

08/86

A Preliminary Geological Report  
(and initial findings)

on the

PUNCH BOWL CLAIM GROUP

Located in the

Similkameen and New Westminster  
Mining Divisions  
Lat. 49°17'N; Long 121°00'W  
Map Sheet, N.T.S. 92H/7<sup>W</sup><sub>W</sub>  
(19 miles east of Hope, B.C.)

for

Mr. Richard A. Rabbitt  
#2105 - 9380 Cardston Court  
Burnaby, B.C.

FILMED

**GEOLOGICAL BRANCH** Report by:  
**ASSESSMENT REPORT**

14,692

Mr. D.G. Cardinal, P.Geol.  
Consulting Geologist  
Hope, B.C.  
Nov. 12, 1985.

*D.G. Cardinal*

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## A. INTRODUCTION

In the Spring of 1984, Mr. Richard Rabbit of Burnaby, B.C. staked 40 mineral claims in the Punch Bowl area and headwaters of the Tulameen River. Claims were staked because of the reported gold occurrences in the area, favourable geology and host rocks; and, the adjacent ground has several known base and precious metal prospects.

In September, the writer was requested by the above owner to briefly examine the claims and to evaluate its' possible potential. Some groundwork conducted along Punch Bowl Creek outlined an anomalous zinc and copper area. Several rock chip and grab samples were collected from a creek section which had visible sphalerite and pyrite hosted in argillite and shale.

## B. SUMMARY AND CONCLUSION

- B.1 The Punch Bowl Claim Group consists of 40 contiguous, located mineral claims presently held by Mr. Richard Rabbitt.
- B.2 The claims are located some 30 km. (19 mi.) east - southeast of the town of Hope, B.C., and 7 km. (4 mi.) north of the Hope-Princeton Highway (No. 3). Present access to the claims is by helicopter.
- B.3 The property has no mining history, the owners staked the ground based on reported gold showings and placer gold along Punch Bowl Creek. In September 1984, the writer briefly examined the claims and located a zinc related geochemical anomalous area.
- B.4 The regional geology consists of the Dewdney Group which is made up of undifferentiated tuff, volcanic breccia, grit, argillite, and conglomerate, of Mesozoic age. The claims are underlain by sandstone, siltstone, chert, argillite and conglomerate believed to be part of the Dewdney Group.
- B.6 Siltstone and argillite exposed along Punch Bowl Creek is highly oxidized with pyrite in fractures and bedding planes. A 30 m. (100 ft.) section was anomalous in zinc with sphalerite occurring along fractures. An 18 m. (60 ft.) chip sample across a rock face carried 2,750 ppm zinc. Other grab samples ran as high as 3,300 ppm zinc, 565 ppm. copper and traces of gold and silver.

C. CLAIMS INFORMATION

The Punch Bowl Group consists of the Punch East and West a total of 40 contiguous units which cover 1000 hectares (2,450 acres) of ground. The claims fall in the Similakameen and New Westminster Mining Divisions and claim records can be examined at the Princeton or Vancouver mining record offices.

The pertinent data is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Anniversary Date</u>
Punch West	20	2208	Aug. 7, 1984
Punch East	20	2207	" " "

D. LOCATION AND ACCESS

The property is located some 30 km. (19 mi.) east - southeast of the town of Hope, B.C.. Presently, the area can only be reached by helicopter.

Highway No.3 (Hope - Princeton Highway) passes approximately 7 km. (4 mi.) south of the property. A well used hiking and horse pack trail leads up Snass Creek valley from the highway and crosses the claims at Punch Bowl Lake.

#### E. WATER AND POWER RESOURCE

The area has an abundant supply of water with a number of streams and creeks crossing the property. Hope is the nearest source for electrical power. A portable generator would be required for the initial phase of development work.

#### F. PHYSIOGRAPHY AND CLIMATE

The claims are situated along the western flank of the northern Cascade Mountains, in the Hozameen Range. The elevation on the property ranges from 2,311 m. (7,580 ft.) on Snass Mtn. to 1,463 m. (4,800 ft.) near the headwaters of the Tulameen River. The physiographic changes are quite pronounced, from an alpine, grassy environment at higher elevations to meadow and park-like vegetation along the low lying areas. Weather conditions are generally moderate, influenced by the dry interior climate. Surface exploration is conducive for at least 4-5 months of the year.

