

85-501-14527

Geological Assessment Report

on the

TIMBERLINE 3, 4, and 5

New Westminster Mining Division
Latitude 49°19'N, Longitude 121°09'W
Map Sheet N.T.S. 92H/6

08/86

for

Sheen Minerals Inc.
32655 Rossland Place,
Clearbrook, B.C.

FILMED

Report by:

Mr. D.G. Cardinal, P.Geol.
Consulting Geologist
Hope, B.C.
Aug. 4, 1985

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,527

08/86

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A. INTRODUCTION

The Timberline claims cover the northern extension of the old Master Ace gold bearing structure. In the 1920's, gold-copper mineralization was discovered on the Master Ace structure which, for the next 15 - 20 seasons, was intermittently prospected with the structure eventually traced for some four (4) miles along strike.

The claims are underlain by granites, cherty sediments and a peridotite-serpentine fault zone. Near the serpentine-granite contact and occurring in the granite, there are a number of parallel quartz fissures which host blebs of sulphide mineralization consisting of chalcopyrite, molybdenite, and anomalous gold.

The property was briefly examined by the writer during the month of August, 1984. The reconnaissance work conducted and the results obtained are herein submitted for assessment work credits.

B. CLAIMS INFORMATION

The Timberline 3-5 make up the Timberline Group which consists of 26 contiguous units. The claims are located within the New Westminster Mining Division.

The pertinent data is as follows:

| <u>Claim Name</u> | <u>Units</u> | <u>Record No.</u> | <u>Expiry Date</u> |
|-------------------|--------------|-------------------|--------------------|
| Timberline 3 | 18 | 2476 | Aug. 7 |
| Timberline 4-5 | 8 | 2503-2504 | Aug. 28 |

C. LOCATION AND ACCESS

The property is located some 19 km. due east of the town of Hope, B.C., at the headwaters of Matthew creek, a tributary of Sowaqua Creek.

Presently, the property can only be reached by helicopter, some 20 min. flying time from Hope. The Hope-Princeton Highway (Hwy #3) is about 8.0 km. due south of the claims.

D. PHYSIOGRAPHY AND CLIMATE

The claims are situated in the northern Cascade Mountains of southwestern British Columbia and cover rugged alpine, glaciated peaks and precipice valleys. The topographic relief varies between 1,067 m. (3,500 ft.) and 2,439 m. (8,000 ft).

The climate is relatively warm and dry during the short

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D. PHYSIOGRAPHY AND CLIMATE Cont'd

summer seasons and in the alpine regions is conducive to surface exploration for 2 - 3 months during snow free conditions.

E. BACKGROUND AND HISTORY

The Timberline claims were staked in Aug., 1984 following the rescinding of Order-in-Council (O.I.C.) # 994 (O.I.C. # 994 prohibited staking and exploration) by the B.C. Provincial Government; thereby, opening the area to staking and mining activity.

In the early 1920's, E.C. Rice and associates of Coalmont, B.C. discovered gold on the Master Ace claims. These claims are located immediately south and adjacent to the Timberline property. During this period, several trenches, pits and short adits were established along the Master Ace zone, in which, several mineralized structures were uncovered carrying up to \$16.00 per ton gold. Several quartz-fissure veins were also uncovered during this time near the north boundary of the Timberlines where picked samples assayed as high as \$14.00 in gold per ton.

In the Spring of 1984 following the cancellation of the O.I.C., Placer Development Ltd. immediately staked some 110

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units in the area, The Timberline claims were subsequently staked to cover the northern extension of the Master Ace structure.

F. GENERAL GEOLOGY

Regionally, the geological setting consists of a major geological fault-break referred to as the Hozameen Fault, and is spatically related to a number of old precious and base metal camps. The fault is represented by a serpentized belt of ultramafic rocks separating two distinct rock types. To the West is the Hozameen Group, Paleozoic in age and consisting predominantly of cherts, cherty volcanics and sediments. The Hozameen Group hosts a few known potential mineral showings, including the Master Ace zone. On the east, in fault contact with the serpentine, is the Ladner Group sediments of Jurassic age. The Ladner Group is composed mainly of slate, argillite and greywacke; and, is a host to an old gold mining camp which, until recently, has seen some production from Carolin Mines' Idaho Zone gold deposit.

