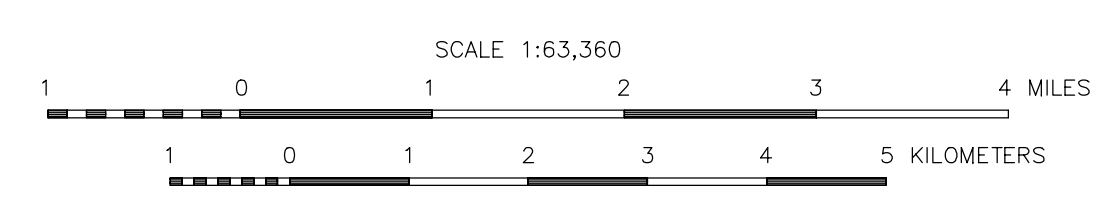
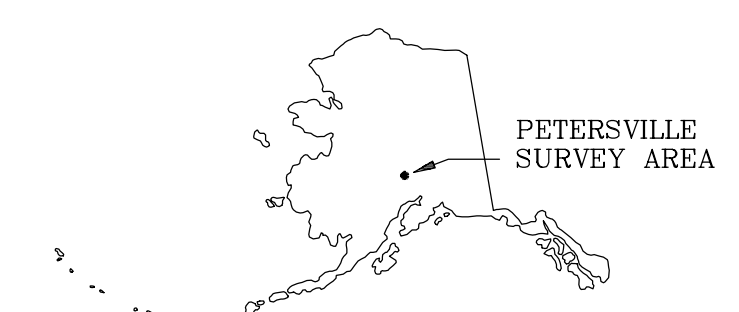


- 55769.0
- 55764.0
- 55761.1
- 55758.9
- 55757.1
- 55755.8
- 55754.9
- 55754.1
- 55753.5
- 55752.8
- 55752.3
- 55751.8
- 55751.3
- 55750.7
- 55750.1
- 55749.6
- 55749.0
- 55748.4
- 55748.0
- 55747.6
- 55747.2
- 55746.8
- 55746.4
- 55746.0
- 55745.6
- 55745.2
- 55744.8
- 55744.4
- 55744.0
- 55743.7
- 55743.3
- 55743.0
- 55742.7
- 55742.3
- 55741.9
- 55741.4
- 55740.9
- 55740.4
- 55739.9
- 55739.5
- 55738.9
- 55738.1
- 55737.2
- 55736.2
- 55734.7
- 55733.0
- 55731.4
- 55729.7
- 55728.1
- 55726.5
- 55724.8
- 55723.0
- 55721.3
- 55719.8
- 55718.3
- 55716.8
- 55715.3
- 55713.6
- 55710.9
- 55707.8
- 55704.2
- 55699.7
- 55682.4

Border outline from U.S. Geological Survey T-100, B-1, B-4, 1964.
 U.S.G.S. C-1, C-2, C-3, 1968. Coordinates Alaska.



TOTAL MAGNETIC FIELD OF THE PETERSVILLE MINING DISTRICT, ALASKA

PARTS OF TALKETNA QUADRANGLE

by
Laurel E. Burns, Fugro Airborne Surveys Corp., and Stevens Exploration Management Corp.
 2004

DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM[®] Electromagnetic (EM) system, a Scintrex cesium CS2 magnetometer, and a Herz VLF system installed in an AS350B-1 Squirrel helicopter. In addition, the survey recorded data from a resistivity system, a GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed at a mean terrain clearance of 200 feet along survey flight lines with a spacing of a quarter of a mile. Tie lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

A Real-Time Differential Global Positioning System (RT-DGPS) was used for both navigation and flight path recovery. The helicopter position was derived every 0.5 seconds using real-time differential positioning to a relative accuracy of better than 10 m. Flight path positions were projected onto the Clark 1886 (UTM) spheroid, 1927 North American datum using a central meridian (CM) of 152° 00' north 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.

TOTAL MAGNETIC FIELD	
MAGNETIC CONTOUR INTERVAL	
..... 250 nT	
..... 50 nT	
..... 10 nT	
..... 5 nT	
..... magnetic low	○
..... magnetic high	●

SURVEY HISTORY

The map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys, and Stevens Exploration Management Corp. The map was produced by Fugro Airborne Surveys and supersedes the earlier full color version released by DGGG in 1997. Airborne geophysical data for the area were acquired and processed in 1996 under contract between DGGG and WGM. Mining and Geological Consultants, Inc. The subcontractor acquiring and processing the data was DIGHEM, a division of CGG Canada Ltd. Other products from this survey are available from DGGG, 3354 College Road, Fairbanks, Alaska, 99709-3707.