#### G. BACKGROUND AND HISTORY

This Spring (1984), R. Rabbitt staked claims in the Punch Bowl Lake area, following the release, by the B.C. government, of a no-staking freeze on the ground. Prior to the release, the

G. BACKGROUND AND HISTORY CONT'D

area was under a mineral reserve prohibiting staking, exploration and mining activity.

During the mid 1800's, trade routes were established along this region, connecting the B.C. interior to the coast. Punch Bowl Lake was one of the brief stop-overs for the traders, trappers and early prospectors.

The claims do not have any mining history, although, it is reported that some placer gold was found in Punch Bowl Creek. During the property examination, the writer noted old workings along the creek in mineralized shales and argillites. The writer was also informed that the mineralized zone was worked in the early 1960's and anomalous gold was found in the sediments.

A number of potential mineral occurrences have been discovered on adjacent areas. Approximately 13 km. (8 mi.) north, near Podunk Cr., copper (Cu), gold (Au), and zinc (Zn) were discovered in the 1940's. Presently, a tungsten deposit is being evaluated in this area by a junior company. To the east of the claims, are other lead (Pb), silver (Ag), Zn, and Au showings. More important, to the southeast of the property, and on similar geological formation is an Au, Arsenic (As) and antimony (Sb) showing which is reported to be hosted in sandstones. Unfortunately, the showing falls within the

Cont'd

#### G. BACKGROUND AND HISTORY CONT'D

Manning Park boundary. The majority of the above occurrences were discovered in the 1930's and 1940's; but, have recently attracted more attention because of their Au and Zn potentials, coupled with the increased market price of both metals. Additional attention has also been drawn to this area due to the recent lift of the no staking freeze.

#### H. REGIONAL GEOLOGY

The regional area is underlain by northwest - southeast trending formations and structures. The Skagit River Valley and Snass Mtn. areas expose lithological sections of tuff, volcanic breccia, grit, argillite, and conglomerate of the Dewdney Creek Group. Just east of Snass Mtn. and in fault contact with the Dewdney Creek Group is the Pasaysten Group composed mainly of grit and shale. Both groups are Mesozoic in age (90 - 130 million years old).

#### I. PROPERTY GEOLOGY AND RESULTS

Along Punch Bowl Creek is a well exposed section of sandstone, chert, pyritiferous chert with a folded, sheared and mineralized section of argillite and siltstone. The argillite

Cont'd



I. PROPERTY GEOLOGY AND RESULTS Cont'd

and siltstone lenses are highly oxidized, and carry pyrite along bedding and fracture planes. Sphalerite was also noted to occur along some of the fractures and other planes of weakness. A ten (10) lb. chip sample collected across an 18 m. (60 ft.) face, along the creek bank, returned 2,750 parts per million zinc and traces of copper, gold and silver. Other grab samples obtained in the area had anomalous values of up to 565 ppm copper, and 3,300 ppm zinc.

The above rocks are occasionally cut by feldspar porphyry dykes. The ubiquitous, abundant pyrite, and the associated anomalous copper and zinc may represent part of a pyritiferous, mineralized halo. Further work in the area could possibly outline more zinc anomalies.

## J. PUNCH BOWL CREEK SECTION

Approximately one (1) km. north of Punch Bowl Lake, along Punch Bowl Creek is a section of well exposed sediments consisting predominately of argillite and shale. Much of the reconnaissance groundwork was concentrated in this area because of the sulphide mineralization found along fracture and cleavage planes of argillaceous rocks.

At least a 60 metre section of exposed rock (fig. 4) along the creek bank was mapped and sampled. The section is composed of highly fractured and faulted shaley argillite which also shows minor folding. A strong fault/shear cuts the the argillite in which blebs and minor disseminations of sphalerite and pyrite were noted. An 18 m. rock chip sample taken across the fault/shear was anomalous in zinc with lesser copper values. A three (3) metre wide felsic dyke also cuts the argillite, two rock grab samples collected along the contacts were anomalous in copper. The samples are described below.

