



GOLDEN PORPHYRITE LTD.

1984

ASSESSMENT REPORT

ON THE

KOZ, DAV, BARN AND BLUE CLAIMS

AND CROWN GRANT L7309

SLOCAN MINING DIVISION

LATITUDE 49° 50' N

LONGITUDE 118° 4' W

N.T.S. 82E/16E

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,408

**OWNER: ARROW LAKES MINES LTD.
920 - 475 Howe Street
Vancouver, B.C. V6C 2B3**

**OPERATOR: GOLDEN PORPHYRITE LTD.
403 - 750 West Pender Street
Vancouver, B.C. V6C 2T7**

**David M. Nelles, B.Sc.
Golden Porphyrite Ltd.**

JUNE 20, 1984



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INTRODUCTION

Between March 14 and March 17, 1984, assessment work in the form of prospecting and heavy sediment geochemistry was carried out on the Blue, Koz, Dave and Barn mineral claims as well as the Completer Crown Grant.

The claim group is located in the Slocan Mining Division, centered at 49° 50' N latitude, 118° 4' W longitude, on the east side of Lower Arrow Lake, 6 km southeast of Farquier, B.C. Highway 6 provides access to Farquier from Vernon to the west and Nakusp to the north. A series of logging roads south of Farquier give easy access to the claim group. From there, various skid roads access much of the property. The claim group is situated on the western margin of the Selkirk Mountains between 600 - 1,125 m above sea level. A central northerly trending ridge deflects most of the drainage to the south, except Heart Creek which drains to the northwest. Mixed coniferous interior rain forest vegetation covers the claims, although the area has been logged, and much of the growth is secondary.

A program of prospecting, covering approximately 4 km², and heavy sediment sampling, involving seven samples on two major creek systems was carried out to assess the potential of the claims for gold and silver mineralization. In the course of prospecting, twenty rock chip samples were taken.

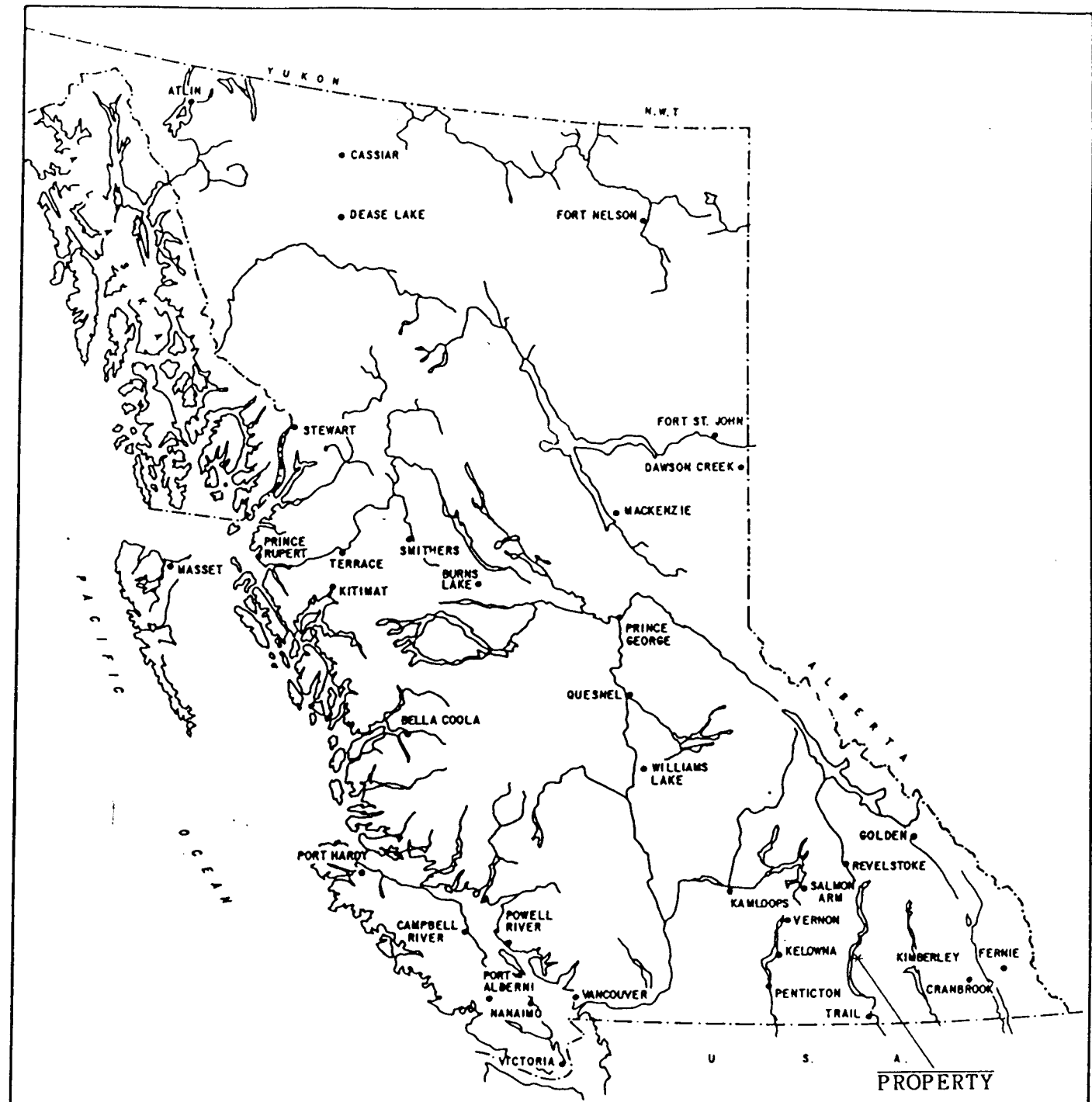


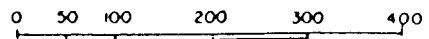
FIGURE 1

GOLDEN PORPHYRITE LTD.

