

LOG NO: <i>April 23/91</i> RD.
ACTION:
FILE NO:

**1990 FIELDWORK ON THE
LATER #1 and #2 MINERAL CLAIMS
LILLOOET MINING DIVISION**

NTS: 92J/7E

Longitude 122 42' West

Latitude 50 27' North

Work done by: Jim Cuttle
P.O. Box 37009
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North Vancouver, B.C. V7N 4M4

January 21, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,227

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INTRODUCTION

During parts of the 1990 spring and summer months a limited geochemical and physical program was conducted on the newly staked Later 1 & 2 mineral claims, located approximately 17 kilometres northeast of Pemberton, B.C. Previous work recorded in assessment files has indicated the claims overlies several zones of intense skarn alteration and related Cu,Mo,W,Pb,Zn, and Ag mineralization. The work recorded in this following report is intended to satisfy yearly assessment requirements on these new claims.

LOCATION, ACCESS and TOPOGRAPHY

The two mineral claims (Later 1 & 2) are located 17 kilometres northeast of Pemberton along the Mount Currie - D'Arcy highway at the junction of the Birkenhead River and the main highway. The claims have several well maintained gravel roads and older logging roads that offer access to various flatter sections in the central portion of the Later #1 claim. At the present access to Later #2 is by foot only.

Topography varies considerably, and many of the valleys are steep and cliff-like. Several flat areas exist though, one of which lies within the main zones of interest and the second which lies in the northern portion of the Later #1 claim. There is an elevation difference from the bottom of the Birkenhead River (533 m) to the highest point on the property (1690 m) of 1157 meters. A substantial change over a short distance of 1.3 kilometres.

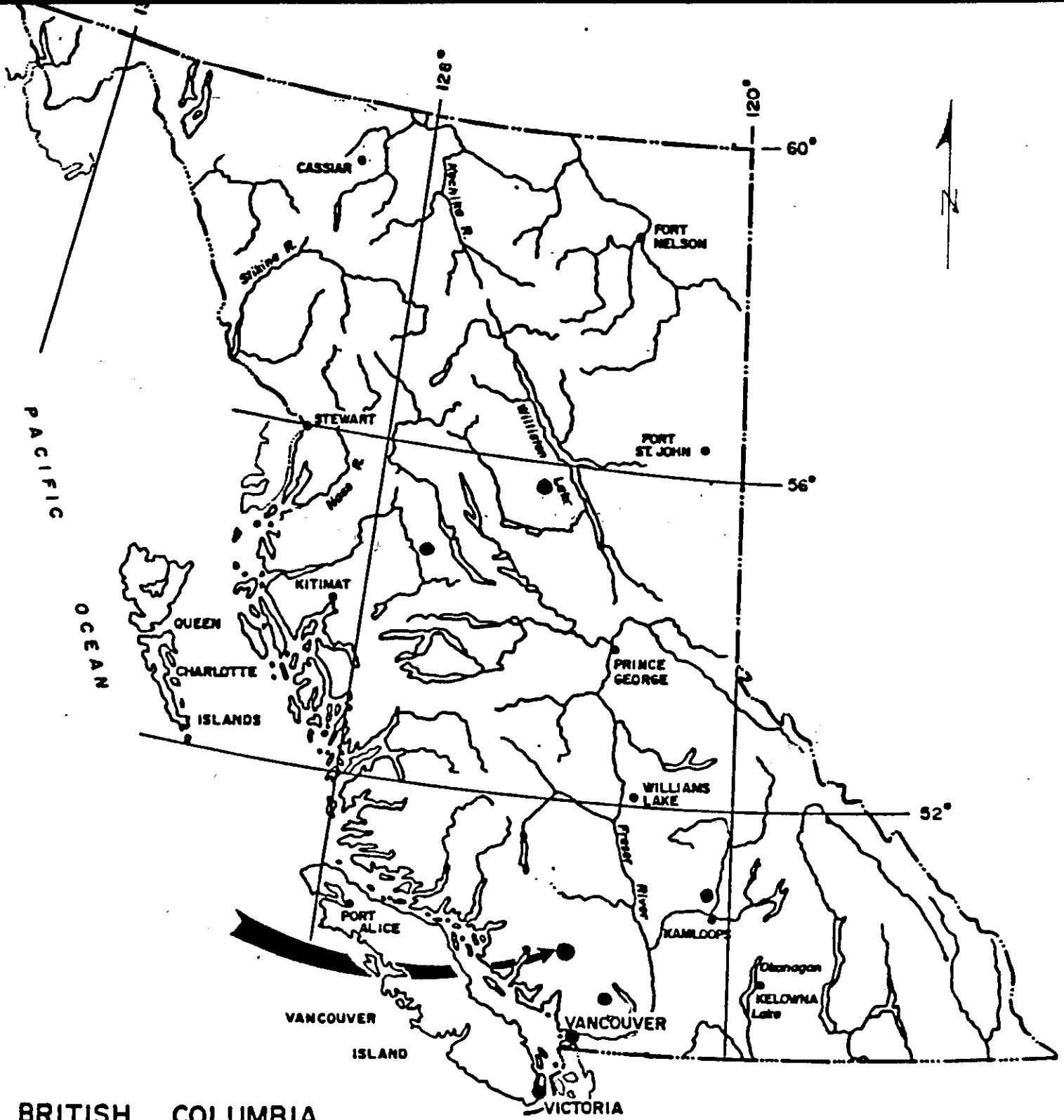
Winters are not particularly severe at this elevation and crews can often find it possible to prospect even in the early months of winter and spring. Vegetation is sparse except where old logging areas have been overgrown with denser growth of alder, willow and fir regeneration. None of the areas are overly difficult to walk through save for the steep valleys and cliffs that surround the main Birkenhead River.