- KC-9 & 101984 - light coloured, fine grain felsic dyke with feldspar phenocrysts. Samples collected along the footwall & hangingwall contacts. Cu, 565 & 335 ppm; Zn, 48 ppm with traces of Ag & Au.
- KC-111984 - rock grab; highly sheared, black argillite with minor pyrite. Low Cu, Zn, Ag, & Au.
- KC-121984 - rock grab; dark grey, finely laminated argillite; pyrite along cleavage planes. Cu, 116 ppm; Zn, 284 ppm; trace Ag & Au.
- KC-131984 - rock grab; blk., shaley argillite with abundant pyrite. Cu, 74 ppm; Zn, 75 ppm; trace Ag & Au.
- KC-141984 - 2 metre rock chip from narrow fault/shear, blk argillite. Cu, 37 ppm; zn, 184 ppm; trace Ag & Au.

PUNCH BOWL CREEK SECTION Cont'd.

KC-151984 - 18 metre rock chip; blk, shaley argillite with some visible sphalerite along fractures. Cu, 52 ppm; Zn, 2,750 ppm; Ag, 1.5 ppm; trace Au.

KC-171984 - 4 metre rock chip; blk. argillite with large (1-2 cm.) blebs of sphalerite and pyrite along fractures. Cu, 144 ppm; Zn, 3,300 ppm; Ag, 2.8 ppm; trace Au.

Several other rock samples were collected along portions of the creek but all were low or below background level in copper, zinc, silver, and gold.

