

812755

GENERAL EXPLORATION DIVISION

A.F.E. 13-71-A

TITLE: ~~NATION~~ TCHENTLO LAKE MINES PROJECT  
BRITISH COLUMBIA

ESTIMATED  
COST:

	Actual Expenditures to 31/8/71	Proposed A.F.E. No. 13-71-A	Estimated Total Expenditure to 31/12/71
Acquisition	\$ 8,000 <del>5,440</del>	\$ 5,000	10,400 <del>13,000</del>
Salaries & Wages	10,400 <del>8,880</del>	-	8,880 <del>10,400</del>
Surveying & Mapping	750 <del>920</del>	1,000	1,920 <del>1,750</del>
Geophysics	7,200 <del>8,840</del>	2,300	11,140 <del>9,500</del>
Geochemistry	3,000 <del>2,890</del>	-	2,890 <del>3,000</del>
Outside Contract Services	5,000 <del>4,420</del>	-	4,420 <del>5,000</del>
Excavation	1,800 <del>2,070</del>	50	2,120 <del>1,850</del>
Drilling	14,650 <del>18,030</del>	30,000	48,030 <del>44,650</del>
Assaying & Sampling	350 <del>350</del>	650	1,000 <del>1,000</del>
Travel	3,600 <del>3,160</del>	-	3,160 <del>3,600</del>
Air Charter	1,100 <del>1,260</del>	-	1,260 <del>1,100</del>
Equipment	2,500 <del>2,290</del>	-	2,290 <del>2,500</del>
Miscellaneous	150 <del>150</del>	-	150 <del>150</del>
	<u>\$ 58,500</u>	<u>\$ 39,000</u>	<u>\$ 97,800</u> 97,500

PROJECT  
DESCRIPTION:

The Nation Lake Mines property now comprises 78 full and fractional claims situated on the north shore of Tchentlo Lake in central British Columbia, some 20 miles east of the projected Pacific Great Eastern Railroad extension from Fort St. James to Dease Lake. The prospect is a relatively new find, underlain in part by fractured and heavily mineralized granodiorite of Jurassic-Cretaceous age, near a contact with older andesitic basic volcanics. A joint venture agreement has been entered into whereby Cyprus may acquire 70% interest in this property, for an expenditure of \$665,000 over a period of four years, with a possibility of a further 10% at the end of the four-year period.

The expenditures which would be incurred by Cyprus will be on the following schedule:-

A.F.E. \_\_\_\_\_

TITLE: NATION (TCHENTLO) LAKE MINES PROJECT  
BRITISH COLUMBIA

ESTIMATED  
COST:

	Actual Expenditure to 31/8/71	Proposed A.F.E. No.	Estimated Total Expenditure to 31/12/71
Acquisition	8,000	5,000	13,000
Salaries & Wages	10,400	-	10,400
Surveying & Mapping	750	1,000	1,750
Geophysics	7,200	2,300	9,500
Geochemistry	3,000	-	3,000
Outside Contract Services	5,000	-	5,000
Excavation	1,800	50	1,850
Drilling	14,650	30,000	44,650
Assaying & Sampling	350	650	1,000
Travel	3,600	-	3,600
Air Charter	1,100	-	1,100
Equipment	2,500	-	2,500
Miscellaneous	150	-	150
	\$ 58,500	\$ 39,000	\$ 97,800

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The Nation Lake Mines property now comprises 78 full and fractional claims situated on the north shore of Tchentlo Lake in central British Columbia, some 20 miles east of the projected Pacific Great Eastern Railroad extension from Fort St. James to Dease Lake. The prospect is a relatively new find, underlain in part by fractured and heavily mineralized granodiorite of Jurassic-Cretaceous age, near a contact with older andesitic basic volcanics. A joint venture agreement has been entered into whereby Cyprus may acquire 70% interest in this property, for an expenditure of \$665,000 over a period of four years, with a possibility of a further 10% at the end of the four-year period.

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INTER OFFICE MEMO

CYPRUS EXPLORATION CORPORATION LTD.

TO		REPLY
VANCOUVER OFFICE		
RETURN TO		
SEP 27 1971		
1	<i>CAJ</i>	5
2	<i>1001</i>	6
3		7
4		8

Date: September 22, 1971

Ref. 1340-CVL

To: C. A. Mark

From: J. G. Simpson

Subject: SUPPLEMENTARY A.F.E. - NATION (TCHENTLO) LAKE MINES

Enclosed please find a supplementary A.F.E. covering additional proposed expenditures for diamond drilling on the above property as discussed.

JGS/jel

Encl.



