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PROSPECTUS

THE DATE OF THIS PROSPECTUS IS THE 18th DAY OF APRIL, A.D. 1973.

NEW ISSUE

DOOBAH MINING LTD.

(N.P.L.)

*Incorporated under the laws of the Province of British Columbia***PLAN OF DISTRIBUTION:**

Doobah Mining Ltd. (N.P.L.) referred to as "the Company" offers two hundred and fifty thousand (250,000) of its common shares with a nominal or par value of One Dollar (\$1.00) at Thirty-five (35¢) cents per share.

Shares of this issue may be sold by trading directors of the Company pursuant to the provisions of Section 7 (2) of the Securities Act, and registered securities salesmen, on a best efforts basis, who will receive commissions as set forth below. No commissions will be payable with respect to shares sold by trading directors of the Company. Shares of this issue may also be offered, on a best efforts basis, by Brokers and Broker-Dealers registered to trade in securities in the Province of British Columbia.

DISTRIBUTION SPREAD:

Shares Offered	Price to Public	Commission	Proceeds To Company
250,000	Per unit - 35¢ Total \$87,500.00	8¾¢ \$21,875.00	26¼¢ \$65,625.00

THERE IS NO EXISTING MARKET FOR THE SECURITIES OF THE COMPANY.

A PURCHASE OF THE SHARES OFFERED BY THIS PROSPECTUS MUST BE CONSIDERED A SPECULATION AS ALL OF THE PROPERTIES IN WHICH THE COMPANY HAS AN INTEREST ARE IN THE EXPLORATION AND DEVELOPMENT STAGE ONLY. THE COMPANY'S PROPERTIES ARE ALL WITHOUT A KNOWN BODY OF COMMERCIAL ORE.

NO SURVEY OF ANY PROPERTY OF THE COMPANY HAS BEEN MADE AND THEREFORE IN ACCORDANCE WITH THE MINING LAWS OF THE APPROPRIATE JURISDICTION IN WHICH THE PROPERTY IS SITUATE, THE EXISTENCE OF AND THE AREAS OF SUCH PROPERTY COULD BE IN DOUBT.

THIS PROSPECTUS IS NOT, AND UNDER NO CIRCUMSTANCES IS TO BE CONSTRUED AS A PUBLIC OFFERING OF SHARES FOR SALE IN THE UNITED STATES OF AMERICA OR IN ANY OF THE TERRITORIES OR POSSESSIONS THEREOF.

NO SECURITIES COMMISSION OR OTHER SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERIT OF THE SECURITIES OFFERED HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

NO PERSON IS AUTHORIZED BY THE COMPANY TO GIVE ANY INFORMATION OR TO MAKE ANY REPRESENTATIONS OTHER THAN THOSE CONTAINED IN THIS PROSPECTUS IN CONNECTION WITH THE ISSUE AND SALE OF THE SECURITIES OFFERED BY THE COMPANY.

THE NUMBER OF SHARES ISSUED TO THE COMPANY'S PROMOTERS, DIRECTORS, OFFICERS AND CONTROLLING PERSONS FOR CASH, PROPERTY AND SERVICES EQUALS 47.39 PERCENT OF THE SHARES THAT WILL BE OUTSTANDING UPON COMPLETION OF THIS OFFERING, WHEREAS 28.4 PERCENT OF THE SHARES OUTSTANDING UPON COMPLETION OF THIS OFFERING WILL HAVE BEEN ISSUED TO THE PUBLIC FOR CASH.

NET PROCEEDS TO THE COMPANY WILL ONLY BE REALIZED IF ALL THE SHARES ARE SOLD.

Head Office:
R.R. No. 1, Yates Road,
Post Office Box 2,
Kelowna, British Columbia.

Registered Office:
No. 2 - 315 Bernard Avenue,
Kelowna, British Columbia.

Registrar and Transfer Agent:
Montreal Trust Company,
262 Bernard Avenue,
Kelowna, British Columbia.

Auditor:
Ernest A. Campbell,
407 - 4058 Lakeshore Road,
Kelowna, British Columbia.

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COMPANY'S BUSINESS:

Doobah Mining Ltd. (N.P.L.) is a mining company with power to engage in searching for and developing mineral properties.

MINING PROPERTY:

The Company's properties consist of the following, all of which are subject to the provisions of the British Columbia Mineral Act, namely:

- (a) Twelve (12) located mineral claims registered in the name of the company located in the Victoria Mining Division of the Province of British Columbia, located at Doofah, Cheewat and Sprise Lakes South-East of Nitinat Lake on Vancouver Island in the Province of British Columbia, particulars of which are as follows:

CLAIM	RECORD NUMBERS	EXPIRY DATE
EBB 1-12 inclusive	17363-17374	April 10, 1973

(which claims are referred to as "the EBB claims").

The vendors of the EBB claims were Frank Edward Bowman of R.R. No. 1, Yates Road, Kelowna, British Columbia, Donald Eugene Charlton of 475 Milton Street, Nanaimo, British Columbia, and David Leslie Bowman of R.R. No. 1, Yates Road, Kelowna, British Columbia.

The consideration received for the transfer of the said EBB claims was the allotment from treasury of 250,000 shares to the said Frank Edward Bowman, the allotment from treasury of 250,000 shares to the said Donald Eugene Charlton, and allotment from the treasury of 250,000 shares to the said David Leslie Bowman (as set out in that certain Agreement dated the 28th day of September, 1972, and made between Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman as vendors and Doobah Mining Ltd. (N.P.L.) as purchaser). Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman are deemed to be the Promoters of the company.

Work has been filed at the Department of Mines and Petroleum Resources, pursuant to the provisions of the Mineral Act, with respect to the EBB claims and they are now in good standing until April 10, 1974.

- (b) Twenty-six (26) located mineral claims registered in the name of the Company located in the Victoria Mining Division of the Province of British Columbia, situated at Doobah, Cheewat and Sprise Lakes South-East of Nitinat Lake on Vancouver Island in the Province of British Columbia, particulars of which are as follows:

CLAIM	RECORD NUMBERS	EXPIRY DATE
TIDE No. 1-20 inclusive	17595-17614 inclusive	October 10, 1973
TIDE No. 24-29 inclusive	17615-17620 inclusive	October 10, 1973

(which claims are herein referred to as "the TIDE Claims").

The Vendors of the TIDE claims were Frank Edward Bowman, of R.R. No. 1, Yates Road, Kelowna, British Columbia; Donald Eugene Charlton of 475 Milton Street, Nanaimo, British Columbia, and David Leslie Bowman of R.R. No. 1, Yates Road, Kelowna, British Columbia.

The consideration received from the transfer of the said TIDE claims was one dollar (\$1.00) and other good and valuable consideration as set out in that certain agreement dated the 16th day of October, 1972, and made between the said Frank Edward Bowman, Donald Eugene Charlton, and David Leslie Bowman as Vendors and Doobah Mining Ltd. (N.P.L.) as Purchaser. Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman are deemed to be the Promoters of the Company.

The total cost to the Vendors of the aforesaid "EBB Claims" and "TIDE Claims" was Three Thousand Nine Hundred (\$3,900.00) Dollars.

- (c) Twelve (12) located mineral claims registered in the name of the Company located in the Victoria Mining Division of the Province of British Columbia situated at Doobah, Cheewat and Sprise Lakes South-East of Nitinat Lake on Vancouver Island in the Province of British Columbia particulars of which are as follows:

CLAIM	RECORD NUMBERS	EXPIRY DATE
IT 1-12 inclusive	17816-17827	January 15, 1974
IT 13-20 inclusive	17844-17851	January 31, 1974
IT 21-24 inclusive	17852-17855	February 8, 1974

(which claims are herein referred to as "the IT Claims").

The IT claims were staked and recorded in the name of the Company.

ACCESS:

All the claims of the company can most conveniently be reached by air but access may be gained over logging roads from Cowichan Lake and a short barge trip on Nitinat Lake.

The Northern claims cover a logged-off area where logging roads provide convenient access.

HISTORY:

As far as is known, no mining work of any consequence has been done previously on any of the claims.

RECENT EXPLORATION:

There has been no significant exploration with respect to any of the claims held by the company except for minor attempts to open up showings by blasting and trenching.

However, on the EBB claims outcroppings were examined and samples were taken on the October 3rd, 1972, by Mr. M. K. Lorimer, P.Eng., and the results of this work are reported in a report "Report on The EBB Group for Doobah Mining Ltd. (N.P.L.)" and dated October 12, 1972, hereunto annexed and forming a part of this prospectus.

There are no buildings on the property other than a camper that serves as living accommodations and an equipment shed which is used to store portable tools and equipment.

There has been no underground exploration and development on any of the Company's properties and there is no underground plant and equipment on any of the company's properties. Also, except as hereinbefore set forth, there has been no surface exploration or development and there is no surface plant and equipment on any of the Company's properties.

