

TO

DALE

CRYLAKE
104I

826003

FROM

DAL

DATE

March 18 76

PLEASE REPLY DIRECT

PLEASE HANDLE

PLEASE SEE ME

YOUR COMMENTS

FOR YOUR INFORMATION

FOR APPROVAL

PLEASE RETAIN

PLEASE RETURN

This is a remote, high
 COST AREA. I AM NOT
 sure that this fits
 our bill (no pun)
 even if the geology
 is good. LET'S

Discuss it

Agreed

we could do better
 than the phone book.

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

MAR 17 1976

To D. Lowrie From W. M. Sirola

Subject Potential Exploration Areas for Massive Copper Sulphides - Cry Lake Map Area, 104-I Date 15th March 1976

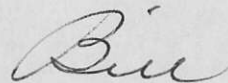
Enclosed please find a brief report and accompanying map assembled by John Lund.

We had at one time thought that we could carry out some geochemical investigation of part of this area, without resorting to claim staking, but it would appear that the staking is already hot and heavy to the West of Tucho Creek and if we were to get involved in this area, it mean staking a block of claims this winter. The area I would choose is Block #1 outlined in blue on the map. Some 420 units would be required to cover this area, and the cost would be from \$8-10,000.

I am somewhat surprised that there has been so much staking to the West of the Sumitomo - Imperial Oil area, in as much as the Paleozoic rocks which are host to the massive sulphides, plunge North Westerly under younger rocks.

The acquisition of these claims would fall within our 1976 budget, but geologic investigation of the ground would call for more money than we have currently available in our budget.

I realise that you have a great deal to think about, but I forward this information to show what planning we have been doing within British Columbia.

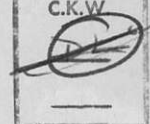


W. M. Sirola

WMS:1mp

enc:

I.D.B.
T.W.B.
J.K.C.
D.M.H.
G.M.H.
<u>E.C.J.</u>
W.J.
B.M.N.
S.P.
G.R.
M.D.R.
J.B.S.
C.K.W.



KERR ADDISON MINES LIMITED

SUITE 405 - 1112 WEST PENDER STREET
VANCOUVER 1, B.C.
PHONE 682-7401

9th March 1976

TO: W. M. SIROLA
FROM: J. C. LUND
SUBJECT: POTENTIAL EXPLORATION AREAS FOR MASSIVE COPPER SULPHIDES
IN THE CRY LAKE MAP AREA (104-I)

Imperial Oil Ltd. and Sumitomo Metal Mining Canada Ltd., have independently located massive sulphides in quartz sericite schists near the headwaters of an Eastern tributary of Kutcho Creek (58°12' : 128°24'). The occurrence is at an elevation of 4200 ft. and lies about 13 miles SSE of Rainbows Lake. These companies hold claims that cover close to 50 square miles.

These occurrences are in a sequence of metamorphic rocks, tentatively identified as Upper Paleozoic. Pyrite, chalcopyrite, sphalerite and bornite occur in quartz sericite schists in the form of disseminated grains and massive sulphide lenses, roughly concordant with the host unit.

Mineralisation has been traced for about 13 km along strike with the main area of interest within the Western 2 km. The metamorphic sequence includes a fine grained siliceous schist, quartz sericite schist, which is the host, quartz chlorite schist, interspersed with quartz dolomite and dolomite lenses, conformable with augen (quartz eye) schist. These are in the Greenschist metamorphic facies.

The meta-sequence is bound to the South by volcanoclastic rocks composed of feldspar and quartz feldspar-bearing tuffs and to the North by sedimentary rocks. They are folded about an East, South Easterly trending fold axis that plunges West, North Westerly under younger rocks at Kutcho Creek, thus limiting the Westerly extent of the host rocks to Kutcho Creek. No similar rocks occur West of Kutcho Creek. The sequence dips steeply to the North. The Paleozoic(?) rocks are in fault contact with Mesozoic strata along a major thrust that lies North of the Pitman River. Thrust movement has been Southerly - the mineralisation is in the upper thrust plate.

The occurrence of these schists is unique in the Northern Cordillera. Rocks with similar characteristics occur in the North West corner of the Toodogone map sheet, North of the Stikine River and in a narrow belt 25 km long, that lies East of Mount Cushing.

Total surface area of potentially favourable rocks in these two areas, aside from the Kutcho Creek region, is 320 square km. (An enclosed map shows the location of the Imperial Oil occurrence and the extent of potentially favourable rocks.) There are no known mineral occurrences in these late Paleozoic rocks in the Toodogone map area; neither were there known occurrences East of Kutcho Creek, until this recent massive sulphide find.

Summary and Conclusions

Massive sulphides occur in quartz sericite schists of upper Paleozoic age, North of the Pitman River, between Kitcho and Tucho Creeks. Extent of favourable mineralisation is limited to the West by overlying younger units. A similar metamorphic sequence occurs to the South East between the Pitman and Stikine rivers and in a narrow belt, East of Mount Cushing.

No known mineral occurrences have been reported in these late Paleozoic rocks in the Toodogone map area, however, they must be regarded as potentially favourable with a moderate probability of hosting a mineral occurrence.

