

MEMORANDUM

9220

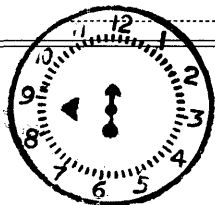
008981

TO Dr. J.T. Fyles,
Associate Deputy Minister.

FROM THE

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

VICTORIA, B.C., August 22nd, 1974



Re: G.E. Claims (92H/8W)

DEPT. OF MINES
AND PETROLEUM RESOURCES

Attached is a "Summary Report on part of the G.E. Group" prepared by Dr. V.A. Preto.

My impressions are as follows:-

- 1) Copper mineralization in the vicinity of trenches T-4 and T-7 on Figure 2 has been of some interest to several exploration companies. Preto's sample from trench T-7 ran 0.30% Cu and those from T-4 ran 0.14 and 0.05% Cu.
- 2) Drill holes A, C, T and 73-4 contain intersections grading 0.25 percent copper or higher. Intersections and grades are shown on the vertical sections, Figures 3 to 7.
- 3) These four holes suggest that there is a block of mineralization possibly 100 feet wide and 300 feet long. The deepest hole, 73-4 intersects 234 feet averaging 0.27 percent copper. This block to a depth of 250 feet would comprise about 600,000 tons whose average grade would probably be between 0.25 and 0.30 percent copper.
- 4) Should the five vertical 500 foot holes requested by Mullin be drilled in the positions suggested by Preto confirm the presence of mineralization, the horizontal outline of the block would not be significantly enlarged. However, the drilling should provide information that would confirm the grade and depth of the mineralization.
- 5) Previous drilling indicates that average grades higher than 0.40 percent copper are not likely to occur.
- 6) Demonstration that the mineralization extends to a depth of 500 feet would enlarge the tonnage of the block to about 1.2 million tons.

In my view neither the size nor grade potentials of the known mineralization justify the spending of Government money on further exploration of the property.

STUART S. HOLLAND,
Chief Geologist, Geological Division,
Mineral Resources Branch.

SSH/jr

cc: J.E. McMynn

WHEN REPLYING PLEASE REFER
TO FILE NO. ADM (92H/8W)

D.M.

ADM (P)

C.G.C.

C.P.R.

D.C.G.

A.C.P.R.

G.C.

A.C.C.T.S.

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

ADM (P)

SUMMARY REPORT ON PART OF THE G.E. GROUP (92H/8W)

INTRODUCTION

An examination of part of the G.E. group of claims near Princeton was made on August 12th and 13th. This work included assembling and examining all data available from Messrs. E. Mullin and G.I. Burr, the owners of the claims, locating and surveying by tape and compass as many old drill holes and claim posts as could be found, and examining and surveying by tape and compass all the trenches within the area of interest. Three grab samples were also collected from trenches T-4 and T-7 and these have been sent in to our laboratory for assay.

LOCATION AND ACCESS

The G.E. claims are located in open grassland on Bald Mountain (or Mount Miner) some 2.5 miles northeast of Princeton. Access is easy by way of a number of secondary roads.

HISTORY

The first work in this area was done in 1905. Granby held ground on Bald Mountain from 1951 to 1962 and up to 1955 did considerable trenching, some diamond drilling and geochemical and geophysical surveys. Messrs. Mullin and Burr staked the ground in 1962 and have held it to this date. Silver Standard optioned the property in 1962 and through Climax Copper Mines Ltd. did geological mapping, geophysical and geochemical surveys, diamond and other drilling and trenching at several localities.

Granby optioned the property in 1965 and drilled 41 percussion holes (G.P.H. holes on Fig. 2 to 7) totalling 5,880 ft. in the area of the Granby Trenches. In 1970 the property was optioned by Joy Mining who did some diamond drilling and made an effort to acid leach some highly oxidized material in the vicinity of the Regal Trenches. In 1971 D.C. Findlay consultants mapped the area on behalf of Selco Explorations Ltd. In 1973 Bethlehem Copper Corporation optioned the property from Joy and drilled five widely spaced diamond holes (B.D.D.H. on Fig. 2 and 5), two of which are in the area of the Granby Trenches. The property has now reverted to the owners, Messrs. Burr and Mullin.

GEOLOGY

Several areas of interest occur within the G.E. group of claims, the most important being those known as the Regal and Granby Trenches. The area of the Regal Trenches has been reported to be underlain by an old landslide deposit which supposedly rests on younger strata. Such slide probably originated from the area of the Granby Trenches which are on higher ground to the east. The slide material has been reported to contain several hundred thousand tons of oxide-sulphide material averaging about .50% total copper. An unsuccessful attempt at acid leaching this material was made by Joy Mining.

Other areas of some interest occur within the claim group but, on the basis of previous reports, do not appear to be particularly attractive.