PROPOSED PROGRAM OF EXPLORATION OF THE COMPANY'S PROPERTIES:

(a) **EBB CLAIMS**

The following conclusions and recommendations have been made in the Engineering Report of Mr. M. K. Lorimer, P.Eng., hereto annexed and forming part of this prospectus.

It is recommended that a two-phased exploration program be carried out on the EBB group, the second phase to be entirely dependent on the results of the first.

Phase 1:

1. Set up a small camp or move onto the property.
2. Geologically map all outcrops to assist in interpretation of geophysical results.
3. Carry out an airborne magnetometer survey with flight lines one eighth of a mile apart and ground clearance of 300 feet for the purpose of locating contacts and other features of the underlying rocks.
4. Lay out a ground grid with lines 400 feet apart over areas considered of interest from the results of the aeromagnetic survey.
5. Conduct an induced polarization survey over the grid initially on the 400-foot lines and then on intermediate lines where warranted.

Phase 2:

1. Diamond drill any target areas located by the Phase 1 surveys. A fairly heavy drill will be required to penetrate the badly broken ground.

USE OF PROCEEDS:

The sum of \$65,625 to be derived from the sale of the shares under this Prospectus will be used to finance exploration programs on the Company's EBB claims as hereinafter set forth.

In his report to the Company dated October 12th, 1972, M. K. Lorimer, P.Eng., recommended the following exploration program:

Phase I:

1. Camp facilities	\$ 1,000.00
2. Geological Survey	\$ 1,000.00
3. Aeromagnetic Survey	\$ 5,000.00
4. Ground grid, assuming ¼ of the total area to be covered 8 miles @ \$300.00 mile	\$ 2,400.00
5. I. P. Survey: Mobilization and demobilization	\$1,000.00
8 miles at \$400.00 mile	\$3,200.00
6. Engineering and Supervision	\$ 1,500.00
7. Miscellaneous and contingencies at 10%	\$ 1,500.00
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Total Phase I	\$16,600.00

Phase II:

The cost of this phase cannot be estimated at present. Assuming a minimum of 2,000 feet of drilling at a cost of \$20.00 per foot including all costs, the minimum would be	\$40,000.00
	<hr/>
Total minimum cost for both phases	\$56,600.00
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The balance of the moneys in the Company's treasury upon completion of this offering which will total \$9,025.00 will be used as follows, namely:

1. To supplement the exploration program as set out above for Phase II.
2. Administrative, legal and audit expense.

In the event that all of the shares offered under this prospectus are not sold by the company and the Company receives less than the anticipated amount of \$65,625.00, priority will be given to the Aeromagnetic Survey, Ground Grid, I. P. Survey and Diamond Drilling. No part of the proceeds derived from this issue of shares, nor any funds already in the Company's treasury will be used to invest, underwrite or trade in securities other than those that qualify as investments in which trust funds may be invested under the laws of the jurisdictions in which the securities offered by this prospectus may be sold.

Should the company propose to use the said proceeds to invest, underwrite or trade in non-trustee type securities after the initial distribution of the securities offered by this prospectus, approval by the shareholders must first be obtained and disclosure made to the regulatory securities bodies having jurisdiction over the sale of the securities offered by this prospectus.

INCORPORATION:

The Company was incorporated on the 26th day of September, A.D. 1972, under the Companies Act of British Columbia, by Memorandum of Association. The Company converted from a private company to a public company on the 2nd day of April, A.D. 1973.

PRELIMINARY EXPENSES:

The Company incurred preliminary expenses totalling \$12,029.37 since its incorporation. \$6,126.02 of the said amount was expended on exploration work, while \$5,903.35 was expended to meet administrative and incorporation expenses.

SHARE AND LOAN CAPITAL STRUCTURE

Designation of Security	Amount Authorized	Amount outstanding as at January 13th, 1973 the date of the Balance Sheet attached hereto	Amount to be outstanding if all securities being offered are sold
Common	3,000,000	923,282	1,173,282

PRIOR SALES:

The following table relates to shares of the Company sold for cash since incorporation:

Number of Shares	Price	Cash Received	Commissions
2	\$1.00	\$ 2.00	Nil
138,680	\$.10	\$13,868.00	Nil

138,680 shares issued for cash, being all shares issued for cash, and 34,600 shares issued for services, have been pooled with The Montreal Trust Company, 262 Bernard Avenue, Kelowna, British Columbia, until at least thirty (30) days from the date of completion of this primary distribution of the shares offered under this Prospectus, and subject to the consent of the Superintendent of Brokers for the Province of British Columbia.

In addition to the shares issued for cash, the Company has issued 750,000 shares in consideration for property interest obtained by the company, since its incorporation (see heading "Escrowed Shares").

The Company has issued 34,600 shares at a deemed value of 10¢ per share in consideration for services rendered to the Company since its incorporation.

All shares issued for cash and services rendered have been pooled and will not be released until thirty (30) days from the date of completion of primary distribution.

ESCROWED SHARES:

As of the 2nd day of March, 1973, 750,000 shares are held in Escrow by The Montreal Trust Company, subject to the direction or determination of the British Columbia Securities Commission. The escrow restrictions provide that the shares may not be traded in, dealt with in any manner whatsoever, or released nor may the Company, its transfer agent or escrow holder make any transfer or record any trading of the shares without the consent of the commission.

In the event the Company loses or abandons or fails to obtain title to all or part of the property or assets for which its allotted all or part of the escrow shares, the Company will declare any such event to the Commission by way of directors' resolution and the holders of such shares, the trustee thereof, and the company have agreed that such number of paid shares, as the commission determines, shall have become subject to cancellation, shall be surrendered to the Company by way of gift for cancellation. The complete text of the escrow agreement is available for inspection at the Company's registered office and at the office of The Montreal Trust Company, 262 Bernard Avenue, Kelowna, British Columbia.

NUMBER OF SHARES IN ESCROW

Designation of Class	Number of Shares in Escrow as at January 31, 1973	Percentage of Class
Common shares	750,000	81.0

Escrow Shareholders

Frank Edward Bowman R.R. No. 1, Yates Road, Post Office Box 2, Kelowna, B.C.	250,000 shares
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Donald Eugene Charlton
475 Milton Street,
Nanaimo, B.C.

250,000 shares

David Leslie Bowman
R.R. No. 1, Yates Road,
Post Office Box 2,
Kelowna, B.C.

250,000 shares

PRINCIPAL HOLDERS OF SECURITIES:

The following table sets forth particulars of all persons or companies who own of record or are known by the company to own beneficially, directly or indirectly, more than ten percent (10%) of the issued common shares of the company:

Name and Address	Designation of Shares	Type of Ownership	Number of Shares owned as at January 31, 1973	Percentage of Class	
Frank Edward Bowman R.R. No. 1, Yates Road, Post Office Box 2, Kelowna, B.C.	Common	Direct of Record and Beneficial	273,381	29.6	23,381
Donald Eugene Charlton 475 Milton Street, Nanaimo, B.C.	Common	Direct of Record and Beneficial	270,050	29.2	20,050
David Leslie Bowman R.R. No. 1, Yates Road, Post Office Box 2, Kelowna, B.C.	Common	Direct of Record and Beneficial	269,451	29.1	19,451 62,882

The following table sets forth particulars with respect to the percentage of the shares of the company beneficially owned, directly or indirectly by all Directors and Senior Officers of the company as a group:

Designation of Class	Number of Shares Beneficially owned as at January 31, 1973	Percentage of Class
Common shares	818,882	88.6%

62882
7)

DIRECTORS AND OFFICERS:

Name and Address	Office Held	Principle Occupations During Preceding Five (5) Years
Frank Edward Bowman R.R. No. 1, Yates Road, Post Office Box 2, Kelowna, B.C.	President and Director	1968-1969 painting contractor operating under the firm style and name "Crestline Painting" in Kelowna, B.C. 1969-1971 Business Representative to Local Union 1896 in Kelowna, B.C. 1971 to present employed as a Pest Control Officer with the British Columbia Department of Agriculture.
David Leslie Bowman R.R. No. 1, Yates Road, Post Office Box 2, Kelowna, B.C.	Secretary and Director	1958-1971 painting and general contractor at Nanaimo, B.C. 1971 to present painting and general contractor at Kelowna, B.C.
Paul David Lingstrom 1130 Nelson Street, Nanaimo, B.C.	Director	1947-1972 commercial self-employed fisherman. 1972 to present owner and operator of the Newcastle Hotel, Nanaimo, British Columbia.

Donald Eugene Charlton Vice-President
475 Milton Street,
Nanaimo, B.C.

1966-1971 painting contractor operating under the firm
style and name of "Valley Decorators", Penticton, B.C.
1971-1972 employed as a painter for Cardinal Painting,
London, Ontario.
1972 to present self-employed painter, Nanaimo, B.C.