ARROW LAKES MINES
PROPERTY

LOCATION MAP

KILOMETRES





CLAIMS

There are four contiguous metric Mineral Claims:

<u>NAME</u>	<u>RECORD #</u>	<u>DIMENSIONS</u>	<u>RECORD DATE</u>
KOZ	2530	3N x 4E	18.05.81
DAVE	2529	4N x 4E	18.05.81
BARN	2528	2S x 4E	18.05.81
BLUE	2559	2N x 4E	08.06.81

The Completer Crown Grant, L7309, is located entirely within the Dave Claim and is also owned by Arrow Lakes Mines Ltd.

HISTORY AND PREVIOUS WORK

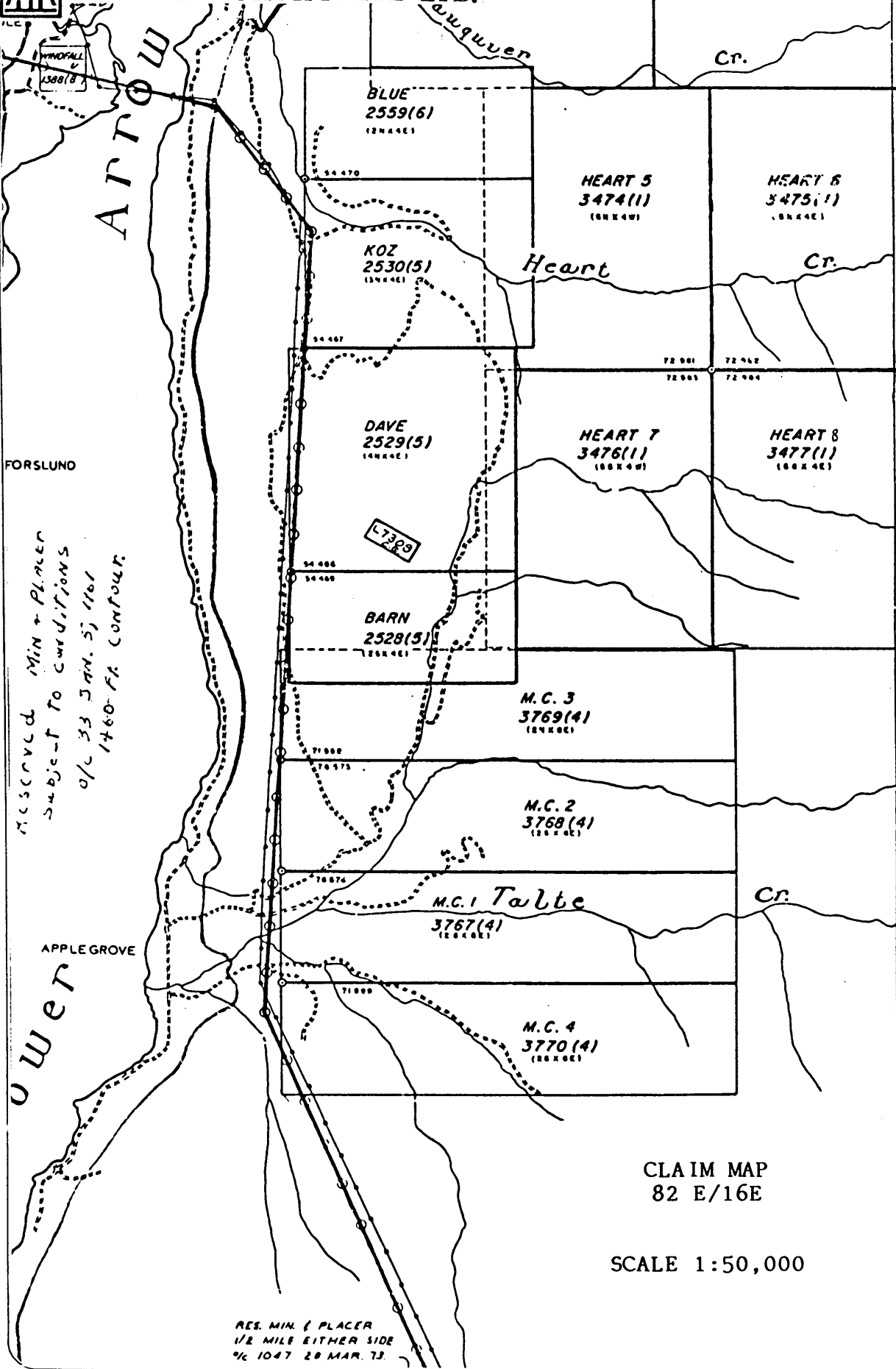
The Completer Claim L7309 was crown granted in 1908 according to the 1908 B.C. Minister of Mines Report. A private report by Shannon (1934) describes a 134 m adit, two 4.5 m deep shafts and surface stripping carried out during 1907 - 1914. The 1.2 x 1.8 m adit at elevation 945 m heads west towards the main vein swarm on this Crown Grant.

A report by Fawley (1965), was written for Pajo Mines Ltd., previous owners of the property. At that time, Fawley recommended a major drilling programme to test the mineralized veins, as well as geological mapping and geochemical sampling programmes. There is no record of the recommendations of this report having been carried out.

