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**DRILLING AND SAMPLING
REPORT**

on the

1989 EXPLORATION OF THE LAREDO CLAIMS

Skeena Mining Division
British Columbia

Latitude 52° 42' Longitude 129° 03'

NTS 103 A/11 E

CLAIM GROUP	NUMBER OF CLAIMS	NUMBER OF UNITS
Laredo	2	32
Owner and Operator	LAREDO LIMESTONE LTD. 212-409 Granville St. Vancouver, B.C. V6C 1T2	
Consultant:	DOLMAGE CAMPBELL LTS. 1970-1055 West Hastings St. Vancouver, B.C. V6E 2E9	

December 15, 1989
Vancouver, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,595

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1.0 EXECUTIVE SUMMARY

During 1989 two exploration programs were conducted on the Laredo 1 and 2 claims (32 units) which comprise the Laredo property on Aristazabal Island. In January, 1989, a program of reconnaissance mapping, linecutting and collection of surface samples defined the limits of the carbonate beds on the Laredo Property and allowed a total resource estimate to be completed.

With an estimated potentially quarryable tonnage of 1 billion tonnes of limestone, a second program was initiated to define proven and probable reserves.

In the spring of 1989 detailed surface sampling (60 samples) and 11 diamond drill holes totalling 304.5 metres (46 samples) were completed in conjunction with additional linecutting. This program provided sufficient geological and analytical data to complete an estimate of the limestone reserves in a postulated 20 year quarry. In addition, limestone reserve estimations were completed for an area defined by previous investigations.

To date, the total proven and probable reserves of high calcite limestone and limestone are estimated to be 60 million tonnes.

2.0 INTRODUCTION

2.1 GENERAL

The Laredo property, owned and operated by Laredo Limestone Ltd. with offices at 212-409 Granville St., Vancouver, B.C., is located on Aristazabal Island (Figure 1) on the north coast of British Columbia. It is largely underlain by carbonate rocks of the Alexander Terrane striking north by northwest and dipping 30° to 50° to the southwest.

Work on the property by previous owners includes quarrying in 1899 and 1954 and small programs of surface sampling in 1962, 1969 and 1984 and the completion of five diamond drill holes in 1969.

The current mineral claims were staked in November 1988.

A review of all the available data in January 1989 indicated that the estimated reserves of limestone available for quarrying could be greatly increased by additional surface sampling and diamond drilling.

As a result of this study Dolmage Campbell Ltd. was retained by Laredo Limestone Ltd. to complete a reconnaissance mapping and surface sampling program in January 1989.

Due to positive results from that program a more detailed surface sampling program and a diamond drilling program were completed in the spring of 1989.

This report presents the results of all of the work completed in 1989.

2.2 PROPERTY AND OWNERSHIP

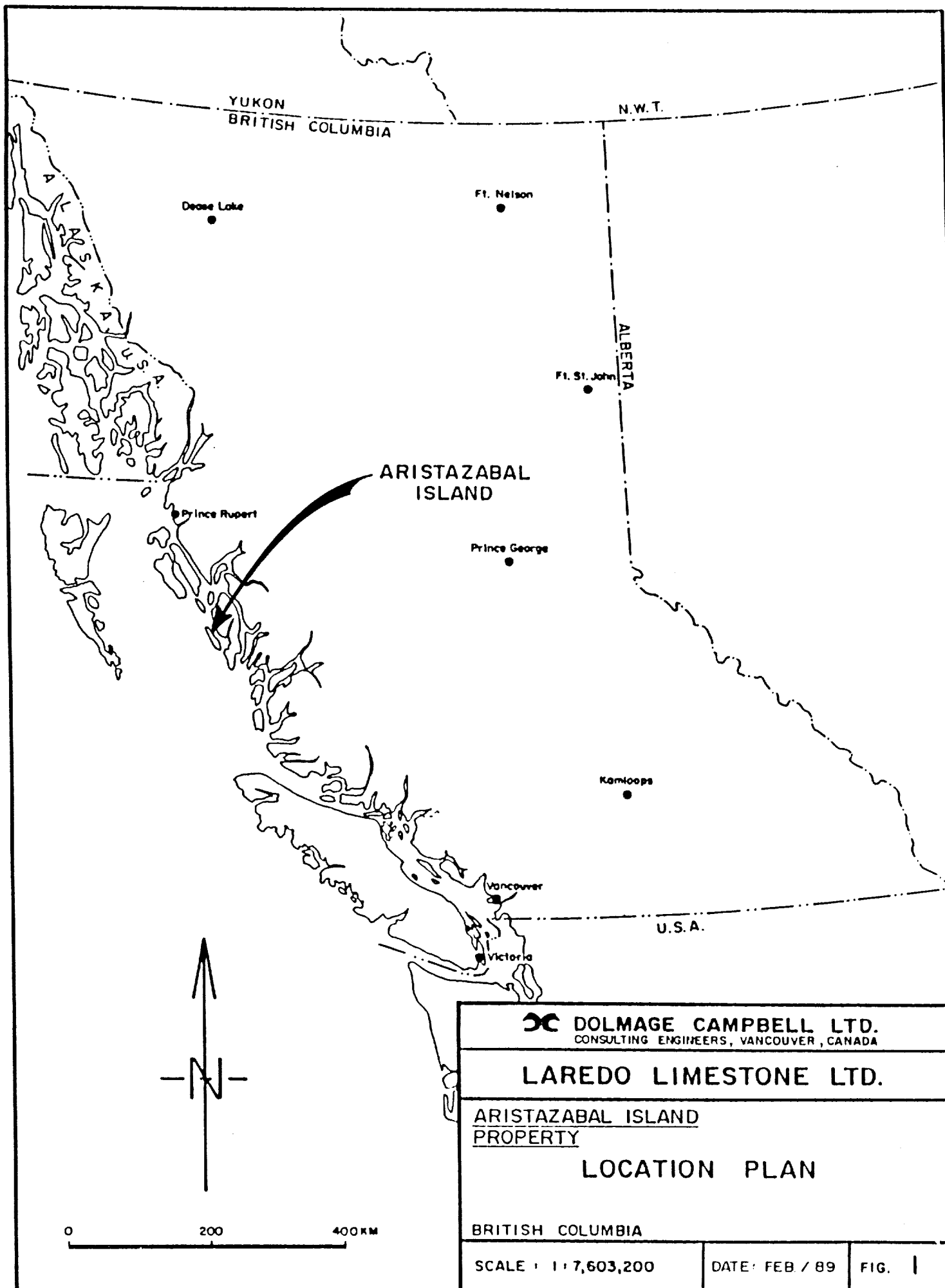
Laredo Limestone Limited is the sole owner of the two mineral claims, Laredo 1 and Laredo 2, totalling 32 units, which comprise the Laredo claim group.