REMUNERATION:

No remuneration has been paid to any of the Company's officers or Directors as such since its incorporation and as of the date of this prospectus no provisions by way of Memorandum or Agreement or by resolution of the Board of Directors of the Company, for remuneration of officers or directors has been made.

During the period from the date of incorporation to January 31, 1973 remuneration in the sum of \$2,920.00 has been paid to Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman as wages for work actually performed on the property.

Although there has been no provision for remuneration of the directors and officers of the company in their capacity as such, the company will continue to pay wages to Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman for work actually performed on the company's properties.

PROMOTERS:

The promoters of the company may be considered to be Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman.

In consideration for the transfer of the EBB mineral claims, Frank Edward Bowman, as vendor, received 250,000 shares of the company, Donald Eugene Charlton, as vendor, received 250,000 shares of the company, and David Leslie Bowman, as vendor, received 250,000 shares of the company.

In consideration for the transfer of the TIDE mineral claims, Frank Edward Bowman, Donald Eugene Charlton and David Leslie Bowman as vendors, received One (\$1000) Dollar and other good and valuable consideration from the company.

Handwritten calculations:
22,000.00
49,500.00
71,500.00

MATERIAL CONTRACTS:

There are no other material contracts apart from those disclosed under the heading of "Property".

STATUTORY RIGHTS OF WITHDRAWAL AND RESCISSION:

Sections 61 and 62 of the Securities Act, 1967 (British Columbia) provides in effect, that where a security is offered to the public in the course of primary distribution

(a) a purchaser has a right to rescind a contract for the purchase of a security while still the owner thereof, if a copy of the last Prospectus together with financial statements and reports and summaries of reports relating to the securities as filed with the British Columbia Securities Commission was not delivered to him or his agent prior to the delivery of either of them of the written confirmation of the sale of the securities. Written notice of intention to commence an action for rescission must be served on the person who contracted to sell within sixty (60) days of the date of delivery of the written confirmation but no action shall be commenced after the expiration of Three (3) Months from the date of service of such notice.

a purchaser has the right to rescind a contract for the purchase of such security while still the owner thereof, if the Prospectus or any amended Prospectus offering such security contains an untrue statement of a material fact or omits to state a material fact necessary in order to make any statement therein not misleading in the light of the circumstances in which it was made, but no action to enforce this right can be commenced by a purchaser after expiration of Ninety (90) days from the later of the date of such Prospectus or amended Prospectus is received or is deemed to be received by him or his agent.

Reference is made to the said Act for the complete text of the provisions under which the foregoing rights are conferred.

Handwritten calculations:
11,508.40
28,603,480.00

Handwritten calculations:
62,882
37,441.0
25,441.0
27,900.0
27,900.0

CERTIFICATES:

Directors

The foregoing constitutes full, true and plain disclosure of all material facts relating to the Securities offered by this Prospectus as required by Part VII of the Securities Act, 1967, and regulations thereunder.

“FRANK E. BOWMAN”

Frank Edward Bowman
President and Director

“PAUL DAVID LINGSTROM”

Paul David Lingstrom
Director

“D. L. BOWMAN”

David Leslie Bowman
Secretary and Director

DATED this 18th day of April, A.D. 1973.

Promoters

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by Part VII of the Securities Act, 1967, and regulations thereunder.

“FRANK E. BOWMAN”

Frank Edward Bowman
Promoter

“DONALD E. CHARLTON”

Donald Eugene Charlton
Promoter

“D. L. BOWMAN”

David Leslie Bowman
Promoter

DATED this 18th day of April, A.D. 1973.

AUDITOR'S REPORT

To the Shareholders of
Doobah Mining Ltd. (N.P.L.)

I have examined the Balance Sheet of Doobah Mining Ltd. (N.P.L.) as at January 31, 1973 and the statements of source and application of funds and deferred charges for the period then ended. My examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as I considered necessary in the circumstances.

In my opinion these financial statements present fairly the financial position of the company as at January 31, 1973 and the results of its operations and the source and application of its funds for the period then ended, in accordance with generally accepted accounting principles applied on a consistent basis.

"E. A. CAMPBELL",
Chartered Accountant.

February 17, 1973.

DOOBAH MINING LTD. (N.P.L.)

STATEMENT OF DEFERRED CHARGES

For the period from date of Incorporation
September 26, 1972 to January 31, 1973

EXPLORATION AND DEVELOPMENT EXPENDITURES

Camp expense	275.00
Drilling and supplies	1,275.31
Engineering services	530.06
Hauling and travel	295.65
Wages	3,750.00
	<u>6,126.02</u>

ADMINISTRATION EXPENDITURES

Accounting and audit	600.00
Bank charges	35.97
Legal	1,000.00
Licences and fees	479.00
Office supplies and expenses	75.25
Telephone	285.22
Travel and automobile	1,328.96
	<u>3,804.40</u>

DOOBAH MINING LTD. (N.P.L.)

STATEMENT OF SOURCE AND APPLICATION OF FUNDS

For the period from date of incorporation
to January 31, 1973

SOURCE OF FUNDS:

Proceeds from sale of shares 17,330.00

APPLICATION OF FUNDS:

Incorporation expense	2,098.95	
Administration	3,804.40	
Exploration	6,126.02	
	<u> </u>	12,029.37
		<u>5,300.63</u>

INCREASE IN WORKING CAPITAL

Represented by:

Current Assets	6,249.44	
Less Current Liabilities	948.81	
	<u> </u>	5,300.63

DOOBAH MINING LTD. (N.P.L.)

NOTES TO THE FINANCIAL STATEMENTS

As At January 31, 1973

1. **Mineral Claims**

All Mineral Claims owned by the Company were acquired for a consideration of 750,000 shares of the Company allotted at \$.10 per share.

2. **Values**

The values shown for Mineral Claims and deferred exploration, development and administrative expenses represent costs to date and the ascribed value of shares issued therefore, and are not intended to reflect present or future values.

3. **Directors Remuneration**

During the period from date of incorporation to January 31, 1973 remuneration to directors for work performed and charged to wages account amounted to \$2,920.00.

4. **Capital Stock**

Issued:

	Shares	Par Value	Discount	Net
For cash	173,282	173,282	155,952	17,330
For mineral claims	750,000	750,000	675,000	75,000
	<u>923,282</u>	<u>923,282</u>	<u>830,952</u>	<u>92,330</u>

October 12, 1972.

Doobah Mining Ltd. (N.P.L.),
1722 Bernard Avenue,
Kelowna, B.C.

Dear Sirs:

I, Malcolm Keith Lorimer, hereby give my consent to the use of my report on the Ebb Group, dated October 12, 1972, for the purpose of compiling a prospectus.

Yours truly,

L. J. MANNING & ASSOCIATES LTD.

"M. K. LORIMER"

M. K. Lorimer, P.Eng.

**This report on the Ebb Claims is based on a visit made on
3 October, 1972, and on a study of available maps of the area.**

SUMMARY:

The Ebb group consists of 12 recorded claims and 16 recently staked claims near Nitinat Lake on Vancouver Island.

The area is relatively flat but a heavy forest growth and logging debris make walking difficult.

The claims cover an area of heavy overburden. Outcrops indicate that the underlying rocks consist of volcanics and sediments with quartz diorite intrusives. Sulphides, consisting of pyrite, chalcopyrite and sphalerite occur in several fractured and oxidized areas of the volcanics. The heavy overburden obscures the frequency, extent and continuity of these metallic showings.

The geology is regarded as favourable for the occurrence of metallic deposits.

A phased programme of geological, aeromagnetic and induced polarization surveys is recommended followed, if warranted, by diamond drilling.

The estimated cost is \$16,600 for Phase I and a minimum of \$40,000 for diamond drilling in Phase II.

LOCATION:

The property is located at Doobah, Cheewat and Sprise Lakes near Nitinat Lake on the southwest coast of Vancouver Island. It is most conveniently reached by air but access may be gained over logging roads from Cowichan Lake and a short barge trip on Nitinat Lake. The northern claims cover a logged-off area where logging roads provide convenient local access.

The geographic location is N48°42', W124°45', the National Topographic System area is 92C10 and the Mining Division is Victoria. Elevations range from about 100 to 400 feet above seal level. Map 1.

TITLE:

The property consists of 12 claims staked and recorded in April, 1972, and 16 claims staked a few days before the examination and not recorded at that time.

The 12 recorded claims are all named Ebb without any numerical prefix or suffix. They can only be distinguished in the field by their tag numbers and on staking maps by their record numbers. The tag numbers are from 268535M to 268546M and the record numbers are from 17363 to 17374. The expiry date is 12 April, 1973, and the owner, according to records in the Vancouver Mining Recorder's office on 6 October, 1972, is F. Bowman. The newly staked claims are named Tide.