A Report written by Snell (1982), describes work completed for Northern Deep Level Mines Ltd. This work, which included access



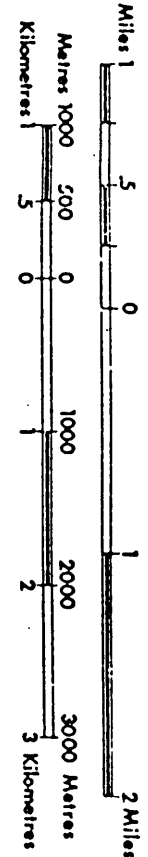
GOLDEN PORPHYRITE LTD.



TO EAST

GRANTED MINERAL CLAIM
D.C.G. MINERAL CLAIM
LEGAL CORNER POST
IRVEY
CORNER POST & TAG NUMBER 0-1111

CL.	SEC.	TOWNSHIP	RANGE
82	E	16	E



UNLESS VERIFIED OR SURVEYED, THE MAP POSITION OF A LEGAL CORNER POST IS BASED ON THE LOCATOR'S SKETCH. FOR FURTHER INFORMATION, APPLY TO THE OFFICE OF THE MINING DIVISION CONCERNED.

DATE OF MICROFILM: **84 02 23**

RESERVED MIN + PLACER
SUBJECT TO CONDITIONS
O/C 33 JAN. 53 1161
1460 FT. CONTOUR



road construction, grading and surface stripping, revealed an additional four veins bringing the total of quartz veins on the Crown Grant to seven. Surveying and mapping of these veins and a geochemical soil sampling programme were also undertaken at this time.

The following is a list of the claims and the specific nature of the work performed on each:

- BLUE Heavy sediment geochemistry
- KOZ Prospecting and heavy sediment geochemistry
- DAVE Prospecting, rock chip and heavy sediment geochemistry.
(incl
L7309)
- BARN Heavy sediment geochemistry and prospecting.



GEOCHEMICAL SURVEY

A total of 20 rock chip samples were taken from the area of the showings and elsewhere on the property. Analysis for gold and silver, and in certain samples lead and zinc, was conducted at Chemex Labs in Vancouver. All rocks were initially ring ground to - 100 mesh. For gold, five (5) gram portions were then ashed at 800° C for one hour, digested with aqua regia, twice to dryness and taken up in 25% HCl. Gold was then extracted as a bromide complex into Methyl Iso Butal Ketone and analyzed via atomic absorption with a 10 parts per billion detection limit.

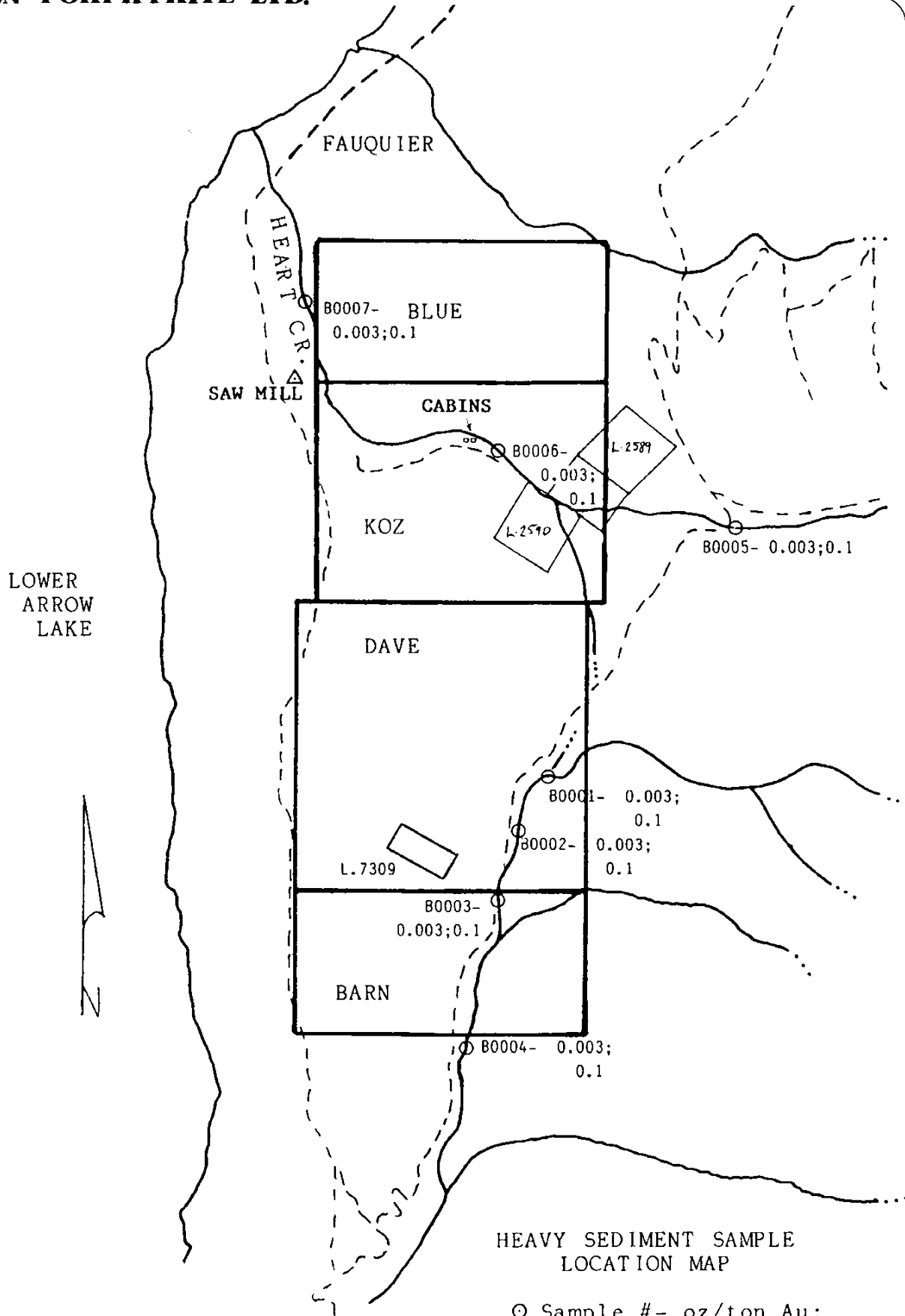
Silver analysis required 1 gram portions of each sample to be digested in concentrated perchloric-nitric acid for approximately 2 hours. The digested sample was then cooled and made up to 25 ml with distilled water. The solution was then mixed and solids were allowed to settle. Silver concentration was then determined using corrected atomic absorption techniques with a detection limit of 0.1 parts per million.