Recommendations


A short term geochem sampling programme, utilising the expertise of John Hajek, geochemist, should be considered, concentrating our efforts on favourable rocks North of the Stikine River.

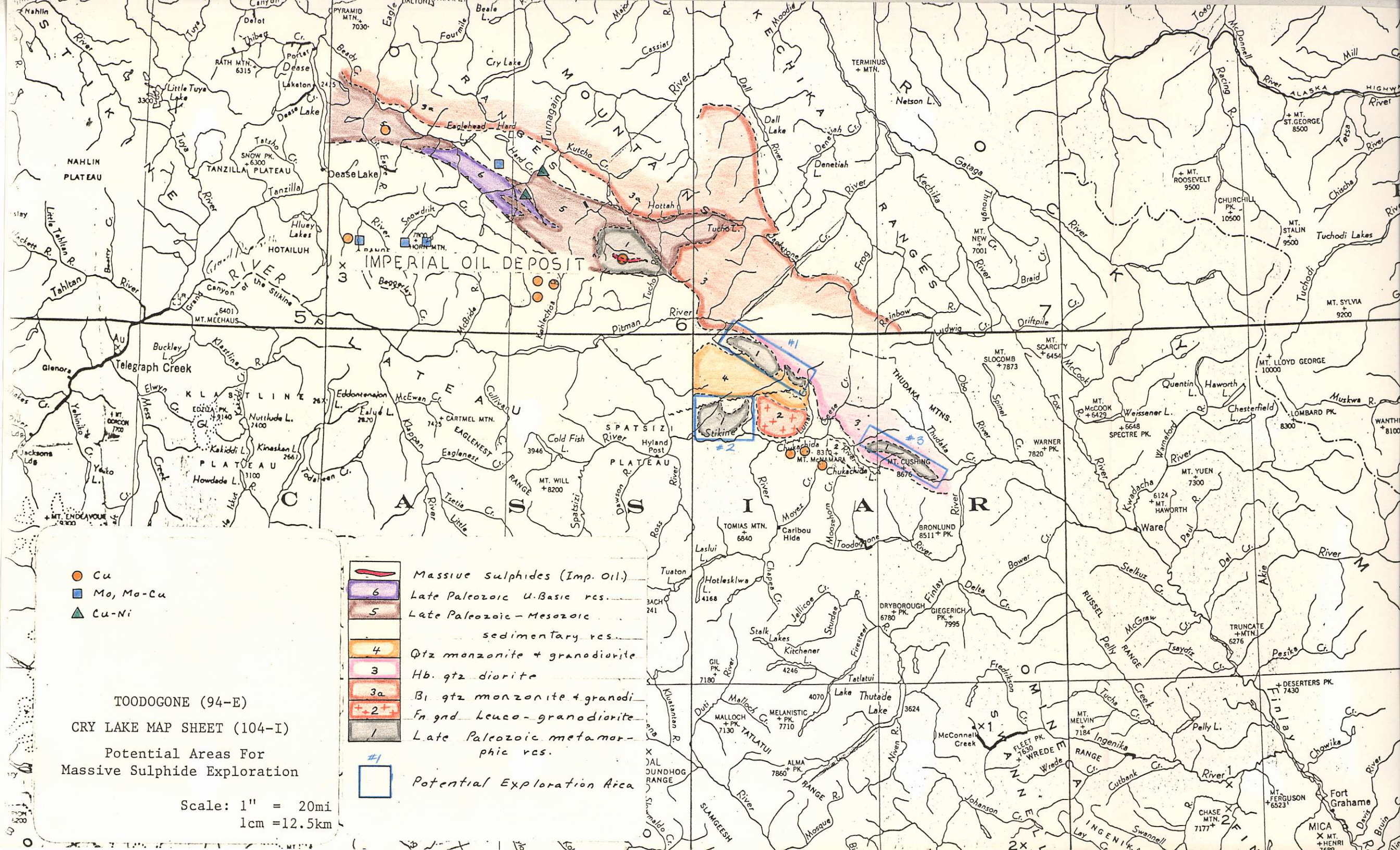
Best time for this work would be July or early August.

Estimated Cost

One month's work using a two man crew with helicopter as needed, to move camp:

Contract price to J. Hajek	\$4,700
Transportation in and out	1,500
Helicopter support	6,700
Sample Testing, 500 @ \$2.00	1,000
	<hr/>
	\$13,900
Plus contingencies	1,100
	<hr/>
TOTAL	\$15,000


John C. Lund



IMPERIAL OIL DEPOSIT

- Cu
- Mo, Mo-Cu
- ▲ Cu-Ni

- 6 Massive sulphides (Imp. Oil)
- 5 Late Paleozoic U. Basic res.
- 5 Late Paleozoic - Mesozoic sedimentary res.
- 4 Qtz monzonite + granodiorite
- 3 Hb. qtz diorite
- 3a B1 qtz monzonite + granodi
- 2 Fr qnd leuco-granodiorite
- 1 Late Paleozoic metamorphic res.
- #1 Potential Exploration Area

TOODOGONE (94-E)
 CRY LAKE MAP SHEET (104-I)
 Potential Areas For
 Massive Sulphide Exploration

Scale: 1" = 20mi
 1cm = 12.5km