The claim posts indicate that the property has been staked in accordance with the provisions of the Mineral Act but the claims are approximately one half mile north of the described location.

TOPOGRAPHY:

The area is generally fairly flat with a maximum relief of about 300 feet but locally there are low cliffs and steep slopes. The chief impediments to travel are the heavy forest growth of hemlock, cedar and salal on the southern claims and the stumps and logging debris on the northern claims.

Three small lakes lie partly within the property boundaries. There are also several small streams.

Most of the area is covered with overburden. It appears to be shallow on the hillsides but it could be deep in the low-lying areas. Enough outcrops exist to give a general idea of the geology.

CLIMATE:

The climate is mild for most of the year but the precipitation is heavy, averaging about 100 inches per year. The snowfall is light and in some years is practically non-existent. Low clouds and fogs are common.

HISTORY:

As far as is known, no mining work of any consequence has been done on the property other than minor attempts to open up the various showings.

GEOLOGY:

There appears to be no detailed geological mapping of the region. The Geological Survey of Canada Map 932A, on a scale of 20 miles to the inch, shows the claims area to be underlain by sedimentary and volcanic rocks of the Leech River formation and the Malahat volcanics. Immediately to the north, and mapped with the contact close to the northern boundary of the property, is a body of acidic to intermediate intrusives.

Outcrops examined adjacent to showings of chalcopyrite proved to be mainly highly oxidized tuffs and basalts, frequently vesicular. Associated sediments are quartzites and limestone. The rocks are highly fractured in all directions.

The main showings are on a knoll north of the centre of Cheewat Lake and about 700 feet from the shore. They consist of three poorly exposed and highly oxidized occurrences of pyrite and chalcopyrite. One is located near the top of the knoll where the rock is a quartz diorite with lighter phases having the appearance of a granite. Sparse pyrite and chalcopyrite occur in fractures in these rocks.

Approximately 100 feet to the south and the same distance to the southeast are two other exposures. Here the rocks are volcanics and again they are fractured and oxidized. The sulphides are much more plentiful here than in the intrusives. They occur as blebs and fracture fillings. Epidote and malachite stains are prominent associates. Fault gouge carries specks of pyrite and chalcopyrite.

The Knoll gives the appearance of being a cupola of the intrusive which is well exposed to the northeast. The intense faulting and fracturing and the sulphide mineralization of the surrounding volcanics are undoubtedly the results of intrusive uplifting.

Several minor occurrences of chalcopyrite mineralization are located in volcanic rocks north and east of Spruce Lake.

SAMPLING:

Meaningful channel samples were difficult to obtain because of the random fracturing. The samples taken were of necessity cut partly along, and partly across, fracture planes.

Two samples were taken from the two exposures in the volcanics at the main showings. They were assayed for copper and zinc by General Testing Laboratories of Vancouver with the following results:

No.	Width (ft.)	Copper (%)	Zinc (%)
1	3	0.45	0.08
2	4	1.07	0.10

CONCLUSIONS:

The Ebb claims are located in an area of intrusive activity. Since copper and zinc are known to be present, the area is geologically favourable for the deposition of economic deposits.

Showings of copper minerals in several isolated areas indicate that the mineralization is widespread.

The metallic mineralization is probably associated with the intrusive and should be looked for near intrusive-volcanic contacts.

Because of the rough ground, overburden and heavy forest growth, preliminary exploration can best be carried out by geophysics. Geochemistry does not appear to be a useful technique particularly on the northern claims where the ground has been disturbed by logging.

The property appears to warrant a phased exploration programme.

RECOMMENDATIONS:

In accordance with the foregoing discussion and conclusions, it is recommended that a two-phased exploration programme be carried out on the Ebb group, the second phase to be entirely dependent on the results of the first.

Phase I:

1. Set up a small camp or move a camper onto the property.
2. Geologically map all outcrops to assist in interpretation of geophysical results.
3. Carry out an airborne magnetometer survey with flight lines one eighth of a mile apart and ground clearance of 300 feet, for the purpose of locating contacts and other features of the underlying rocks.
4. Lay out a ground grid with lines 400 feet apart over areas considered of interest from the results of the aeromagnetic survey.
5. Conduct an induced polarization survey over the grid, initially on the 400-foot lines and then on intermediate lines where warranted.

Phase II:

Diamond drill any target areas located by the Phase I surveys. A fairly heavy drill will be required to penetrate the badly broken ground.

COSTS:

The estimated costs are:

Phase I:

1. Camp facilities		\$ 1,000
2. Geologic survey		1,000
3. Aeromagnetic survey		5,000
4. Ground grid, assuming 1/4 of the total area to be covered 8 miles @ \$300/mile		2,400
5. I.P. survey: Mobilization and demobilization	\$ 1,000	
8 miles @ \$400/mile	3,200	
Total I.P. Survey		4,200
6. Engineering and supervision		1,500
7. Miscellaneous and contingencies @ 10%		1,500
	Total Phase I	\$16,600

Phase II:

The cost of this phase cannot be estimated at present. Assuming a minimum of 2,000 feet of drilling at a cost of \$20.00 per foot including all costs, the minimum would be

Total minimum cost for both phases

\$40,000

\$56,600

Yours truly,

L. J. MANNING & ASSOCIATES LTD.

"M. K. LORIMER"

"M. K. Lorimer, P.Eng.

CERTIFICATE OF QUALIFICATIONS

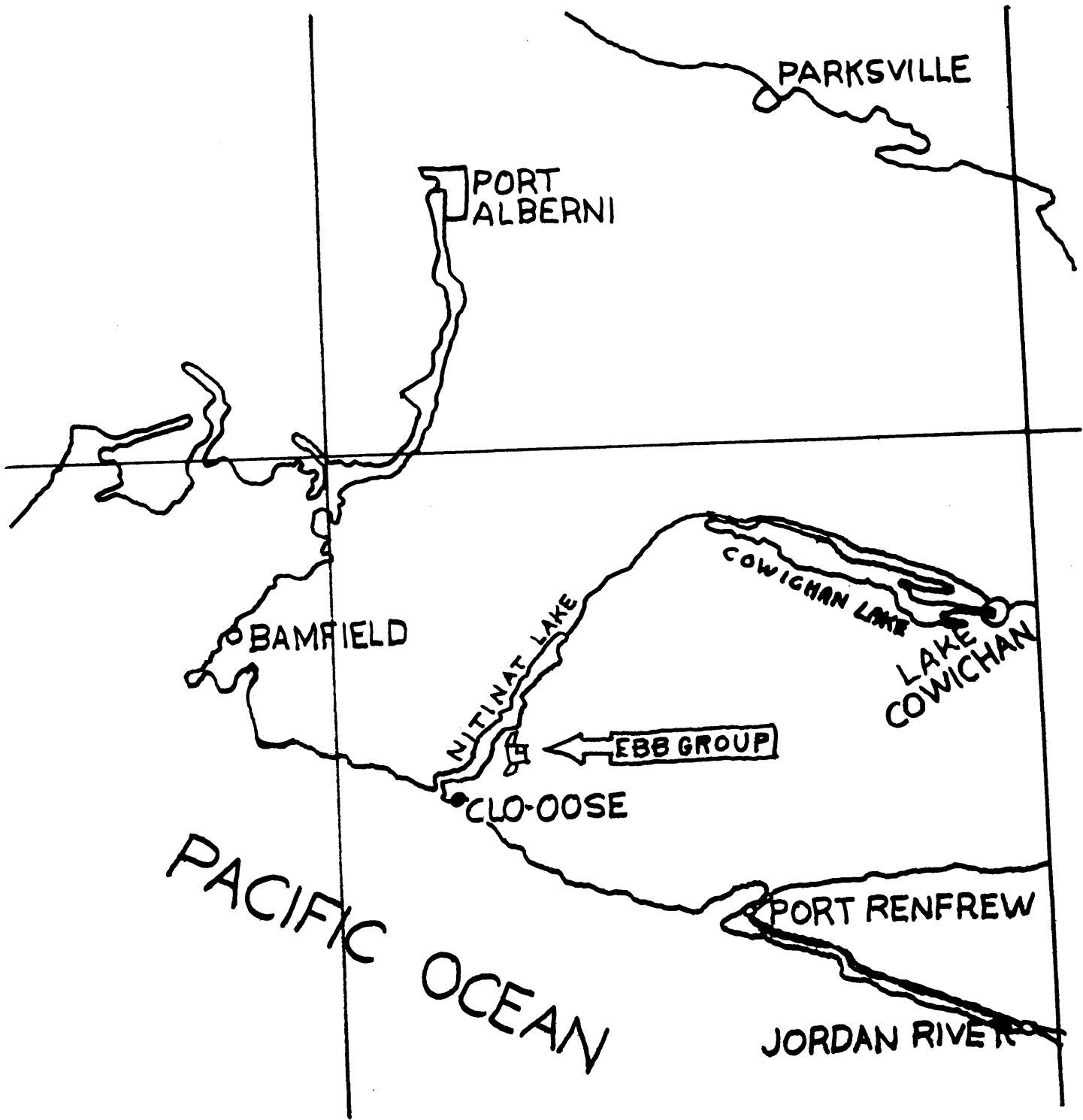
I, MALCOLM KEITH LORIMER, of the City of Vancouver, Province of British Columbia, Mining Engineer, hereby certify:

1. THAT I am a practicing Mining Engineer and reside at 3082 West 27th Avenue, Vancouver, B.C.
2. THAT I am a graduate in Mining Engineering of the University of British Columbia, Bachelor of Applied Science, 1950 and have been practicing my profession for over twenty-two years.
3. THAT I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. THAT I am a member of the Canadian Institute of Mining and Metallurgy.
5. THAT I am an associate of the firm of L. J. Manning & Associates Ltd., Consulting Mining Engineers, of 310 – 890 West Pender Street, Vancouver 1, B.C.
6. THAT the following is a true record of my employment and experience:

1950-52	General engineering, Consolidated Mining and Smelting Company of Canada Limited, Kimberley, B.C.
1952-56	Chief Engineer, Pioneer Gold Mines of B.C. Ltd., Pioneer Mines, B.C.
1956-57	Chief Engineer, Buchans Mining Co. Ltd., Buchans, Nfld.
1957-59	Chief Engineer and Mine Superintendent, Cowichan Copper Co. Ltd., Cowichan Lake, B.C.
1959-65	General Exploration work for various companies mostly in southern British Columbia.
1965-Present	Associate, L. J. Manning & Associates Ltd., Vancouver.
7. THAT I have no direct or indirect interest in the properties or securities of Doobah Mining Ltd. (N.P.L.) or any of its affiliates nor do I expect to acquire any.

DATED at Vancouver, British Columbia, the 12th day of October, 1972.

M. K. Lorimer, B.A. Sc., P.Eng.

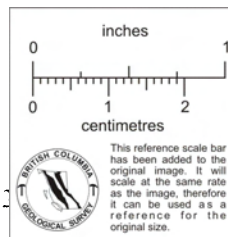


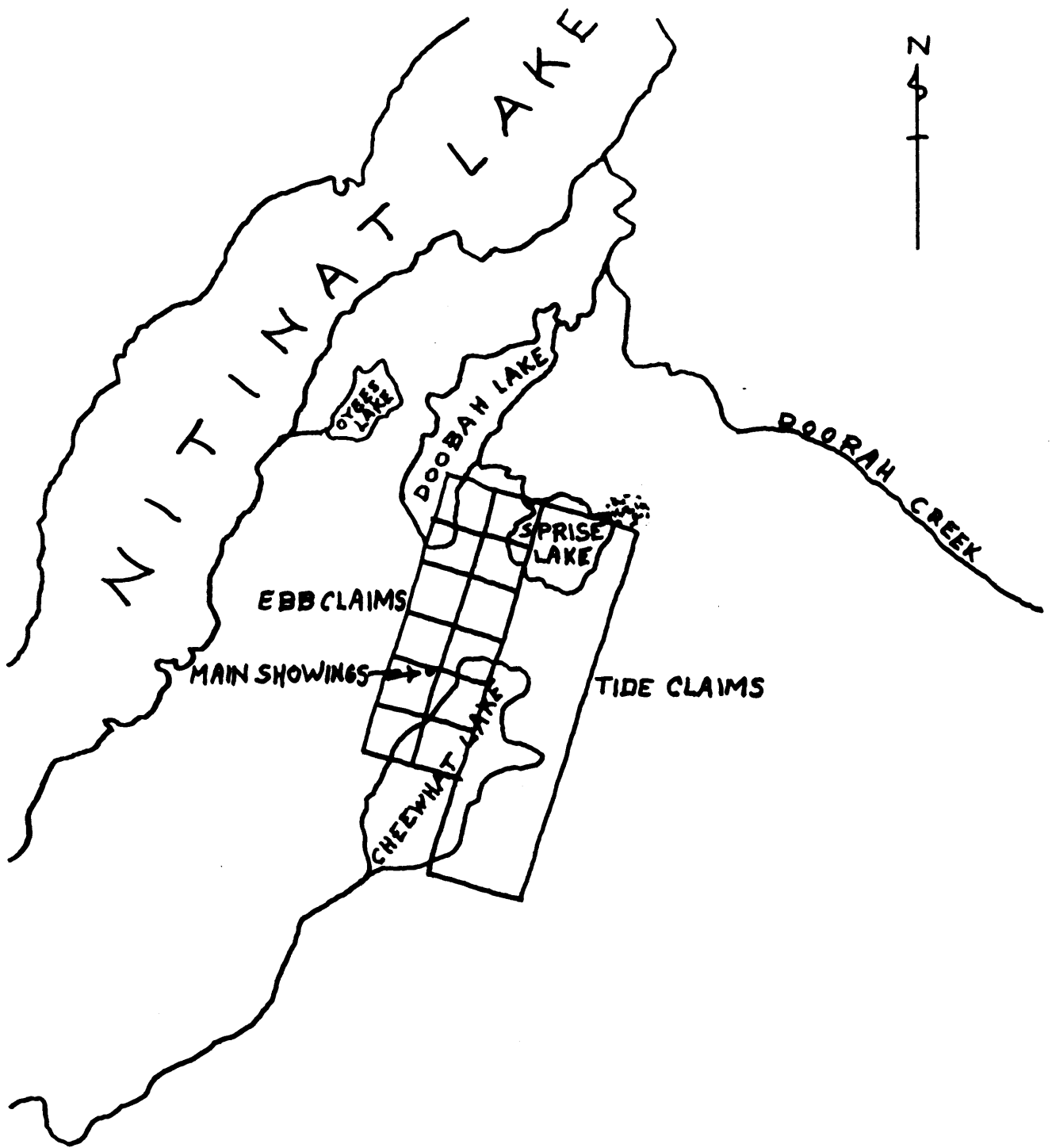
MAP 1

**DOOBAN MINING LTD.
EBB GROUP
LOCATION MAP**

**Scale: 1" = 10mi
Drawn: M. K. Lorimer
Oct 1972**

L.J. MANNING & ASSOC. LTD.





MAP 2

**DOOBAN MINING LTD (N.L.)
EBB GROUP**

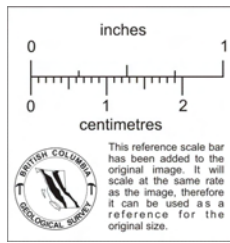
LOCATION MAP

Scale: 1 = 50,000

**Drawn: M. K. Lorimer
Oct 1972**

L.J. MANNING & ASSOC. LTD.

Not surveyed - approximate only
PACIFIC OCEAN



(92C/10, 15)

45; magnetometer survey, 50 line-miles covering Reko 1 to 48; electromagnetic survey, 50 line-miles covering Reko 1 to 48; trenching, 1,800 cubic feet on Reko 3, 4, 9, and 10; surface diamond drilling, four holes totalling 1,500 feet on Reko 3 and 4 and 10 holes totalling 2,500 feet on Reko 9 and 10.

THE GEOLOGY OF THE NITINAT TRIANGLE

By K. E. Northcote

A geological reconnaissance of the Nitinat Triangle was made during four weeks of the 1972 field season. The geology was mapped from bedrock exposures on logging roads, lakeshores, and in streams. Samples of pyritized zones encountered during mapping were chip sampled and assayed. Mineral prospects were examined and sampled and stream-silt samples were collected and analysed.

The area which was being considered for a park is outlined on Figure 24. The area included Tsusiat, Hobiton, and Squalicum Lakes, the south shore of Nitinat Lake from the coast to a point north of Oyees Lake, and included Cheewhat Lake and Cheewhat River.

GEOLOGY: The proposed park area is underlain mainly by Westcoast Diorites and Island Intrusions with a small area of Bonanza volcanic rocks included in the northernmost apex. The plutonic rocks apparently intrude Bonanza rocks with a gradational intrusive contact crossing just north of the mid point of Hobiton Lake and about two-thirds of the way up Nitinat Lake (Fig. 24).

Westcoast Diorites: The Westcoast Diorites form part of the Westcoast Crystalline Complex (Muller and Carson, 1969). The Westcoast Diorites consist of hybrid intrusive rocks showing wide variation in texture and composition (Fig. 25). Although the rocks are mainly quartz diorite-diorite composition they range from hornblendite to leucogranodiorite. Figure 25 shows only the modes of rock types representative of the bulk of the rocks. Modal analyses for Westcoast Diorites are listed in Table 1.

