

ASSESSMENT REPORT
DRILLING

Bonanza River Exploration Project
Mineral Claim DORO 1
Nanaimo Mining Division

NTS Location	-	92L - 7W
Latitude	-	50° 25' North
Longitude	-	126° 48' West

Owner of Claim :	Donald F. Gunning, P.Eng.
Operator:	International Marble & Stone Co. Ltd.
Author of Report:	Owner
Date Submitted:	March 11, 1982

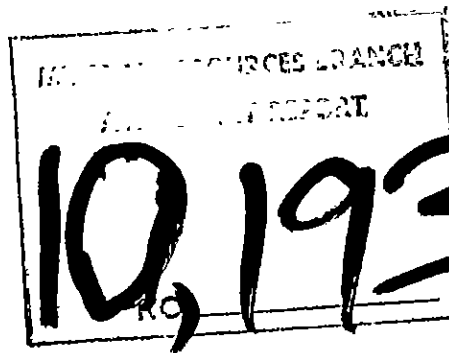


TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION MAP	2
COST STATEMENT.....	3
SAMPLE ANALYSES	4
PROSPECTING REPORT	5

INTRODUCTION

The DORO 1 claim is located about 1200 meters north of the north end of Bonanza River (see location map on page 2). Access is via a good logging road from Beaver Cove.

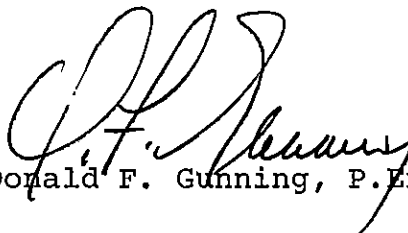
The claim occupies a small part of a very large limestone deposit forming part of the Quatsino formation, well described by McCammon in the 1968 Annual Report of the B.C. Ministry of Mines and Petroleum Resources. The claim was staked on March 12, 1981. The showing is very well exposed, comprising part of a massive, bare mountainside of limestone.

James Richardson, P.Eng., Consulting Geologist, visited the site in October of 1981 (together with another deposit in Hyde Creek); his report is included here, beginning on page 5.

In December of 1981, Sea View Blasting Ltd. of Port McNeill, was retained to drill six short percussion holes on the claim. The author collected powder samples during this drilling and submitted four composites for analysis to Cantest (sample numbers 3458 to 3461). The results of these analyses are shown on page 4. *Total depth ~ 100 M*