Analysis for lead and zinc involved the digestion of 1.0 gram portions of the sample in a HNO₃ - HClO₄ mixture for 6 hours. Metal concentrations were then determined using corrected atomic absorption techniques with a detection limit of 1 ppm.

In order to delineate potential gold and silver bearing creeks, a total of 7 2kg heavy sediment samples were also submitted to Chemex Labs. These samples were floated in Tetrabromoethene to isolate minerals with a specific gravity greater than 2.95 ± 0.1 g/cm³. This fraction was then crushed to 100 mesh. Gold

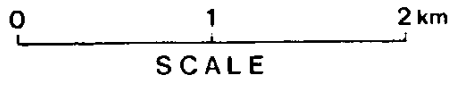


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HEAVY SEDIMENT SAMPLE LOCATION MAP

○ Sample # - oz/ton Au;
oz/ton Ag.





analysis required 10 g portions to be fused with 10 mg of gold-free silver metal. The fusion was then cupelled and the resulting silver bead parted with dilute nitric acid and treated with aqua regia. The remaining salts were then dissolved in dilute HCl and analyzed for gold via atomic absorption spectrometer with a 5 ppb detection limit. Silver analysis was done as for soils.



PROSPECTING

A brief inspection of known mineralization on the Completer Crown Grant (Lot 7309) was conducted prior to the property traverse. The mineralization, exposed by trenching on the southern portion of the Crown Grant, consisted of pyrite, galena and localized marcasite, finely disseminated but occasionally massive, in milky white quartz veins from .5 to 2.5 m in width. The veins cut coarse grained acidic monzonite (phenocrysts of feldspar up to 3 cm), striking generally 020° - 035° . The host rock has been highly altered along the margin of most veins to a homogenous grey colour (sericite?), at times to a distance equal to the width of the vein. Also noted in a trench northwest of the main showing, were several narrow (20 - 50 m) feldspar rich veins striking 020° - 030° .

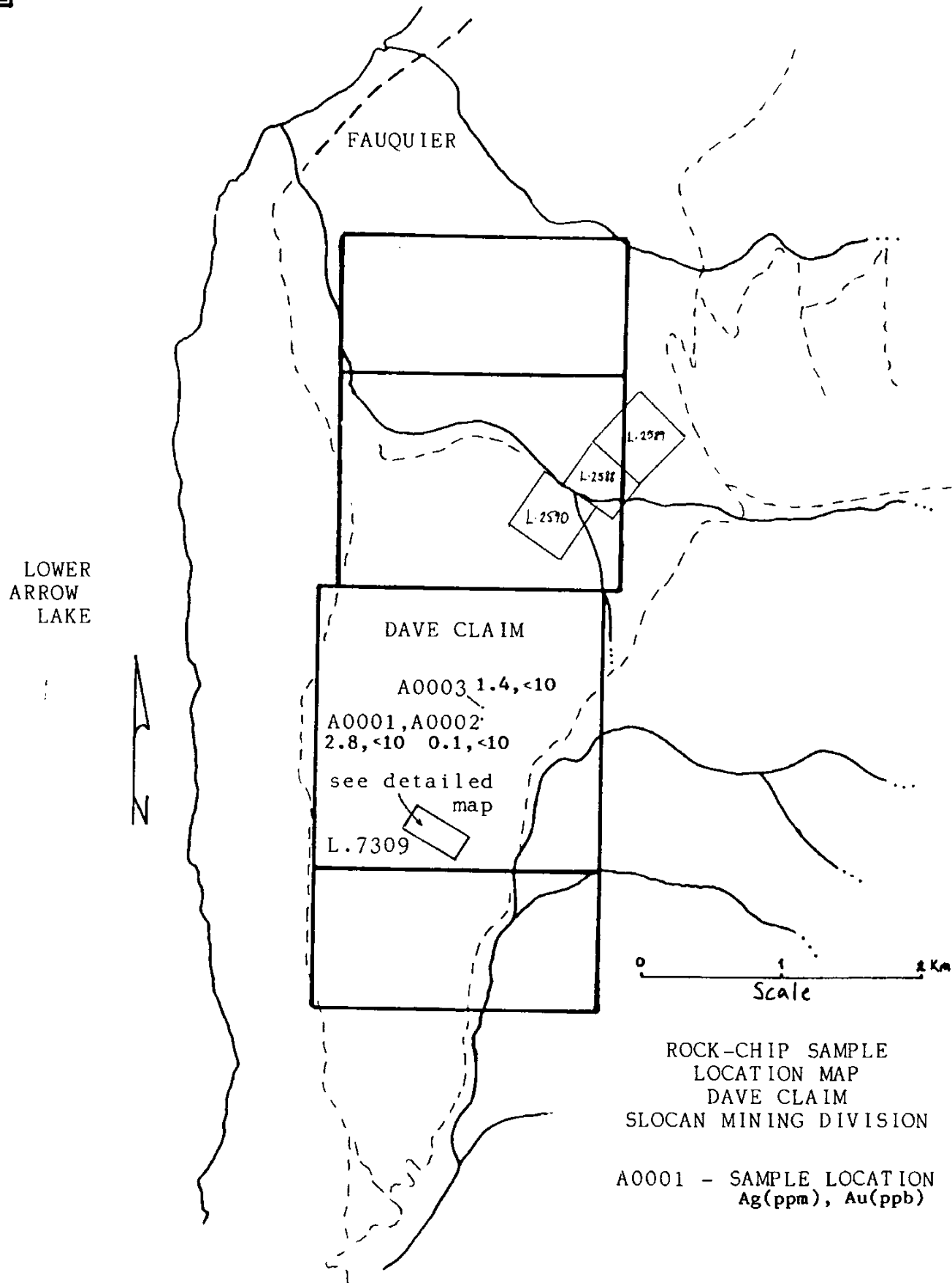
A traverse was carried out to cover the prominent ridge running northeast of the showings in order to look for possible extensions of the vein system along strike. Outcrop exposure in the area of the traverse was extremely poor.