The area known as the Granby Trenches (see Fig. 1) lies some 3,500 ft. to the east of the eastern edge of the Middle Eocene Princeton Basin and is underlain by highly fractured and altered Nicola volcanic rocks and by a medium grained, magnetic pyroxene diorite which is probably closely associated in age and origin with the Nicola rocks. Two zones of intensely broken, altered and deeply oxidized rock traverse the area in a northwesterly direction (see Fig. 2) and probably represent major fault zones. The southern of these areas is at least 300 ft. wide.

The main area of mineralization is located to the northeast of the two zones of crushing and alteration and consists of disseminations and fracture fillings of chalcopyrite and pyrite in saussuritized microdiorite. Where exposed in trenches the microdiorite is markedly magnetic. Considerable mineralization is exposed in trenches T-4 and T-7 in magnetic microdiorite.

The drilling done to date has yielded somewhat contradicting and puzzling results. All available drill information is shown in sections A to E (Figs. 3 to 7). The main points of interest can be summarized as follows:-

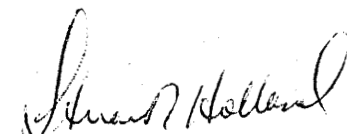
- 1) Bethlehem's diamond drill hole 73-4 yielded grades considerably higher than obtained in either of Granby's percussion holes Y and X which straddle it.
- 2) Values obtained in Granby's percussion holes S, C, D and M are at odds with apparently better grade mineralization reported, and in part still visible, from trenches T-4 and T-7 nearby.

- 3) Percussion holes A and T gave interesting sections and values but they may not have penetrated the full extent of the mineralized zone and, in view of the results obtained by B.D.D.H. 73-4, may have produced erroneously low assays.
- 4) The general recovery and depth of penetration obtained by several of Granby's percussion holes is such that their assays should be considered somewhat inconclusive.

In view of the above it would appear that the area in the vicinity of trench T-7 could still contain some appreciable copper mineralization. In order to test such a possibility the following work would be required:-

- 1) Trench T-7 and the central part of trench T-4 should be cleaned out, deepened, mapped and sampled.
- 2) A magnetometer survey should be done over the area of the Granby Trenches in an attempt to outline the extent of the microdiorite, with which most of the mineralization appears to be associated.
- 3) Five vertical diamond drill holes should be drilled to a minimum depth of 500 ft. These holes should be located at the sites of old percussion holes and drilled in the following sequence:-
Hole #1 at the site of G.P.H. - A
Hole #2 at the site of G.P.H. - T
Hole #3 at the site of G.P.H. - S
Hole #4 at the site of G.P.H. - D
Hole #5 at the site of G.P.H. - C

August 16th, 1974.

for 
V.A. Preto, Ph.D., P.Eng.,
Geologist



LEGEND

- contact ; defined, approximate, assumed or transitional
- fault or break, defined, interpreted
- road, jeep road or trail
- B.C. highway No.
- middle Eocene Princeton sediments

Pre-Tertiary

- strongly sheared crushed and altered rocks

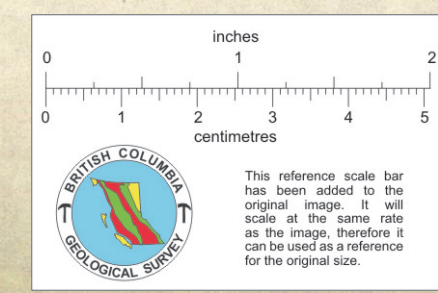
Scale 1" = 2000'

APPROXIMATE
CLAIM BOUNDARY

LOCATION AND GENERAL GEOLOGY MAP

FIGURE 1

COPIED FROM : Bethlehem Copper Corp LTD
exploration map FIG 4
1973 private report



G.E. - 1

G.E.S.

