**NAME OF PROPERTY**
MO (MATT) (TUZO CREEK)

**HISTORY OF EXPLORATION AND DEVELOPMENT**

This property is located at about the 4,700 foot elevation on the west side of the Westkettle River, between Tuzo and Big Goat Creeks, 5 miles south-southwest of Beaverdell.

The Matt group of 75 recorded claims were held by Kennco Explorations (Western), Limited, during 1961 and 1962. Work by the company included geochemical and induced potential surveys, geological mapping, and trenching. No significant mineralization was indicated and the claims were allowed to lapse.

Amax Exploration, Inc., acquired the property in 1965 as the MO group of 18 claims. A geochemical survey, and 188 feet of diamond drilling in 3 holes was reported during the year. The property was expanded to 27 claims. The area of principal interest was apparently extensively drilled in 1966 but details have not been reported. The property is said to contain a large low-grade molybdenum deposit in a north-easterly trending altered and sheared zone about 300 metres wide and 1,000 metres long (Geological Fieldwork, 1975, p. 30). Grades ranging from 0.06 to 0.28% Mo* occur in several zones 3-16 metres wide (CIM, Special Vol. 15, Table I, #3).

(*) Mo = molybdenum.

In 1981 E & B Explorations Ltd carried out 765 metres of diamond drilling in 1 hole.

Amax Inc. in December 1982 incorporated Canamax Resources Inc. to carry out Canadian exploration activities; at that time the company held 100% interest in the 830 acre property.

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**DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT**

Geological Survey of Canada Map 15-1961 shows the area to be almost wholly underlain by plutonic rocks mapped as Nelson, Valhalla, and Coryell. A small remnant of Anarchist greenstones, about 1½ miles long by 1 mile wide, is mapped on the eastward face of the hill about 1 mile south of Tuzo Creek.

The molybdenite mineralization is in plutonic rocks. The area of principal interest is included in the MO Nos. 6, 8, 17, 18, 19, and 20 mineral claims and underlies an area of some 2,300 feet in length and between 500 and 800 feet in width, with the longest dimension lying nearly east and west. The principal host rock is Valhalla quartz monzonite, which here is a medium-grained porphyritic rock with prominent quartz phenocrysts and a pink colour due to secondary potash feldspar. In drill cores the quartz monzonite is seen to grade into a fine-grained, feldspathic, pale buff-coloured quartz porphyry, locally termed the "white porphyry", which is possibly a marginal phase of the quartz monzonite. Granodiorite, a coarse-grained grey to greenish-white rock with prominent quartz, is known to be intruded by the "white porphyry" and therefore is presumably older than the quartz porphyry.

Associated minerals or products
Minéraux ou produits associés
- Copper, fluor spar

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**PRODUCT PRODUIT**
**MOLYBDENUM**

**PROVINCE OR TERRITORY**
British Columbia

**N.T.S. AREA**
82 E/6

**RÉGION DU S.N.R.C.**

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Monzonite. All of these rocks are intruded by porphyry dykes, some of which are pre-mineral and some post-mineral. They strike in two principal directions, northward and northeastward, the northward-striking ones being chiefly post-mineral.

Mineralization in the granodiorite consists of sparsely disseminated pyrite and chalcopyrite; molybdenite is in fractures, with quartz, striking westward and west of North. In the quartz monzonite, molybdenite occurs in dry fractures with magnetite and, rarely chalcopyrite. Some of the fractures contain quartz which is later than the metallic minerals. A magnetite-hematite mineralization in fractures has been recognized north and east of the molybdenite zone; it is thought that it may be peripheral. Alteration is widespread, and is of four varieties, of which one consists of silica, sericite, fluorite, and topaz.

MAP REFERENCES/REFERENCES CARTOGRAPHIQUES
Map 15-1961, Kettle River, (Geol.), Sc. 1":4 miles.
*Map 82 E/6, Beaverdell, (Topo.), Sc. 1:50,000.