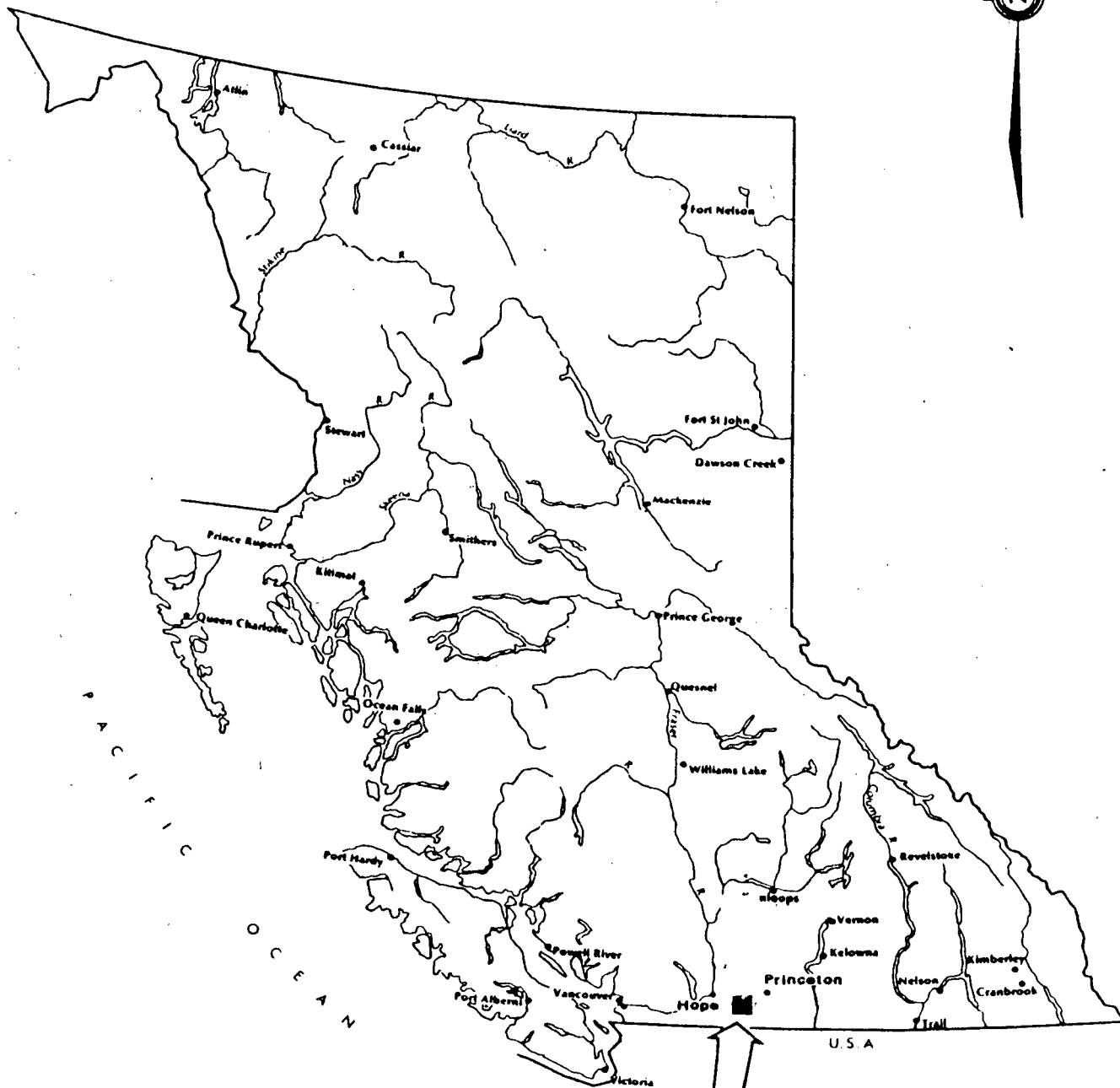
## L. COST BREAKDOWN

Personnel:	cost
Geologist, 4 days @ \$300.00/day (Sept. 14 - 17, 1984)	\$ 1,200.00
Assistant, 4 days @ \$150.00/day (Sept. 14 - 17, 1984)	600.00
Camp plus Supplies	187.00
Helicopter, 1 hour @ \$600.00/hr.	600.00
Sampling, 12 Au & Ag @ \$15.50/sample 9 Cu & Zn @ \$3.00/sample	213.00
Report Report writing, typing, drafting & copies	1,200.00
Total	<u>\$ 4,000.00</u>

Respectfully Submitted,



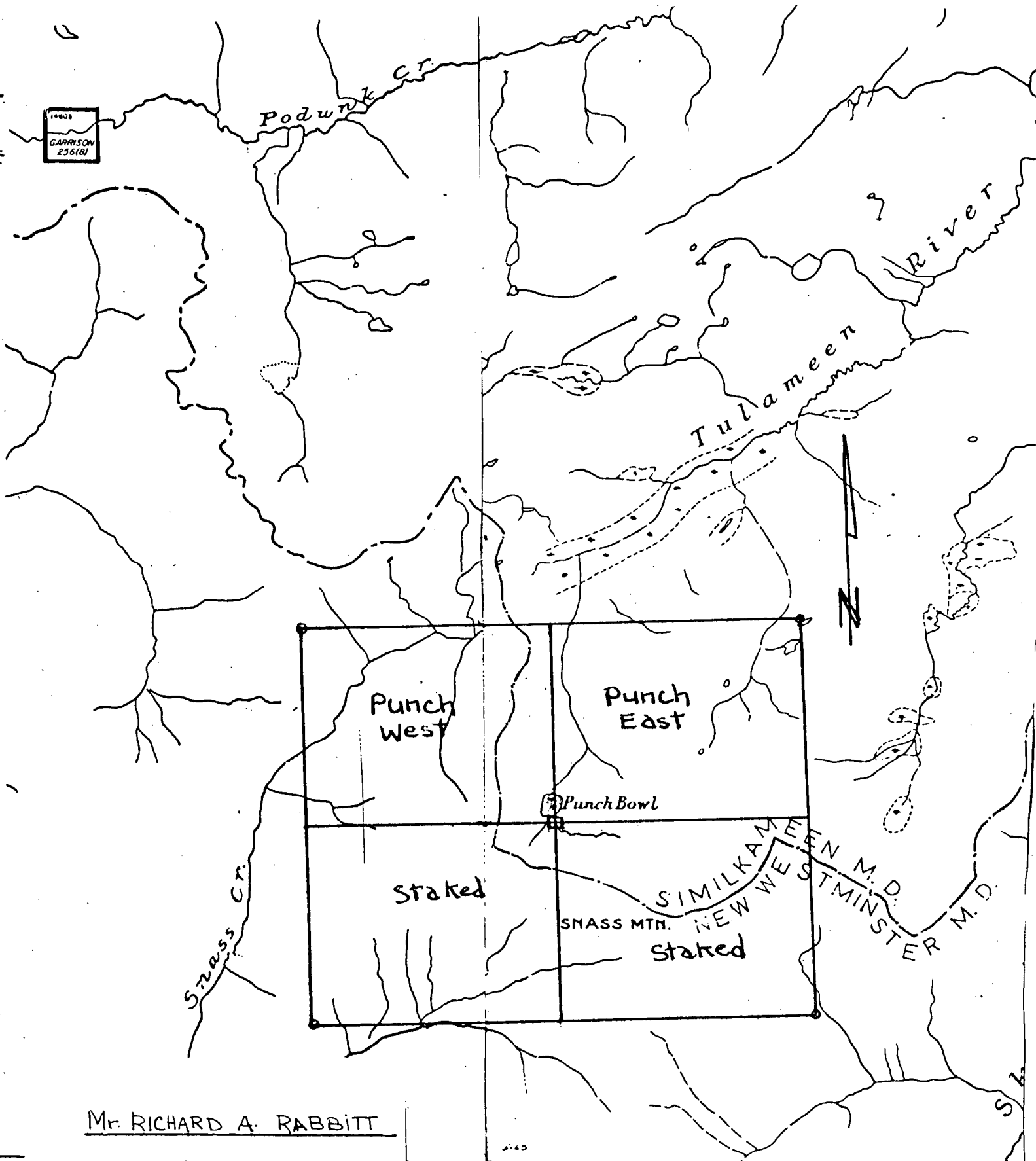
Mr. D.G. Cardinal, P.Geol.  
Consulting Geologist.