The Timberline claims are underlain by the Hozameen Group rocks, intruded by the coast range granites. The rocks consist predominantly of cherts and hornfels sediments, and host a narrow band of faulted serpentine. Near the north end of the property, hosted in the granites is a series of sub-parallel quartz fissure veins. The veins vary in width from about 8 cm

Cont'd

F. GENERAL GEOLOGY Cont'd

to 1 cm. and carry coarse blebs, molybdenite flakes, and chalcopyrite. Grab samples collected from the veins assayed up to 0.105 oz/ton Au; 0.38 oz/ton Ag; 0.29 % Cu, and 0.157% MoS₂.

The Timberline claims were prospected and mapped in a reconnaissance style, at a scale of 1 inch to 1/2 mile. The work was carried out from a 2-man fly camp utilizing helicopter support for the move. Four (4) days were spent on the property. All surveys, i.e. mapping and sampling, were controlled by a combination of altimeter and compass readings, hip-chain measurements; and, use of prominent topographic features as tie-in points.

G. CONCLUSION

From the initial reconnaissance examination conducted on the Timberline claims 3-5, the claims appear to cover host rocks and structures favourable for a precious-base metal deposit.

The granite which intrudes the Hozameen cherts, sediments and the band of faulted serpentine may have acted as a heat source to reconcentrate and remobilize auriferous bearing fluids. The gold bearing quartz veins found near the granite-serpentine contact may reflect such an event. The strong fault-shear zone associated with the serpentine should closely be

Cont'd

G. CONCLUSION Cont'd

examined for gold bearing structures.