MAS

TITLE: TCHENTLO LAKE MINES PROJECT,  
BRITISH COLUMBIA

ESTIMATED  
COST:

Acquisition	\$ 11,000
Salaries & Wages	8,000
Surveying & Mapping	2,000
Geophysics	8,000
Geochemistry	1,500
Outside Contract Services (Line Cutting)	2,500
Excavation	5,000
* Drilling	38,000
* Assaying & Sampling	1,000
Travel	5,000
Air Charter	1,500
Equipment	2,000
Miscellaneous	1,000

\$ 86,500

\* Target confirmation should be achieved within 7-8 weeks of commencement. A combined contract for diamond drilling on the nearby Nation Copper project and Tchentlo Lake Mines in 1971 will reduce overall drilling costs from about \$15 per foot to \$12 per foot.

PROJECT  
DESCRIPTION:

The Tchentlo Lake Mines property comprises 64 claims situated on the north shore of Tchentlo Lake in central B.C., some 20 miles east of the projected Pacific Great Eastern Railroad extension from Fort St. James to Dease Lake. The prospect is a relatively new find, underlain in part by fractured and heavily mineralized granodiorite of Jurassic-Cretaceous age, near a contact with older andesitic basic volcanics. A joint venture agreement is being negotiated whereby Cyprus may acquire 70% interest in this property, for an expenditure of \$500,000 over a period of four years, with a possibility of a further 10% at the end of the four-year period.

The expenditures incurred by Cyprus will be on the following schedule:-

### Cash Payments

Signing of Agreement	\$ 5,000
1st September, 1971	5,000
1st January, 1972	10,000
1st January, 1973	20,000
1st January, 1974	50,000
1st January, 1975	75,000

### Exploration Expenditures

To 31st December, 1971	50,000
To 31st December, 1972	125,000
To 31st December, 1973	250,000
To 31st December, 1974	375,000
To 31st December, 1975	500,000

Photogeological studies of the area show intense fracturing in an area measuring 3,000 by 4,000 feet, the southern half of which is coincident with a clearly defined and overlapping molybdenum/copper soil anomaly verified by Cyprus in 1970. Considerable caterpillar trenching, carried out by the present owners over the extreme western portion of the combined anomaly, lies outside the area of best copper values, and has revealed strongly fractured granodiorite with abundant sulphide on all fracture planes. While pyrite is the main mineral, minor amounts of molybdenite and chalcopyrite have been noted and high-grade molybdenite samples have been obtained from zones of intense shearing and silicification. Surface sampling of the trenched area indicates from .02 to 0.16% Moly over sampling widths of 200 feet. These assays compare favourably with surface assays for molybdenum at both Endako and Brenda over open-pit material.

### WORK PROGRAM:

The 1971 work program includes the preparation of a detailed topographic map from air photos, a detailed claim and grid survey, geochemical soil sampling, I.P. surveys, and dozer trenching. Diamond drilling will then be done on selected targets.