The configuration of these claims are shown in Figure 2.

2.3 LOCATION AND ACCESS

The Laredo property is located on Aristazabal Island on the north coast of British Columbia. The property is situated at Latitude 52° 42' north and Longitude 129° 03' west in the Skeena Mining Division, approximately half way between Bella Bella and Prince Rupert (Figure 1).

Access to the site can be gained by air from Bella Bella (90 km) and Port Hardy (250 km) or by water from Bella Bella.



DC DOLMAGE CAMPBELL LTD.
 CONSULTING ENGINEERS, VANCOUVER, CANADA

LAREDO LIMESTONE LTD.

ARISTAZABAL ISLAND
PROPERTY

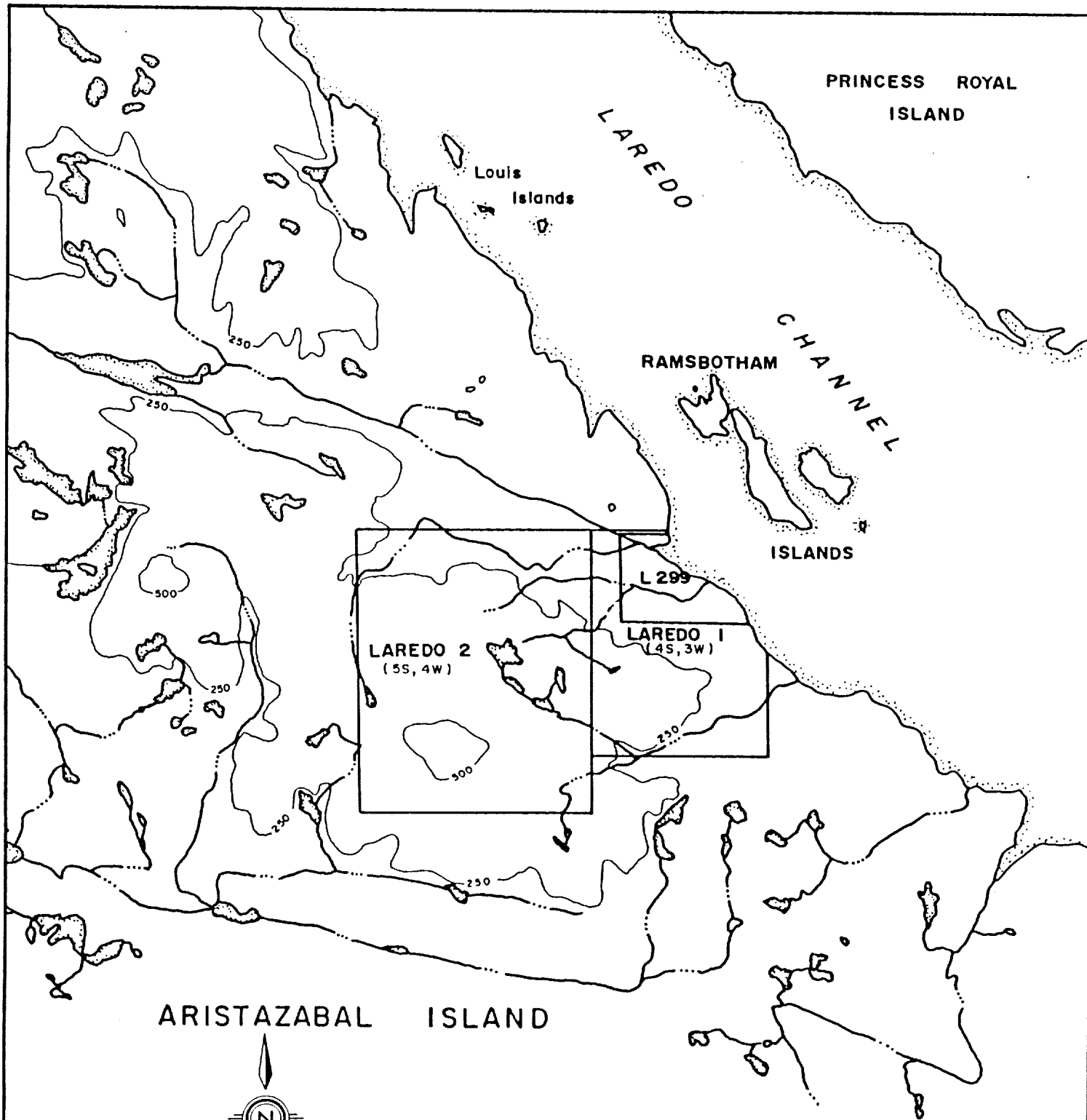
LOCATION PLAN

BRITISH COLUMBIA

SCALE : 1 : 7,603,200

DATE : FEB / 89

FIG. |



ARISTAZABAL ISLAND



SCALE



DOLMAGE CAMPBELL LTD.
CONSULTING ENGINEERS, VANCOUVER, CANADA

LAREDO LIMESTONE LTD.

ARISTAZABAL ISLAND
PROPERTY

LAREDO PROPERTY MAP

SCALE: 1: 50,000

DATE: Nov. 25, 1989

FIG. 2

2.4 TOPOGRAPHY

The topography of the property is generally a hummocky plateau with little to moderate relief ranging from sea level to a maximum elevation of approximately 150 metres. On a local scale, the topography is rugged with possible karstic collapse areas surrounded by near vertical cliffs 5 to 10 metres in height.

Numerous small lakes and ponds occur on the upper flats at approximately 80 metres elevation and the property is traversed by major creeks at the southerly and northerly limits of the claims.

In addition, numerous dry valleys and two creeks which disappear into the limestone were noted during the sampling program.

2.5 HISTORY

In 1899, a quarry license was obtained for Lot 299 on Aristazabal Island for the quarrying of limestone. Two quarries have been worked at different times and records indicate that in 1954 12,000 tons of high quality limestone (98 to 99% CaCO₃) were shipped to a pulp mill at Prince Rupert.

The property was re-examined in 1962 by Dr. Campbell who emphasised the consistent purity of the limestone.

In 1969, Dr. Fawley directed additional surface sampling and five X-ray holes were drilled to depths of 40 to 300 feet.

In 1983, control of the property was obtained by Laredo Limestone Ltd. In 1984, the reserves of limestone were re-assessed by Mr. Tribe who conducted a sampling and mapping program in and around the existing quarries for Laredo Limestone Ltd.

In November 1988, Laredo Limestone Ltd. staked two mineral claims: Laredo 1 and Laredo 2, comprising 32 units.

3. GEOLOGY

3.1 REGIONAL GEOLOGY

3.1.1 Lithology

Aristazabal Island is located at the western contact of the Mesozoic intrusive masses of the Coast Plutonic Complex and sediment dominated Paleozoic, and older, rocks of the Alexander Terrane.

