

# SHAW CREEK AND SHAWNEE PEAK AIRBORNE MAGNETIC AND RADIOMETRIC GEOPHYSICAL SURVEY

Emond, A.M., and MPX Geophysics LTD

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# **SHAW CREEK AND SHAWNEE PEAK AIRBORNE MAGNETIC AND RADIOMETRIC GEOPHYSICAL SURVEY**

Emond, A. M.<sup>1</sup>, and MPX Geophysics LTD<sup>2</sup>

## **ABSTRACT**

The Shaw Creek and Shawnee Peak airborne magnetic and radiometric geophysical survey covers parts of the Big Delta and Eagle quadrangles northeast of Delta Junction, Alaska (fig. 1). Magnetic and radiometric data were collected with a helicopter July 4–25, 2020 by MPX Geophysics LTD. A total of 10,100 line kilometers were collected over approximately 2,600 square kilometers. The magnetometer was mounted to a forward-facing fixed boom (“stinger”). The radiometric crystals were located in the cabin of the helicopter.

Data were collected in eight named blocks. Mertie Mountains, Shaw Creek, and Volkmar River have a line spacing of 400 meters (m) and a mean ground clearance of 130 m. Stoneboy has a line spacing of 200 m and a mean ground clearance of 80 m. Eagle, Echo, Healy, and LMS-X have a line spacing of 100 m and a mean ground clearance of 80 m.

## **PURPOSE**

The data from the Shaw Creek–Shawnee Peak airborne magnetic and radiometric geophysical survey will be used for guiding geologic mapping, promoting resource exploration, generating mineral exploration targets, and be a part of the continuous regional magnetic data coverage of the Yukon Tanana Uplands.

## **DATA PRODUCTS**

This data release provides preliminary files as received from the contractor and is intended to provide timely support of concurrent mineral-resource exploration of the project area. The data have been evaluated for general functionality and logical consistency but have not undergone full technical review. These data are intended to be replaced and this publication will be superseded when comprehensive data review and file organization are complete.

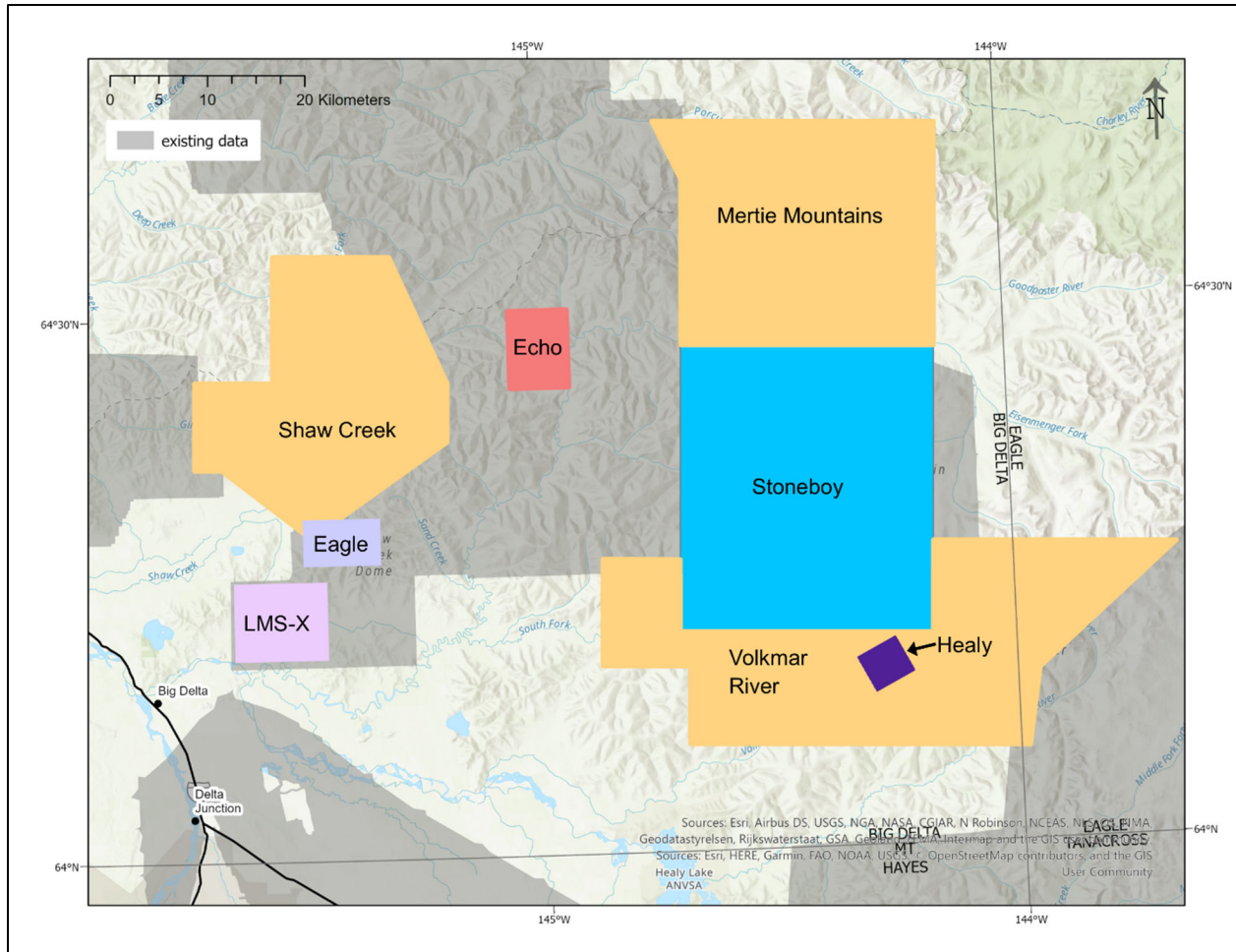
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<sup>1</sup> Alaska Division of Geological & Geophysical Surveys, 3354 College Road, Fairbanks, AK 99709

<sup>2</sup> 4-355 Harry Walker Parkway North, Newmarket, ON L3Y7B3



**Figure 1.** Named geophysical survey blocks location map with major roads, towns, and 1:250,000-scale USGS quadrangle boundaries. Prior DGGs surveys shown in gray.