The hybrid quartz diorite-diorite ranges from fine to coarse grained, is leucocratic to mesocratic with hornblende generally in excess of biotite. Mafic minerals commonly occur in clusters giving the rock a spotted or clotted appearance. Plagioclase has poor to fair-developed normal zoning which shows a wide range of composition from An₄₇ cores to albitic rims. Average composition appears to be about An₃₇. Quartz is inconspicuous in hand specimens but is visible in most thin sections. Disseminated pyrite and pyrite in veinlets with quartz and epidote are common (Plates VA and VB).

A notable characteristic of Westcoast Diorites is the superabundance of inclusions. Near the outer coast, particularly, the inclusions are drawn out producing a strong foliation. Inland the inclusions, although still abundant, are more irregular in shape and the foliation is less noticeable. Most of the inclusions were formerly volcanic rocks which were engulfed by Westcoast Diorites. The inclusions show all degrees of recrystallization and assimilation and are cut by numerous lighter coloured dykelets. Garnet-epidote-pyroxene skarns occur locally and probably represent altered limestone inclusions. Copper and magnetite mineralization shows a tendency to be localized in skarns.

Within the large area underlain by Westcoast Diorites are smaller areas of dark melanocratic fine-grained rock of diorite-quartz diorite composition which form large xenoliths and pendants of recrystallized, partly assimilated volcanic rocks and early, highly contaminated phases of intrusive rocks. These areas are abundantly cut by dykes and dykelets of light-coloured hybrid intrusive and locally exhibit 'giraffe-like' patterns. Pyrite is common as disseminations and veinlets in the volcanic pendants. A large mass of abundantly intruded marble is exposed on both sides of Nitinat Lake near the southern end (Fig. 24). The marble is coarse grained, recrystallized, and is of good purity (Table 4). The marble pendant probably represents Quatsino (?) limestone which has been engulfed by magma of the hybrid Westcoast Diorites. Pyrite-bearing siliceous rocks and skarn have resulted from interaction of magma and limestone and are associated with the marble pendant.

Sutherland Brown (1968, pp. 129-146) has described in detail syntectonic plutons of the Queen Charlotte Islands. His description shows that these syntectonic plutons are virtually identical to Westcoast Diorites in textures, composition, age, and origin (*op cit* and personal communication). Sutherland Brown (1968, p. 133) further states that described examples of these plutons are relatively rare with one other similar pluton, the Pinckneyville batholith of Alabama, described by Gault (1945, pp. 181-246).

Island Intrusions (?): A stock thought to represent Island Intrusions, locally called the Doobah stock, is centred northeast of Doobah and Sprise Lakes and crosses to the northwest side of Nitinat Lake (Fig. 24). The Doobah stock consists of medium to coarse-grained, weakly porphyritic, holofelsic to leucocratic, biotite (hornblende) granodiorite-quartz monzonite (Fig. 25 and Plate VIA). Plagioclase commonly shows no well-developed zoning and ranges from An₃₀ to An₃₈ in composition. One thin section from a sample from near the south edge of the stock shows strong zoning with few slight oscillations. Orthoclase is anhedral, interstitial, and perthitic. Mafic content is commonly less than 5 per cent with biotite equalling or in excess of hornblende. Modal analyses for the Doobah stock are plotted on Figure 25 and are listed on Table 1. Numerous dykes from the Doobah stock cut the hybrid Westcoast Diorites and the numerous xenoliths and pendants.

A small body of granodiorite-quartz monzonite similar to the Doobah stock occurs on the north side of Tsusiat Lake (Fig. 24). The southeast end of this body crosses Tsusiat Lake and has a granophyric texture. The granophyre is weakly porphyritic with plagioclase phenocrysts intergrown with and in a fine matrix of graphic textured orthoclase and quartz (Plate VIB). The Tsusiat granophyre is locally pyritized and iron stained.

The shoreline of the northeast part of Hobiton Lake, southwest of Hitchie Creek is comprised largely of pebbles and cobbles of porphyritic, holofelsic granophyre similar to although coarser grained than that exposed on Tsusiat Lake. This granopyric phase was not observed in place at Hobiton Lake.

ALTERATION: The intrusive rocks of the Nitinat Triangle show little evidence of pervasive alteration. There is localized saussuritization of early contaminated intrusive phases and widespread but weak chloritization, epidotization, and sericitization of mafic minerals and plagioclase feldspar.

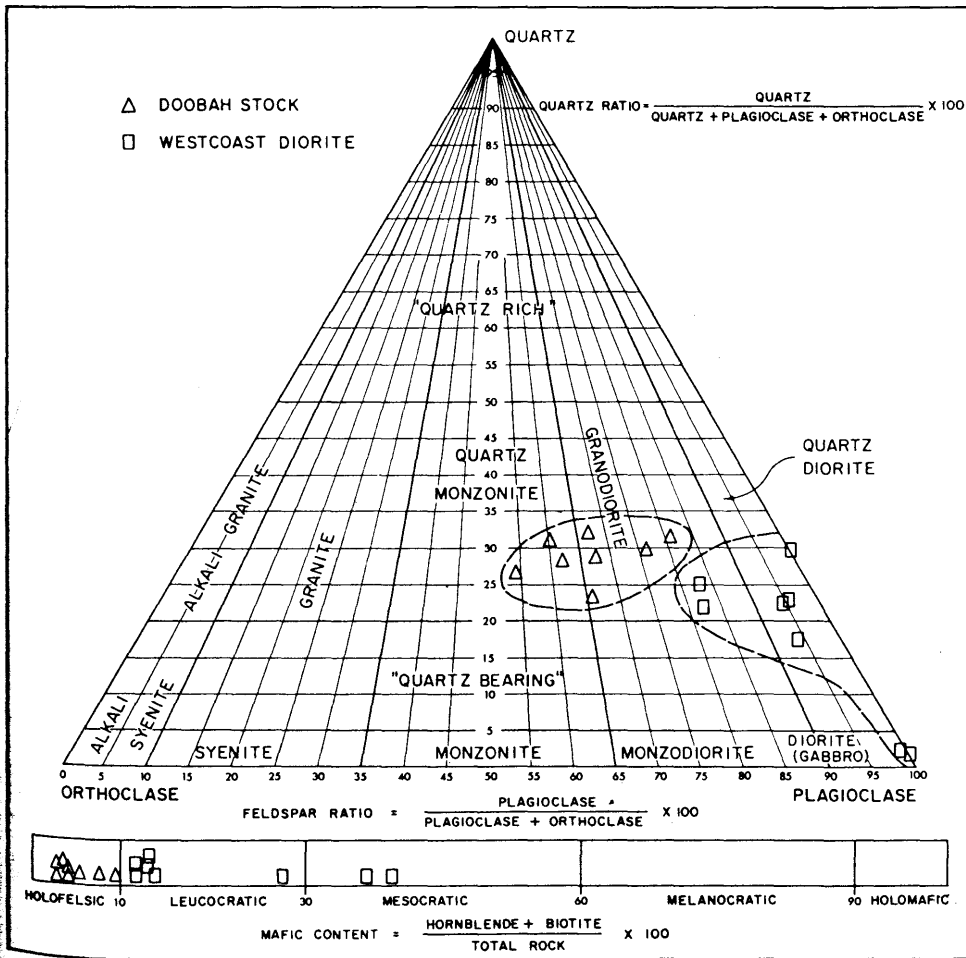


Figure 25. Classification of intrusive rocks, Nitinat Triangle (after A. L. Streikeisen).

INTRUSIVE HISTORY: The Westcoast Crystalline Complex is interpreted by Muller to have resulted from fusion of pre-Triassic rocks and brought about by an increase in thermal gradient in Early Jurassic time. Where the fused rock crystallized more or less in place rocks like the Wark Gneiss resulted (Muller, Northcote, and Carlisle, in press). In many areas, however, fusion of pre-Triassic rocks appears to have resulted in a mobile magma which penetrated upward into younger rocks, engulfing, recrystallizing, incorporating, and assimilating large amounts of this material. Hybrid intrusive rocks resulted which are abundantly charged with inclusions such as the Westcoast Diorites in the Nitinat area. Several phases of hybrid rocks occur. It is probable that the Westcoast Diorites were emplaced by a number of magmatic pulses with later magma cutting earlier intrusive phases. Differentiation of the hybrid magma occurred and resulted in emplacement and crystallization of younger more siliceous phases such as the Doobah stock. The Westcoast Diorites of the Westcoast Crystalline Complex and Island Intrusions may be comagmatic, with Island Intrusions representing a differentiated, less contaminated, less inclusion-charged equivalent of the Westcoast Diorites. Further, the Island Intrusions and Bonanza volcanic rocks are probably also comagmatic (Northcote and Muller, 1972).

