

86-313-14937

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REPORT
ON
ASSESSMENT WORK (GEOLOGICAL)
ON THE
LEO D'OR PROPERTY (9 UNITS)
NIMPKISH
NANAIMO MINING DIVISION
BRITISH COLUMBIA

LATITUDE 50° ^{23.7'} ~~24°~~

LONGITUDE 126° 47.9'

NTS 92 L/7W

FILMED

FOR

Owner / Operator: MR. M.S. MADARI

VANCOUVER , B.C.

STEVENSON AND ASSOCIATES

VANCOUVER , B.C.

GEOLOGICAL BRANCH

B.D. GAME B.Sc. **ASSESSMENT REPORT** PROJECT GEOLOGIST

14,937

JUNE 1st, 1986

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SUMMARY AND RECOMMENDATIONS

The Leo D'or property, located approximately 20km south, south-east of Beaver Cove B.C., is centered within a conformable series of interbedded volcanic and sedimentary rocks, and bodies of plutonic rock of acidic to intermediate composition. The region has attracted attention in the past as a site of small-scale, high-grade gold deposits.

The Leo D'or property displays a variety of volcanic and sedimentary rocks, collectively known as the Vancouver group. This group of rocks has been divided into three conformable units: the Karmutsen group, the Quatsino formation, and the Bonanza group. As well, the property contains plutonic rocks of the Island Intrusives. However, the rock which dominates the property is marble of the Quatsino formation.

Geologically, it is possible that gold mineralization could occur along metasomatic contacts on the property. Assay results from rock chip samples should prove helpful in determining if gold does indeed occur along these contacts.

Given the relatively limited nature of this program, further work is recommended in order to sufficiently evaluate the potential for gold mineralization. The next phase of exploration should include:

1. A comprehensive grid be established on the property, with east-west baseline, and north-south tie lines.
2. Geochemical soil sampling over the new grid
3. A VLF electromagnetic survey over the new grid
4. Comprehensive geological mapping and prospecting be carried out over the grid.



LEO D'OR
PROPERTY

LEO D'OR PROPERTY (9Unt)

LOCATION MAP

1.0 INTRODUCTION

1.1 General Statement

The Nimpkish - Zeballos area has attracted the attention of prospectors since the early 1900's, in search of small, but very high-grade gold deposits.

MR. M.S. Madari prospected the Leo D'or property in order to evaluate the potential of the massive marble outcrop on the property, and to investigate the possibilities of high-grade gold deposits along metasomatic contacts.

During a short period in May of this year, a reconnaissance geological mapping program, and prospecting was undertaken. The object of this program was to determine possible high-grade gold deposits associated with metasomatic contacts.

1.2 Location and Access

The Leo D'or property, consisting of nine mineral claims in the Nanaimo Mining Division, is located about 20km south, south-east of Beaver Cove, B.C. (Fig. 2). The claims are on map NTS 92 L/7 near latitude 50° 24'N and longitude 126° 47', above the east edge of Bonanza Lake, at an elevation of 1000 to 3000 feet.

The property is accessible from a well-graded Crown Forest gravel road which roughly parallels the western edge of the claim block.

1.3 Topography and Climate

The terrain generally consists of steep slopes commonly dissected by deeply cut gullies and valleys. Numerous massive outcrops of marble dominate the southern and central portion of the property.

The northern part of Vancouver Island has a mild, wet climate, and as a result, the region is very heavily vegetated. However, the south-western part of the Leo D'or property is generally clearer due to relatively recent logging. Water supply is plentiful as Bonanza Lake runs along the western margin of the property.

1.4 Land Status

The Leo D'or property consists of the 9 unit Leo D'or claim which was staked in June of 1986 and recorded on June 10th, 1986.

