

812148

A.F.E. NO. _____

TITLE: BULKLEY VALLEY RECONNAISSANCE PROJECT
SMITHERS ARFA, BRITISH COLUMBIA

ESTIMATED COSTS:

OUTSIDE CONTRACT SERVICES

Administration	\$ 5,500
Surveying & Mapping	2,800
Geophysical (Airborne)	35,000
Geophysical (Ground)	6,700
Acquisition Costs	9,000
Miscellaneous	1,000

\$ 60,000

PROJECT DESCRIPTION:

The Bulkley Valley Reconnaissance project area covers approximately 450 square miles at Smithers, British Columbia. It extends from Moricetown on the northwest to Houston at the southeast, a distance of 50 miles, and is readily accessible by highway, logging roads and commercial air services. It is essentially overburdened except on the peripheral areas. Cyprus have a right to acquire 100% interest in any target revealed by this survey.

Porphyry copper-molybdenum mineralization is the principal target in this area. During the past 15 years, five such mineral discoveries have been made in the immediately adjacent mountainous areas.

The geology of this favourable area is outlined on Geological Survey of Canada Map #971A. Volcanic and sedimentary rocks of Jurassic and Lower Cretaceous Age belonging to the Hazelton Series underly the area. These are intruded by the Topley granites, Omenica granodiorites and early Tertiary acidic to intermediate intrusives. Ore-making conditions on the surrounding copper-molybdenum deposits project into the focal area. A slight magnetic "low" anomaly transverse to regional structure overlies the Newman (Noranda) copper deposit.

It is proposed to conduct a helicopter-borne magnetometer/electromagnetic survey to search for geophysical targets of merit. Targets considered to offer a potential for success should be staked or optioned if already held.

Federal aeromagnetic maps of the project area are expected for release in late February, 1969. Upon release it is planned to stake possibly 6 to 8 claims only on the centre of any significant anomalies revealed on these maps for ground follow-up during summer field conditions.

WORK
PROGRAM:

prus will manage the project. About 1,000 line miles at one-quarter mile spacings involving airborne geophysical instrumentation are proposed over selected target areas. The flight altitude will be approximately 100 feet above ground level. Administration will be contracted to Roy W. Woolverton, Consultant, on a retainership basis. Areas to be surveyed will be chosen following a geological-aeromagnetic compilation. Any target revealed by the airborne surveys and considered to be of merit will be acquired if open for staking. It is planned to have standby-crews available to stake 6 to 8 claims on any anomaly of merit at the time of the Federal Government aeromagnetic map release late in February. Contract work by outside services are proposed for the entire project.

JUSTIFICATION:

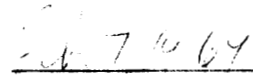
Statistically, the Bulkley Valley Reconnaissance area offers a strong potential for success. Known mineral deposits in the immediate area of this project support the basic premise, this is one of more promising areas for geophysical prospection. Recently Kennecott have discovered a sizeable molybdenite prospect in Tertiary rocks immediately to the south of the focal area. Noranda also have made a copper find just west of Babine Lake northeast of the prospect area.

RECOMMENDATION:

We recommend the expenditure of \$ 60,000 to implement the proposed work program in the Bulkley Valley prospect area.




C. A. MARK



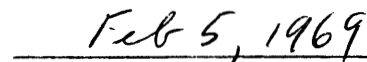
DATE

APPROVED:



D. W. TULLY

DATE



DATE

MINEPPT. EXPLORATION DIVISION

A.F.E. NO. _____

TITLE: BULKLEY VALLEY RECONNAISSANCE PROJECT
SMITHERS AREA, BRITISH COLUMBIA

ESTIMATED
COST:

<u>BUDGET TITLE</u>	<u>RECON EXPENDED 31/5/69</u>	<u>PROPOSED A.F.E. NO.</u>	<u>ESTIMATED TOTAL COSTS</u>
→ Acquisition Costs	C\$ 8,487 ✓	C\$ 1,500	C\$ 9,987
→ Surveying & Mapping	1,300	1,500	2,800
Assaying & Sampling	- -	500	500
→ Administration	4,700	1,500	6,200
→ Outside Contract Services	9,045	3,000	12,045
Geophysics	15,175	2,000	17,175
Geochemical	- -	1,500	1,500
→ Wages	3,700 ✓	4,000	7,700
Equipment	2,484	1,080	3,564
Travel	3,790	1,000	4,790
Air Charter	10,300	1,200	11,500
Miscellaneous	1,325	1,000	2,325
TOTAL	C\$ 60,306	C\$ 19,780 ✓	C\$ 80,086

Additional funds requested - C\$ 19,780

PROJECT
DESCRIPTION:

The Bulkley Valley Reconnaissance Project area covers approximately 450 square miles at Smithers, British Columbia. It extends from Moricetown on the northwest to Houston at the southeast, a distance of 50 miles, and is readily accessible by highway, logging roads and commercial air services. It is essentially overburdened except on the peripheral areas. Cyprus have a right to acquire 100% interest in any target revealed by this survey.