Carbonate rocks within this area, are likely to be Silurian or older in age and are underlain by granitoid gneiss and overlain by mafic volcanics, now metamorphosed to amphibolitic gneiss (Roddick, 1970, Baer, 1972). Regionally, the occurrence of pure limestone units is extremely limited. Typically, carbonates are thinly interbedded with quartz rich and argillaceous sediments, and unlikely to form high quality limestone. The limestone of Aristazabal Island appears to be the exception to this general trend in that it is free from significant clastic sedimentary contaminants.

3.1.2 Structural Geology

A north by northwest structural grain is predominant within the project area. A northwest striking dextral fault, the Principe-Laredo Fault, projects through Laredo Channel and forms the dominant structural feature in this area. Strike relations of supracrustal rocks are subparallel to this structure, trending southeastward and dipping 30° to 50° southwesterly. Bedding attitudes are locally contorted due to the inherent ductility of the carbonate units and to the intensity of regional, upper greenschist - lower amphibolite, metamorphism. Tight isoclinal northwest trending folds are documented within sediments at the regional scale and are suggested to be the oldest deformation structures in the map area, (Roddick, 1970).

3.2 PROPERTY GEOLOGY

Three principle rock units are identified on the Laredo Limestone property, (Fig. 3). Most of the claim group is underlain by homogenous, white coarse grained limestone. This carbonate unit has the appearance of a limestone roof pendant bounded by intrusive rocks.

A pronounced west-northwest-trending drainage system into Quarry Bay defines a faulted diorite-limestone contact to the north. A second major drainage system on the property, located in the southeast corner, follows along another faulted intrusive-limestone contact. South of this drainage, moderately foliated hornblende granodiorite is abruptly juxtaposed against the Aristazabal Limestone, (Fig. 3). Contact relations on the western margins of the property are not as well defined. Approximately 2.5 kilometers west of the main (south) quarry, interdigitated granodiorite-limestone contacts predominate. The main granodiorite intrusive mass is likely to lie west of L10W.

3.2.1.1 Limestone

Much of the claim group is underlain by medium to coarse grained limestone. The rock weathers grey to buff but on the fresh surface is typically white, occasionally streaked with thin discontinuous grey interbeds. Grey limestone interbeds are estimated to comprise less than 10 percent of the volume of the Aristazabal Limestone.