Outcrop, where exposed, consisted of small flat sections of the same intrusive hosting the veins in the showing area. One exposure of a green-grey volcanic unit found at the northern end of the ridge is believed to be part of a roof pendant.

Three samples were taken from two old blast trenches found on the ridge top approximately one kilometer from the original showings. Samples A0001 and A0002 were channel samples across a narrow quartz vein and a coincidental shear zone (165/60 SW) in the first trench. Sample A0003 was of silicious rubble with finely



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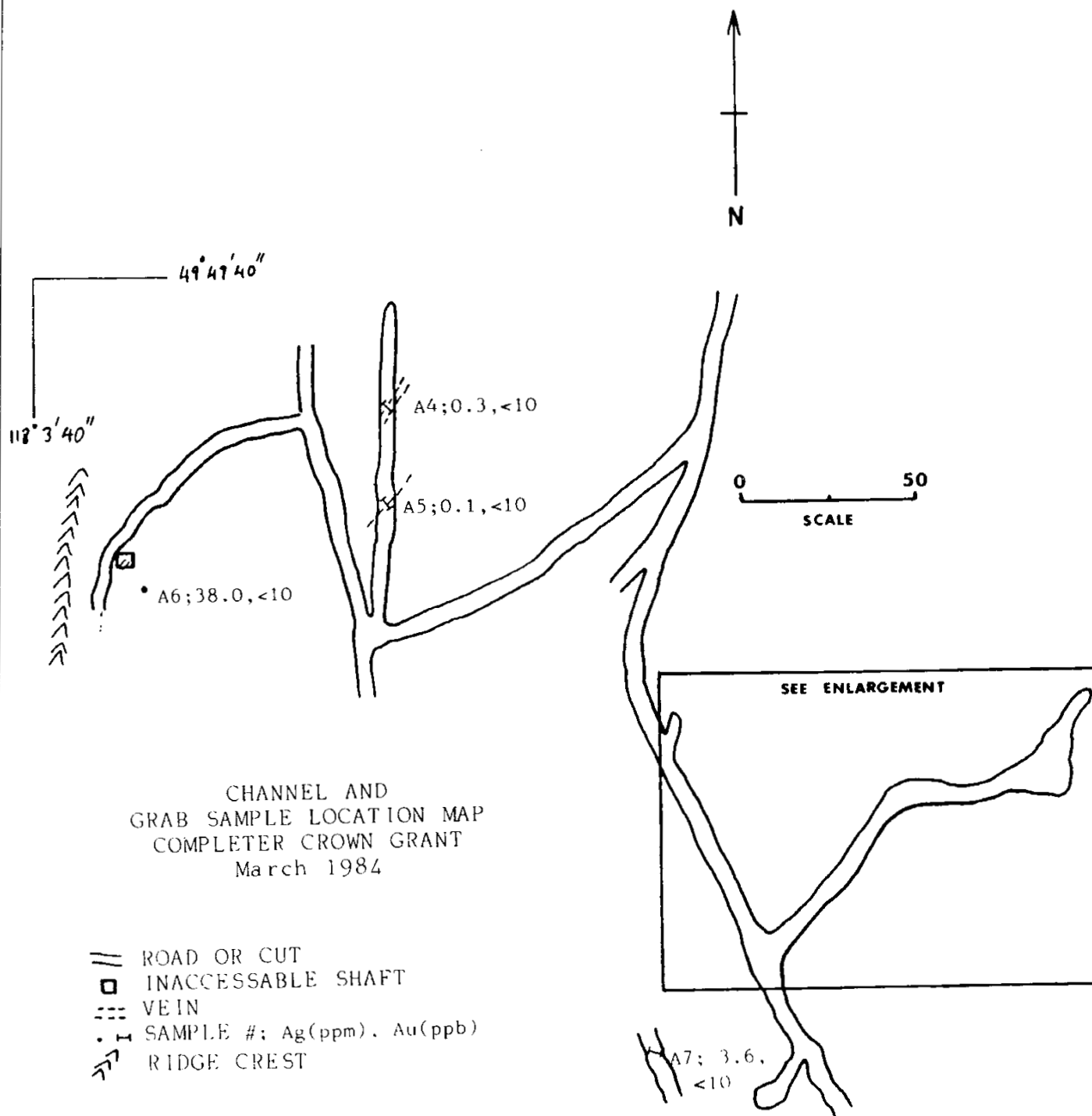


