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VANCOUVER, B.C.

A Prospecting Report on the Leo d'Or Mineral Claims

Havilah Gold Mines Ltd.  
John Devlin  
Ande Rychter

Nanaimo M.D.

Leo d'Or Claims  
2202 (6)  
NTS. 92 L/7WNimpkish  
126° 48'W, 50° 23'N  
Operator/ Owner: M.S. Madari  
May 25, 1987

FILMED

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,111

TABLE OF CONTENTS

Introduction	2
Location Map	3
Initial Reconnaissance of the Leo d'Or Claims; Report on first visit by John Devlin.	4
Geological Reconnaissance Report Report on second visit by Ande Rychter.	6
Map of second traverse by Ande Rychter	9
Statement of Qualifications	10
Itemized Statement of Costs	11

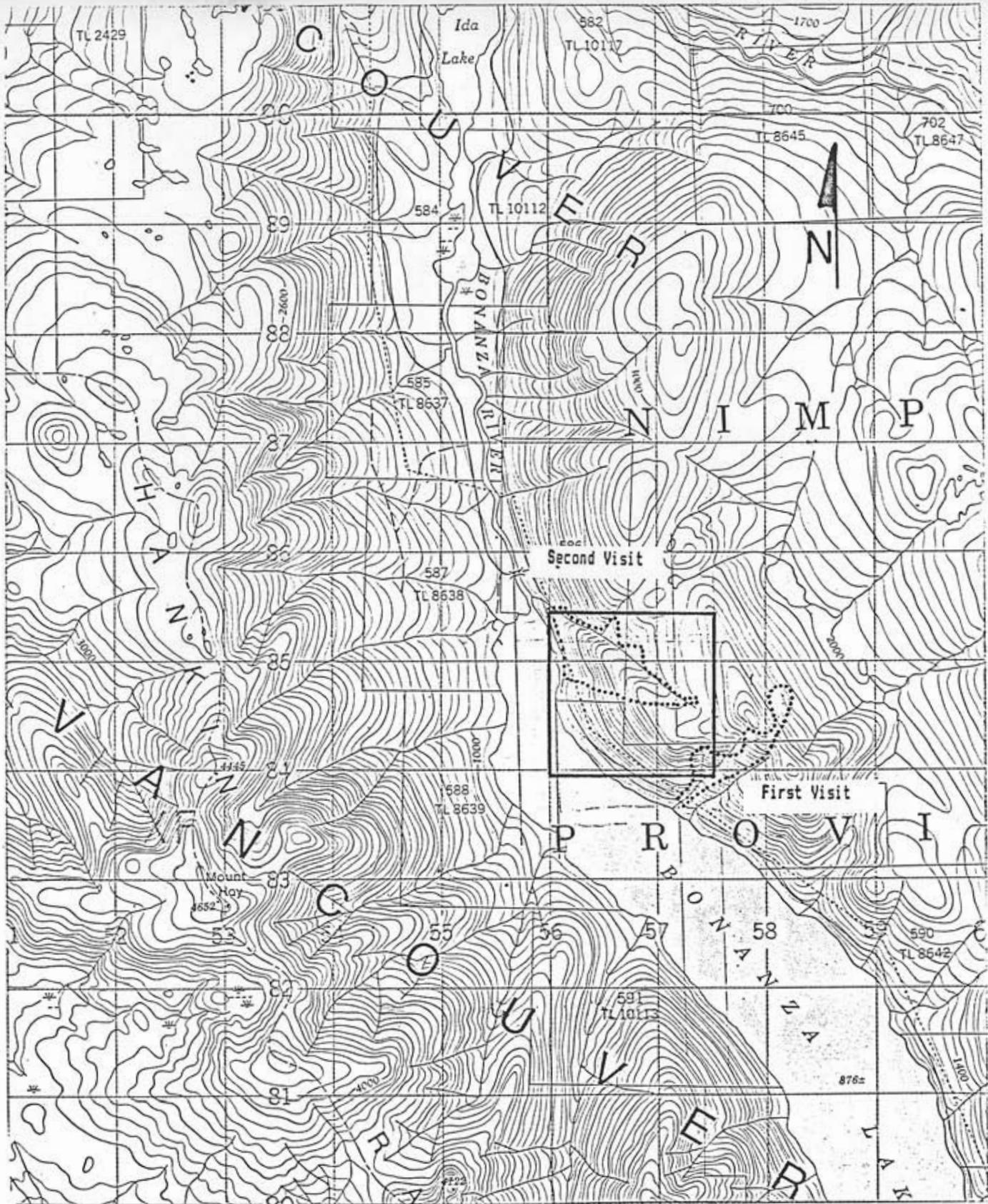
## INTRODUCTION

The Leo d'Or claim was staked over a marble deposit in the northern portion of Vancouver Island. The deposit is located on the north eastern shore of Bonanza Lake and is accessible directly by road 37km south of Port McNeil via Kokish.