GE#4 347491	GE#2 347488
GE#3 347495	GE#1 347847

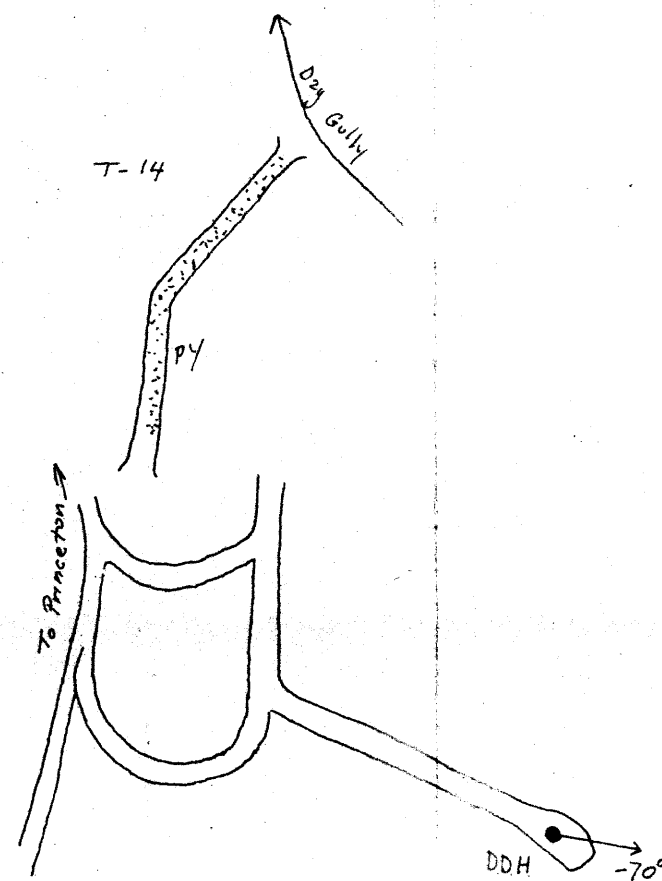
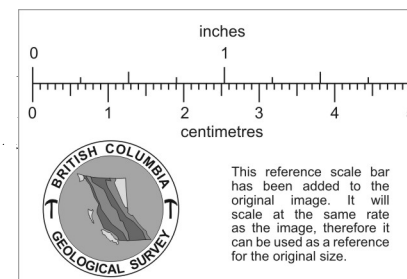
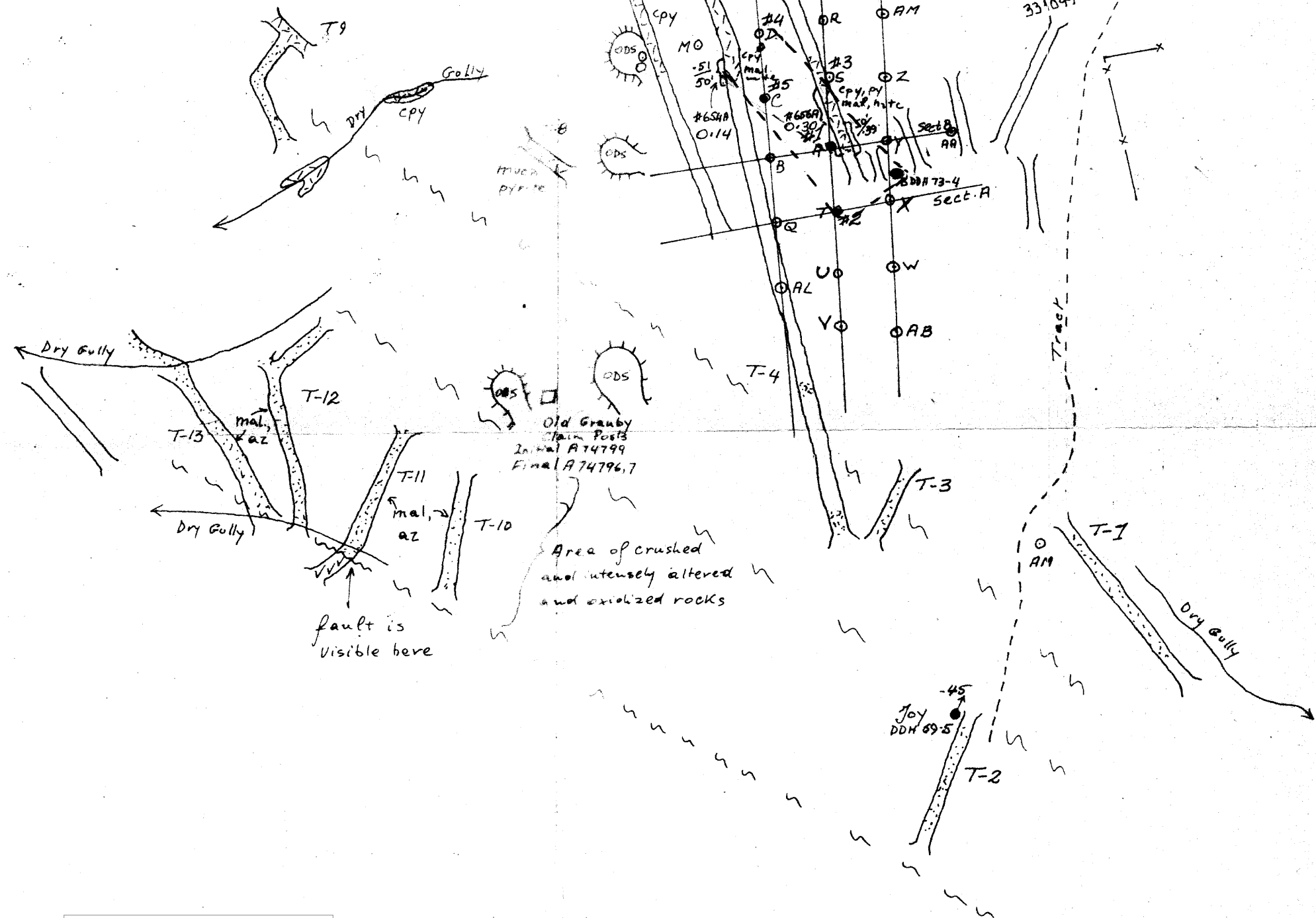