The samples along the six traverse lines across the property indicate a general homogeneity and purity of the limestone that is a distinctive feature of this deposit. None of the specimens collected contain micas or phyllosilicates, calc-silicates or silica rich interbeds. Very limited sulphide contamination, less than 0.5% pyrite, may occur near the major intrusive contacts. Weakly disseminated pyrite was noted in the southeast corner of the map area. No evidence for widescale silica, alumina or iron contamination of this carbonate unit has been found.

3.2.1.2 Diorite-Diabase Dykes

Local, fine grained mafic dykes occur within limited areas of the limestone unit. Contact relations suggest more than a single stage of dyke emplacement. Volumetrically, these intrusive units are generally not significant. A shoreline traverse between the north and south limestone quarries indicates that mafic dykes account for approximately 4 percent of the total rock volume. This compares closely to the estimate from previous diamond drilling on the property (Fawley, 1969).

Dykes, generally less than 5.0 meters in true thickness, display well developed chilled contacts and are preferentially orientated subparallel to the bedding. A subordinate dyke set locally truncates both bedding and older dykes at high angles. These intrusive bodies are locally boudinaged and deformed into tight southwest-plunging fold structures.

3.2.1.3 Granodiorite

Moderately foliated hornblende granodiorite forms the dominant rock unit on the extreme southern and western portions of the map area. Planar fabric development is relatively weak and foliation measurements are difficult to obtain. This medium crystalline intrusive appears to be generally homogeneous, does not show widespread quartz veining and lacks significant sulphide or oxide development. Granodiorite exposures occur most commonly on selected topographic highs in the western portions of the property.

3.2.2 Structural Geology

Within the boundaries of the property only general trends have been identified by the mapping completed to date. The massive nature of the limestone precludes an accurate determination of the attitude of the limestone with existing data.

4. 1989 FIELD WORK

During 1989 two programs of exploration work were completed on the Laredo claims. An initial reconnaissance surface sampling, mapping and linecutting program was completed in January, 1989. A follow-up program of diamond drilling and detailed surface sampling was completed in the spring.

4.1 JANUARY PROGRAM

Between January 17 and 29, 1989, Dolmage Campbell Ltd. completed a reconnaissance mapping and surface sampling program in conjunction with preliminary linecutting. A total of 43 chip samples were collected and 5,100 kilometers of line were cut.

For this work access to the site and camp facilities were provided by using a 70 foot tug. All personnel travelled by air to Shearwater, B.C. where they boarded the tug. Due to high wind warnings, the tug was moored at Klantue for two days in transit.

All personnel were demobilized by air from Aristazabal Island.

4.2 SPRING PROGRAM

Between April 21 and May 19, 1989, Dolmage Campbell Ltd. supervised an exploration program of the Laredo property which consisted of linecutting, diamond drilling, core logging, surface sampling and geological mapping.

During this program, Drilcor completed eleven drill holes totalling 304.5 meters of drilling using a gas powered Winkie drill (Table I, Appendix I). Forty-six chip samples were obtained from these holes. (Appendix III).

A grid of cut lines totalling 5,800 meters was laid out to aid in surface sampling and mapping around the drill holes. A total of 60 chip samples were obtained from this phase of the work. (Appendix II).

The drill holes and sample lines were located and tied in to Swan Wooster survey monuments by means of a stadia traverse using a T1-A theodolite.

Due to the rugged bedrock microrelief on the property and the distance of the drill sites from Quarry Bay it was decided to mobilize a tent camp on or near the baseline.

All of the drilling equipment and camp gear was mobilized to the site via coastal freighter (Coastal Ferries) to Beale Bay and thence by helicopter (Vancouver Island Helicopters) to the campsite at 4+00 south on the baseline.

Support for the site was provided by helicopter from Bella Coola.

All personnel were mobilized to Bella Bella via Waglisla Airlines. From Bella Bella the linecutters and project geologist travelled to the site by helicopter. The drillers and camp cook travelled to the site by float plane (Beaver).

All personnel except the project geologist were demobilized by boat to the Waglisla Air Fish Camp, thence by Beaver to Shearwater and a scheduled run from Shearwater to Vancouver via Waglisla Airlines.

The project geologist completed a regional reconnaissance survey of Aristazabal Island (follow up report) with the helicopter and demobilized through Bella Coola via Wilderness Airlines to Vancouver.

All of the drilling equipment, supplies and camp gear were left on site for future work.

LAREDO LIMESTONE LTD.
RECORD OF COMPLETED DRILL HOLES

PROJECT: Aristazabal Island

DATE: April - May, 1989

Hole No.	DATA AT HOLE COLLAR				DIP TESTS			DATES		DRILLING LENGTHS (FT.)				REMARKS	
	Coordinates	DIP (deg.)	AZIM. (deg.)	Elevation Refer. Ground*	Depth (m.)	DIP (deg.)	AZIM. (deg.)	Start	End	Type	From	To	O.B.		B.R.
L-89-1	0.0N/0.0E	90	-	-	235'ASL	-	-	-	Apr.25-26	AX	0	100'	0	100'	Limestone.
L-89-2	0.0N/200E	90	-	-	215'	-	-	-	Apr.27-28	AX	0	100'	0	100'	Limestone.
L-89-3	0.0N-400E	90	-	-	200'	-	-	-	Apr.28-30	AX	0	100'	0	100'	Blocky Ground, lower 20'.
L-89-4	0.0N/600E	90	-	-	215'	-	-	-	30-May 2	AX	0	100'	0	100'	Limestone, some dikes.
L-89-5	0.0N/800E	90	-	-	230'	-	-	-	May 2-3	AX	0	101'	0	101'	Lower 60' dolomitic.
L-89-6	0.0N/1000E	90	-	-	220'	-	-	-	May 4-9	AX	0	100'	0	100'	Much waste, siltstone.
L-89-7	200S/1000E	90	-	-	250'	-	-	-	May 9-11	AX	0	100'	0	100'	Much waste, siltstone.
L-89-8	200S/800E	90	-	-	235'	-	-	-	May 11-12	AX	0	100'	0	100'	Many thin beds waste.
L-89-9	400S/800E	90	-	-	230'	-	-	-	May 13-14	AX	0	100'	0	100'	Interbedded limestone/ dolomitic.
L-89-10	600S/800E	90	-	-	255'	-	-	-	May 15	AX	0	17'	0	17'	Collared in lg. vert. dike.
L-89-10A	600S/800E	90	-	-	255'	-	-	-	May 16	AX	0	81'	0	81'	Interbedded limestone/ dolomite.

