

GEOLOGY OF ROWAN LAKE CLAIPE, NORMALA FILMED HILD.,

DISTRICT OF KENORA, ONTARIO

Location

The Claims described in this report are situated near the northwest extremity of Rowan lake, just south of Denmark lake and a few miles south of Deer (Atikwa) lake, District of Kenora, Ontario. The property is nearly 50 air miles south-east of the town of Kenora. Access is by air from Kenora or Sioux Narrows but the claims may be readily reached by water from Lake of the Woods or the Kenora-Fort Frances highway, with a few short portages.

Claims

The area mapped comprises about 15 claims; K15731 to K15745 inclusive and K15755. Most of them are situated on the shore line of Rowan lake, and some include small islands.

General Geology

Most of the rocks on the claims are andesitic or basaltic Keewatin volcanics, very well exposed, particularly on the extensive shore line. They are largely pillow lavas, steeply dipping, in places to the west. They face west to north-west. These volcanics can be subdivided into several different units with somewhat different characteristics, which, on mapping, confirm a northerly to north-easterly strike. Most of the pillowed rocks show small white spots which are altered feldspar crystals. A zone on the east half of the property shows a development of these up to 2 inches or more across, mostly in a massive matrix but some are within pillow rims. On K15755 identical crystals may be seen arranged in sheets in a massive medium-grained basic rock which seems to be intrusive. Well developed flow breccia appears in the south-eastern corner of the claims. On the eastern half of the group a considerable mass of gabbro intrudes the volcanics, the shape apparently influenced by structure of the intruded rocks. In the western half an appreciable amount of diorite occurs, possibly later than the gabbro.

Small granitic porphyry dikes of several sorts are rather common. They are rarely more than a few feet across. These appear to be later than any of the other rock types. There are also some thin trap dikes, at least some of which are earlier than the porphyry.

The north contact of the extrusive rocks occurs with an east-west strike across the south end of K15755. North of this is an intrusive complex of many different rock types, principally a dark green highly altered gabbro, a much fresher diorite and, at the north extremity, a granodiorite. These are cut by a few narrow granite, syenite porphyry and trap dikes. There is some rusty quartz-carbonate vein matter. The volcanics immediately south of this complex strike east and west, facing north, apparently a local condition.

Diamond Drilling

A strong anomaly exists under the Lake in the above complex. Two diamond drill holes, were put down during the summer of 1952 to intersect the anomaly. They cut the same types of rock to be seen on the shore, except for a spotted talcose rock, apparently indicating a zone of strong metamorphism and shearing.

Structure

The volcanics mapped seem to be monoclinal with indefinite but steep dips. There are probably gentle flexures but no sharp folding

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was found and no indication of major faulting. Considerable evidence of disturbance, shearing and faulting appears in the intrusive complex north of the volcanics but the contact does not seem to represent a fault. A pattern is not easily found, as the claim is largely water, but there may be some strong shearing striking northwest.

Mineralization

Numerous small and inconspicuous showing of sulphides were found in the volcanics and a few rusty zones of some prominence may be seen on the lake shore. These are largely pyrrhotite with a little pyrite and commonly traces of chalcopyrite. They are usually in the interpillow areas, resembling the principal mineralization at Deer lake. Here, however, extensive panning failed to show any gold. The claims have been thoroughly prospected and none of these indications shows any signs of continuity or importance.

What may be a second type of mineralization can be found in low ground near the west limit of the ground mapped, where several showings of copper mineralization seem to follow a narrow porphyry dike trending a little east of north. Appreciable chalcopyrite and magnetite may be found within one of these dikes on the shore line near the middle of the west side of K15755. The porphyry dikes apparently have localized the mineralization to some extent.

Conclusion

Although numerous scattered traces of sulphides occur, suggestive of the important copper-gold mineralization at Deer lake, all are very small, lack continuity, and carry no gold. Mapping does not suggest

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any reason for believing better mineralization could be found by further search. The interesting anomaly under the Lake on claim K15755 apparently does not indicate mineralization and is not worth further investigation.

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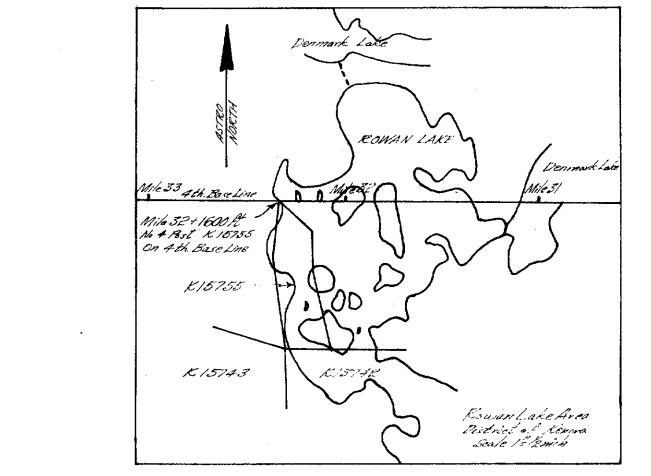
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