FIGURE 2

TAPE AND COMPASS SURVEY OF GRANBY TRENCHES

- A Granby's percussion drill hole - 1965
- B.D.D.H. Bethlehem's diamond drill hole - 1923
- OBS. Unused Granby drill site
- ~ Mostly fractured, saussuritized pyroxene microschist
- Intensely crushed, altered and oxidized rock
- Nictix volcanic rocks
- cpy Chalcopyrite
- py pyrite
- nte magnetite
- mal malachite
- az azurite

#1,2,3,4,5 Sites of proposed diamond drill holes
#655A Tag No. of grab sample taken



0 200 400 600
SCALE IN FEET

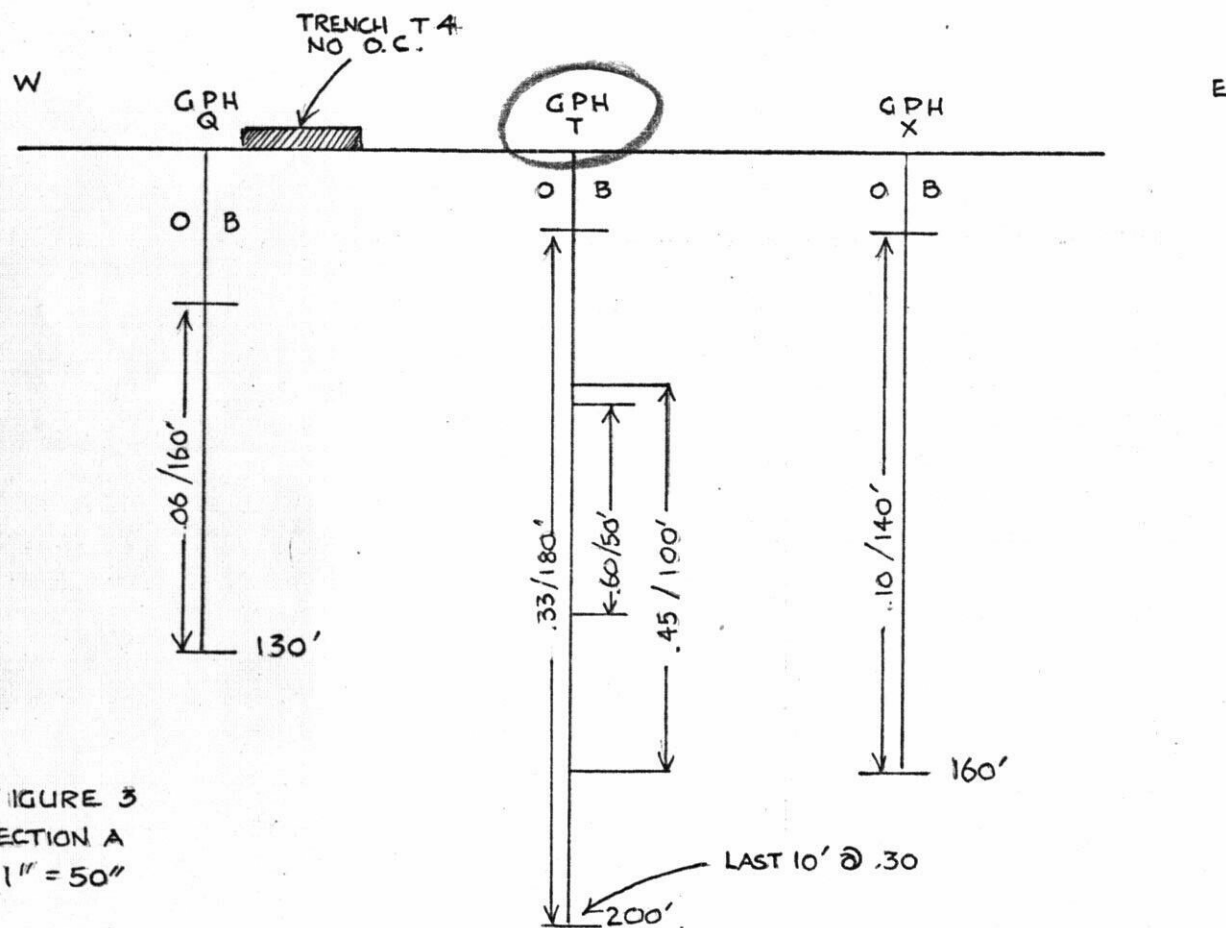


FIGURE 3
SECTION A
1" = 50"

