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June 12th, 1968.

Mr. H. Ogata,  
Nippon Mining Co. Ltd.,  
475 Howe Street,  
Vancouver, B.C.

Dear Mr. Ogata:

Enclosed is the Budget for the Tagish Project as discussed with Dr. Aho. The program and budget has our approval and I will await your reaction prior to authorization to proceed.

Yours truly,

ATLAS EXPLORATIONS LIMITED,

R. E. G. Davis,  
Executive Vice-President

REGD/mp  
Encl.

# 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
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	Contingencies	1,500.00
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	GRAND TOTAL	\$10,700.00
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FROM		DEPARTMENT	
Marg Parker		DATE	
		SUBJECT	Empress Tagish Project

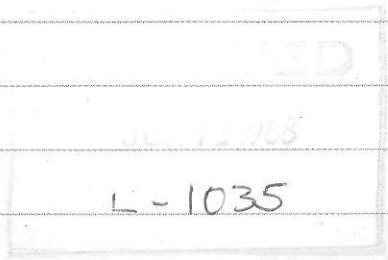
MESSAGE

Dear Marg,

As per instructions from A.E. Aho I have attached a copy of the budget for the Empress-Tagish project, this should be put into final copy, receive the director's approval and then be submitted to Ogata of Nippon Mining for his consideration. Dr. Aho expects this done while he is away as Ogata is waiting for this document now.

Please send two copies back to me.

jsb



USE LOWER PORTION FOR REPLY

REPLY FROM

DATE

**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	\$ 1000.00	
	b) Travel (incl. fixed wing support from Atlin, B.C.)	300.00	
	c) Camp support costs	300.00	
	d) Helicopter support (10 hours)	1200.00	
	e) Administration, overhead	200.00	\$ 3000.00
2) Geochemical Surveys	a) wages	600.00	
	b) travel	300.00	
	c) helicopter support (5hr)	600.00	
	d) Geochemical analysis 1000 samples @ \$3.00 ea for Cu, Pb, Zn	3000.00	
	e) camp support costs	300.00	
	f) administration and overhead	200.00	\$ 5000.00
3) Prospecting	a) wages	500.00	
	b) travel	300.00	
	c) camp support costs	300.00	
	d) administration and overhead	100.00	\$ 1500.00
			<hr/>
	TOTAL		\$ 9500.00
	Contingencies		1500.00
	GRAND TOTAL		\$11000.00

*Empress*

May 10th, 1968.


Mr. H. Ogata,  
Nippon Mining Co. Ltd.,  
475 Howe Street,  
Vancouver, B.C.

Dear Mr. Ogata:

I regret that I have not had time to review the proposed 1968 Empress Project with you, as I have been called to Whitehorse earlier than I had first anticipated.

I have, however, enclosed a brief report outlining our program planned for the coming summer. You will notice that I have included a program we will be carrying out in the Tagish Lake area as previously mentioned to you by Dr. A. E. Aho.

Dr. Aho and Mr. R. E. Gordon Davis will be back in Vancouver May 20th, at which time they will be able to provide you with more detail if you so require.

READ	TO	ACT
	Yours truly,	
	REGD	
	ATLAS EXPLORATIONS LIMITED,	
	T.P.L.	
	J. S. Brock,	
	Operations Manager.	
		
RETURN TO		
FILE:		
SEE OVER FOR COMMENTS:		

JSB/mp  
Attch.

## PROPOSED EXPLORATION PROGRAM

### EMPRESS PROJECT - 1968

#### 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	
		<hr/>	\$ 9,500.00

#### Locality #1

Altered granite with disseminated pyrite also high copper-geochem from water tests in 1954. No follow-up done. This general area is good to concentrate on since copper occurs near mouth of Wann River in lead-zinc veins (small showings) and also at Falls associated with nickel in ultrabasics (hornblendite) in a N-S zone of ultrabasics extending toward Nelson Lake.

#### Locality #2

Porphyry copper mineralization occurs as chalcocite in quartz monzonite pebbles in Jurassic conglomerate - source perhaps eroded away but may be in general vicinity. Copper also occurs south of Williston Bay associated with magnetite and with molybdenite (localities 3 and 4)

Copper mineralization appears to occur in granitic rocks south of Willison Bay. It may be the source of the copper pebbles in the conglomerate at Cathedral Mountain. Consult G.S.C. maps by R. L. Christie for data on intrusive area and granite age. This is a favourable belt of copper mineralization along the eastern boundary of the coast batholith similar to the regional locations of other major copper camps in B.C.