MR. RICHARD A. RABBITT

Property

Figure 1  
- Location map

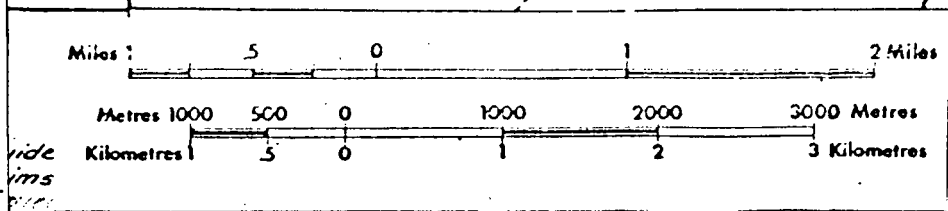


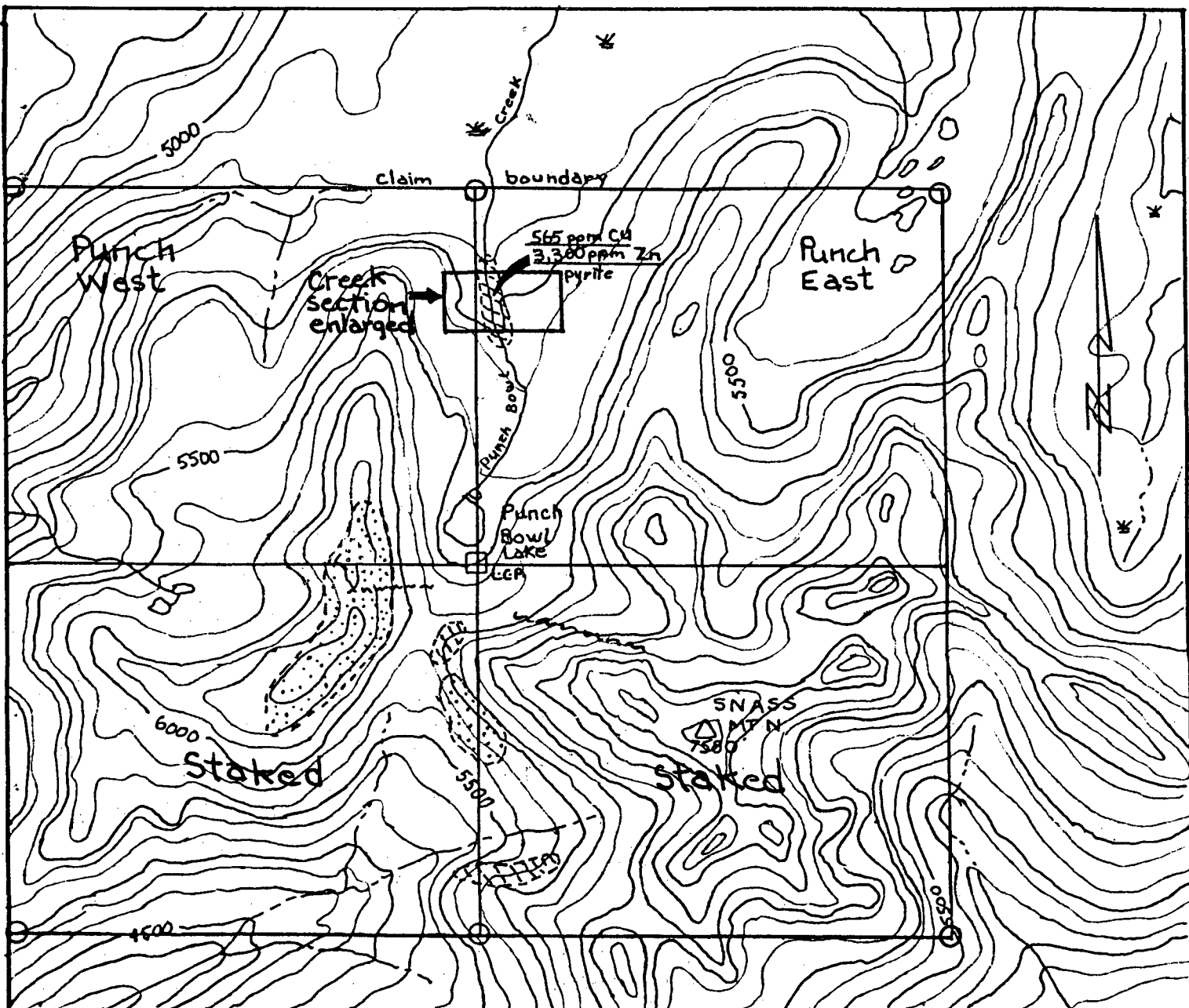
Mr. RICHARD A. RABBITT

Punch Bowl  
Group  
CLAIMS MAP




Fig. 2

D.G.C.





Legend:


-  Sandstone, Conglomerate
-  argillite, siltstone, shale
-  fault/shear