CLAIM STATUS

The two claim blocks are located in the Lillooet Mining Division and include a total of 32 units. They were staked and are presently owned by J. Cuttle of North Vancouver, B.C.

Claim Name	# units	Recorded	Expiry
Later # 1	20	Jan 21/90	Jan 21/92
Later # 2	12	Jan 21/90	Jan 21/92

The work recorded during the 1990 field season will keep this property in good standing for one year.



BRITISH COLUMBIA

Scale 1:7,500,000 approx.

Fig 1
 General
 Location Map
 Later #1 and #2 Claims

M92J/7E

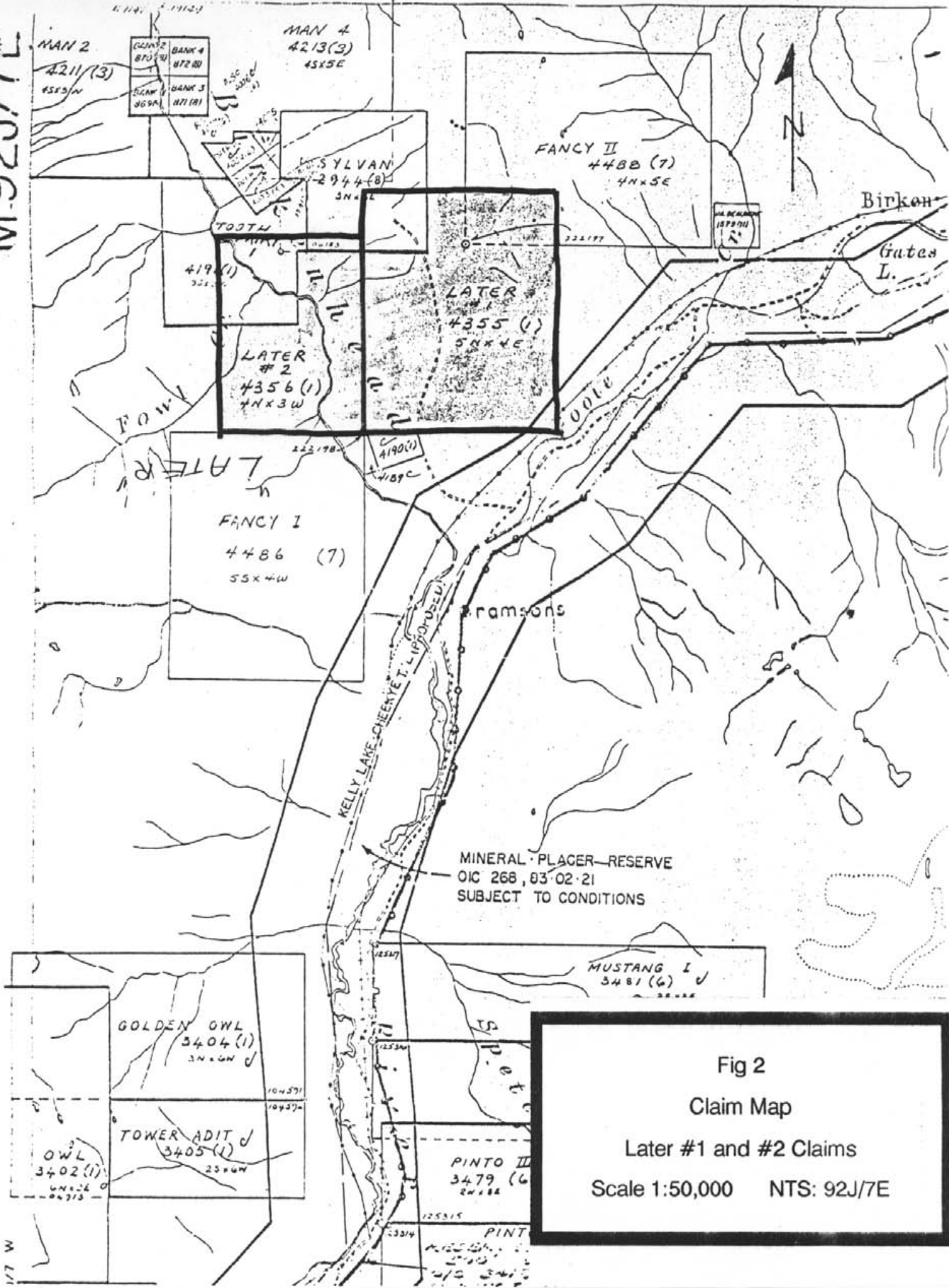


Fig 2
 Claim Map
 Later #1 and #2 Claims
 Scale 1:50,000 NTS: 92J/7E

HISTORY and PREVIOUS WORK

The only recorded previous geological work performed within the present day property boundaries is an assessment report (#10036) written in February 1982 covering the Lizard and Lizard #2 mineral claims by Serem personnel. Their work focused specifically on skarn type mineralization found within carbonate horizons of the Triassic Hurley Formation. Mineralization included W, Mo, Cu, Pb and Zn in an assemblage of epidote and garnet rich host rocks. Magnetometer, geochemical and lithochemical surveys were carried out over approximately 6350 meters of grid line. From these surveys several geochemical anomalies remain open for investigation, in particular references to an outcrop grab sample of mineralized skarn with 6.15% Cu, 7.25% Zn, 8.4% Pb and 5.3 opt Ag found north of the grid area and a 3.0 meter chip sample of 0.044 opt Au located in the western part of the old grid.

Prior to the work program mentioned above, there is other work that has been carried out on these skarn locations, of which none of the work has been recorded in assessment files or made available to the public. On the property lie several boxes (approx 7 boxes, 175ft) of BQ core and the location of an old drill collar drilled at 090/-70. This drill hole was testing for mineralization under several old two foot deep trenches. Assays from the core can be obtained although their locations in the actual drill hole are in doubt.

LOCAL GEOLOGY

The area is underlain by the Upper Triassic Hurley Formation of the Cadwallader Group. More specifically, the claims include an alternating series of mafic volcanic tuffs, massive green andesite, limey volcanic sediments, large greenish white cal-silicate beds, banded creamy coarse grained limestones and a variety of metamorphic equivalents. The massive mafic volcanics are commonly iron stained and silicified when in close proximity to an intrusive dyke or plug. It is the limey volcanic sediments and the creamy white limestones that are the present day focus of attention for the formation of skarn type mineralization, when they are in close contact with the surrounding and underlying quartz diorite.

A small plug(?) of intrusive quartz diorite intrudes the southern areas of Later #1 and underlies the remainder of the region. It is represented very possibly by a large concentric magnetic high found on Government of Canada magnetic map #7702G.