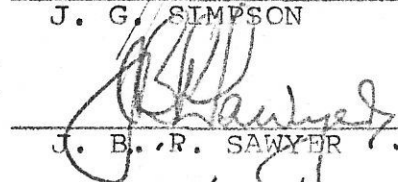




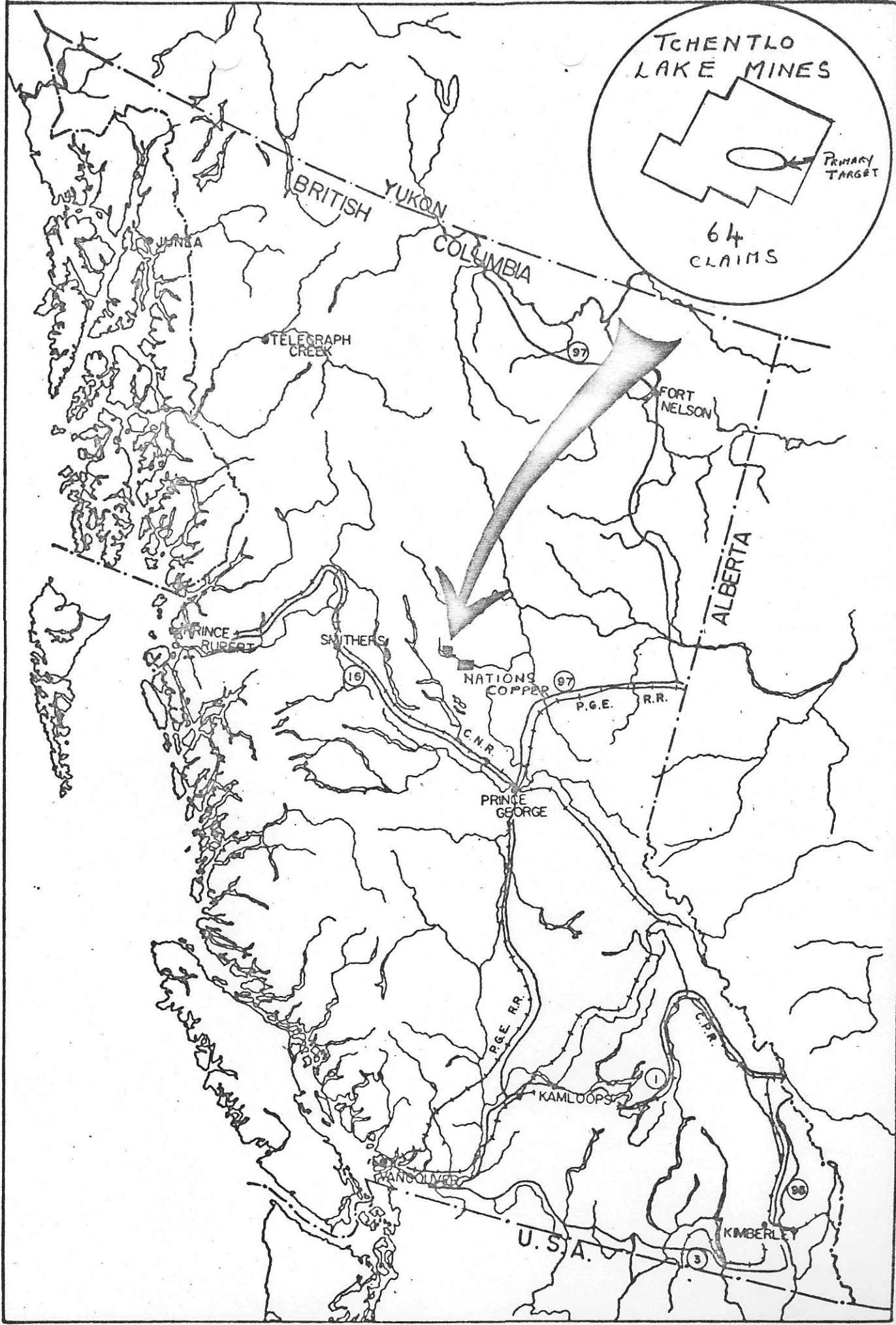
JUSTIFICATION:

The regional and local structural situation is ideally suited for a deposit of the Brenda or Highland Valley type, which are structurally controlled with mineralization largely confined to intensive fracture patterns. The presence of high-grade vein and shear controlled copper deposits to the north and southeast of the Tchentlo Lake property, and the coincidence of a highly mineralized fracture pattern and an extensive molybdenum/copper soil anomaly on the property, indicate a potential large low-grade open pit molv/copper orebody of the Brenda type, and provides ample justification for the proposed expenditures.

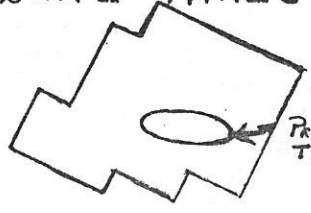
APPROVAL:

DATE:

 _____ J. G. SIMPSON	<u>19 MAR 71.</u> _____
 _____ J. B. R. SAWYER	<u>24.3.71.</u> _____
 _____ C. A. MARK	<u>March 26, 1971</u> _____
 _____ J. G. HANSEN	<u>4-1-71</u> _____
_____ K. LIEBER	_____
_____	_____



TCHENTLO  
LAKE MINES



64  
CLAIMS

PRIMARY  
TARGET

BRITISH COLUMBIA  
YUKON

ALBERTA

U.S.A.

JUNA

TELEGRAPH CREEK

FORT NELSON

PRINCE RUPERT

SMITHERS

NATIONS COPPER

PRINCE GEORGE

KAMLOOPS

VANCOUVER

KIMBERLEY

16

97

1

98

99

C.N.R.

P.G.E. R.R.

P.G.E. R.R.

C.N.R.

