

MINERAL EXPLORATION DIVISION

A.F.E. NO. _____

TITLE: BUSTER LAKE PROSPECT
BOSS MOUNTAIN AREA, BRITISH COLUMBIA

ESTIMATED
COST:

	Previously Approved AFE's	Total Expenditures to 12/31/70	Proposed AFE	Total Estimated Expenditure to 12/31/71
Acquisition	8,300	9,000	1,500	10,500
Salaries & Wages	8,850	4,100	1,000	5,100
Surveying & Mapping	5,000	28,200	500	28,700
Geophysics	19,400	13,200	-	13,200
Geochemistry	12,780	14,500	2,000	16,500
Outside Contract				
Services	17,800	7,200	-	7,200
Drilling (Percussion)	50,000		12,000	12,000
Excavation	5,000	1,200	1,500	2,700
Assaying & Sampling	5,440	5,450	-	50
Air Charter		700	-	700
Travel	4,390	4,850	1,000	5,850
Equipment		1,750	-	1,850
Miscellaneous	2,390	1,350	500	1,850
TOTAL	139,350	86,100	20,000	106,100

PROJECT
DESCRIPTION:

The Buster Lake claims adjoin, and surround on three sides Noranda's Boss Mountain molybdenum mine property and extend northwest along the contact of the Takomkane Batholith with older volcanics. The prospect consists of 220 full and fractional claims and is wholly owned by Cyprus. The mineralization at Boss Mountain Mine consists of molybdenite occurring along quartz filled fractures in granodioritic country rock, intruded by a younger quartz monzonite plug known as the Boss Mountain stock.

See 3/19/70 42,500 plus 14-19 E / 20,000 1971 budget.

Work carried out in 1969 on CMC's claims consisted of a reconnaissance geological mapping program and reconnaissance silt sampling with magnetic profiles along claim lines. During 1970, in addition to the completion of access roads, detailed silt sampling and grid soil sampling was carried out over the whole property. Additional geological data was not readily acquired due to the lack of outcrop. The staking of 13 new claims near the Boss Mountain Mine border has secured all intervening open ground.

Two molybdenum silt anomalies were sampled in more detail. The first of these situated near Buster Lake and remote from Boss Mountain Mine, proved spurious, and results could not be repeated. A second area adjacent to Noranda's claims showed up well in detailed silt and soil sampling, but may be a downhill dispersion anomaly from Boss Mountain complicated by the presence of side hill swamps forming local concentrations of molybdenum. Mercury values for two lines over this area showed highly anomalous values not directly associated with molybdenum highs.

WORK
PROGRAM:

The proposed work program for 1971 indicates the following:

1. Preparation and filing of assessment work to secure 88 of the original 220 claims for three years.
2. Lab geochemical work on previously collected samples.
3. Compilation of acquired geological geochemical and geophysical data.
4. Profile auger testing of suspected mercury and molybdenum anomalies adjacent to Boss Mountain Mine

- 5. Tractor trenching of proven anomalies where overburden thickness is limited.
- 6. Rotary drilling to test bedrock where overburden exceeds trenching depths.

Targets substantiated by the above work or from indications engendered by Noranda step-out drilling from Boss Mountain Mine, would require a diamond drilling program, not budgeted for under this AFE.

JUSTIFICATION:

Although primary drilling targets here were not established by the 1970 program it is considered that the widely dispersed anomaly adjacent to Boss Mountain Mine may be masking less intense, but significant anomalies on Cyprus holdings. Work to date ensures a holding position adjacent to Noranda who, it is felt must come up with a step out drill program in the near future to secure additional mine reserves. These circumstances fully justify a continued program of evaluation on the ground to be held.


APPROVAL:

DATE:



J. G. SIMPSON

29. 1. 71



J. B. P. SAWYER

Feb. 1, 1971



C. A. MARK

J. G. HANSEN

K. LIEBER