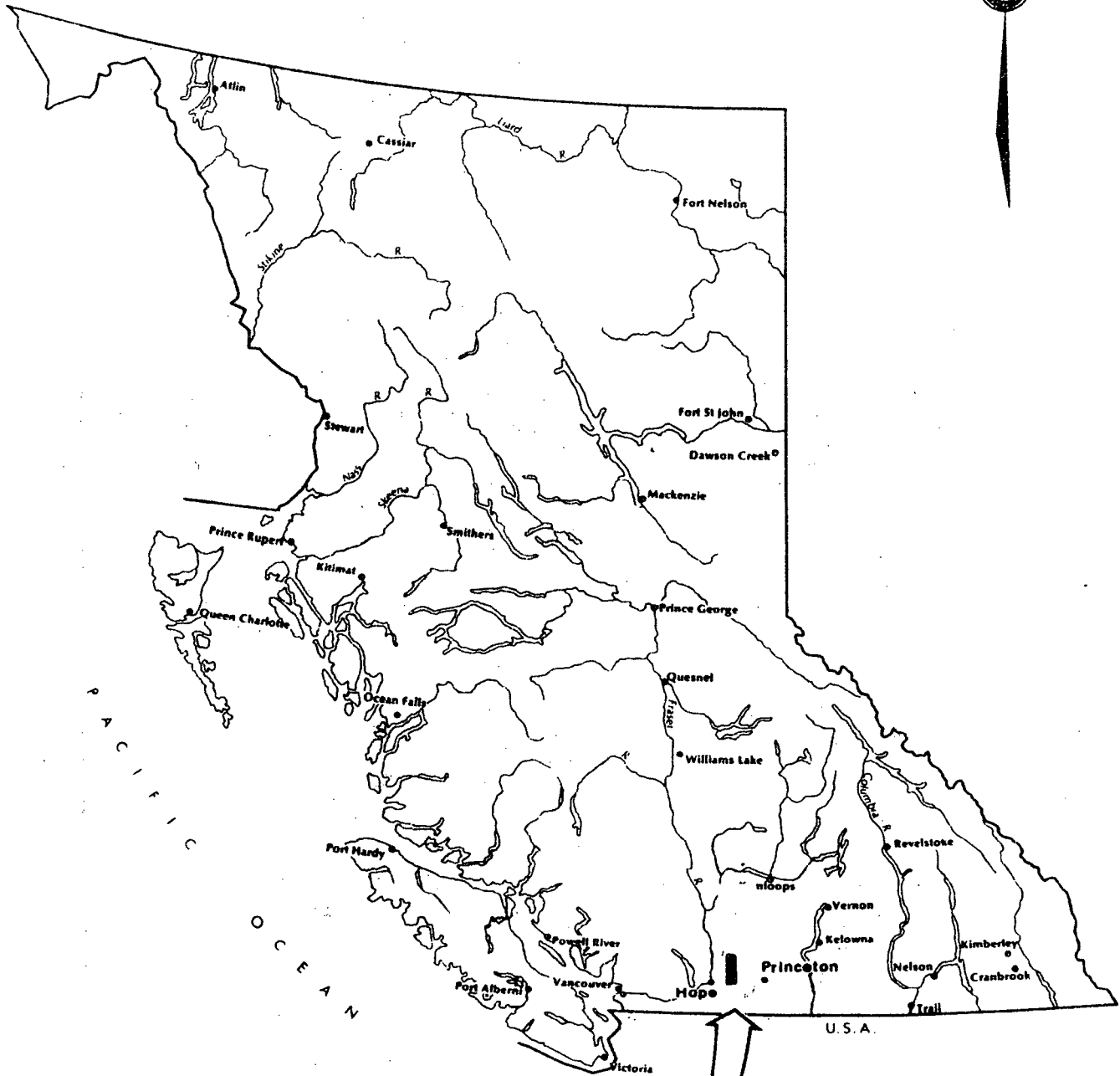
H. COST BREAKDOWN

| | Cost |
|--|--------------------|
| Personnel: | |
| Geologist; 4 days @ \$300/day (Aug. 15-18, 1984) | \$ 1,200.00 |
| Prospector; 4 days @ \$150/day (Aug. 15-18, 1984) | 600.00 |
| Mobilization: | |
| Helicopter; 1 hr. @ \$600/hr. | 600.00 |
| Groceries and field gear | 200.00 |
| | <u>\$ 2,600.00</u> |

Respectfully submitted

Don Cardinal

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



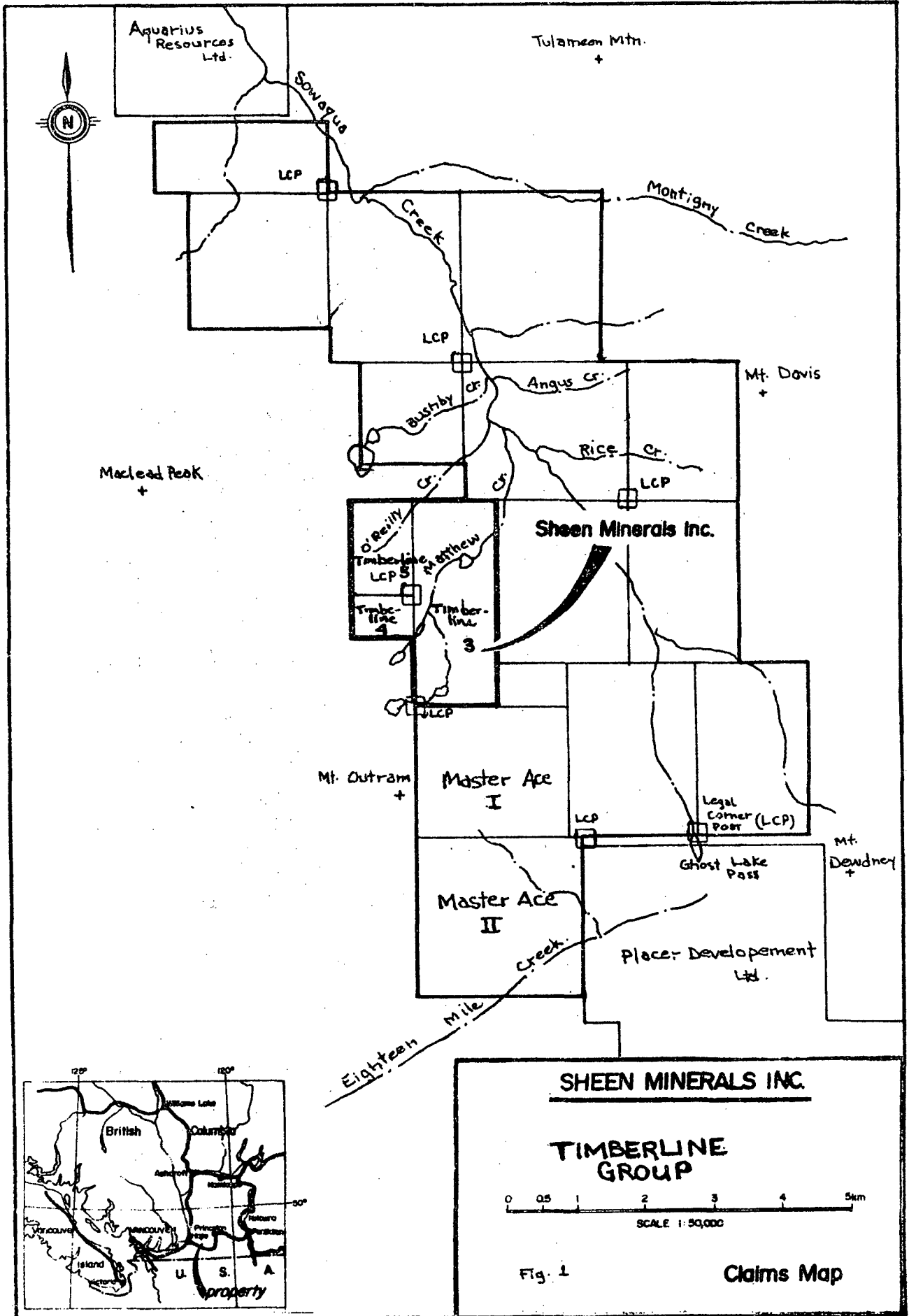
SHEEN MINERALS INC.