#### Locality #5

Also altered granite with disseminated pyrite and a fault zone through notch in ridge probably extending up side of Brownlee Lake with carbonatization in the vicinity of locality #6, possibly associated with a zone of ultrabasics. Asbestos also may occur in this area since very good fibre was reported brought in from a mink ranch in vicinity of Golden Gate (discoveror deceased about 1951). Quality of fibre analysis tested by Federal Government - possibly another discovery similar to Cassiar.

All of the area in the vicinity of Brownlee Lake through Hale and northwest of Brownlee Lake should be covered by geochem reconnaissance and associated prospecting. Much of it is low lying wooded terrain very difficult to traverse because of old burn and fallen logs. Presumably it may not have been prospected for base metals or asbestos.

#### Locality #1

Altered granite with disseminated pyrite also high copper-geochem from water tests in 1954. No follow-up done. This general area is good to concentrate on since copper occurs near mouth of Wann River in lead-zinc veins (small showings) and also at Falls associated with nickel in ultrabasics (hornblendite) in a N-S zone of ultrabasics extending toward Nelson Lake.

#### Locality #2

Porphyry copper mineralization occurs as chalcocite in quartz monzonite pebbles in Jurassic conglomerate - source perhaps eroded away but may be in general vicinity. Copper also occurs south of Williston Bay associated with magnetite and with molybdenite (localities 3 and 4)

Copper mineralization appears to occur in granitic rocks south of Willison Bay. It may be the source of the copper pebbles in the conglomerate at Cathedral Mountain. Consult G.S.C. maps by R. L. Christie for data on intrusive area and granite age. This is a favourable belt of copper mineralization along the eastern boundary of the coast batholith similar to the regional locations of other major copper camps in B.C.

#### Locality #5

Also altered granite with disseminated pyrite and a fault zone through notch in ridge probably extending up side of Brownlee Lake with carbonatization in the vicinity of locality #6, possibly associated with a zone of ultrabasics. Asbestos also may occur in this area since very good fibre was reported brought in from a mine ranch in vicinity of Golden Gate (discoveror deceased about 1951). Quality of fibre analysis tested by Federal Government - possibly another discovery similar to Cassiar.

All of the area in the vicinity of Brownlee Lake through Hale and northwest of Brownlee Lake should be covered by geochem reconnaissance and associated prospecting. Much of it is low lying wooded terrain very difficult to traverse because of old burn and fallen logs. Presumably it may not have been prospected for base metals or asbestos.

*Emerson King  
Open File*

#### Locality #1

Altered graphite with disseminated pyrite also copper - geochem analysis and water tested 1954. No follow-up done. This general area is good to concentrate on since copper occurs near mouth of Wann River in lead zinc veins (small showings) and also at Falls associated with nickel in ultrabasics (hornblende veins) of N-S ultrabasics extending toward Nelson Lake, also northwest corner of Cathedral Mountain.

#### Locality #2

Porphyry copper mineralization occurs as copper in quartzite conglomerate - source perhaps mid-way but may be in general vicinity. Copper also occurs south of Willow Lake associated with magnetite and molybdenite.

#### Locality #3 & #4

through a copper belt with porphyry copper occurring in the general regional set up. The northern extension of the belt should be sought in the vicinity of Brownlee Lake.

#### Locality #5

Also altered graphite with disseminated pyrite and fault zone through notch in ridge probably extending up side of Brownlee Lake with in the vicinity of locality #6, possibly associated with zone of ultrabasics. Asbestos also may occur in this area since very good fibre was brought in from a mink ranch in vicinity of Golden Gate (discoveror deceased about 1951). Quality of fibre analysis tested by Federal Government - possibly another discovery similar to Cassiar.

All of the area in the vicinity of Brownlee Lake through Hale and northwest of Brownlee Lake should be covered by geochem reconnaissance and associated prospecting. Much of it is low lying wooded terrain very difficult to traverse because of old burn and fallen logs. Presumably it may not have been prospected for base metals or asbestos.

Copper mineralization appears to occur in granitic rocks south of Willison Bay. It may be the source of the copper pebbles in the conglomerate at Cathedral Mountain. Consult G.S.C. maps by R. L. Christie for data on intrusive area and granite age. This is a favourable belt for copper mineralization along the eastern boundary of the coast batholith similar to the regional locations of other major copper camps in B.C.