% Cu / length
.33 / 180'

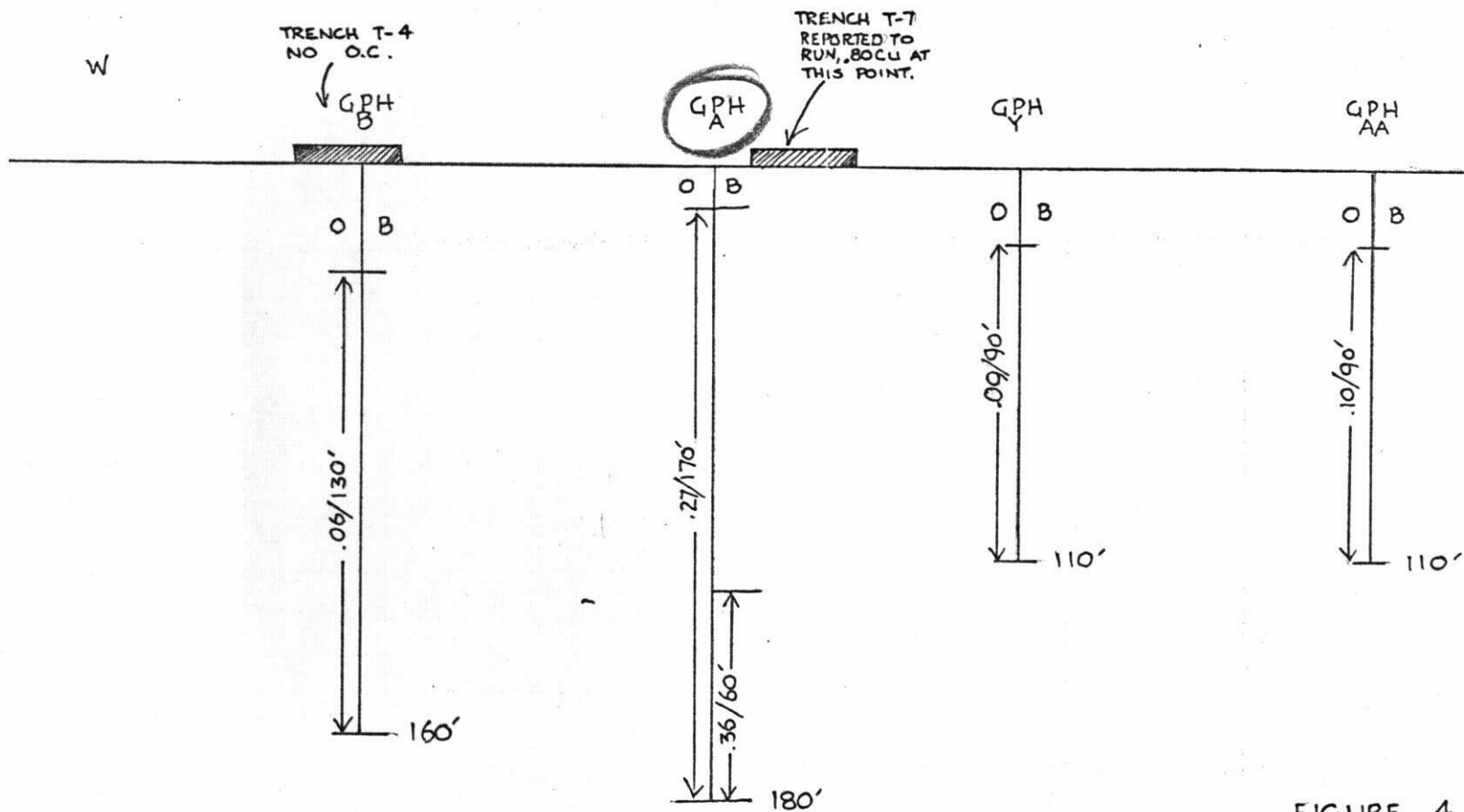