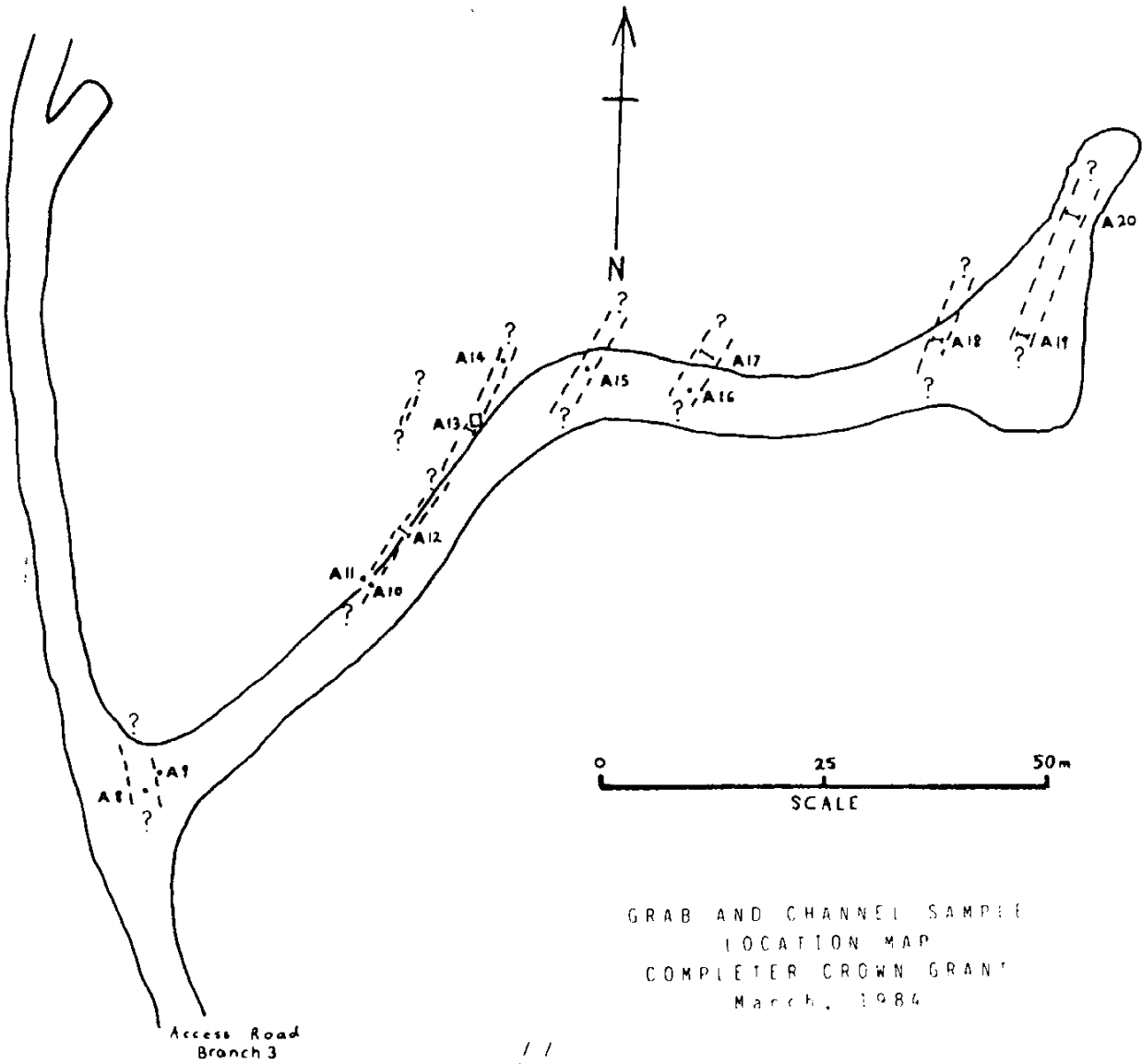


disseminated pyrite in the second trench, 70 m due north of the first. Although neither had milky quartz in place, the first trench had some mixed in its dump material.

In order to locate the strike extension of the vein system, the traverse continued east of the ridge toward Heart Creek. Outcrop was restricted to the banks of old logging road cuts and to portions of Heart creek. The majority of rock seen as outcrop was a dark green to grey, medium grained volcanic extrusive. In places this unit exhibited extensive limonite alteration, but no other mineralization was seen. No samples were taken of this unit.