5. SAMPLING

5.1 SAMPLING PROCEDURES

During the course of the work standard methods were used to collect samples for analytical purposes.

Composite samples obtained during the January, 1989 sampling program were assembled by taking baseball-sized samples from freshly exposed bedrock at approximately 50 metre intervals over traverse lengths of 250 metres.

Composite detailed surface samples were collected in the spring of 1989 by chipping golf ball sized chips from outcrops at approximately 4 to 5 metre intervals along the sample line. These chips were taken only from limestone but unsampled intervals were noted in the sample log. (Appendix II). Unless otherwise specified, each composite sample was collected over 100 metres of sample line.

Samples were obtained from diamond drill core by taking approximately 1 cm long pieces of core every 10 to 15 cm for up to 7.5 metres of core length. Impure sections less than 0.3 m in length were included in the samples while most intrusive rocks were not. Details of these samples are given in Appendix II.

5.2 ANALYTICAL METHODS

All of the chip samples obtained from the surface and drill hole sampling programs were analyzed by whole rock geochemistry methods for eleven oxides including CaO and MgO and for loss on ignition.

Details of the analytical methods are given in Appendix IV.

6. RESULTS

The results of the analyses on the surface and drill core sampling programs are given in Appendix V. The estimated CaCO_3 content of each sample is given in Figures 2 to 6. These estimates are based upon calculations using atomic weights and the percentage CaO listed in Appendix V.

7.0 DISCUSSION

Based upon the reconnaissance program sampling a general trend in the CaCO₃ content can be defined. The analytical results indicate the existence of three major units trending parallel to measured bedding planes in a broad concave fold open to the northeast. These units strike nearly east-west at the southeasterly limit of the property and nearly north-south in the northwest corner of the property.

The most easterly unit underlying approximately half of the property consists of a high calcite limestone (95% CaCO₃). To the south and southwest of this unit the property is underlain by a thick unit of dolomitic limestone (80% to 90% CaCO₃) approximately 450 metres wide on surface. Sandwiched between the dolomitic limestone and the granodiorite in the extreme south-west and western limits of the property is a unit of limestone (90% to 95% CaCO₃).

The average characteristics of these major units are summarized in Table II.

TABLE II
ARISTAZABAL
AVERAGE CHARACTERISTICS OF MAJOR UNITS

<u>Unit</u>	CaCO ₃ (%)	*MgCO ₃ (%)	*CaCO ₃ (%)	*Eq. SiO ₂	INSOLUBLES	
					AlO ₂	Fe ₂ O ₃
High Ca Limestone		4.5	99.5	0.4	0.07	0.15
Dolomitic Limestone	80.0	18.0	98.0	0.2	0.02	0.22
Limestone	93.5	6.0	99.5	0.3	0.03	0.04

* Percentages of CaCO₃, MgCO₃ and CaCO₃ Equivalent are based upon molecular weight conversions from CaO and MgO to CaCO₃ and MgCO₃. This conversion assumes that all of the CaO and MgO are derived from carbonates. Hence the total percentages including the insolubles and other trace compounds may vary from 99.5% to 100.5%.

8.0 CONCLUSIONS

Assuming continuity of the carbonate beds with depth, the total potential quarryable tonnage of limestone available on the Laredo property is estimated to be in excess of one billion tons. High calcite limestone is estimated to comprise approximately 50% of this tonnage.

Detailed surface sampling and diamond drilling have defined two areas of high Ca limestone and limestone that are immediately available for quarrying. The first area, at sea level around the old quarry, defined by previous drilling and sampling, has been confirmed by results from the present sampling programs. Area 2 was investigated in detail by diamond drilling and surface sampling during the 1989 exploration program. The estimated limestone reserves within these areas are summarized in Table III.

TABLE III

(1) ESTIMATED LIMESTONE RESERVES

Area	Elevation	Class	High Ca	Limestone	Total
			Limestone	Limestone	Total
			Tonnes	Tonnes	Tonnes
			(x10 ⁶)	(x10 ⁶)	(x10 ⁶)
1	20m	Proven ⁽²⁾	8.00	1.50	9.50
2	80m	Proven	2.25	3.00	5.25
Total Proven Reserves			10.25	4.50	14.75
1	20m	Probable ⁽³⁾	8.00	2.00	10.00
2	80m	Probable	17.25	18.75	36.00
Total Probable Reserves			25.25	20.75	46.00
Total Proven and Probable Reserves			35.50	25.25	60.75

- (1) Reserves estimated for Areas 1 and 2 are within the depth of present investigations, 30 metres from surface.
- (2) Proven ore is defined by detailed surface sampling and/or diamond drill samples to a maximum of 100 metres from the sample with a 95% degree of confidence in grade and tonnage.
- (3) Probable ore is defined by reconnaissance samples on the same trend as proven ore and areas between blocks of proven ore on the same trend. Probable ore is estimated with a 65% degree of confidence in grade and tonnage.