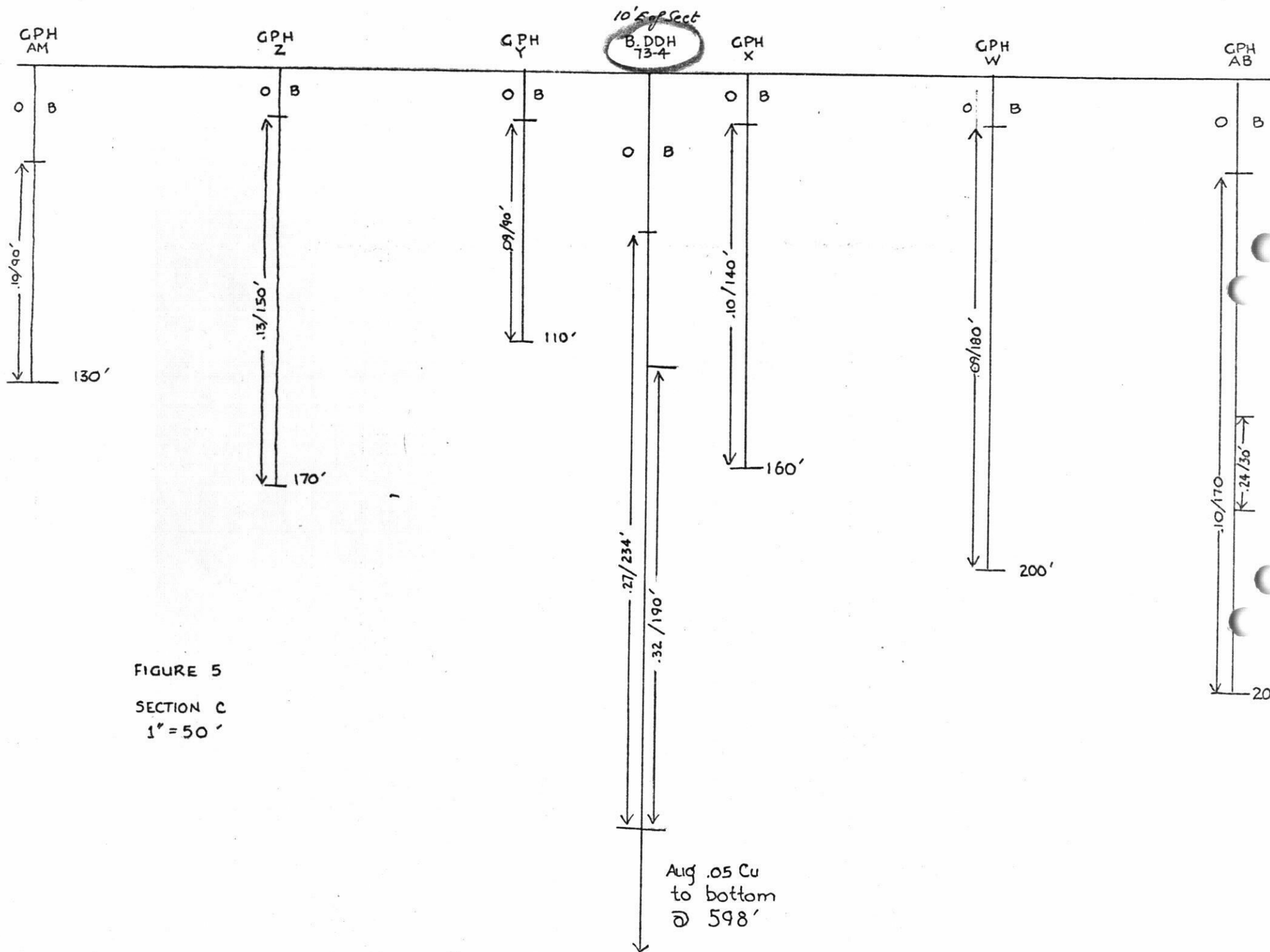
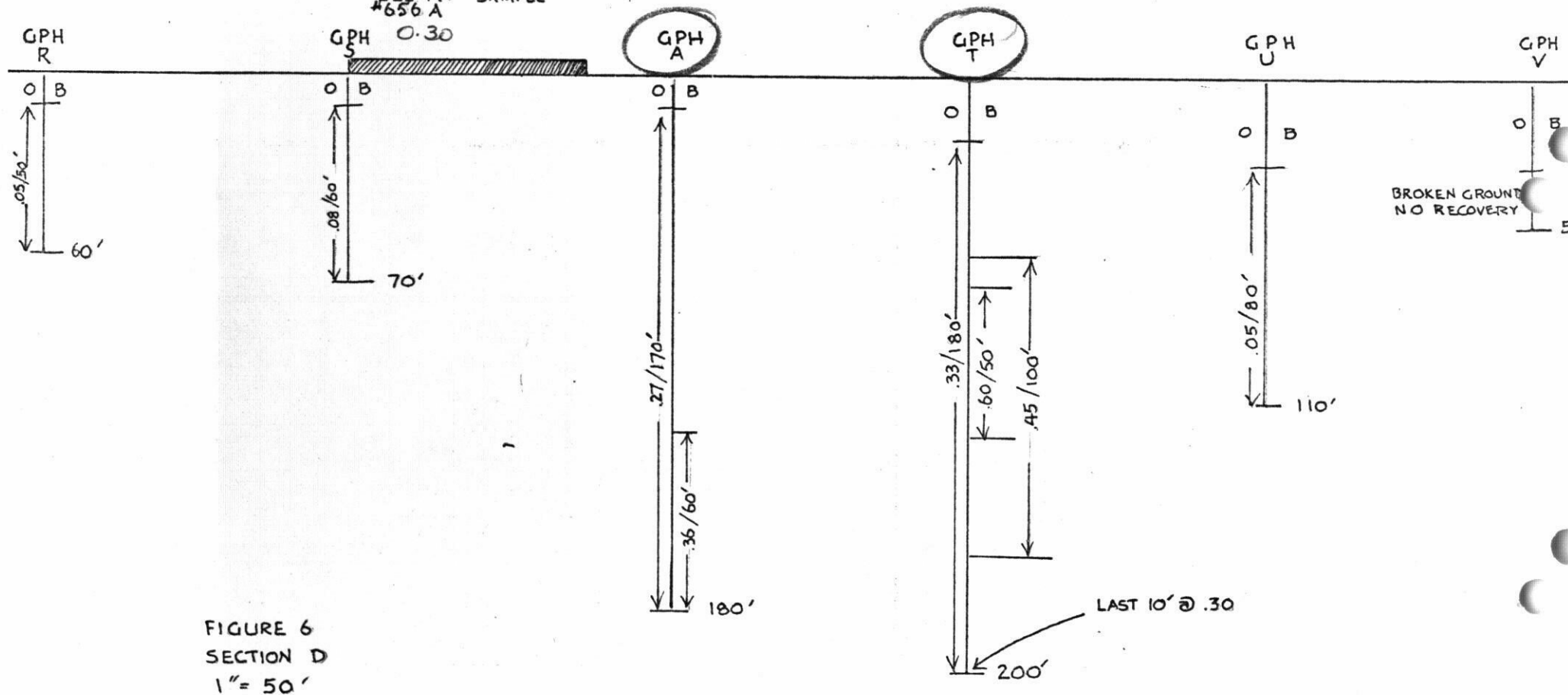