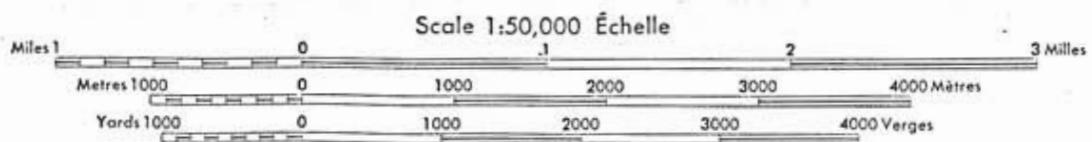
Marble deposits in the area were first staked as the Persian Cat 1 and Persian Cat 11 following their discovery by M.S. Madari in June of 1981. The marble unit has been geologically mapped as crystalline limestone, but as of this staking, the potential of an economic deposit of marble was unreckognized. The Leo d'Or claims were located 2km south of the Persian Cat claims in June of 1985.

The legal corner post is located about 50m up-slope from the lake on the east sholder of the road. This road heads almost due south along the claim boundary 500m before cutting diagonally across the south-western portion of the claim block, following the lake shore. From the road, the hill rises quite steeply to the north-east, leveling off at between 2500 and 3000 ft. The lower portions of the slope have been logged and burned in the past. There is good exposure, approaching 80%, of outcrop on the property in this region. Those regions lying farther up the slope are heavily treed and all outcrops are covered by moss.

The marble from this site seems to be of good to high quality upon initial investigations by Mr. Madari. Cut sections reprissented as coming from the site have been shown with quite favourable reviews to several marble supply houses in the lower mainland. Of particular interest is the massive nature of the deposit. Typically, marble found in British Columbia tends to be extremely broken and fractured, being of use only in particulate form. The marble found on the Leo d'Or claims is very massive and could be cut into large blocks for use as decorative or building material. As of this time, the full economic potential of the property is unknown.



**Leo d'Or Claims  
Location Map, 92 L/7**



## INITIAL RECONNAISSANCE OF THE LEO D'OR CLAIMS

Havilah Gold Mines Ltd was approached by Mr. Madari, the owner of the Leo d'Or claims in April of 1987. After viewing cut samples from the property, it was decided to make a quick trip to the property to both verify the existence of the deposit and to acquire a feel for the land in terms of a future program of assessment. As per suggestions from Mr. Madari as to the possibility of road access to the top of the property, a four-wheel drive vehicle was rented. On April 23, Mr. Madari and myself travelled to Port McNeil, stopping at the mining recorder's offices in Nanaimo, B.C., for relevant documents.

Mr. Madari took me to the property on April 24. There was no road access to the upper reaches of the property. I made several investigations into the ground from the road level. The first confirmed that the marble was indeed as stated. The marble tends to be a light to darker grey in colour. Near the road, it was of finer grain size, trending to a coarser grain towards the eastern boundary of the claim. It was noted that a high percentage of the outcrop was very massive, showing little signs of faulting or fracturing. The marble seams to be quite weathered on surface. It is very difficult to obtain fresh samples due to the massive nature of the outcrop not presenting any breakable surfaces for a hammer. Those surfaces thus presented tend to be quite narrow, and are therefore weathered from both sides, thus preventing acquisition of any unweathered surfaces. Fresh samples of fractured rock were obtained from cuts along the road from the road construction. These gave good indication of colour and grain size but they tended to be quite fractured, most likely due to blasting.

