

NAME OF PROPERTY NAN (HAL) (IRON RANGE) (MONARCH) (LAKE VIEW)

OBJECT LOCATED - #96 - Map 92 I/NE (MI).

UNCERTAINTY IN METRES 300. Lat. 50°50'15" Long. 120°03'25"

Mining Division	Kamloops	District
County		Township or Parish
Lot		Concession or Range
Sec	Tp.	R.

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

Magnetite, pyrite, and minor chalcopyrite are present in a large body of skarn formed by alteration of Paleozoic Cache Creek Group limestones. The deposit consists of disseminated or massive magnetite with garnet and epidote in a fine-grained dense rock. A large body of crystalline limestone outcropping on a steep hillside above the showings is cut by numerous dykes of hornblende porphyry. An open cut exposes 6 feet of altered limestone with disseminated garnet, magnetite, and pyrite, followed by 6 feet of hornblende porphyry, then 10 feet of altered limestone with disseminations of garnet, magnetite and pyrite. Some drill core assays show values up to 1.67% copper.

Associated minerals or products - Copper.

HISTORY OF EXPLORATION AND DEVELOPMENT 92 I/16 FE 1

The property is located at an elevation of about 3,200 feet on the north side of Heffley Lake, 16 miles northeast of Kamloops. The showings are located in a range of low hills that borders the north shore of the lake.

The discovery of copper mineralization in about 1915 led to the staking of a number of claims, including the Monarch, owned by Hugh McLeod and associates, of Vancouver, and, about half a mile in an easterly direction, the Lake View owned by Archie MacDonald of Heffley Lake. Work reported included trenching and sampling. One of the claims was reportedly under option to The Granby Consolidated Mining, Smelting and Power Company, Limited.

In the early 1940's the property was held as the Iron Range group, owned by H. Stephens, of Kamloops. The workings at that time comprised a number of open cuts.

The property was held from about 1964 as the HAL group of 36 claims, owned by L.C. Hunt for Madison Oils Limited. The company carried out a magnetometer survey which indicated the presence of strong iron mineralization. Subsequent diamond drilling indicated reserves of 70 million tons of 30% iron (Northern Miner, July 27, 1967). The company carried out a geochemical survey in 1967, which indicated several areas anomalous in copper.

Western Canada Steel Limited apparently acquired the showings as the NAN 1 and 2 claims. J.M. Black of North Vancouver carried out a ground magnetometer survey over the claims in 1970. During 1973 magnetometer and electromagnetic-16 surveys were carried out by the company over 1.5 line-miles.

The property was held in 1976 as the Freda 1 claim (4 units) by Herb Allen of Merritt. Diamond drilling totalling 92 metres was done in deepening one old hole.

HISTORY OF PRODUCTION

REFERENCES

[†]Cockfield, W.E.; Geology and Mineral Deposits of Nicola Map-Area, British Columbia; Memoir 249, p. 143, Geol. Surv. of Canada, 1948.

Reports of Minister of Mines, British Columbia: 1915, p. 222; 1967, p. 137.

Mineral Policy Sector; Corporation Files: "Madison Oils Limited".

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 319; 1973, p. 218; 1976, p. E106 ^{††}.

MAP REFERENCES

Map 886 A, Nicola, (Geol.), Sc. 1":4 miles - accomp. Memoir 249.

Map 4784 G, Heffley, (Aeromag.), Sc. 1":1 mile.

*Map 92 I/16, Heffley, (Topo.), Sc. 1:50,000.

#Map 92 I/NE (MI), Kamloops Lake, Mineral Inventory, Sc. 1":2 miles, British Columbia Dept. of Mines.

REMARKS

Comp./Rev. By	DMacR						
Date	9-78						