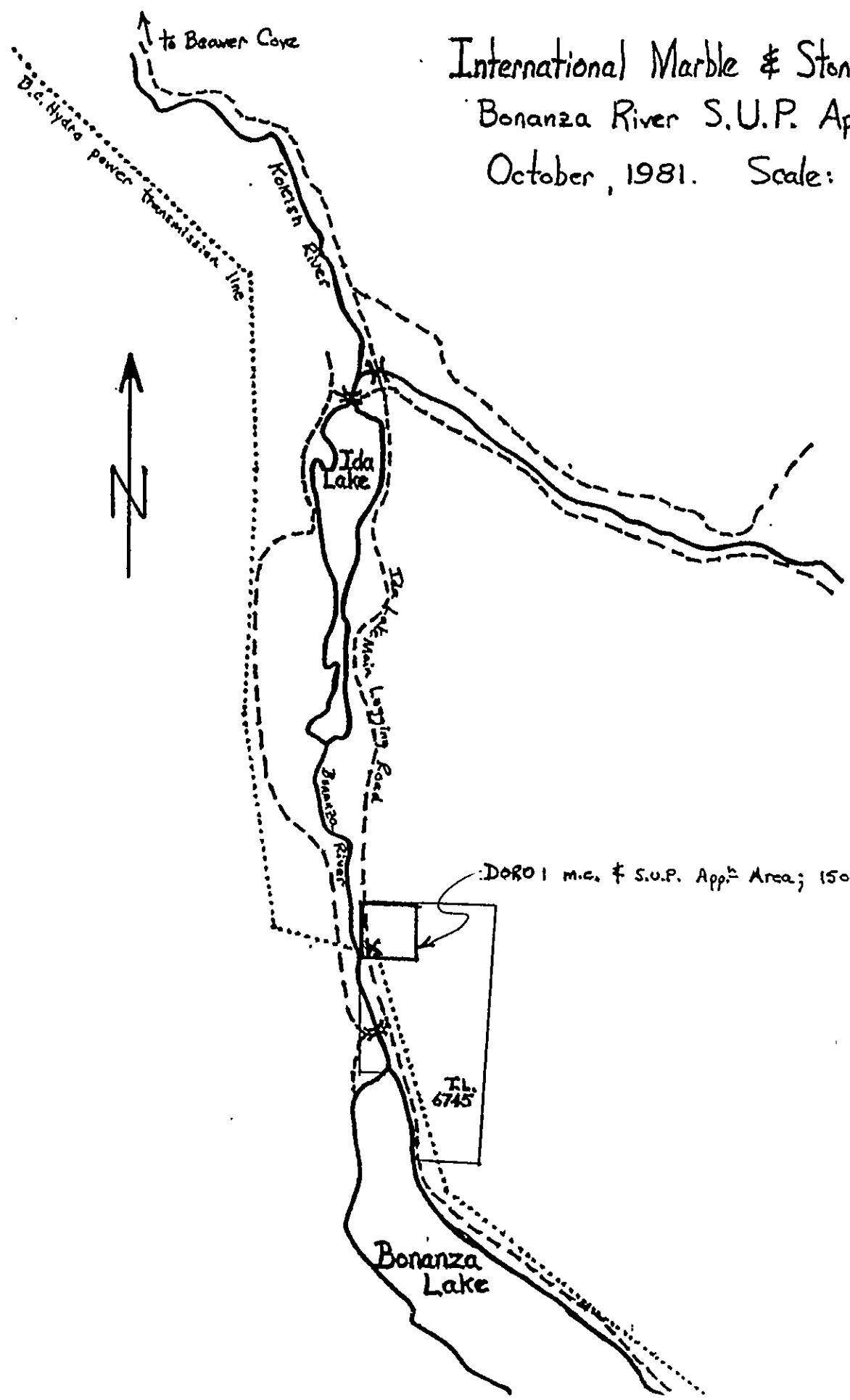
The partial (claimed) cost of the programme to date is \$1,657.00. Internal prospecting costs have not been included; nor have travel costs to and from the site. The claimed costs are itemized on page 3. The author is a graduate metallurgical engineer (U.B.C.).

*on a short
branch logging
road in the
sw corner
of th claim*


Donald F. Gunning, P.Eng.

March 11, 1982

International Marble & Stone Co. Ltd.
Bonanza River S.U.P. Application
October, 1981. Scale: 1:50,000



DORO 1 m.c. & S.U.P. App. Area; 1500' sq.

TL. 6745

Bonanza Lake

COST STATEMENTDORO 1 Mineral Claim - Bonanza River

October - December, 1981

<u>Prospecting</u>	- J. Richardson, P.Eng. Report of Oct. 26, 1981 (half allocated to Bonanza River, half to Hyde Creek - total invoice was \$750.)	\$ 375.00
<u>Drilling</u>	- Sea View Blasting Ltd., Port McNeill, B.C. Dec. 7 & 8, 1981 (12 hr. @ \$80/hr.)	\$ 960.00
<u>Analyses</u>	- 4 carbonate and brightness analyses by Cantest Ltd.	\$ 322.00
		<hr/>
	Total Costs Claimed:	\$1,657.00
		<hr/> <hr/>

To: 7



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278
Telex 04-54210

International Marble & Stone Co.

190 - 10691 Shellbridge Way,

Richmond, B.C.

V6X 2W8

Certificate of Assay

File No. 4618E-6

Date December 31, 1981

Attention: Mr. D. Gunning

We hereby Certify that the following are the results of assays made by us upon submitted limestone samples.

Sample Identification	CALCIUM		MAGNESIUM		R2O3	ACID INSOLUBLE	CALCULATED	CALCULATED	BRIGHTNESS	
	Percent	CaO	Percent	MgO	Percent	Percent	Percent CaCO3	Percent MgCO3	Percent	Percent
3458	54.0		0.35		0.60	1.20	96.3	0.73	85.5	
3459	52.8		0.41		0.63	3.14	94.3	0.87	86.1	
3460	52.8		0.38		0.83	2.95	94.2	0.80	84.3	
3461	54.3		0.36		0.24	0.90	97.0	0.76	90.4	

Note: Pulps retained three months.

Rejects retained two weeks.

CAN TEST LTD.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED

Form No. 13-B

Provincial Assayer

JAMES RICHARDSON, P. Eng.