There exists several zones of skarn alteration along the western and southwest edges of the Later #1 claim. Mineralogy of these zones is dominated by massive brown garnet (grossular) with intermixed quartz and diopside, at times forming a brecciated and deformed texture. Other skarn type alteration includes an assemblage of epidote-garnet-calcite that is found in close proximity to the gouged and sheared intrusive contacts found particularly along the road cuts in the southeastern sections of Later #1 claim.

Strike of the country rock is dominantly to the north with shallow dips to the east (10 - 45 degrees). Several areas within the volcanic/sedimentary pile exhibit relict bedding structures although the Cadwallader Group is known to have a high metamorphic grade and consequently many of the sedimentary structures have all but disappeared.

DISCUSSION

During the 1990 field program three basic targets were to be investigated, these targets being generated from previous recorded assessment work from 1985 but were never followed up. It is felt there remains good potential for W,Mo,Pb,Zn (Au,Ag?) skarn type mineralization within the Hurley Group and these targets are as follows: #1). Pb-Zn-Cu-Ag mineralization as mentioned in assessment report #10036, being located 250 meters north of the grid. The sample assayed 6.15% Cu, 7.25 Zn, 8.4% Pb and 5.38 oz/t Ag. #2). A 3.0 meter channel sample over a section of skarn assayed 0.044 oz/t Au and 0.044% W. A grid was run over this area but the soils were not run for gold. #3). Several isolated Pb-Zn soil anomalies remain to be tested from the 1985 field work. This years work was orientated towards trying to locate the bedrock source of these mineralized areas and assess their potential.

GEOCHEMISTRY

Soil Geochemistry:

A small and open Pb-Zn anomaly had been isolated during Serem's 1981 field work, located on their grid reference at L-0+00E, 0+50S. The soil samples reached a high of 670 ppm Zn and 41 ppm Pb in a small concentric zone with known and mapped underlying skarn mineralogy. Prospecting during the 1990 work season located this suspected area and two east west soil lines were sampled (Au,Ag,As,Bi,Cd,Cu,Fe,Mo, Pb,Sb,Zn,Sn,W,) for a total of 11 soil samples. From the accompanying grid map (1:2000) with rock sample and pit locations, the soils can be seen located in the northwest corner. The results did not show any anomalous zones within these two lines and the survey is consequently inconclusive.

Rock Geochemistry and Skarn Mineralogy:

A total of 13 rock samples were taken over areas of skarn alteration and mineralogy, in heavy limonite zones, and thirdly, heavily bleached volcanic(?) layers within rusty mafic flows. Two pits (see location map) were blasted and sampled on the later rock type, within the grid area. The previously mentioned 3.0 meter chip sample that assayed 0.044 opt Au was not located on Serem's old grid.

Rock Sample Descriptions:

Descriptions of the samples that were taken are as follows:

- LATER-JC-1 o/c grab from Pit-2, @ L-0+40S,0+75E. The zone is bleached and in places silicified, and resembles an alteration zone within a package of mafic volcanics.
- LATER-JC-2 o/c grab from Pit-1, @ 2+10N,0+15W. A siliceous and rusty zone within mafic to intermediate volcanics.
- LAT-JC-3 @ L-1+80N,0+40W. o/c grab. Siliceous mafic volcanic, grey to dark green with small spots of red sulphide stain.
- LAT-JC-4 @ L-1+79N,0+40W. O/C grab. Siliceous and rusty mafic volcanic with minor secondary calcite and spotty yellow red sulphide stain.
- LAT-JC-5 @ L-1+77N,0+39W. O/C grab. Rusty siliceous mafic volcanic with light brown/yellow weathered spots from sulphide(?).
- LAT-JC-6 @ L-1+70N,0+44W. O/C grab. Siliceous mafic volcanic with biotite and epidote bands.
- LAT-JC-7 @ L-1+72N,0+37W. O/C grab. Highly siliceous and partly bleached grey mafic volcanic. Silica has replaced large % of whole rock o/c. Spotty sulphide (py) remains.
- LAT-JC-8 @ L-2+10N,0+15W. O/C grab. PIT #1 Highly siliceous and fresh mafic volcanic with disseminated pyrite and minor fracture fill calcite.
- LAT-JC-9 @ L-2+10N,0+15W. O/C grab. PIT #1 Oxidized and weathered equivalent of LAT-JC-8. Minor iron stain.
- LAT-JC-10 o/c grabs of quartz, calcite, epidote, garnet skarn with MoS₂, cpy and to 12 minor mal. All located at L-0+25N,0+38E.
- LAT-JC-13 o/c in northeastern portion of the claim. A large gossanous cliff exposure of felsic volcanic, rhyolite to rhyolite tuff. Approximately 5-7% diss pyrite throughout outcrop.