ppb - parts per billion  
 ppm - parts per million  
 Au - gold, Cu - Copper  
 Zn - Zinc  
 L.C.P. - Legal Corner Post

Mr. RICHARD A. RABBITT.

PUNCH BOWL CLAIM GROUP

Anomalous Zones  
 Reconnaissance Geology

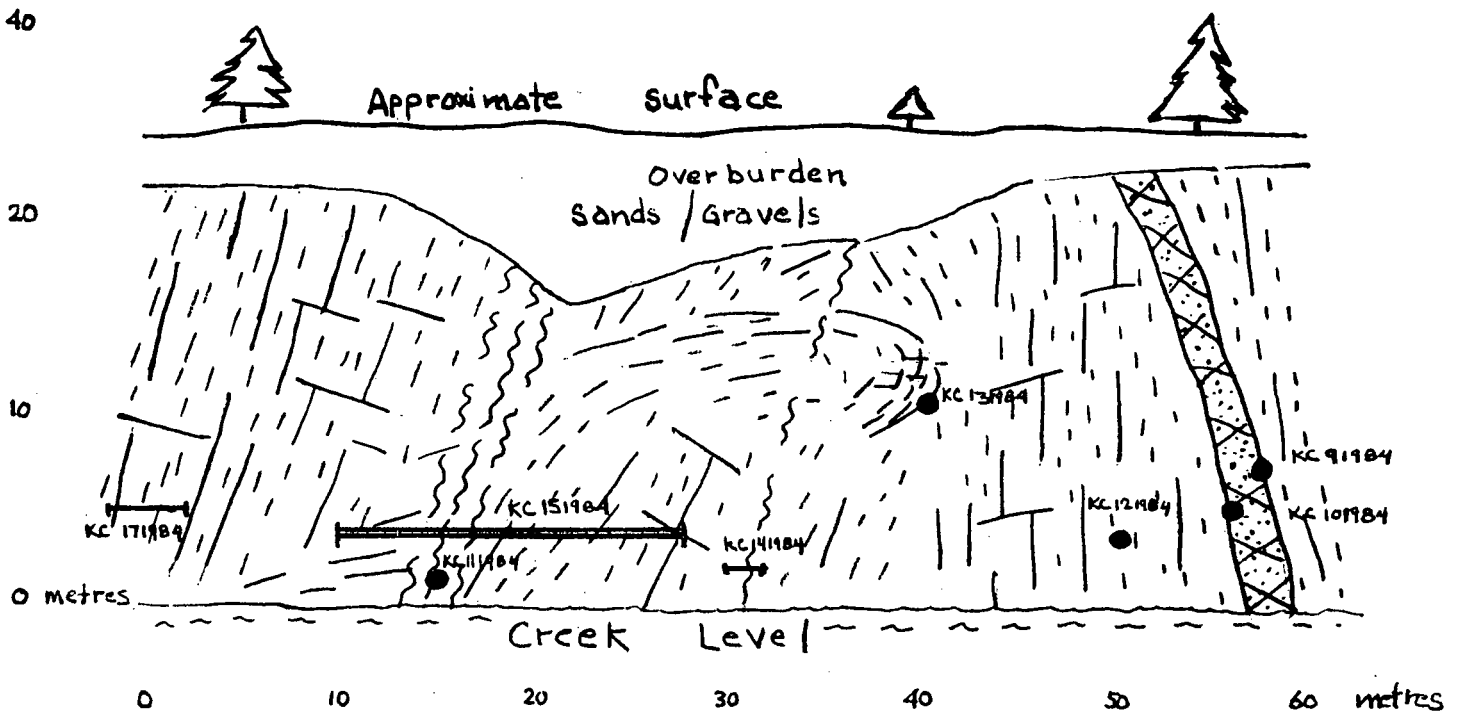
Fig. 3  Scale 1:30,000  
 Map Sheet 92H/6&7