Bonanza Subgroup: The contact between Westcoast Diorites and volcanic rocks of the Bonanza Subgroup appears to be intrusive and gradational and crosses the northeast part of the Nitinat Triangle (Fig. 24). Volcanic rocks within a mile of the contact are altered or metamorphosed and their original textures are largely obliterated. Some difficulty was experienced in the contact area distinguishing among Bonanza metavolcanic rocks, fine-grained dioritic dykes, and highly contaminated fine-grained diorite-quartz diorite intrusive rocks. At some distance from the contact, however, the pyroclastic textures of tuff and tuff breccia are preserved. The Bonanza rocks are intruded by very fine-grained to medium-grained dykes of diorite and quartz-bearing diorite composition.

Refractive indices of fused random samples of Bonanza volcanic rocks show they are mainly rhyolite-rhyodacite composition (Fig. 26). Dark-coloured metavolcanic rock exposures may originally have been of more basic composition. Thin sections of these darker tuffaceous rocks from near the intrusive contact show quartz veinlets and diffuse interstitial quartz among feldspar fragments. The refractive indices of fused glass from these rocks would indicate an anomalously acid composition. Tuff and tuff breccia on Hobiton River and on Nitinat Lake southwest of Caycuse River, however, appear relatively unaltered and were probably originally of their indicated rhyolite and rhyodacite composition.

STRUCTURE: Topographic lineaments from air photographs are superimposed on the lithology of Figure 24. The lineaments probably represent fracture and shear zones. A comparison of the position of lineaments with respect to geological contacts suggests no strong structural control.

Bedding in marble on both sides of Nitinat Lake is disturbed as a result of magmatic intrusion and proximity to shear zones paralleling Nitinat Lake.

GEOCHEMISTRY: Silt samples were collected from streams within the proposed park area at locations shown on Figure 27. The silt samples were dried, screened to -80 mesh, and analysed for copper, lead, zinc, and molybdenum using the following methods of analysis:

- (a) Spectrographic analysis for total copper, zinc, lead, and molybdenum.
- (b) Concentrated $\text{HNO}_3 + \text{KClO}_4$ and atomic absorption for total copper, zinc, and lead.
- (c) 0.5 N. HCl and atomic absorption for hydromorphic copper, zinc, and lead.
- (d) Colorimetric methods for total Mo.

The results of the analyses are listed in Table 2 and spectrographic analyses and 0.5 N. HCl:AA analyses for copper, zinc, and lead are plotted as histograms on Figure 28. The sample numbers of anomalous samples are noted on the figure.

Spectrographic and concentrated $\text{HNO}_3 + \text{KClO}_4$:AA methods for total metals show an increase in background for copper and zinc near the intrusive-volcanic contact at Hobiton Lake. The values for lead show more random variation with less marked increase in values at the intrusive-volcanic contact. Molybdenum values range between not detected and 19 ppm with sample numbers 38, 56, 61, and 62 giving values greater than 5 ppm. (Samples 61 and 62 are duplicate samples from the same stream.)

MINERALIZED OCCURRENCES: A number of pyritized zones within intrusive rocks, volcanic xenoliths and pendants, and in skarn associated with marble pendants were chip sampled and assayed. The locations of the samples are shown on Figure 27 and the assay results are tabulated in Table 3.

The marble pendant near the southwest end of Nitinat Lake was sampled and analysed for purity. The results of these analyses plus that of Mathews and McCammon are tabulated on Table 4 (Mathews and McCammon, 1957, pp. 97, 98).

REFERENCES: Gault, H. R. (1945), Pinckneyville Quartz-Diorite, Alabama, *Geol. Soc. Am., Bull.*, Vol. 56, pp. 181-246; Mathews, W. H. and McCammon, J. W. (1957), Calcareous Deposits of Southwestern British Columbia, *B.C. Dept. of Mines, Bull.* 40; Muller, J. E., Northcote, K. E., and Carlisle, Donald (in press), Geology of Alert Bay-Cape Scott Map-area, *Geol. Surv., Canada*; Northcote, K. E. and Muller, J. E. (1972), Volcanism, Plutonism, and Mineralization, Vancouver Island, *C.I.M., Bull.*, October, 1972; Sutherland Brown, A. (1968), Geology of the Queen Charlotte Islands, British Columbia, *B.C. Dept. of Mines & Pet. Res., Bull.* 54.






SYMBOLS

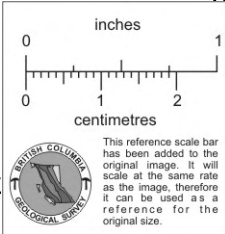
- INFERRED GEOLOGICAL CONTACT
- TOPOGRAPHIC LINEAMENT
- ┆ BEDDING
- ↔ FOLIATION
- SHEAR
- ONE OF SEVERAL PROPOSED PARK BOUNDARIES