9.0 COSTS

The total cost of exploration completed on the Laredo property during 1989 was \$111,164.67. A breakdown of these costs is summarized in Table IV and a detailed breakdown is given in Appendix VI.

TABLE IV
Summary of Costs

<u>Description</u>	<u>January program</u>	<u>April-May</u>	<u>Total</u>
Planning	\$ 1,000.00	\$ 2,650.00	\$ 3,650.00
Mobilization	-	3,000.00	3,000.00
Mapping & Supervision	5,000.00	10,000.00	15,000.00
Diamond Drilling	-	34,484.68	34,484.68
Line Cutting/Labourers	6,200.00	12,000.00	18,200.00
Analytical Costs	1,032.00	2,594.25	3,626.25
Helicopter Support	-	13,124.50	13,124.50
Field Supplies	338.71	-	338.71
Camp Costs	6,000.00	-	6,000.00
Groceries	192.05	1,135.80	1,327.85
Travel Expenses	2,403.63	2,968.72	5,372.35
Freight, communications	-	263.53	263.53
Report Preparation	<u>3,615.68</u>	<u>3,161.12</u>	<u>6,776.80</u>
Total	\$ 25,782.07 =====	\$ 85,382.60 =====	\$111,164.67 =====

Respectfully submitted,
DOLMAGE CAMPBELL LTD.


Joe Rotzien, P.Eng.



10.0 REFERENCES

Baer, A.J. (1972): Bella Coola-Laredo Sound Map Area, British Columbia; Map 1328A, 1:250,000, Geological Survey of Canada, Memoir 372.

Campbell, D.D. (1962) Report on Aristazabal Island Limestone, Hecate Strait, B.C.

De Carlo, M. (1988), Letter report to Laredo Resources Ltd.

Fawley, Dr. A.P. (1988), Letter report to Laredo Resources Ltd.

Fawley, Dr. A.P. (1960) Aristazabal Island Limestone Deposit, British Columbia of Laredo Limestone Ltd.

11.0 STATEMENT OF QUALIFICATIONS

J.L. ROTZIEN

I, J.L. Rotzien of Coquitlam, B.C. hereby certify that:


1. I received a Bachelor of Applied Science degree from the University of British Columbia in 1972.

2. I have been practising my profession as a consulting geological engineer since 1974.

3. I am a member of the Association of Professional Engineers of British Columbia.

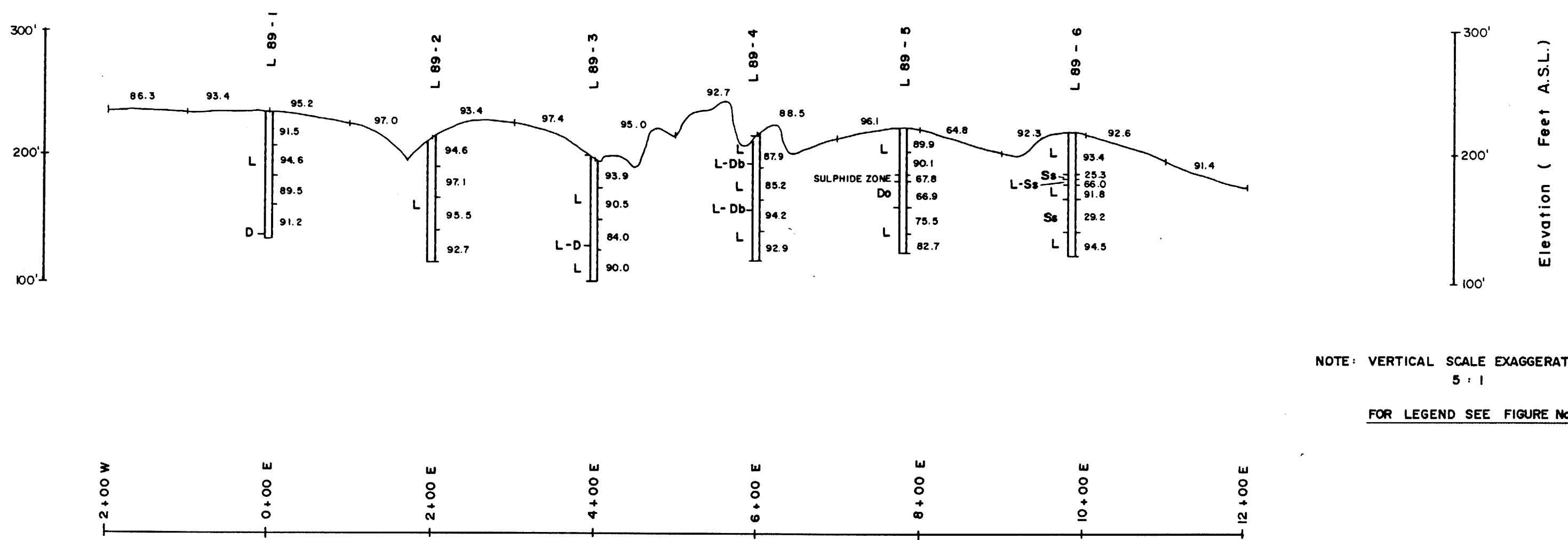
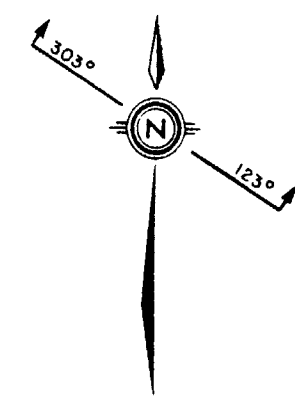
4. I indirectly supervised the field sampling and mapping program and reviewed the analyses of the marble samples and completed the marble reserve estimate.

