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GEOPHYSICAL REPORT ON EVE GROUP

by J. M. Black, P.Eng.

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DIRODUCTION

Fleat of magnetite with minor copper mineralization occurs on these claims and was exposed in old trenches. These showings have been known for many years.

The claims were located almost ten years ago. Before locating them, the writer ran a dip meedle survey to determine the extent of an anomalous area caused by the magnetite. This preliminary survey was used to determine where to locate the claims. From this earlier survey the general extent of the anomaly and its relation to the location line was known. For this reason, the present survey was generally restricted to the central part of the group with a few traverses beyond it.

LOCATION

The central part of the group is slightly over i mile morth of Heffley Lake, about midway along its length. A newly-built public highway crosses the southern part of the claims. The claims are on the lower part of a steep slepe and much of the surface is a talms slepe below bluffs.

PROCEDURE

The instrument used was a PMF-3 (No. 40512) which is read directly in gammas. Traverses were made along and from previously established base lines and tractor roads by pace and compass. Readings are shown in hundreds of gammas on the accompanying figure No. 1. All are positive except those indicated as negative.

MAGNETICS AND INTERPRETATION

The magnetic intensity differs very markedly in the central part of the group, from high readings of 15,500 gammas to -2,500 gammas. Sharp changes occur within short distances, indicating that the bodies causing the readings

are relatively close to the surface.

The reason for the prenounced negative readings is not known. They occur on both margins of the general area. They may be caused by negative polarity of magnetic bodies. Alternatively, they may be caused by the shallow lower poles of some of the magnetic masses that cause the positive readings. Possibly some combination of these alternatives may be true.

Inasmich as the explanation is unknown, an outline has been drawn around the anomalous areas, including the negative ones. It is almost 800' long and up to 500' across. Within this area most of the readings are anomalous and outside of it most of the readings are normal, that is, between 700 and 1,700 gammas. This area trends north-morthwest. It probably is caused by a complex pattern of bodies under different depths of cover.

A depth estimate to the upper part of the body with the steepest profile, that is, the one just north of point A, is 30' (see Figure 2). The other bodies are presumed to be at greater depths because their profiles are less steep.

Intensities of 15,000 gammas, 30' above the causative body, indicate that the intensity at the surface of the body probably would be in the range of 30,000 to 50,000 gammas and this suggests that these intensities would be caused by bedies with a high proportion of magnetite.

The marked increase in intensity to be expected as the cause is approached, was confirmed by taking some readings at ground level - 3' below the usual level. These generally were higher - some more than 4,000 gammas higher.

A series of readings at ground level were taken along the sections with the highest readings, that is, sections AB and CD. The ground level readings can be used to calculate the vertical gradient and this was done to find out what informa-

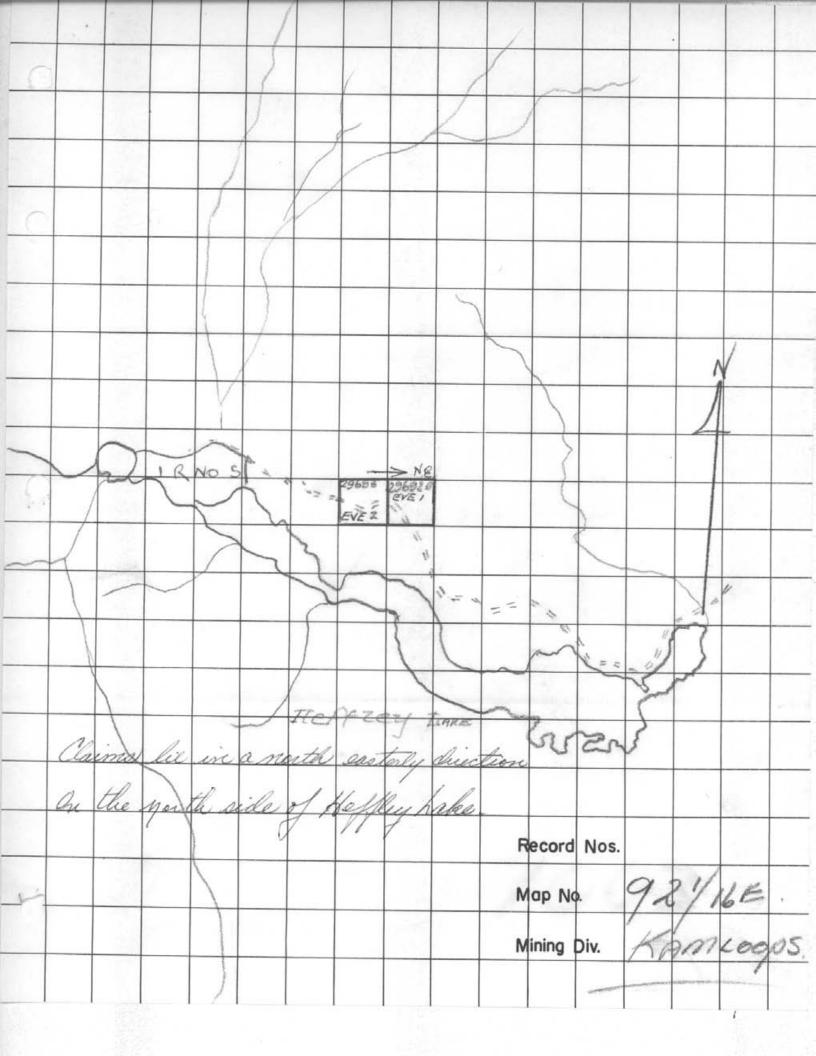
tion this would provide about the limits of the equative body (see Canadian Mining Journal, volume 85, pp 59-64).

As may be seen from section AB (Figure 2), there appear to be two bodies, about 125' and 115' wide respectively, along the line of traverse, separated by about 30' of ground which is non-magnetic. In section CD, the width of the causative body appears to be 200', which is somewhat greater than appears from the readings taken at normal height.

DIPLOTORIT

One person, J. M. Black, P.Eng., directed the work and carried it out. The work was done in four days on the following dates: May 10th and 12th, † day each; on May 11th, 22nd and 23rd./967

JaPshuch. May 29/67



DOMINION OF CANADA:

Province of British Columbia. In the Matter of

To Wit:

GUB-MINING RECORDER RECEIVED

1. In Black

Vancouver.

in the Province of British Columbia, do solemnly declare that the cort of the geophysical survey and vepert on the Ever group, Kambrops A.D. done in they 1967 was cost Hazo es follous.

* IM Black Adays & 50 sentel of magnetimeter titel

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the Coto of Farcoure in the physical Columbia, this 25

day of

A Commissioner for taking Affidavits for British Columbia or A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