MINERAL PROSPECTS

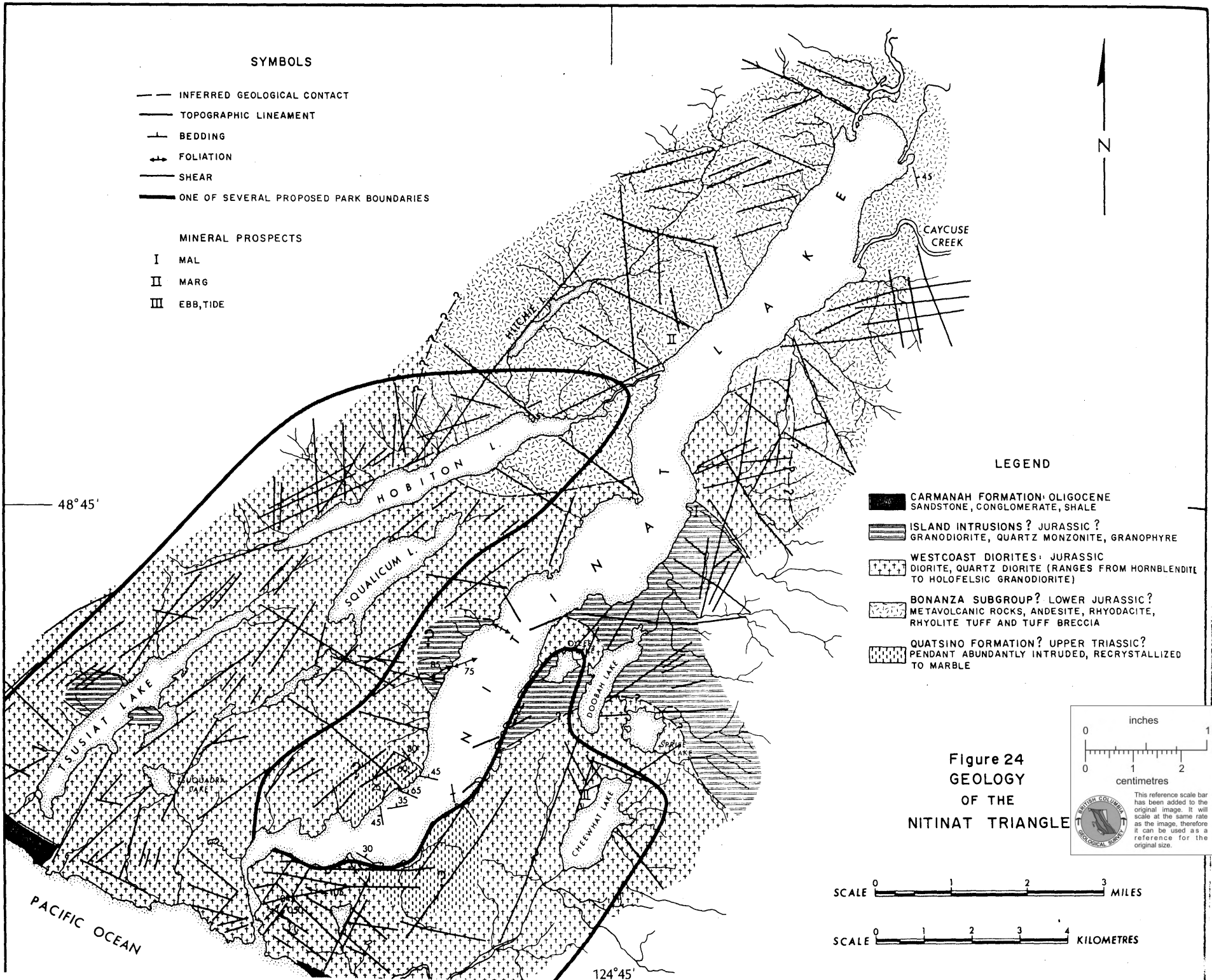
- I MAL
- II MARG
- III EBB,TIDE

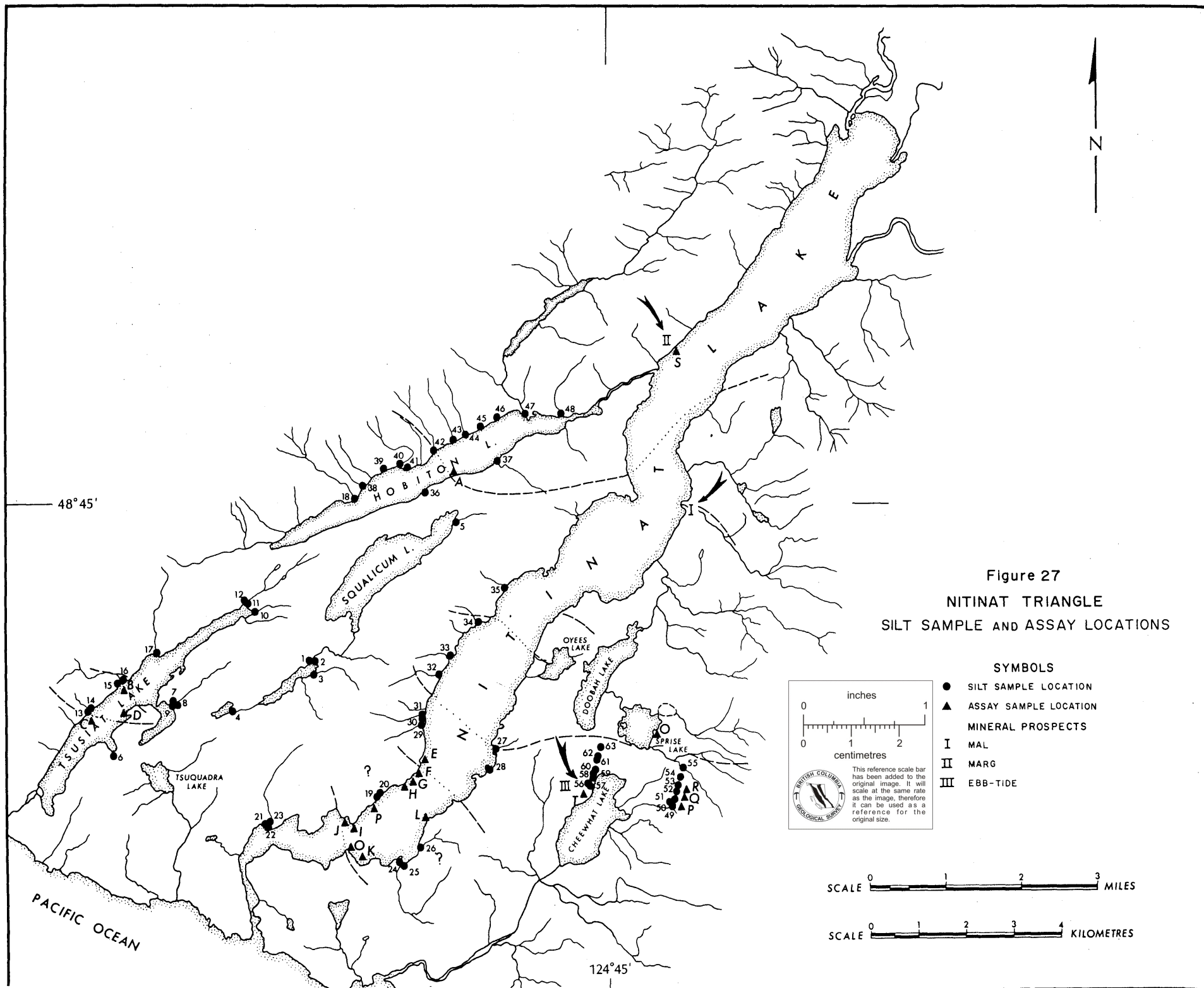
LEGEND

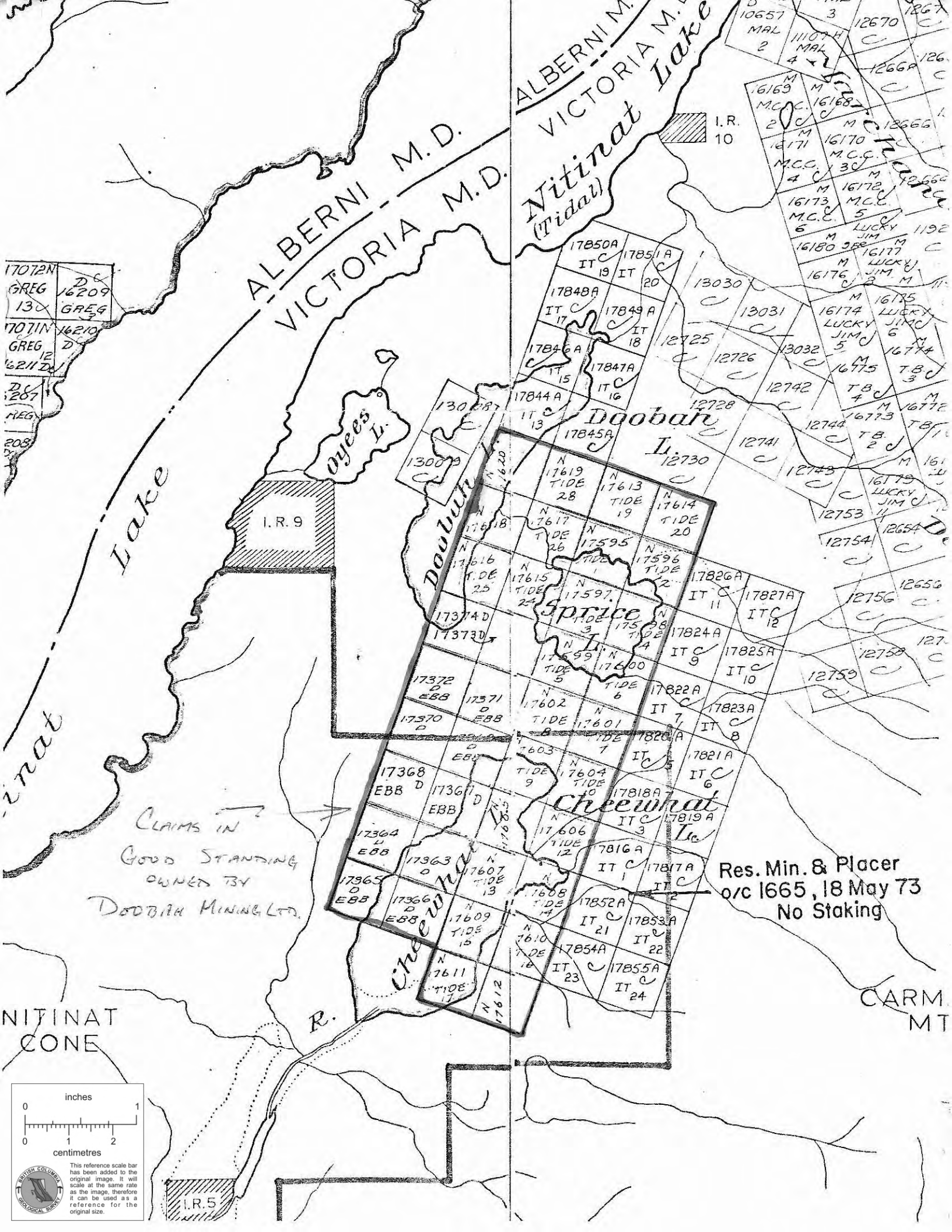
-  CARMANAH FORMATION: OLIGOCENE SANDSTONE, CONGLOMERATE, SHALE
-  ISLAND INTRUSIONS? JURASSIC? GRANODIORITE, QUARTZ MONZONITE, GRANOPHYRE
-  WESTCOAST DIORITES: JURASSIC DIORITE, QUARTZ DIORITE (RANGES FROM HORNBLENDITE TO HOLOFELSIC GRANODIORITE)
-  BONANZA SUBGROUP? LOWER JURASSIC? METAVOLCANIC ROCKS, ANDESITE, RHYODACITE, RHYOLITE TUFF AND TUFF BRECCIA
-  QUATSINO FORMATION? UPPER TRIASSIC? PENDANT ABUNDANTLY INTRUDED, RECRYSTALLIZED TO MARBLE



**Figure 24
GEOLOGY
OF THE
NITINAT TRIANGLE**







ALBERNI M.D.
VICTORIA M.D.

ALBERNI M.D.
VICTORIA M.D.
Nitinat (Tidal) Lake

Lake

Oyees I.

Doobah I.

Doobah I.

Spruce I.

Cheewah I.

Cheewah I.

Res. Min. & Placer
o/c 1665, 18 May 73
No Staking

17072N
GREG 16209
130 GREG
17071N 16210
GREG D
16211D
DC 207
GREG
208

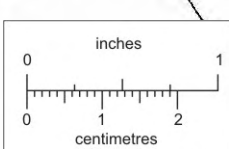
I.R. 9

I.R. 10

I.R. 5

NITINAT
CONE

CARM.
MT



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.