altimeters, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed with an AS-350-B3 Squirrel helicopter at a mean terrain colearance of 200 feet with

a spacing primarily of a quarter of a mile, and one eighth of a mile for about 97.9 sq miles.
Tie lines were flown perpendicular to the flight

A Novatel OEM5—G2L 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 6)

spheroid, 1927 North American datum using a central meridian (CM) of 147°, a 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.

ANALYTIC SIGNAL

Analytic signal is the total amplitude of all directions of magnetic gradient calculated from the sum of the

squares of the three orthogonal gradients. Mapped highs in the calculated analytic signal of magnetic parameter locate the anomalous source body edges and corners (e.g., contacts, fault/shear zones, etc.). Analytic signal

maxima are located directly over faults and contacts,

regardless of structural dip, and independently of the direction of the induced and/or remanent magnetizations.

lines at intervals of approximately 3 miles.

(DGGS), and Fugro GeoServices, Inc. Airborne geophysical data for the area were acquired and processed by CGG in 2013 and 2014. Previously

flown DGGS surveys adjacent to the current survey are shown in the location map by dashed

lines, survey name, and date of publication.
The project was funded by the Alaska State
Legislature as part of the Alaska Strategic and Critical

Minerals Assessment project, which is part of the Alaska Airborne Geophysical and Geological Mineral Inventory Program. Millrock Exploration Corporation contributed infill data for a portion of the area

All data and maps produced to date from this survey

are available in digital format on DVD for a nominal fee through DGGS, 3354 College Road, Fairbanks, Alaska,

99709-3707, and are downloadable for free from the DGGS website (www.dggs.alaska.gov/pubs). Maps are also available on paper through the DGGS office, and

are viewable online at the website in Adobe Acrobat .PDF file format.

shown above as denser hatching.

ANALYTIC SIGNAL CONTOURS

_____ ___ ___ 0.05 nT/metre

______ 2.50 nT/metre

_____ 0.50 nT/metre

______0.10 nT/metre