<u>Name</u>	<u>Record #</u>	<u>Units</u>	<u>Expiry</u>
Leo D'or	2202	9	June 10, 1986

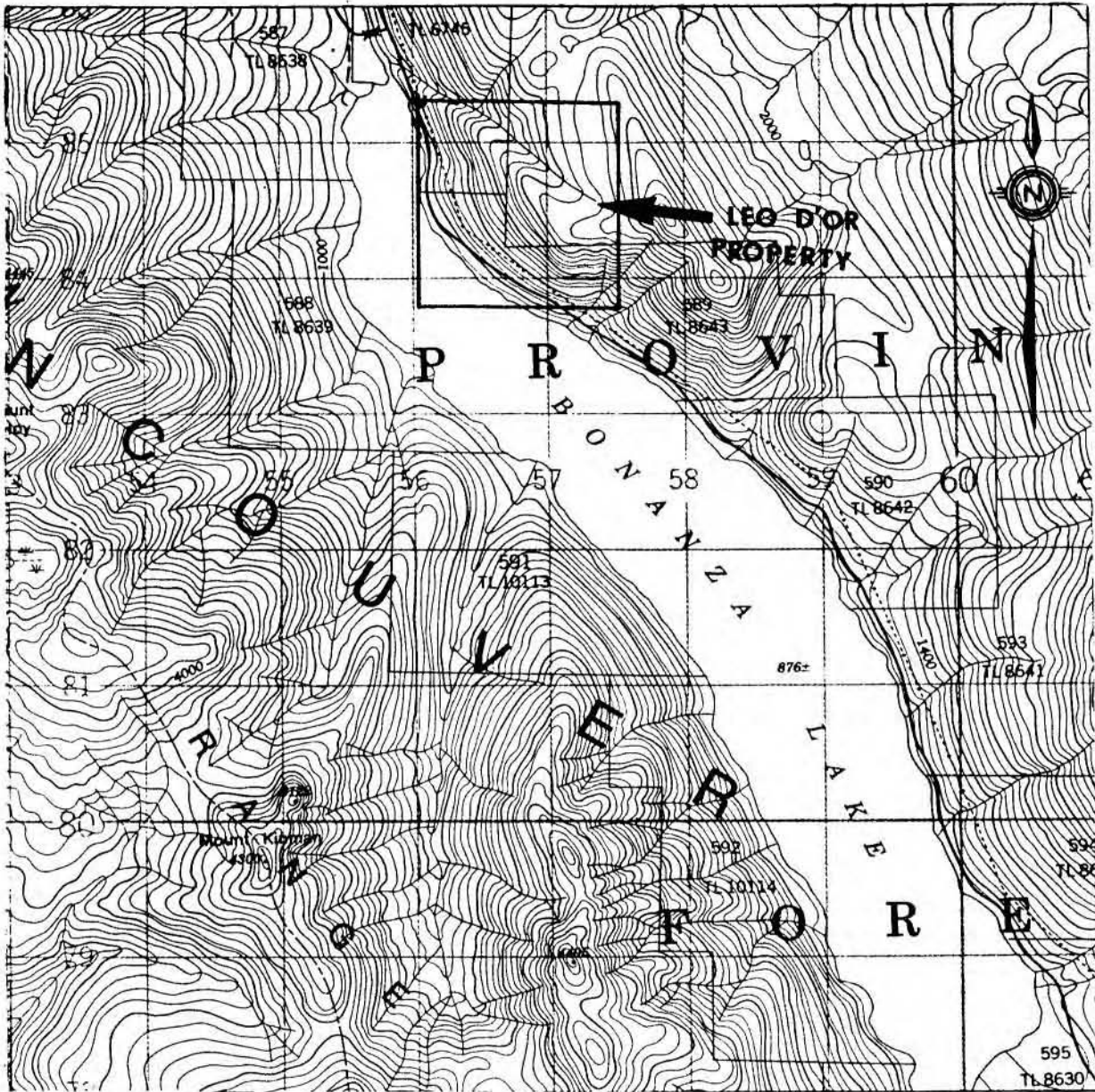
The writer cannot attest to the legal status of the claims.

1.5 History

The mineral deposits of the Nimpkish-Zeballos area first attracted the attention of prospectors at the turn of the century. At this time however, prospectors were mainly interested in the magnetite deposits of the area. With the discovery of the first gold vein in the area in 1924, the emphasis shifted to exploration for small high-grade gold veins.

The discovery of spectacular copper mineralization in 1928, in the Nimpkish area, resulted in a further flurry of activity. Sporadic exploration activity in the region has continued, with the recent opening of the New Privateer Mine in the Zaballos area causing renewed interest in the search for high-grade gold deposits.