Property Location

Figure 2:

TIMBERLINE GROUP

- Location map



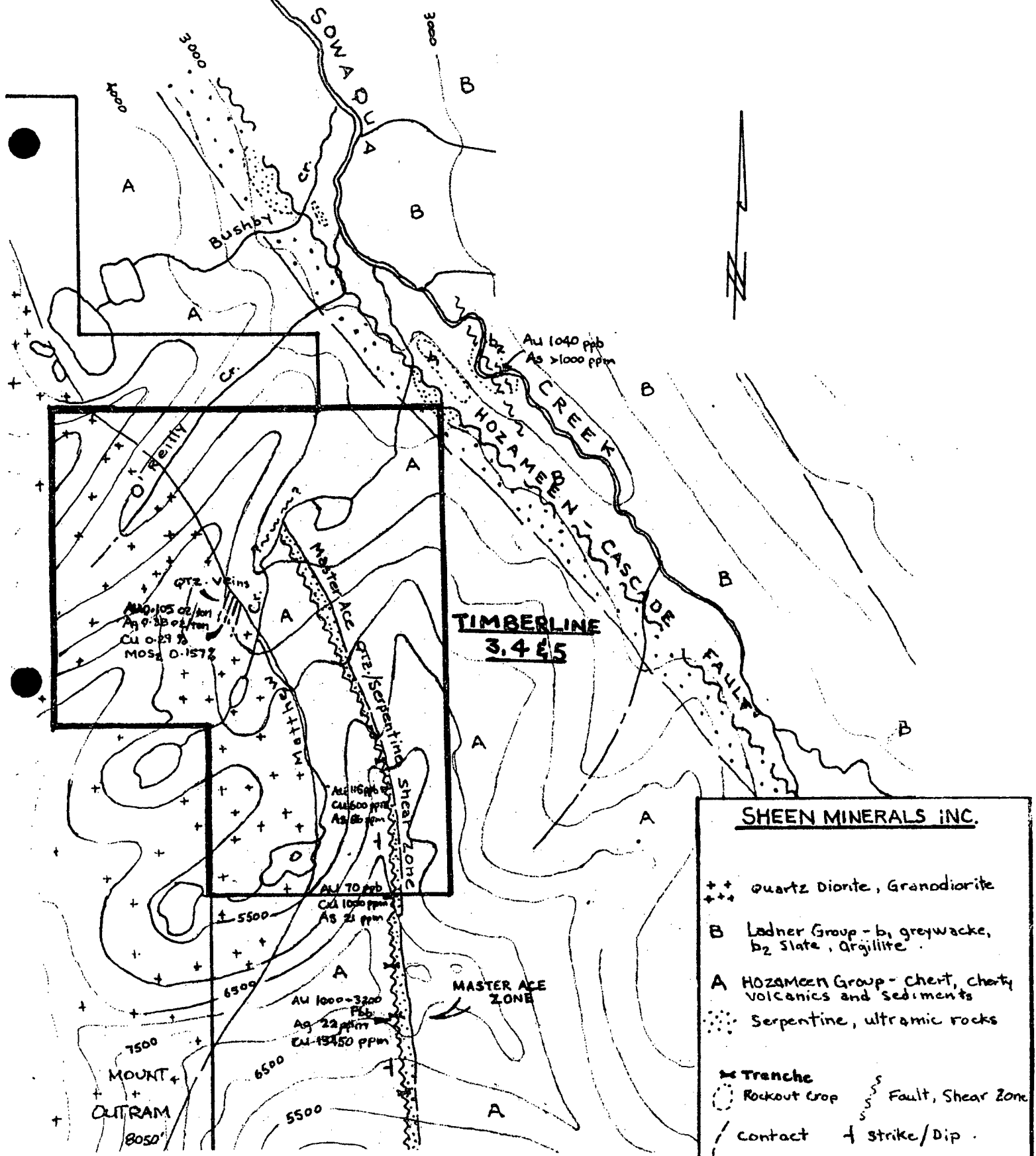
SHEEN MINERALS INC.