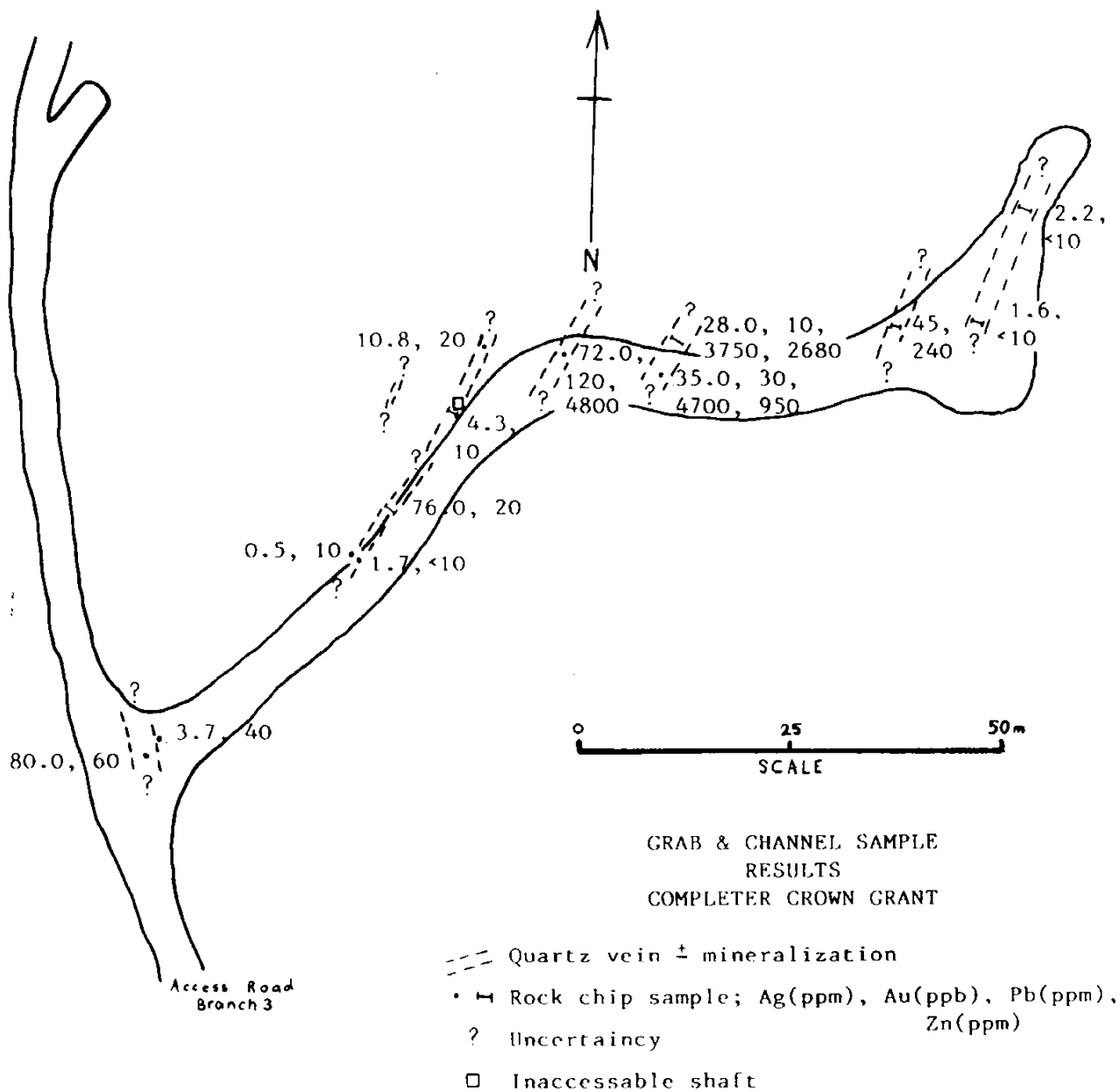
Because of the limited rock exposures, it is difficult to assess the probability of vein extensions to the north. Further trenching is therefore needed to better delineate the system and assess its potential.





GRAB AND CHANNEL SAMPLE
LOCATION MAP
COMPLETER CROWN GRAN
March, 1984

- /// Quartz vein ± mineralization
- ? Uncertainty
- Rock-chip sample
- ∩ Channel sample
- Inaccessible shaft





INTERPRETATIONS AND CONCLUSIONS

Heavy sediment sampling, carried out to test the possibility of a northern extension of the Completer vein system through Heart Creek and any further source of gold or silver to the east, failed to pick up any anomalies. Though it is unlikely that any major ore body exists to the immediate east of the claim block, there is still reason to believe that the veins found on the Completer Crown Grant extend at least to lots 2588 and 2590 on Heart Creek, where old workings are known to have existed.

Because of poor outcrop exposure, prospecting was limited to ridge tops and road cuts. The dominant rock type encountered was a coarse grained monzonite locally hosting mineralized quartz veins. It is apparent that the economic potential of the property lies in these veins which were seen only within the Completer Crown Grant where they are exposed in trenches. Surface sampling of these veins returned good values in silver and moderate lead-zinc concentrations. Gold values, as a whole, were generally low. Unlike many Ag-Pb-Zn deposits, however, high silver values were not always associated with galena. Further work, by way of additional trenching and drilling, will help determine the relationship between the silver and the quartz veining, as well as the extent of this mineralization at depth where better values for both gold, silver and base metals are reported to occur.



STATEMENT OF EXPENSES

March 14 - March 17, 1984

Wages: 4 days, 2 persons @ \$187.50	\$1,500.00
4 days, 2 persons @ \$127.50	510.00
Vehicle Rental:	226.18
Equipment Rental:	75.00
Gas & Fluids:	171.78
Accommodation:	127.33
Food:	189.32
Courier:	24.45
Supplies & Expendables:	18.03
Analysis:	324.72
Report and Drafting:	340.00
Management Fee:	<u>169.19</u>
TOTAL	<u><u>\$3,684.50</u></u>



CERTIFICATE OF QUALIFICATIONS

I, David Nelles, do hereby certify that:

1. I am a Geologist with business offices at 403 - 750 West Pender Street, Vancouver, B.C., V6C 2T7, and am employed by Golden Porphyrite Ltd.
2. I am a graduate of the University of B.C. with a Bachelor of Science degree in Geology.
3. This report is based on two days field work on the Koz, Barn, Dave and Blue claims in the Slocan M.D.
4. I have no interest in the forementioned claims or Arrow Lakes Mines Ltd., nor do I expect to receive any.

Dated this 20th day of June, 1984 at Vancouver, British Columbia.



David M. Nelles, B.Sc.

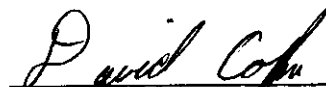


CERTIFICATE OF QUALIFICATIONS

I, David Coffin, do hereby certify that:

1. I am a prospector with business offices at 403 - 750 West Pender Street, Vancouver, B.C., V6C 2T7, and am employed by Golden Porphyrite Ltd.
2. I am a graduate of the Haileybury School of Mines' Mining Technology Programme.
3. I have been practising in my profession for more than 12 years throughout Canada.
4. This report is based on two days field work on the Koz, Barn, Dave and Blue claims in the Slocan M.D.
4. I have no interest in the forementioned claims or Arrow Lakes Mines Ltd., nor do I expect to receive any.