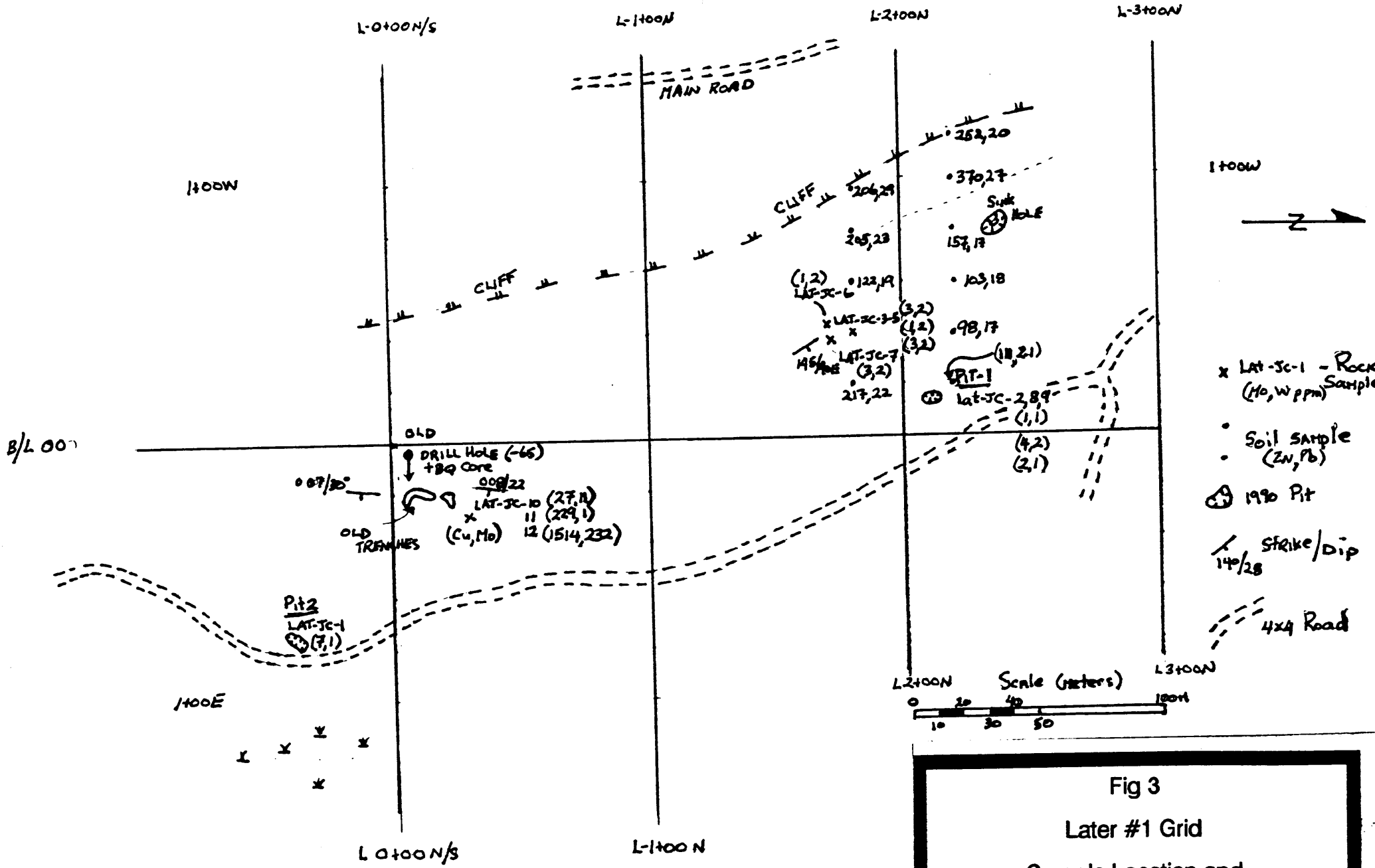


Fig 3
 Later #1 Grid
 Sample Location and
 Geochemistry
 Scale 1:2,000 NTS92J/7

PROSPECTING

The few days spent prospecting revealed zones of thick but limited quartz garnet calcite epidote skarn assemblages in close proximity to quartz diorite located in the southeast portion of the property. Old and very small pits or trenches are found in these zones of skarn, some of which reveal rosettes of molybdenite and malachite. One drill hole (BQ) has been drilled under the pits and the core that is still at its present location does not show any sign of mineralization. Parts of it have been split and obviously assayed in the past but results then were apparently negative for the unknown parties involved.

The variable mix of sedimentary and volcanic rocks of the Hurley Formation that underlie the Later claims strike generally towards the north and dip shallow to the east. There are exceptions to this with some of the creamy white limestones dipping steeply to the east. Chances of exposed skarn mineralization seem to be very minimal at best due to the shallow dips of these beds.

CONCLUSION and RECOMMENDATIONS

The Later 1 and 2 mineral claims, after limited exploration during 1990 have yet to show additional encouragement for Mo,W,Pb,Zn skarn mineralization.

Two recommendations for areas to concentrate further work is as follows: 1) The high grade Pb-Zn-Ag sample found during the 1981 Serem field season approximately 250 meters north of the grid should be prospected for more intensely. It is not known whether