

812598

PROPOSED EXPLORATION PROGRAM

EMPRESS PROJECT - 1968

By: J.S. Brock
May, 1968

104-M

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INTRODUCTION

During 1966 and 1967 Atlas Explorations, as a joint venture partner in the Empress Project, and later Empress Mines Ltd., prospected and staked properties in an area thought to be a possible northern extension of the Whitehorse copper belt. Subsequent and more detailed investigation of the claims groups and regional areas of high priority revealed that the AH 13-28 claims and the Bun Lake area warrant further work and evaluation.

Another project area has been submitted for consideration by Empress Mines Ltd., by Dr. A. E. Aho of Atlas Explorations. It has been proposed that the Wann River area of Tagish Lake, British Columbia (near Atlin, B.C.) receive attention through prospecting, reconnaissance and evaluation of known mineral occurrences.

AH 13-28 MINERAL CLAIMS

Complete reference to the geology and geochemistry of the AH mineral claims may be found in the report "Report on the Geology and Geochemistry of the AH Mineral Claims" by R. J. Darney, 1967.

Copper geochemical anomalies are peripheral to an intrusive diorite plug, a porphyry-type situation is suggested. The area is heavily covered by overburden and very little copper mineralization is visible, as the intrusive feature is associated with highly sheared and brecciated rocks in an area of high airborne magnetic response, it is recommended that:

1. A central grid be cut over the area of interest and ground magnetic and soil sampling survey be run.

2. Further geologic mapping to the north of the claim block
3. Further staking to the north of the claims for protective measures.

BUN LAKE AREA (136°28'W, 61°20'N)

Geochemical highs in molybdenum and copper were obtained from contour soil lines run downstream from a gossan area. Rock types consist of coast range granite which is silicified, well shattered and contains numerous quartz veins. These veins vary in size and contain low grade amounts of pyrite, galena and molybdenite.

Follow-up work in this area should consist of staking, grid type geochemical soil sampling, geologic mapping and magnetic surveys.

TAGISH LAKE AREA

With reference to the attached field sketch, exploration work is planned in the following areas (outlined in red).

Locality 1

Altered granite with disseminated pyrite and copper mineralization. Some geochemical work consisting of water sample testing was done in 1954, however no follow-up work was carried out. The area is attractive for exploration as copper occurrences are reported near the mouth of Wann River, as well as small lead-zinc veins. Near Falls, nickel occurs in association with ultrabasics (hornblendite) of north-south strike extending toward Nelson Lake. Similar ultrabasics also occur at the northwest corner of Cathedral Mountain.

Locality 2

Porphyry copper pebbles in Jurassic conglomerate. Copper also occurs south of Williston Bay in association with magnetite and molybdenite occurrences (localities 3 and 4).

This N-S belt is a regional structure with porphyry copper possibilities. The northern extension of this belt should be sought in the vicinity of Brownlee Lake.

Locality 5

Altered granite with disseminated pyrite extending northwest through Locality 6 and Brownlee Lake, possibly associated with zone of ultrabasics. There are possibilities of asbestos occurrences in this area as good fibre was reported from the vicinity of Golden Gate.

Major Areas 1 and 2 (shown in yellow)

Should be covered by geochemical reconnaissance and associated prospecting, presumably these areas have not been prospected in detail for base metals or asbestos.



PROJECT: EMPRESS

1. Personnel

Party Chief - Geologist	Kirkland	\$625/mo.
Field Assistant - Geophysics	Newsom	\$500/mo.
Field Assistant - Geochem	Harper	\$450/mo.

2. Program

June 21st-July 30th - Empress Project, AH 1-13 and
Bun Lake Area.

August 1st-30th - Tagish Lake

September - Crew return to Vancouver

June 20-30 Empress Project, Bun Lake Area

1. Geologic Mapping

Wages	200.00	
Travel	200.00	
Fixed Wing	200.00	
Camp Cost	100.00	
Supervision	100.00	
Misc.	200.00	
15% Overhead	<u>150.00</u>	\$ 1,150.00

2. Geochemical Surveys

Wages	400.00	
Travel	300.00	
Fixed Wing	200.00	
Camp Cost	200.00	
Supervision	100.00	
Misc.	200.00	
15% Overhead	<u>210.00</u>	\$ 1,610.00

July Empress Project (AH claims)

1. Geologic Mapping	4,000.00	
All inclusive		
2. Geochemical Surveys	7,000.00	
All inclusive		
3. Geophysical Surveys	2,000.00	
All inclusive		
4. Staking	<u>1,000.00</u>	\$14,000.00

August

Tagish Lake Area

1.	Geologic Mapping All inclusive	3,000.00	
2.	Geochemical Surveys All inclusive	5,000.00	
3.	Prospecting All inclusive	1,500.00	
		<u> </u>	\$ 9,500.00

ATLAS EXPLORATIONS LIMITED

(N. P. L.)

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

EMPRESS MINES LTD.

TAGISH PROJECT

PROPOSED BUDGET

August 1 - August 31, 1968

Expenditures calculated for coverage of Tagish Area as per report, "Proposed Exploration Program".

Crew to consist of:

1 Geologist	- Party Chief
1 Prospector	- Student Geologist
1 Silt, Soil Sampler	- Student Geologist

1. Geologic Mapping

(a)	Wages	\$1,000.00	
(b)	Travel (including fixed wing support from Atlin, B.C.)	300.00	
(c)	Camp Support Costs	300.00	
(d)	Helicopter Support (10 hrs.)	1,200.00	
(e)	Administration & Overhead	200.00	\$ 3,000.00

2. Geochemical Surveys

(a)	Wages	\$ 600.00	
(b)	Travel	300.00	
(c)	Helicopter Support (5 hrs.)	600.00	
(d)	Geochemical Analysis 1000 samples @ \$3.00 each for Cu, Pb, Zn	3,000.00	
(e)	Camp Support Costs	300.00	
(f)	Administration & Overhead	200.00	\$ 5,000.00

3. Prospecting

(a)	Wages	\$ 500.00	
(b)	Travel	300.00	
(c)	Camp Support Costs	300.00	
(d)	Administration & Overhead	100.00	\$ 1,200.00

TOTAL \$ 9,200.00

Contingencies 1,500.00

GRAND TOTAL \$10,700.00