Dated this 20th day of June, 1984 at Vancouver, British Columbia.



David Coffin



APPENDIX A

GEOCHEMICAL RESULTS

Note: Sample numbers appear in columns
6 through 10 of
sample code



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0221
 TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : GOLDEN PORPHYRITE LTD.

403 - 750 WQ. PENDER ST.
 VANCOUVER, B.C.
 V6C 2T7

CERT. # : A8411919-001-A
 INVOICE # : 18411919
 DATE : 4-JUN-84
 P.O. # : NONE
 ARROW LKS.

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm	AS ppm	AU-AA ppb	Sb ppm
A400RA0001205017	205	--	--	2.8	--	<10	--
A400RA0002205017	205	--	--	0.1	--	<10	--
A400RA0003205017	205	--	--	1.4	--	<10	--
A400RA0004205017	205	--	--	0.3	--	<10	--
A400RA0005205017	205	--	--	0.1	--	<10	--
A400RA0006205017	205	500	170	38.0	--	<10	--
A400RA0007205017	205	--	--	3.6	--	<10	--
A400RA0008205017	205	--	--	80.0	--	60	--
A400RA0009205017	205	--	--	3.7	--	<10	--
A400RA0010205017	205	--	--	1.7	--	<10	--
A400RA0011205017	205	--	--	0.5	--	<10	--
A400RA0012205017	205	--	--	76.0	--	20	--
A400RA0013205017	205	--	--	4.3	--	10	--
A400RA0014205017	205	--	--	10.8	--	20	--
A400RA0015205017	205	4800	--	72.0	--	120	--
A400RA0016205017	205	4700	950	35.0	--	30	--
A400RA0017205017	205	3750	2680	28.0	--	10	--
A400RA0018205017	205	--	--	45.0	--	240	--
A400RA0019205017	205	--	--	1.6	--	<10	--
A400RA0020205017	205	--	--	2.2	--	<10	--



MEMBER
 CANADIAN TESTING
 ASSOCIATION

Certified by Hart Bichler



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212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : GOLDEN PORPHYRITE LTD.

403 - 750 WD. PENDER ST.
VANCOUVER, B.C.
V6C 2T7

CERT. # : A8411920-001-A
INVOICE # : I8411920
DATE : 31-MAY-84
P.O. # : NONE
ARROW LKS

Sample description	Prep code	Au FA oz/T						
A400HB0001213396	213	<0.003	--	--	--	--	--	--
A400HB0002213396	213	<0.003	--	--	--	--	--	--
A400HB0003213396	213	<0.003	--	--	--	--	--	--
A400HB0004213396	213	0.003	--	--	--	--	--	--
A400HB0005213396	213	<0.003	--	--	--	--	--	--
A400HB0006213396	213	<0.003	--	--	--	--	--	--
A400HB0007213396	213	<0.003	--	--	--	--	--	--



MEMBER
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.....
Registered Assayer, Province of British Columbia



CHEMEX LABS LTD.

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NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
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• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : GOLDEN PORPHYRITE LTD.

403 - 750 WD. PENDER ST.
VANCOUVER, B.C.
V6C 2T7

CERT. # : A8411920-001-A
INVOICE # : I8411920
DATE : 31-MAY-84
P.O. # : NONE
ARROW LKS

Sample description	Prep code	Ag ppm Aqua R						
A400HB0001213396	213	0.1	--	--	--	--	--	--
A400HB0002213396	213	0.1	--	--	--	--	--	--
A400HB0003213396	213	0.1	--	--	--	--	--	--
A400HB0004213396	213	0.1	--	--	--	--	--	--
A400HB0005213396	213	0.1	--	--	--	--	--	--
A400HB0006213396	213	0.1	--	--	--	--	--	--
A400HB0007213396	213	0.1	--	--	--	--	--	--



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APPENDIX B

ROCK SAMPLE DESCRIPTIONS



APPENDIX B

- RA 0001 Grab sample of 2 cm quartz vein in old blast trench.
- RA 0002 Sample across 30 cm shear in trench with RA0001.
- RA 0003 Quartz with pyrite in small trench 70 m north of samples RA0001 and RA0002.
- RA 0004 2 m channel across two quartz veins 20 cm and 60 cm wide respectfully.
- RA 0005 0.75 m channel across 20 cm quartz vein - some disseminated pyrite.
- RA 0006 Grab sample of dump material from "West" shaft. Galena and pyrite.
- RA 0007 1.5 m channel sample of quartz material in trench southwest of "showing" area.
- RA 0008 Locally occurring disseminated sulphides in otherwise barren quartz. Exposed surfaces show orange oxidation.
- RA 0009 Altered wall rock, recrystallised and fine grained, with localized quartz veining.
- RA 0010 Barren thin quartz vein, less than 20 cm thick, with oxidized ferro-magnesium minerals at contact with wallrock.
- RA 0011 Altered wall rock, recrystallized and fine grained, with localized quartz veining.
- RA 0012 60 cm channel sample across quartz vein.
- RA 0013 180 cm channel sample across quartz vein at "East" shaft. Orange oxidation on surface of quartz.
- RA 0014 In-situ and float quartz breccia. Fragments are very angular and supported by oxidized matrix.
- RA 0015 Quartz float with patchy galena, marcasite and pyrite.
- RA 0016 Quartz float with local concentrations of galena, marcasite and pyrite. Some boxwork structures after pyrite.
- RA 0017 0.9 m channel sample of milky quartz vein with galena and pyrite (4%).
- RA 0018 1.2 m channel of milky quartz vein.



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- RA 0019 2.0 m channel of milky and grey quartz vein. Some pyrite visible.
- RA 0020 1.5 m channel of milky and grey quartz vein with minor pyrite.