FIGURE 4
SECTION B
1" = 50'



TRENCH T-7
REPORTED TO RUN .4-.5
SEE MY SAMPLE
#656 A



TRENCH T-4 30'-40'W
OF SECTION HERE
REPORTED TO HAVE
50" OF .51 SEE MY
SAMPLE # 654 A.

N

GPH
D

0.14

GPH
C

GPH
B

GPH
Q

GPH
AL

S

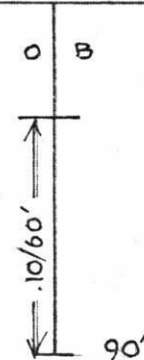
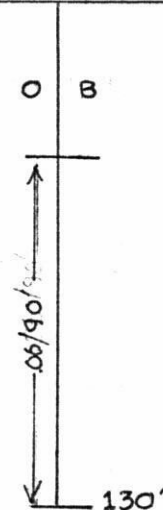
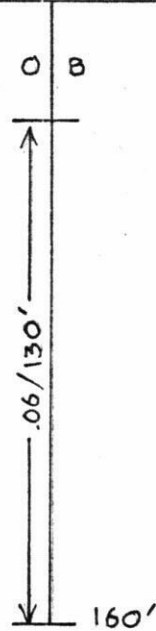
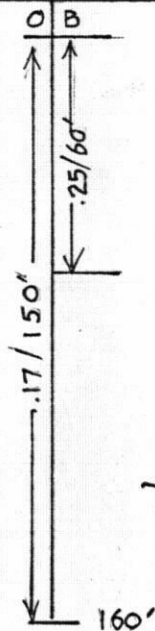
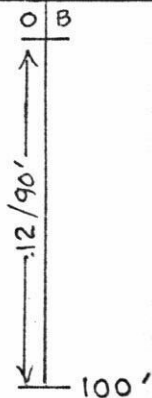


FIGURE 7
SECTION E
1" = 50'

248

July 16th 1974

Mr. E. Mullin,
Mr. G.T. Mann, (G.I. Bure?)
Box 334,
PRINCETON, B. C.

C
Dear Sirs:

Your letter of July 5th to the Minister of
Mines and Petroleum Resources has been referred to me.

Please send to me any data you have available
on copper intersections; of drilling; trenches; whatever.
I would appreciate widths and grades.

Further I would like to know what property you
are talking about, where it is located and the number of
claims involved.

Sincerely yours,

C
J. E. McMynn
Deputy Minister

JEM:bg C.C. Hon. L.T. Nimsick - Minister

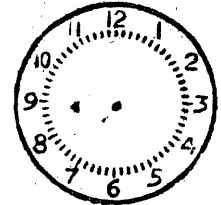
V8V 1X4

August 2nd, 1974

AUG 6 14 AM

V. A. Preto
c/o Skye Blue Lodge
Box 493
Princeton, B. C.

8420



Dear Vic,

DEPT. OF MINES
AND PETROLEUM RESOURCES

I am enclosing some correspondence between Mullin and the Department as background for you.