A traverse across the south east corner of the property was made in order to test the possibility of alternate mineralization on the site. This traverse was initially thought to be wholly on the property, but later analysis of maps and airphotos not available at the time confirms that indeed this traverse only crossed the corner of the property. It has been found that the actual location of the legal corner post is not as plotted on the claim maps, but about 300m north of that location. My traverse took me up a draw and over the heights of land before descending back along a parallel draw. I encountered marble along the entire traverse. Several dykes were encountered in this marble. About half way up the slope a major dyke or sill of a felsic volcanic type rock with minor quartz phenocrysts was encountered striking  $300-120^{\circ}$  and dipping  $60^{\circ}$  to the south west. Above this unit was more marble of a much darker grey in colour and having a much larger grain size, in the order of 1 to 3 mm across. Across the top and down the slope to the east about 200m was more of

the same coarse grained dark grey crystalized limestone (marble). Apart from minor fracture filling pyrites identified in two small dykes in the south west of the claim, no mineralization was encountered. No samples have been submitted for assay.

Another reconnaissance of the property has since taken place in the company of Mr. Ande Rychter, a consultant under contract to Havilah Gold. His report on this second visit follows.

John Devlin  
June 5, 1987



GEOLOGICAL RECONNAISSANCE  
REPORT

Leo d'Or prospect, Bonanza Lake,  
Vancouver Island

May 28, 1987

NIS Map 92 L/7 "Nimpkish"

for

Havilah Gold Mines Ltd.

by

Ande Rychter

## GEOLOGICAL RECONNAISSANCE

Leo d'Or prospect, Bonanza Lake,  
Vancouver Island

A geological reconnaissance was conducted on the Leo d'Or property located at the northern end of Bonanza Lake, Vancouver Island. The main part of the traverse followed a broad gully which runs from the tip of the lake diagonally across the valley slopes [please refer to the enclosed maps].

The following observations were made during the reconnaissance:

1) From the road to the elevation of approximately 700m, the area is underlain by a massive, coarse to medium grained marble. Within the area under investigation, the colour of the rock ranges between very light grey and dark grey. However, at any given location the texture and colour appear to be uniform.

2) Surface weathering is extensive. Upon impact, altered rock desintegrates releasing a sugary-textured debris composed of individual carbonate crystals.

3) In places, the marble is dissected by volcanic dikes which vary in thickness from approximately 1 foot to approximately 6 feet.

4) Stream deposits between locations 5 and 8 consist of granitic, volcanic and marble boulders. The marble boulders show surface dissolution and no weathering. Unaltered samples were obtained from this source.

5) The contact between marble and igneous intrusives is encountered at 670m of elevation at location 9. This agrees with the location of the contact on map 1029A "Nimpkish". The intrusive rock is classified as granodiorite, with finer grained xenolithic inclusions, apparently of the same composition.

### General notes:

Traverse date: May 28, 1987

Location: North end of Bonanza Lake, Vancouver Island.

Topographic map: NTS 92 L/7 "Nimpkish"

Geologic map: 1029A "Nimpkish"