5. I own no direct, indirect or contingent interest in any of the subject property nor any shares or securities of Laredo Limestone Ltd., nor do I expect to receive any.

The image shows a handwritten signature in cursive that reads "J.L. Rotzien". To the right of the signature is a circular seal. The seal has a double-line border. The outer ring contains the text "PROFESSIONAL ENGINEERS" at the top and "PROVINCE OF BRITISH COLUMBIA" at the bottom. In the center of the seal, the name "J.L. ROTZIEN" is printed in a bold, sans-serif font, with "P.Eng." printed below it.

J.L. Rotzien, P.Eng.

Dated at Vancouver this 15th day of December, 1989



NOTE: VERTICAL SCALE EXAGGERATED
5 : 1

FOR LEGEND SEE FIGURE No. 2

2+00 W 0+00 E 2+00 E 4+00 E 6+00 E 8+00 E 10+00 E 12+00 E

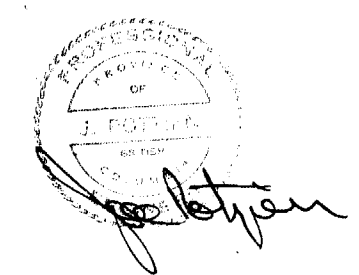
To accompany a report by Dolmage Campbell Ltd., June, 1989

DOLMAGE CAMPBELL LTD.
CONSULTING ENGINEERS, VANCOUVER, CANADA

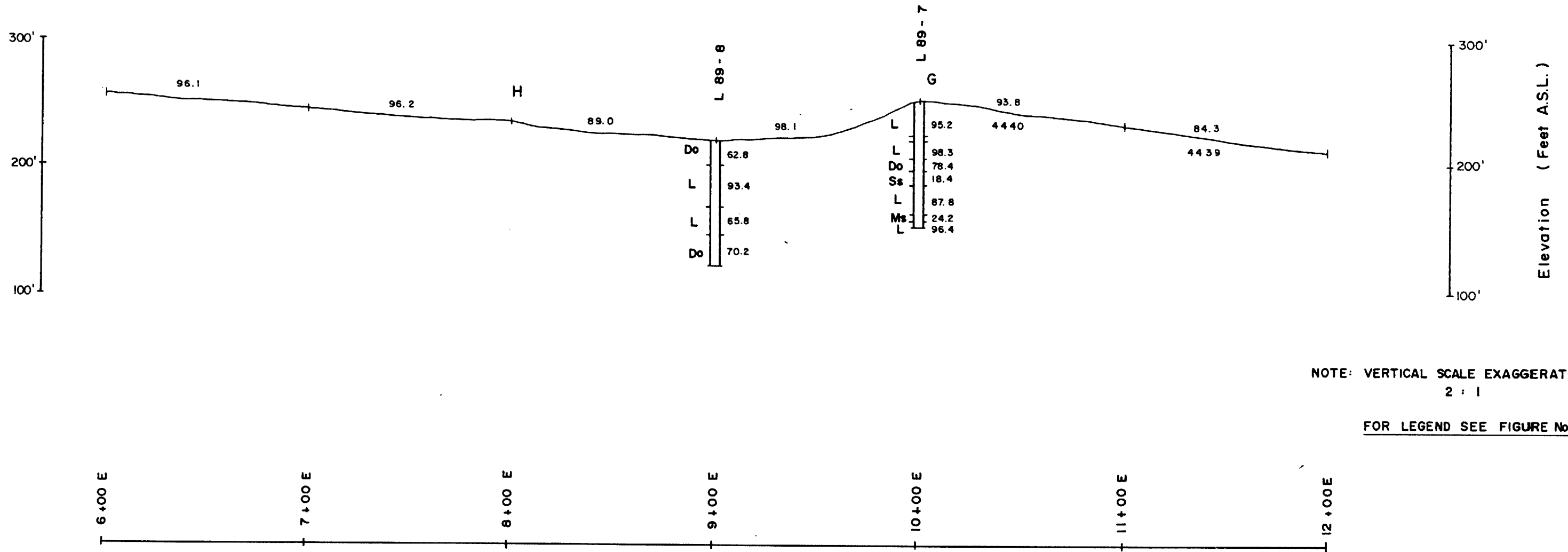
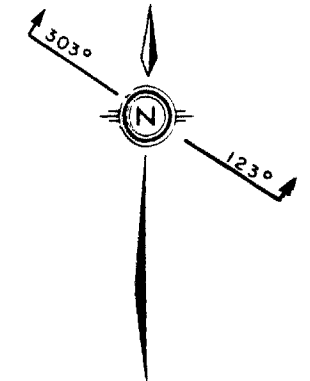
LAREDO LIMESTONE LTD.