The limited exploration in May of this year was undertaken to determine the potential of small, high-grade gold deposits associated with metasomatic contacts.



Scale 1:50,000 Échelle



PROPERTY LOCATION

LOCATION MAP

B.D.

June 2, 86

2.

2.0 Geological Setting

2.1 Regional Geology

The geology of the Nimpkish-Zeballos area can be divided into two primary groups (Fig. 3) a massive, and bodies of plutonic rock of acidic to intermediate composition, which form part of the coastal intrusions. The plutonic rocks intrude the interbedded volcanic and sedimentary rocks which are collectively called the Vancouver group.

The Vancouver group has been divided into three conformable units. These are from oldest to youngest: Karmutsen group, the Quatsino formation, and the Bonanza group.

The rocks in the Vancouver group are Triassic in age, and the Coast Intrusions are believed to have formed in late Jurassic or early cretaceous time.

2.2 Local Geology

The Leo D'or property displays a variety of volcanic, sedimentary and plutonic rocks. However, the rock which dominates the map area is marble of the Quatsino formation. (Fig. 4)

2.2.1 Lithology

The rocks of the Vancouver group have been divided into three conformable units. Lithologically, these units can be described as follows:

(uTK) The Karmutsen group, consists of a thick series of medium to basic, highly amygdaloidal volcanic flows, with very little sedimentary material.

(uTQ) The Quatsino limestone formation lies conformably above the Karmutsen group. This formation consists of a relatively thin band of white to light blue crystalline limestone.

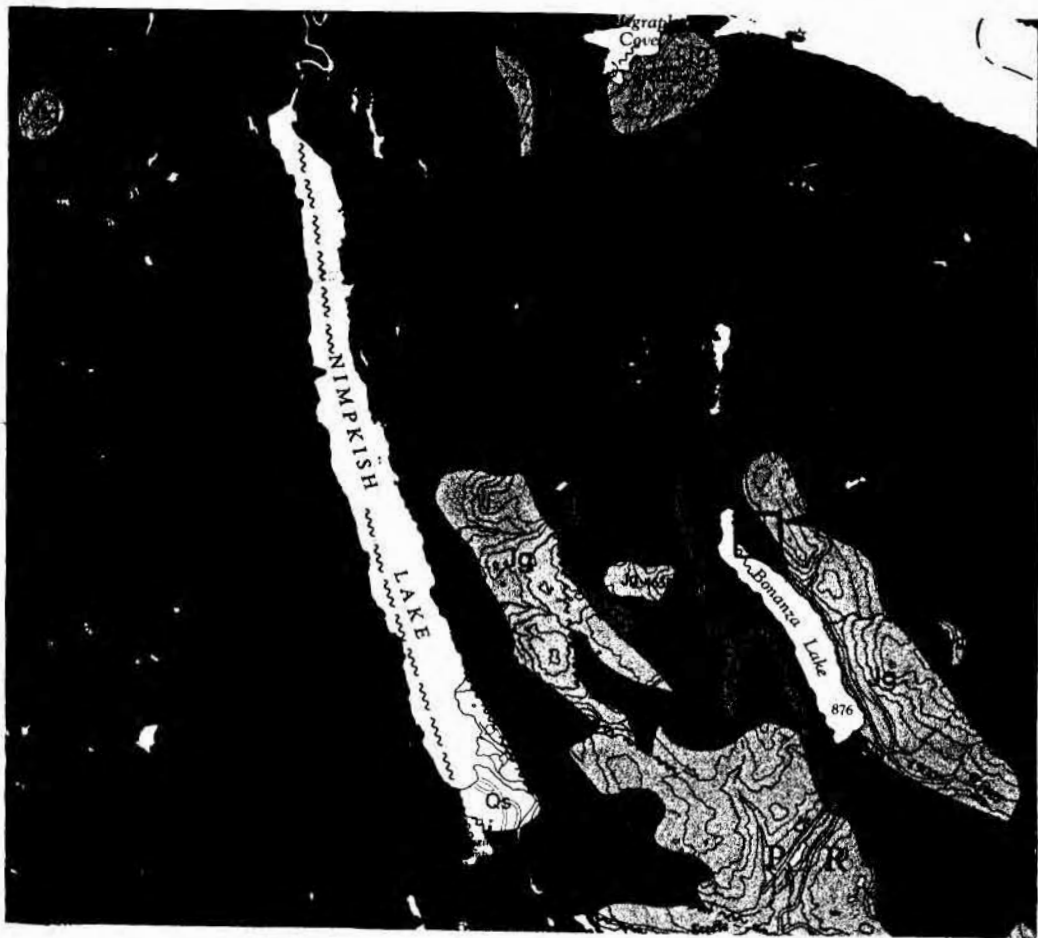
(iJBV) The Bonanza group lies conformably above the Quatsino limestone. This formation consists of a mixture of tuffs, breccias, agglomerates, lavas of intermediate composition, and sedimentary rocks. The sedimentary rocks include dark blue-grey, impure limestone, argillites, quartzite and tuff.