this sample is from outcrop or float, but either way the high grade values obtained in the past are worthy of further work. 2) The main and rather extensive skarn zones with the known but spotty Mo-W-Cu mineralization should be covered with soil sampling and geochemed for gold and 12 element ICP. This will confirm the existence of any anomalous gold horizons as the one mentioned by Serem of 0.044 opt Au over 3 meters. A soil survey of approximately 100 soils and several rock samples would cost approximately \$2000.00 to perform.

APPENDIX I

STATEMENT OF COSTS

Later 1 and 2 Mineral Claims, 1990

#1	8 Mandays @ 350/day	\$ 2800.00
#2	Geochemistry, 11 soil	63.00
	13 rock	171.00
#3	Rental, Truck; 6 days @ 65/day	395.00
	Plugger, 1 day @ 50/day	50.00
#4	Food, gas and supplies	240.00
#5	Explosives	353.00
#6	Drafting, (property map)	110.00
#7	Report compilation, 2 days	700.00
#8	Map copies and Xerox	<u>50.00</u>
	TOTAL	<u>\$ 4932.00</u>

APPENDIX II

GEOCHEMICAL RESULTS

APPENDIX III

STATEMENT OF QUALIFICATIONS

I, JIM CUTTLE, of the Municipality of North Vancouver, in the Province of British Columbia, certify as follows regarding the work performed on the Later #1 and #2 Mineral Claims.

That I am a geologist having practised my profession in Canada and Norway for the past 11 years.

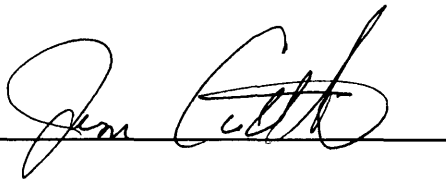
That I am a graduate of the University of New Brunswick with a Bachelor of Science in Geology.

That I am presently working as a private consultant at the home address of P.O Box 37009, 2930 Lonsdale Ave, North Vancouver, B.C.