At an early date will you please contact him, examine his property, see what other information he has, and prepare a summary report for Mr. McMynns' information. Obviously, a decision on granting money for further exploration work is required.

Regarding Aspen Grove text, it has been typed and out put, but several errors need correcting. It should be returned to ~~Queens' Printer~~ before August 9th for printing.

Best Regards,

STUART S. HOLLAND, PH.D., P. Eng.
Chief Geologist, Geological Divs.,
Mineral Resources Branch

SSH/crd

Encls:

cc: Dr. J. T. Fyles

REFERRED TO	DATE	INITIAL
D.M.		
ADM (M)	✓ 6/8	JS
ADM (P)		
C.G.C.		
C.P.R.		
DCCG		
ACCT.		
ACCTS.		
GEOL.		
INSP.		
M. REV.		
EC. & P.		
FILE NO.	Geological	
FILING CLERK		

July 31st 1974

Mr. E. Mullin,
Box 334,
PRINCETON, B. C.

Dear Mr. Mullin:

Your letter to Mr. McMynn has been passed
to me for reply.

Government assistance to prospectors
is available through the Prospectors' Assistance Act which
has just been proclaimed. Enclosed is a copy of the Act
and an application form.

I have passed your request for a geologist
to visit your property to our Chief Geologist. Either our
district geologist in Kamloops or someone on the project crew
based in Princeton may be able to visit your property in due
course.

Yours very truly,

JAMES T. FYLES Ph.D., P. Eng.,
Associate Deputy Minister - Mineral Resources

JTF:bg

Encl: Bill 94
Application

c.c. Dr. Holland



WHEN REPLYING PLEASE REFER TO

FILE NO.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

July 31st 1974

Mr. E. Mullin,
Box 334,
PRINCETON, B. C.

DEPT. OF MINES AND PETROLEUM RESOURCES	
Rec'd 31 1974	
<i>Al</i>	<i>2/8</i>

Dear Mr. Mullin:

Your letter to Mr. McMynn has been passed
to me for reply.

Government assistance to prospectors
is available through the Prospectors' Assistance Act which
has just been proclaimed. Enclosed is a copy of the Act
and an application form.

I have passed your request for a geologist
to visit your property to our Chief Geologist. Either our
district geologist in Kamloops or someone on the project crew
based in Princeton may be able to visit your property in due
course.

Yours very truly,

JAMES T. FYLES Ph.D., P. Eng.,
Associate Deputy Minister - Mineral Resources

JTF:bg

Encl: Bill 94
Application

c.c. Dr. Holland ✓

DEPUTY MINISTER OF MINES
& PETROLEUM RESOURCES

Box 334

Mr. J. E. McOmyn
Deputy Minister of Mines
Victoria
B.C.

REC'D JUL 10 1974

P.M.

Trinceton B.C.
July 25/74

RECEIVED BY	DATE	INITIAL
DOCTS		
A. D. M.	✓	
A. D. P.		
A. R.		
E. & P.		
A. D.		

Dear Sir; -

In reply to letter received July 9/74 from Minister of Mines and July 16/74 letter from you in regards to a copper prospect held by us prospectors in the Trinceton area.

I would like to follow the advice of the Minister of Mines that our govt. have one of govt. geologist in this area examine the property, cat cuts, drill results etc.

The cost for this preliminary examination would be minimum as I understand that our govt. have a crew of geologists stationed at Sky Blue Lodge some 10-12 miles from Trinceton.

A phone call from you to the head geologist at Sky Blue Lodge, asking him to make a report and send it direct to you.

An early reply would be appreciated while our govt. still have the geologist in this area.

Thanking you,

I remain
yours truly
E. Mullin.



VICTORIA

V8V 452

July 9, 1974.

Mr. E. Mullin and
Mr. G. T. ~~Burr~~ Burr (G. I. Burr)
Box 334,
PRINCETON, B.C.

Gentlemen:

I am writing in reply to your letter dated July 5th regarding your copper prospect.

You will understand that we have passed a Prospector's Assistance Act in order to enable a prospector to obtain assistance to carry out work to find out what he has to offer in the way of minerals. This Act is just being proclaimed, and perhaps it will be of some benefit to you in your situation.

I am taking the liberty of forwarding a copy of your letter to my deputy minister, Mr. McMynn, with the advice that he have a geologist take a look at your property in order to give the department some assessment as to what you may have at the present time.

I hope this meets with your approval.

Yours sincerely,

Leo T. Nimsick

DEPUTY MINISTER OF MINES & PETROLEUM RESOURCES
Leo T. Nimsick,
MINISTER.

LTN/vh

REC'D JUL 11 '74 900

cc: J.E. McMynn,
Deputy Minister.

REFERRED	TO	DATE	INITIAL
ACCTS			
A. D. M.			
A. D. P.			
M. R.			
E. & P.			
A. D.			