Lithologically, the plutonic rocks can be described as follows:

(Jg) The Island Intrusions, which generally intrude rocks of the Vancouver group, consists of quartz diorite, granodiorite, quartz monzonite and quartz feldspar porphyry.

2.2.2 Mineralization

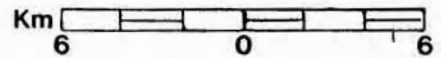
Some limited prospecting, concentrating on the northern section of the claim block, uncovered sulphide mineralization (pyrite) within the felsic to intermediate volcanic unit (Karmutsen formation). Three rock chip samples were taken at various outcrops, (Fig. 4) and will be assayed in order to determine if any significant gold values are present.



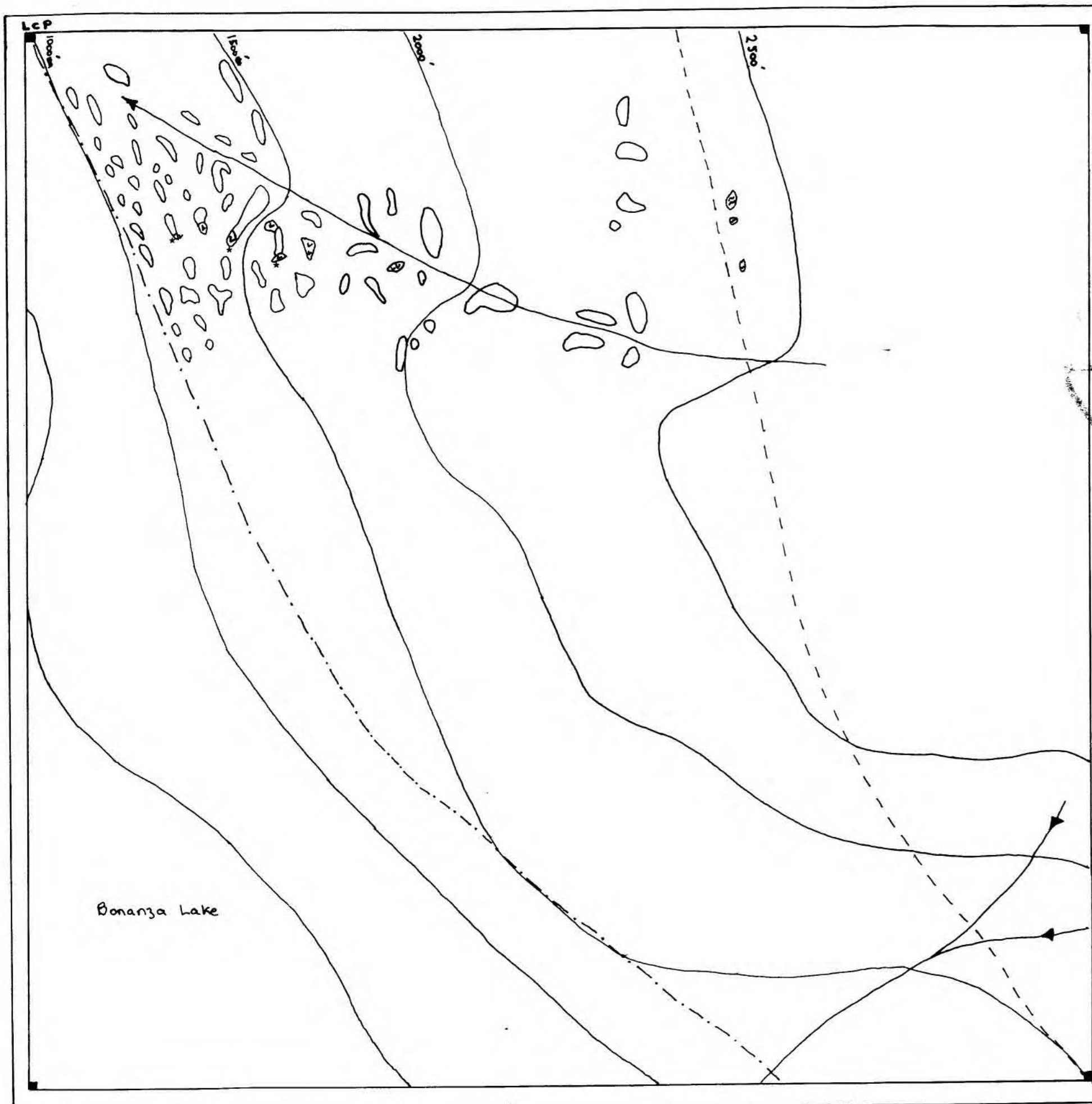
LEGEND

- Jg Island Intrusions: qtz. diorite, granodiorite, qtz. monzonite, qtz. feld. porphyry.
- iJBV Andesitic to rhyodacitic lava, tuff, breccia.
- uTPB Parson Bay Fm.: calc. siltstone, shale, lst., grywke, cgl., breccia.
- uTQ Quatsino Fm.: limestone.
- uTK Karmutsen Fm: basaltic lava, pillow lava, breccia, tuff, greenstone, minor lst.
- ~~~~~ Fault, linament.










Scale: 1:250,000



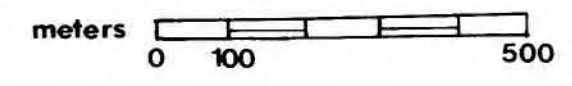
Regional Geology	
GEOLOGY	
	3
B. GAME	June 1, 1986



LEGEND

-  Quatsino Fm: crystallized lst. "marble"
-  Karmutsen Fm: intermediate volcanic
-  Island Intrusives: granodiorite
-  Approximate contour (ft): GSC map overlay
-  Watershed
-  Outcrop
-  Road
-  Rock chip sample
-  Corner Post

Scale 1:6000



GEOLOGY

LEO D'OR PROP.		NIMPKISH	
B. GAME		JUNE/86	

3.0 References