Aerial photographs: BC 78080 No.14

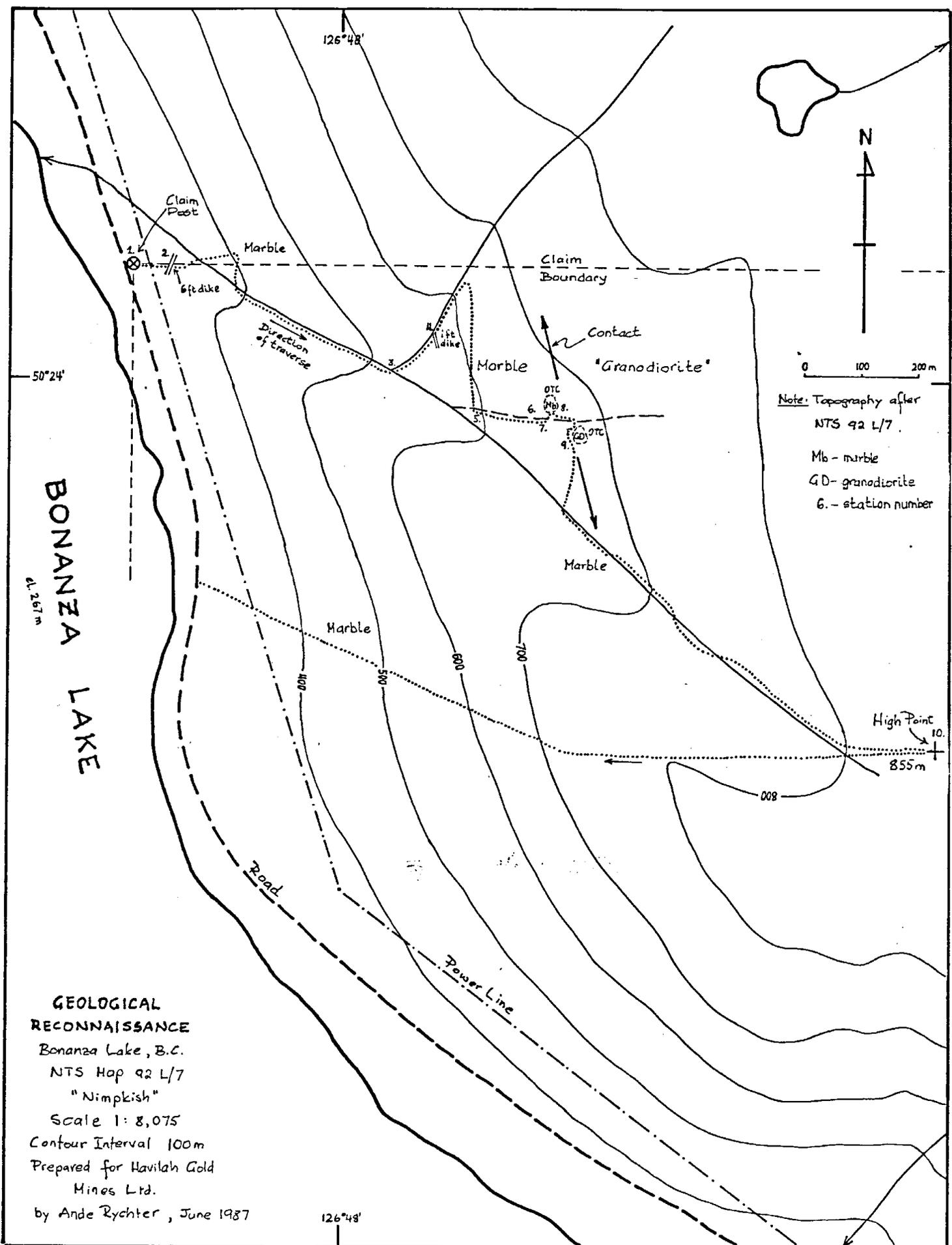
Elevations: Thommen 5000 Altimeter.

Personnel: J.Devlin, A.Rychter

Samples at stations 4, 6, 8, 9.



Ande Rychter,  
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Vancouver, BC V6H 3Y9



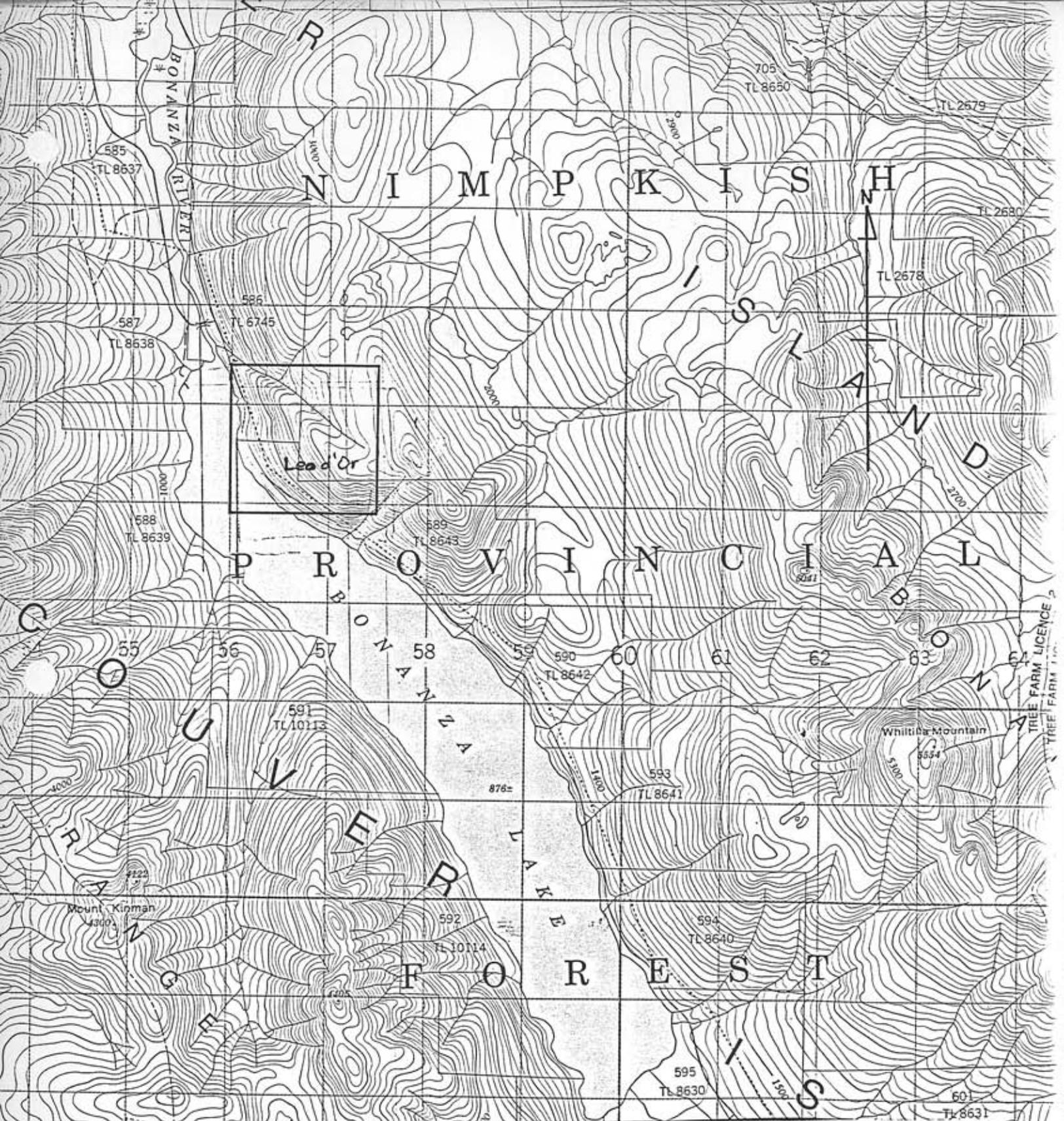
Note: Topography after  
NTS 92 L/7.