D.G.C.

# PUNCH BOWL CREEK SECTION

West

East



## LEGEND:

Finely laminated shale & argillite with associated pyrite & sphalerite along Fractures.

cleavage planes

Jointing

Fault / shear

Recumbant fold

Fine grain felsic dyke

Sample no. Chip sample

Grab sample

scale: 1:  $\frac{400}{1000}$

0 5 10 20 metres

Fig. 4

92H/6E. 7W



REPORT: 124-3203

PROJECT: PUNCH BOWEL

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Au PPB	wt/Au gm	NOTES
---------------	---------------	--------	--------	--------	--------	----------	-------

S KC-51				<0.2	5		
S KC-52				<0.2	<5	16.00	
S KC-53							
S KC-54				0.7	<5		
S KC-55						15.00	

S KC-56				0.4	5		
S KC-57				0.2	45		
T KC-5S1				<0.2	<5	14.00	
T KC-5S2				<0.2	<5	16.00	
T KC-5S3				0.2	<5	15.00	

K.C.M. CLAIM GROUP

T KC-5S4				<0.2	15	17.00	
R KC-11884				0.8			
R KC-21884				1.2			
R KC-31884							
R KC-41884							

From w. of Punch Bowl Lk.  
 along steep gorge

R KC-51884							
R KC-5A1884							
R KC-61884				0.2	40		
R KC-71984				0.2	20		
R KC-81984				0.8	<5		

R KC-91984	565	48	0.8	10			
R KC-101984	335	48	0.3	40			
R KC-111984	15	49	<0.2	10			
R KC-121984	116	284	0.8	<5			
R KC-131984	74	75	0.2	5			

From Punch Bowl ck.

PUNCH BOWEL CLAIM GROUP

R KC-141984	37	184	0.6	5			
R KC-151984	52	2750	1.5	25			
R KC-161984	39	185	0.5	10			
R KC-171984	144	3300	2.8	20			
R KC-182084			<0.2	<5			

Argillite pyrite zone

R KC-192084			<0.2	10			
R KC-T1			0.3	10			

APPENDIX I

Certificate:

I, Daniel G. Cardinal of the Municipality of Hope, British Columbia, do hereby certify that:

1. I am a professional geologist residing in Hope, B.C., mailing address; P.O. Box 594, Hope, B.C. VOX 1L0.
2. I am a graduate of the University of Alberta and a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA).
3. Since 1970, I have been actively involved in the Canadian mining industry, both as a project manager and consulting geologist for major and junior resource companies.
4. The findings in the report are derived from data acknowledged and from personal examination of the property during September 14, 15, 16, and 17, 1984.
5. The full text of the report and accompanying maps may be reproduced in the Company's Prospectus or Statement of Material Facts.

  
A faint circular stamp is visible behind the signature.

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Daniel G. Cardinal, P. Geol.

## APPENDIX II

### REFERENCES:

Rice, H.M.A.  
1960

Geology and Mineral Deposits of the  
Princeton Map-Area, British Columbia,  
Memoir 243; Geological Survey of Canada.

National Geochemical Reconnaissance  
Regional Geochemical Survey - 1981  
Ministry of Energy, Mines and Petro-  
leum Resources.

Cascade Wilderness Study, Status  
Report, 1981; Ministry of Municipal  
Affairs.

Mr. R. (Dick) Rabbit - personal communication