*Field work 1 June*

TITLE: TCHENTLO LAKE MINES PROJECT,  
BRITISH COLUMBIA

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COST:

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5,000

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1st September, 1971	5,000
1st <sup>March</sup> <del>January</del> , 1972	10,000
1st <sup>March</sup> <del>January</del> , 1973	20,000
1st <sup>March</sup> <del>January</del> , 1974	50,000
1st <sup>March</sup> <del>January</del> , 1975	75,000

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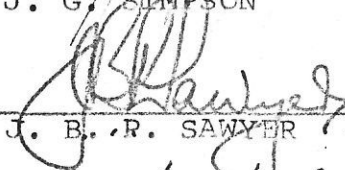
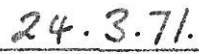

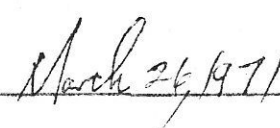
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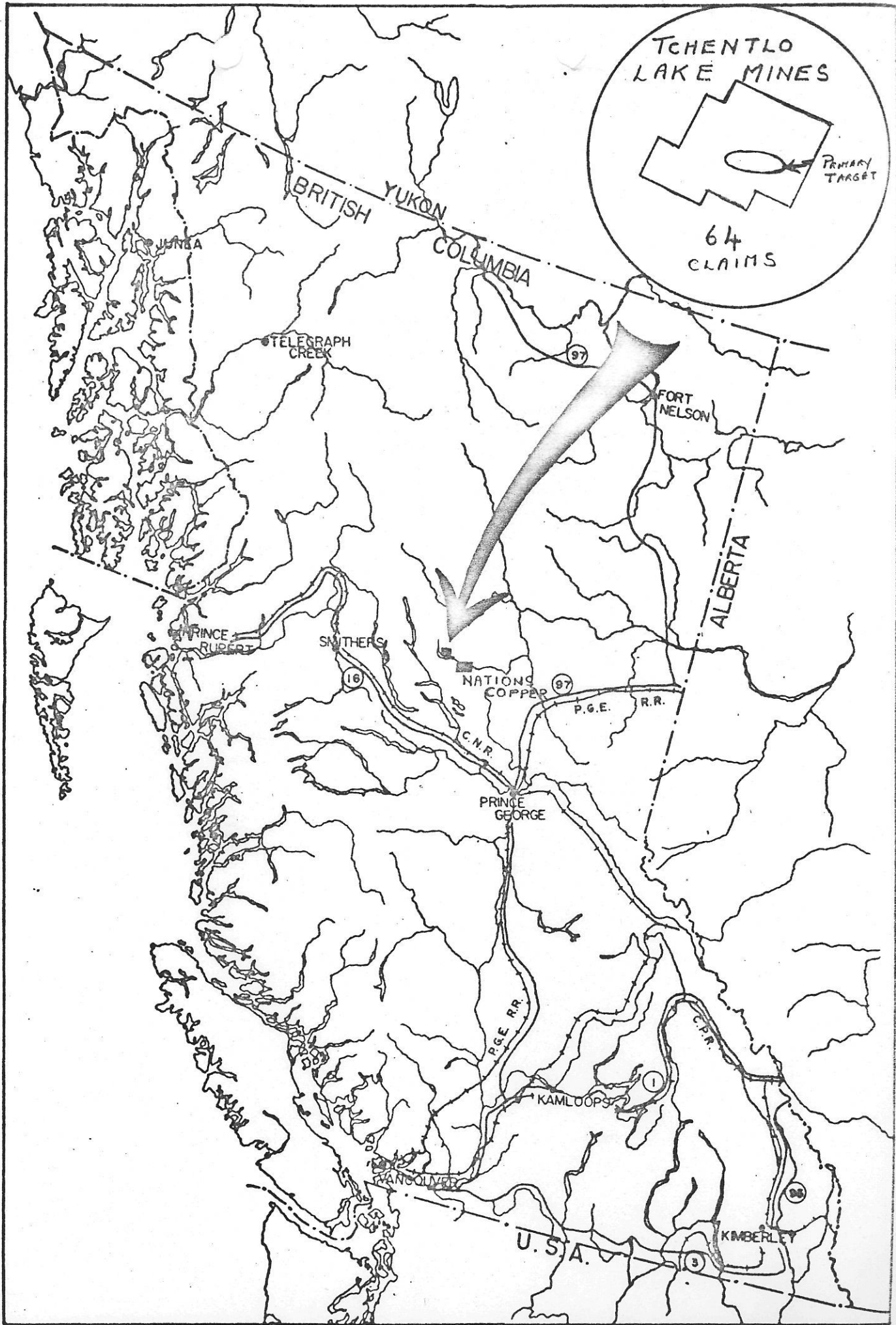
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TELEGRAPH  
CREEK

FORT  
NELSON

PRINCE  
RUPERT

SMITHERS

NATIONS  
COPPER

PRINCE  
GEORGE

KAMLOOPS

VANCOUVER

KIMBERLEY

C.N.R.

P.G.E. R.R.

P.G.E. R.R.

C.N.R.

97

97

16

1

36

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