feet. The gamma-ray spectrometer was flown at a height of 200 feet. In addition the survey recorded data from a rotor altimeter, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed with an AS350B-2 Squirrel helicopter at a mean terrain clearance of 200 feet along NW-SE (34.7°) survey flight lines with a spacing of 1/4 mile (0.25 miles). The lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

An Ashtech DG24 NAVSTAR / GLOPASS Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds using post-flight differential positioning to a relative accuracy of better than 5 m. Flight path positions were projected onto the Clarke 1866 UTM zone 33, spheroid, 1927 North American datum using a central meridian (CM) of 147°, a matrix constant of 0 and an east constant of 500,000. Positional accuracy of the presented data is better than 10 m, with respect to the UTM grid.



ELECTROMAGNETIC ANOMALIES

●	Area indicate the conductor thickness >10m	○	Conductance
○	Magnetic correlation in mT	○	>100 siemens
○	Dip direction	○	50-100 siemens
○	Depth is in greater than	○	10-20 siemens
○	10 m	○	5-10 siemens
○	20 m	○	1-5 siemens
○	40 m	○	<1 siemens
○	60 m	○	Questionable anomaly
○	Interpretive symbol	○	EM magnetic response
○	Interpretive symbol	○	Conductor ("rod")
○	Interpretive symbol	○	Bedrock conductor
○	Interpretive symbol	○	Narrow bedrock conductor ("thin sheet")
○	Interpretive symbol	○	Broad conductive rock unit, deep conductive weathering, block conductive cover ("roof space")
○	Interpretive symbol	○	Edge of sheet conductor ("edge of roof space")
○	Interpretive symbol	○	Cultural, e.g., power line, metal building or fence

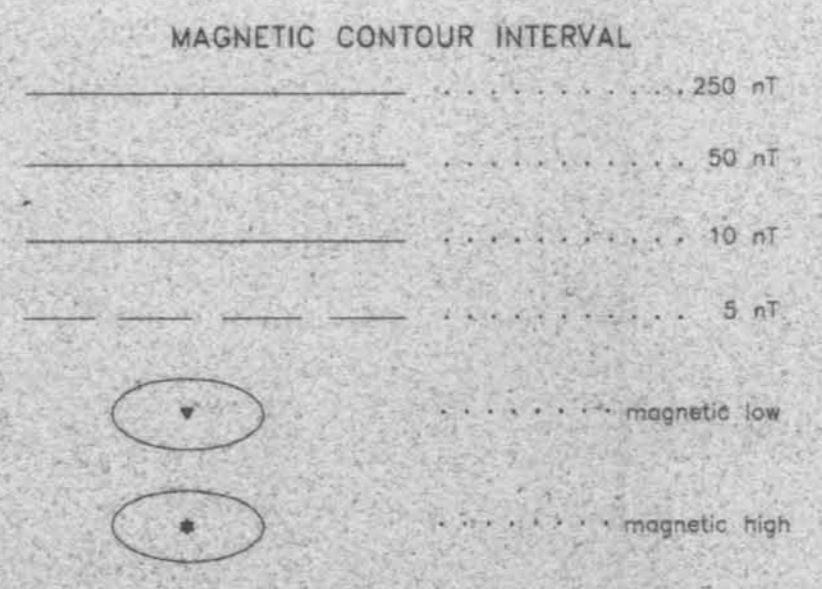
TOTAL MAGNETIC FIELD AND DETAILED ELECTROMAGNETIC ANOMALIES OF THE SALCHA RIVER - POGO MINING AREA, CENTRAL ALASKA

PARTS OF BIG DELTA C-2
and C-3 QUADRANGLES
2000

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 present, 1965, updated to September 1999) was removed from the leveled magnetic data.

Alaska, 1970. A new method of interpolation and smooth curve fitting based on least-squares. *Journal of the Association of Computing Machinery*, v. 17, no. 4, p. 589-602.



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 (DGGGS), and Stevens Exploration Management Corp. Airborne geophysical data for the area were acquired by Geotek-DigheM, a division of Citicorp Ltd., in 1999. Laurel Burns was the contract manager for DGGGS. This map and other products from this survey are available by mail order or in person from DGGGS, 734 University Ave., Suite 200, Fairbanks, Alaska, 99709.