Hoadley, J.W. Geology and Mineral Deposits of the Zeballos - Nimpkish Area, Vancouver Island, British Columbia, G.S.C. Memoir 272, 1953.

Roddick, J.A. Geology of northeast Alert Bay map area, British Columbia; O.F. 722, G.S.C. 1980.

4.0 Certification

I Brian D. Game, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

- (1) I am a geologist residing at 206-8636 Laurel St., Vancouver, B.C., and with an office at 1410-650 West Georgia St. Vancouver, B.C.
- (2) I am a graduate of the University of British Columbia with a bachelor of Science in geological sciences (1985).
- (3) I have practised mining exploration for three seasons, most of which were based in the Province of British Columbia.
- (4) I have no interest, direct or indirect, in the Leo D'or property.
- (5) This report is based on a examination of the Leo D'or property, together with a review of pertinent data.

Respectfully submitted,



Brian D. Game B.Sc.

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Costs:

2 Days field work

2 Men @ \$300.00/day	\$600.00
Vehicle @ \$60.00/day	\$120.00
Accomadation	\$ 50.00
Food	\$100.00
Fuel	\$ 50.00
1 Day report preparation	\$150.00
TOTAL	<u>\$1,070.00</u>

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I, J. Paul Stevenson state that:

- (1) All geology work was done under my direct supervision.
- (2) I have been a prospector for twenty years, the last ten years in senior exploration management.
- (3) I am a member in good standing in the Canadian Institute of MINING and Metallurgy.



J. P. Stevenson