TIMBERLINE GROUP

0 0.5 1 2 3 4 5 km
SCALE 1:50,000

Fig. 1

Claims Map



TIMBERLINE
3.465

SHEEN MINERALS INC.

- ++ quartz Diorite, Granodiorite
- +++
- B Ladner Group - b₁ greywacke, b₂ slate, Argillite.
- A Hozameen Group - chert, cherty volcanics and sediments
- Serpentine, ultramic rocks
- ⊠ Trench
- Rockout crop
- ⋈ Fault, Shear Zone
- contact + strike/dip.

TIMBERLINE GROUP

Local and Reconnaissance
FIG 3 Geology
 Scale 1 in. : 1/2 mi. DAC.

APPENDIX I

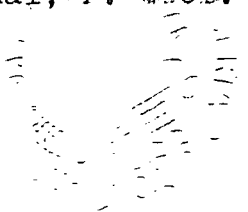
CERTIFICATE

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 (1975), with a B.Sc. degree in Economic Geology and a Graduate of the Northern Alberta Institute of Technology with a Geological Technologist diploma (1970).
3. I am a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a member of the Canadian Institute of Mining and Metallurgy.
4. Since 1968, I have been actively involved in the Canadian Mining Industry both as a prospector and a professional geologist, with projects in Northern and Western Canada, and in the Western States of the U.S.A..



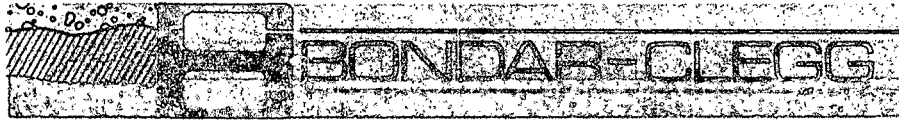
Daniel G. Cardinal, P. Geol.



APPENDIX II

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REPORT: 424-2650

PROJECT: TIMBERLINE

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | AN OPT | NO OPT | CU PCT | AG PCT | NOTES |
|---------------|---------------|--------|--------|--------|--------|-------|
|---------------|---------------|--------|--------|--------|--------|-------|

| | | | | | | |
|-----------|--|-------|------|------|-------|---|
| R AC-24-1 | | 0.002 | 0.74 | 0.01 | 0.004 | ANALYZE Timberline 3, 4 & 5 QTZ VEINS IN GRANITES |
| R AC-24-2 | | 0.010 | 0.10 | 0.14 | 0.028 | |
| R AC-24-3 | | 0.037 | 0.35 | 0.03 | 0.098 | |
| R AC-24-4 | | 0.103 | 0.20 | 0.10 | 0.095 | |
| R AC-24-5 | | 0.079 | 0.38 | 0.19 | 0.157 | |

| | | | | | | |
|-----------|--|-------|------|------|-------|--|
| R AC-24-6 | | 0.083 | 0.35 | 0.27 | 0.116 | |
|-----------|--|-------|------|------|-------|--|