Porphyry copper-molybdenum mineralization is the principal target in this area. During the past 15 years, five such mineral discoveries have been made in the immediately adjacent mountainous areas. Examples are Amax, Kennecott and Noranda.

The geology of this favourable area is outlined on Geological Survey of Canada Map #971A. Volcanic and sedimentary rocks of Jurassic and Lower Cretaceous Age belonging to the Hazelton Series underly the area. These are intruded by the Topley granites, Omenica granodiorites and early Tertiary acidic to intermediate intrusives. Ore-making conditions on the surrounding copper-molybdenum deposits project into the focal area.

Federal aeromagnetic maps of the project area were released on April 8th. As a result of this information, five claim groups were staked as shown on the attached Schedule "A" commencing that date.

Dunalter	48 claims
Sheedy	36 claims
Tat	74 claims
Walcott	146 claims
Canyon Creek	24 claims
<hr/>	
TOTAL	328 claims

1,130 line-miles of helicopter-borne combined Lockwood Mark III and Gulf magnetometer survey was flown over the project area at 1/2 mile flight line spacings during the period April 8, 1969 through May 1, 1969. This reconnaissance program cost \$60,000. Test lines were also flown over the Amax Hudson Bay Mountain molybdenite deposit, the Noranda Big Onion porphyry copper-molybdenite deposit, and the Whitesail porphyry prospect. The results of these test lines gave valuable geophysical profile data to evaluate some 135 anomalous conductor indications found by the helicopter-borne survey over the project area. Further evaluation of this large number of anomalous conductors is now underway on the ground. At least 12 of these conductor conditions occur on the Dunalter, Sheedy, Tat, Walcott and Canyon Creek claim groups, and an additional 18 are located adjacent to these groups.

WORK
PROGRAM:

As a result of the airborne geophysical survey, a program of ground evaluation is underway through contract to Evergreen Explorations. Geological mapping, ground magnetometer and electromagnetic surveys, and geochemical reconnaissance work is in progress on the Dunalter, Sheedy, Tat, Walcott and Canyon Creek claim groups and also those airborne geophysical anomalies considered worthy of ground follow-up. It is planned to complete this program by the end of June and prepare the project. An additional C\$ 19,780 is needed to complete this program.

JUSTIFICATION:

Statistically, the Bulkley Valley Reconnaissance area offers a strong potential for success. Known mineral deposits in the immediate area of this project support the basic premise, this is one of more promising areas for geophysical prospection. Recently, Kennecott have discovered a sizeable copper-silver prospect in Tertiary rocks immediately to the south of the focal area. Noranda also have made a recent copper find just west of Babine Lake and northeast of the prospect area.

RECOMMENDATION:

We recommend the additional expenditure of C\$19,780 to implement the proposed work program in the Bulkley Valley prospect area.

C. A. MARK

DATE

APPROVED:

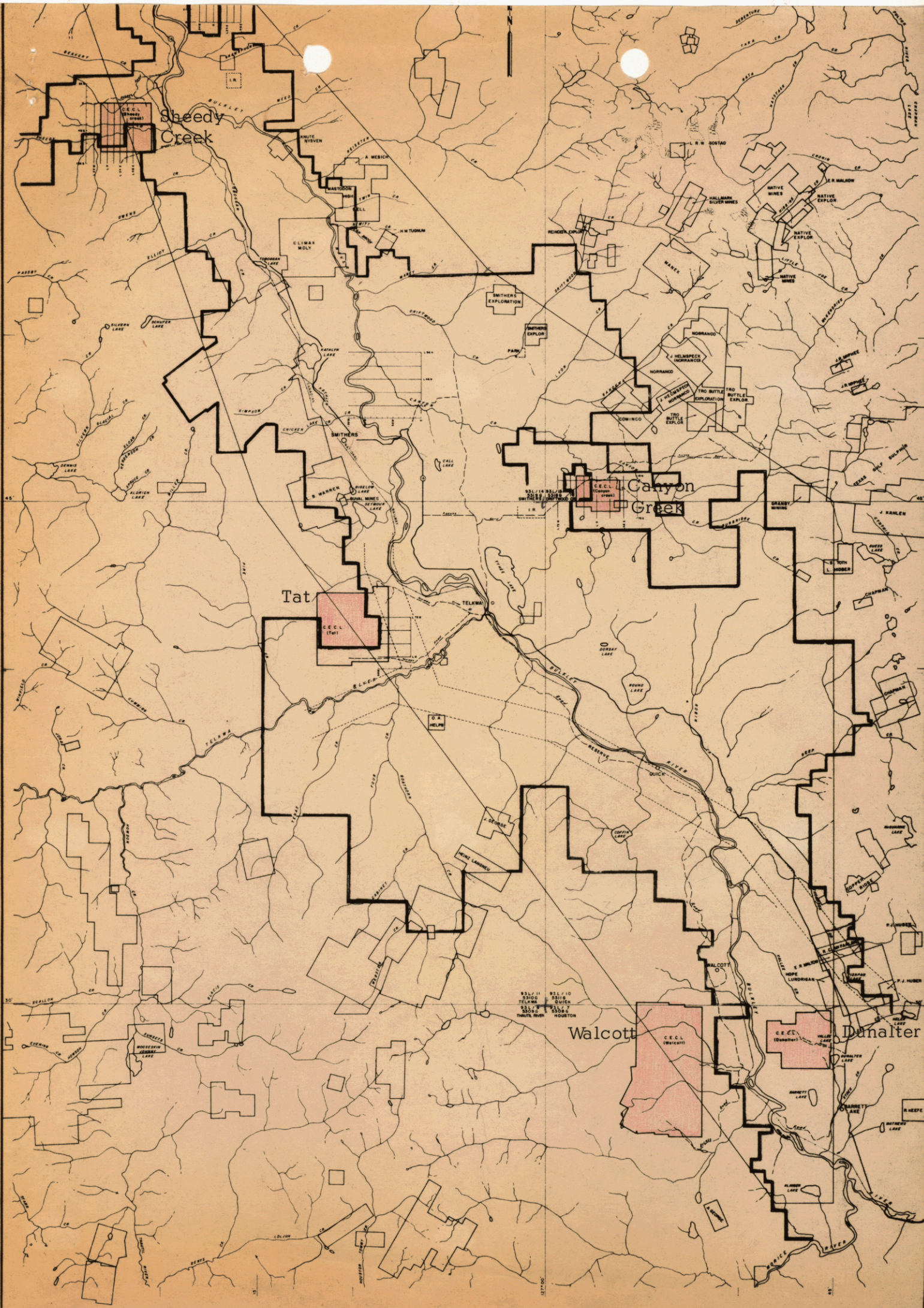
Donald W. Tully

D. W. TULLY

DATE

June 5 / 69

DATE



INTER OFFICE MEMO

CYPRUS EXPLORATION CORPORATION
VANCOUVER OFFICE

TO	CAM	REPLY	
		COMMENT	
RETURN TO			
LTD. MAY 19 1969			
1	TSM	5	
2		6	
3		7	
4		8	

Date: May 16, 1969

To: Mr. C. A. Mark
From: Mr. D. W. Tully
Subject: BULKLEY VALLEY PROJECT
PROPOSED A.F.E. - February 4, 1969

Attached is a second copy of the subject A.F.E. for your consideration and approval.

I believe our expenditures are now within 90% of the budget requested.

Donald W. Tully

DWT/jel

Attachment

INTER OFFICE MEMO

CYPRUS EXPLORATION CORPORATION LTD.
VANCOUVER OFFICE

Date: February 4, 1969

To: Mr. C. A. Mark
From: Mr. D. W. Tully
Subject: A.F.E.
BULKLEY VALLEY RECONNAISSANCE PROJECT

Attached is a copy of an A.F.E. for the subject reconnaissance, for your consideration and approval.

Donald W. Tully

DWT/jel
Attachment

TO	REPLY	
	COMMENT	
RETURN TO		
FEB 7 - 1969		
1	CAM CUB	
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<u>Estimated Cost</u>	Amount Expended in 1969. <u>Under Original AFE 19-69</u>	Proposed <u>AFE-19-69-A</u>	Total Estimated Expenditure
Acquisition.	\$ 1,595	1,200	2,795
Surveying & Mapping.	530	400	930
Outside Contract Services	3,458	600	4,058
Travel	495	700	1,195
Miscellaneous.		100	100
Salaries + Wages.		<u>500</u>	<u>500</u>
Total	6,078	3,500*	9,578

* Approximately \$3,238 had been expended through October 31, 1970.

TITLE: Walcott
Bulkley Valley
British Columbia

ESTIMATED COST:	Acquisition	1200
	Surveying and Mapping	400
	Outside Contract Services	600
	Travel	700
	Miscellaneous	100
	Salaries & Wages	<u>500</u>
	TOTAL	\$3500.

PROJECT DESCRIPTION:

The Walcott property consisting of 154 claims was acquired by staking in April/May 1969. The staking was based on recognition of a fairly large "aeromagnetic low" on maps released by the Geological Survey of Canada in April 1969. Since there was wide interest in these new maps it was essential that any areas of possible interest be staked immediately. Cyprus had a staking crew in the air, heading for the Walcott area by helicopter from Smithers, within one hour of the release in Vancouver of the new map. "Porphyry type" mineralization in granitic intrusive rocks is frequently accompanied by alteration which is reflected magnetically as a "low".

Although no intrusive rocks are indicated on published geological maps of the area research indicated that granitic rocks do in fact occur in this area and that some exploration work in 1967 by Amax Exploration had discovered and investigated molybdenum mineralization associated with the intrusive. Thus, it can be seen that our interpretation of the new aeromagnetic data was correct and the staking of the Walcott claims was justified.

Shortly after the Cyprus staking a small Vancouver based company, Fortune Channel Mines Ltd., staked claims adjoining and partly overlapping the Walcott claims and also acquired by option a small number of existing claims belonging to W.D. Smith of Houston, B.C. on which the work by Amax had been carried out.

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