Consulting Geologist
4883 CEDAR CRES.,
DELTA, B.C. V4M 1J9
TELEPHONE (604) 943-3210

Abridged Version
for DORO 1 Assessment
Report - March '82.

LIMESTONES IN VICINITY OF
PORT McNEILL, VANCOUVER ISLAND

INTRODUCTION

An examination of a number of occurrences of limestone and marble south and south-east of Port McNeill, northern Vancouver Island, was made with D.F. Gunning of International Marble & Stone Co. Ltd. on 21-22 October, 1981.

The purposes of the examination were:

- (1) To assess the quality, amount and mineability of limestone in IMASCO's Special Use Permit #9375.
- (2) To compare other limestone deposits in the area with that of (1) to determine which deposit would best accommodate IMASCO's needs for the short or long term. The deposits examined were:
 - (i) S.U.P. #9375
 - (ii) DORO 1 Claim on Bonanza River.
 - (iii) Along the road on the east side of Nimpkish Lake.

RESERVES

Estimates of the potential reserves of probably favorable rock in S.U.P. #9375 and in DORO Mineral Claim are described in the following.

DORO CLAIM

The DORO Claim encompasses a block of limestone 1,500' wide in a north-south direction, 1,200' wide in an east direction (300' is deducted to accommodate the road allowance) and approximately 700' high at the east end of the block up the steep (30° - 35°) hillside. This block contains some 42 million tons of rock. Inasmuch as the limestone here is remarkably uniformly light grey to white in color, only 25% need be deducted for the presence of darker, unfavorable rock, dikes, etc. Accordingly, there is about 30 million tons of probable favorable rock in this claim about 1/3 of which could be readily mined. There is a potential for similar amounts in adjoining ground both to the north and south of the DORO Claim. Of course, thorough sampling and testing of rock in this area is required to determine its ultimate acceptability. It is to be noted that this area is about 20 miles further from a shipping point at Port McNeill than the S.U.P. #9375 deposit.

AREAS EXAMINED (See attached map for locations)

GENERAL

In all three areas examined, the rock is limestone or marble (crystalline limestone) of the Quatsino Formation of Upper Triassic age. No dolomite was detected in any of the locations. The Quatsino Formation is from 100' to 950' thick and is underlain and overlain by volcanic rocks. Porphyritic and basaltic dikes and small irregular masses intrude the limestone locally.

(2)

DORO Claim (Bonanza River)

The DORO Claim is located on the east side of Bonanza River immediately north of where the power transmission line crosses the river. It is approximately 25 miles southeast of Port McNeill by paved road.
^{and gravel}

Good exposures of Quatsino limestone are present in the logged area east of the road for several hundreds of feet up the steep hillside. A small amount of quarrying, apparently for dimension stone, was done a number of years ago just above the road in the south end of the DORO Claim.

The limestone in this very thick part of the formation is in massive beds of white to light grey crystalline marble which is remarkably uniform in physical appearance and apparently in composition. The average of two samples by the B.C. Department of Mines indicates high purity limestone grading 55% CaO; 0.1% MgO; 0.3 % R₂O₃; and 1.0% insolubles. Samples for analysis were taken by D. F. Gunning at the time of our examination. A cursory traverse along the steep bluffs in the claim encountered only one narrow band of dark crystalline limestone in an otherwise very uniform white and light grey sequence. The only evidence of intrusive dikes we found were a few pieces float but McCammon of the B.C. Department of Mines states "...A few igneous dikes are present."

The limestone is uniformly crystalline with grains up to about 3 mm in diameter. It weathers to a consistent medium grey color which is seldom more than one or two millimeters thick. Also, there is staining to a light orange color. However, this staining is local and appears to be confined within a few inches of the surface. Certainly it is not a primarily sedimentological feature and appears to be due to the percolation of surface waters for a short way through the relatively open lattice of the sugary texture.

Similar rock is exposed for several hundreds of feet north of the claim and for a much greater distance to the south. The dip of the strata is 25° east into the steep hillside. Accordingly, there is a vast amount of readily mineable limestone here of apparently favorable physical and chemical properties.

At the present time, IMASCO hold a favorable part of the area with one mineral claim only. If and when rock from this area is required by IMASCO, a thorough sampling job should be done both along strike and up dip to select the most favorable part of this huge resource for subsequent development by a Special Use Permit. In the meantime, the foothold provided by the DORO Claim should be maintained.

