

The main camps of the party were all situated on the shores of Taku arm and Athol lake, and their tributaries, but a number of temporary camps were located in and to and from which the necessary supplies and equipment were generally packed by the members of the party, but pack horses were used for moving up Highborn creek.

A base line 14 miles long was measured along the east shore of Taku arm just above Racine's old mill, and from there a triangulation was extended over the district surveyed. The topography was filled in largely by means of phototopographic methods, but all roads and trails were traversed with a tach prismatic compass and theodolite, numerous points along these traverses being tied to the triangulation by transit. The shores of Taku arm were traversed with transit and Roden microanometer.

The geological portion of the work was performed with approximately the same degree of accuracy as the topographical, but since no topographical map was available in the field, considerable difficulty was experienced in taking notes, making sketches, etc., concerning geological boundaries, in such a manner that these could later be accurately shown upon a completed topographical map.

Mr. G. G. Gibbins, B.Sc., Mr. P. A. Otterly, B.Sc., and Mr. John Lanning, assisted the writer during the entire field season and performed the greater part of the topographical work. Mr. Gibbins also assisted in geology when circumstances permitted. All discharged their duties in a satisfactory and able manner.

LOCATION AND AREA

Atlin mining district is situated in the northwestern corner of British Columbia between north latitudes 59° and 60° (the British Columbia-Yukon boundary), and extends from longitude 132° to 134° 30' west of Greenwich (Fig. 1). All the more important lode and coal properties in the district were examined by the writer during the summer of 1910, and, in addition, a geological and topographical survey was made of the western portion of the tract, or as it is here designated, Taku Arm belt, which embraces a northerly trending area 15 miles long and about 16 miles wide. This belt includes all the British Columbia portion of Taku arm which also