Mb - marble  
GD - granodiorite  
6. - station number

BONANZA LAKE  
41.267m

**GEOLOGICAL RECONNAISSANCE**  
Bonanza Lake, B.C.  
NTS Map 92 L/7  
"Nimkish"  
Scale 1: 8,075  
Contour Interval 100m  
Prepared for Havilah Gold  
Mines Ltd.  
by Ande Rychter, June 1987

126°48'

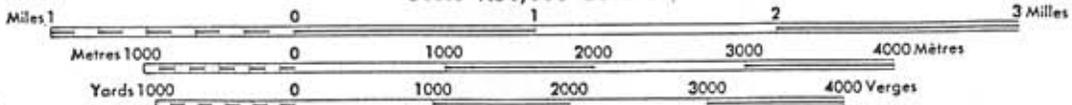


# NIMPKISH

NTS 92 L/7

RUPERT LAND DISTRICT  
BRITISH COLUMBIA

Scale 1:50,000 Échelle



TREE FARM LICENCE 2  
TREE FARM 100

STATEMENT OF QUALIFICATIONS

I, ANDE RYCHTER, hereby certify that:

1. I am a geological consultant specializing in geophysics and geology. I either performed or participated in the work involved in this project.
2. I obtained a Bachelors degree in Geological Engineering in 1982 from The University of British Columbia in Vancouver.
3. For two and a half years, I worked as a geophysicist with Digicon Geophysical Corporation in Houston, Texas. For one-half year I worked as a senior geophysicist in the research department of the same Company.
4. I am a member of The Society of Exploration Geophysicists.



Ande Rychter

Vancouver, B.C.  
June 5, 1987

ITEMIZED STATEMENT OF COSTS

First Visit:

1 Technician: 2 days @ \$150/day:	\$300.00
Vehicle rental and gas:	\$293.42
Hotel; food and lodging:	\$146.93
Ferry travel, Vancouver to Nanaimo:	\$50.00
	-----
Total:	\$790.35

Second Visit

1 Engineer, Mr. A. Rychter, 2 days @ \$250/day:	\$500.00
1 Technician; 2 days @ \$150/day:	\$300.00
Vehicle rental and gas:	\$166.05
Hotel; food and lodging:	\$146.00
Ferry travel, Vancouver to Nanaimo:	\$50.00
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Total:	\$1,162.05

Total Expenditures, both visits:	\$1,952.40
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