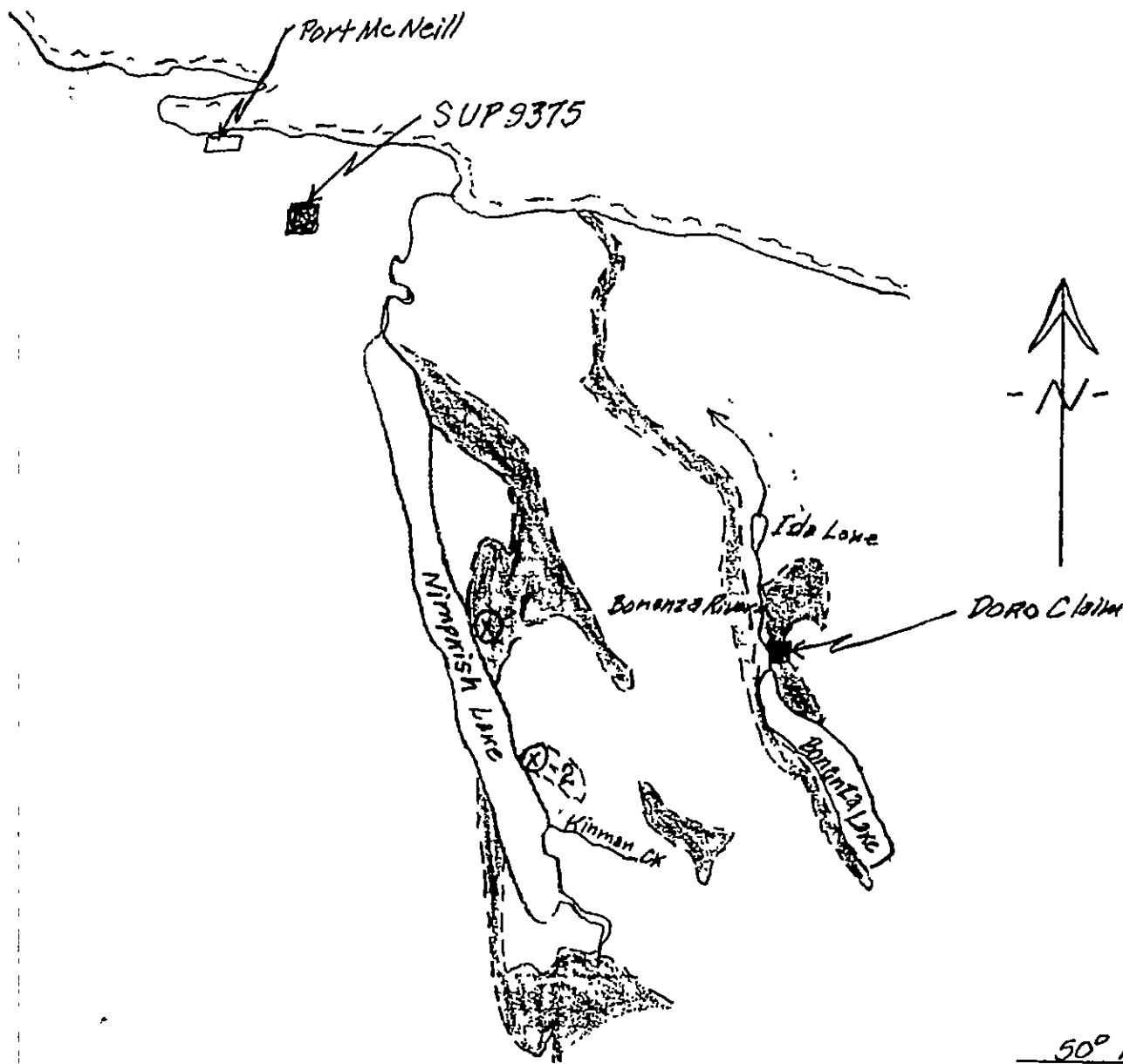
Report By:

J. Richardson

J. Richardson, P.Eng.
October 26, 1981

Attachment:

Sketch of Limestones
in Port McNeill Area



■ - Quatsino Limestone

■ - IMS Properties

⊗ = Other Areas Examined

SCALE: 1:250,000
(Approx. 1" = 4 miles)

Sketch showing some of the Quatsino Limestone occurrences and IMS properties in Port McNeill area.

From: G.S.C. Paper 74-8.

187° 00'

J. Richardson
25 Oct. 1981