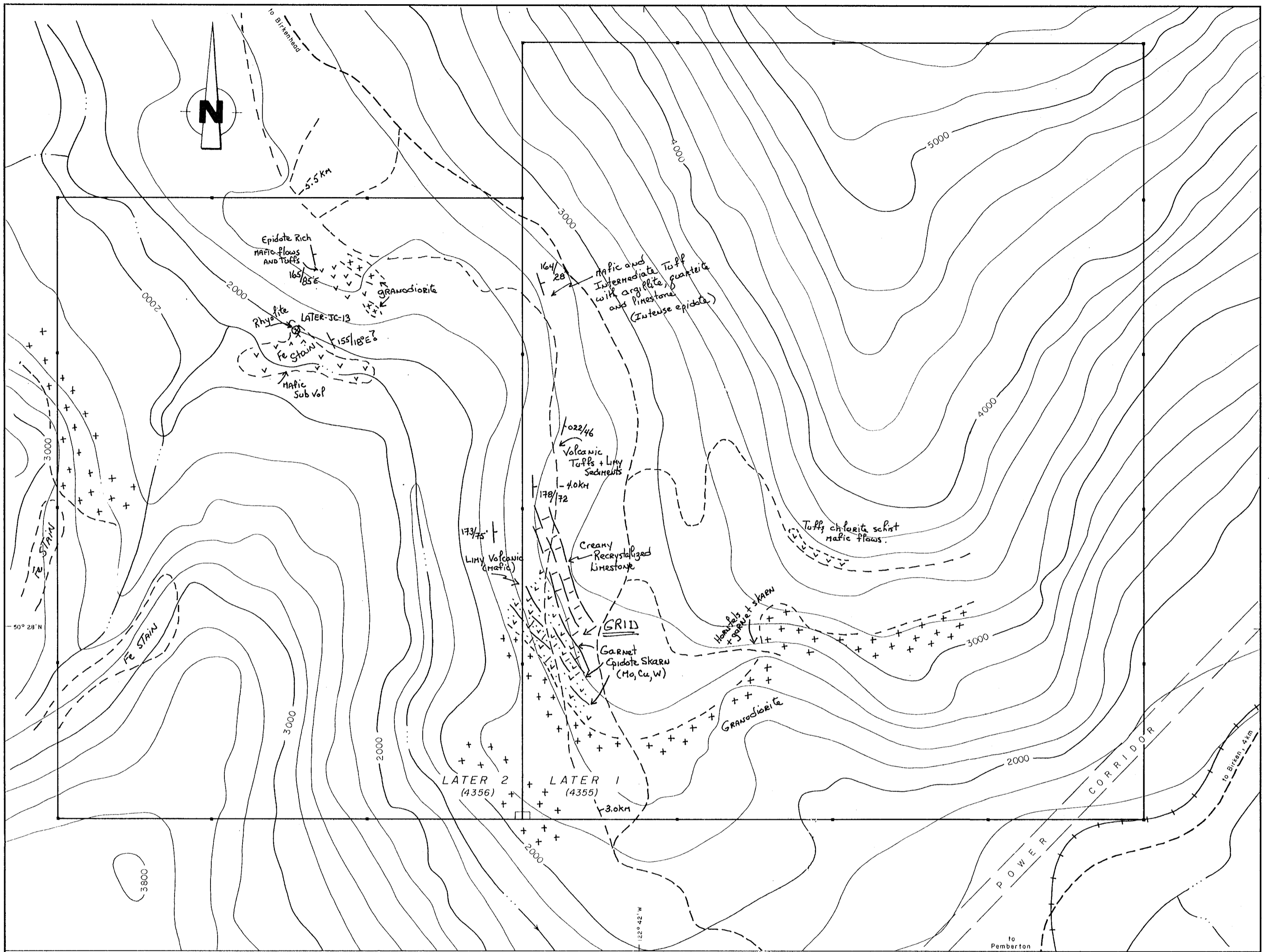
That I am a Fellow of the Geological Association of Canada.

That I am the registered owner of the Later 1 and 2 mineral claims located in the Lillooet Mining Division.

Signed: _____

A handwritten signature in black ink, appearing to read "Jim Cuttle", written over a horizontal line.

Jim Cuttle, B.Sc, F.G.A.C
January 21, 1991

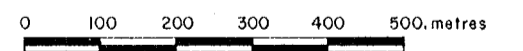


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LEGEND

- creek
- road
- railway
- contour (interval : 200ft)
- claim boundary



Lillooett Mining Division	
LATER CLAIMS	
GEOLOGY	
Date July 4/90	N.F.S. 92 J/7
Scale 1:10000	Figure 4
By J.C.	