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Pontoon Lake
Property

Preliminary Report on Bulldozing

Northern Empire Mines Limited has uncovered interesting zinc-copper mineralization on its Pontoon Lake property in the Anvil - Vanguard area, Yukon. This property adjoins the Ivan claims of Anvil Mining Corporation Limited and is about 15 miles North of Anvil's Faro orebody and townsite.

Two geochemical anomalies have been explored by bulldozer trenching (see location on Figure 2 of July 31/67 report by Cathers). The first was a long anomaly which gave disappointing results. Work then shifted to an area over a mile long and half a mile wide containing several high zinc and copper anomalies with low lead response. Because of a steep hill-slope and problems caused by freeze-up, the strongest anomalies have not been trenched and work was confined to a weaker anomalous area where sulfide float had been previously found by prospectors.

Sphalerite, chalcopyrite and pyrite occur in Devonian chert and cherty argillites under a thin overburden cover. These rocks are completely different from those associated with the Faro, Vanguard and Swim deposits. The showings form a weak gossan area on the north side of the summit of a fairly low mountain, at an elevation of about 4,500 feet.

Mineralization has been exposed across a stratigraphic width of about 100 feet but has not been traced along strike. Assays of four grab samples range between 2.8 and 4.5% zinc, 0.04 and 0.10% copper, 0.18 and 0.32 oz/ton silver and 0.01 and 0.02 oz/ton gold.

Further trenching, sampling and diamond drilling is planned as soon as weather permits.

Respectfully submitted,
ARCHER, CATHRO & ASSOC. LTD.

H. J. Cathro

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