**ARISTAZABAL ISLAND
PROPERTY**

**SECTION A - A'
BASELINE 0+00 NORTH**




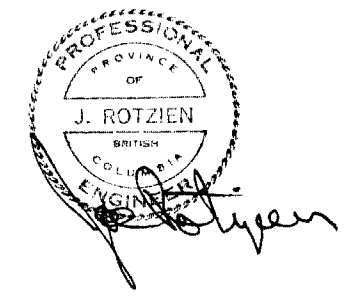
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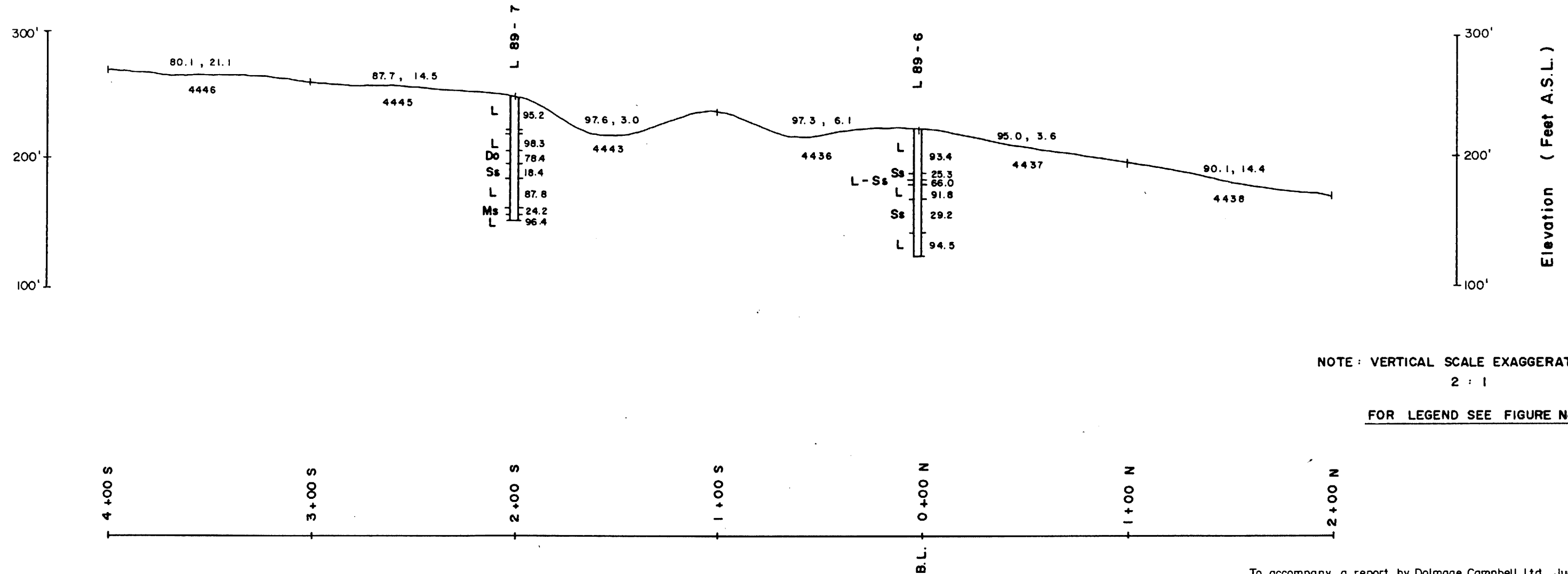
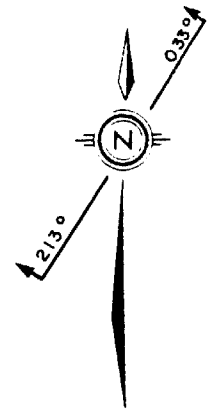


6+00 E 7+00 E 8+00 E 9+00 E 10+00 E 11+00 E 12+00 E

To accompany a report by Dalmage Campbell Ltd., June, 1989

 DOLMAGE CAMPBELL LTD. CONSULTING ENGINEERS, VANCOUVER, CANADA	
LAREDO LIMESTONE LTD.	
ARISTAZABAL ISLAND PROPERTY	
SECTION B - B' LINE 2+00 SOUTH	
SCALE HOR. 1: 2000 VER. 1: 1000	FIGURE No. 5

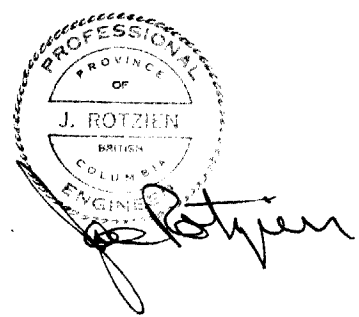




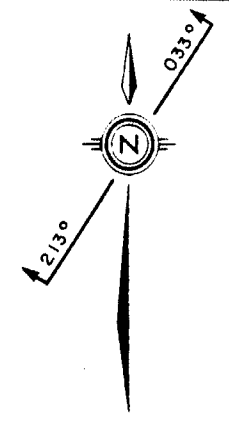
NOTE: VERTICAL SCALE EXAGGERATED
2 : 1
FOR LEGEND SEE FIGURE No. 2

To accompany a report by Dolmage Campbell Ltd, June, 1989

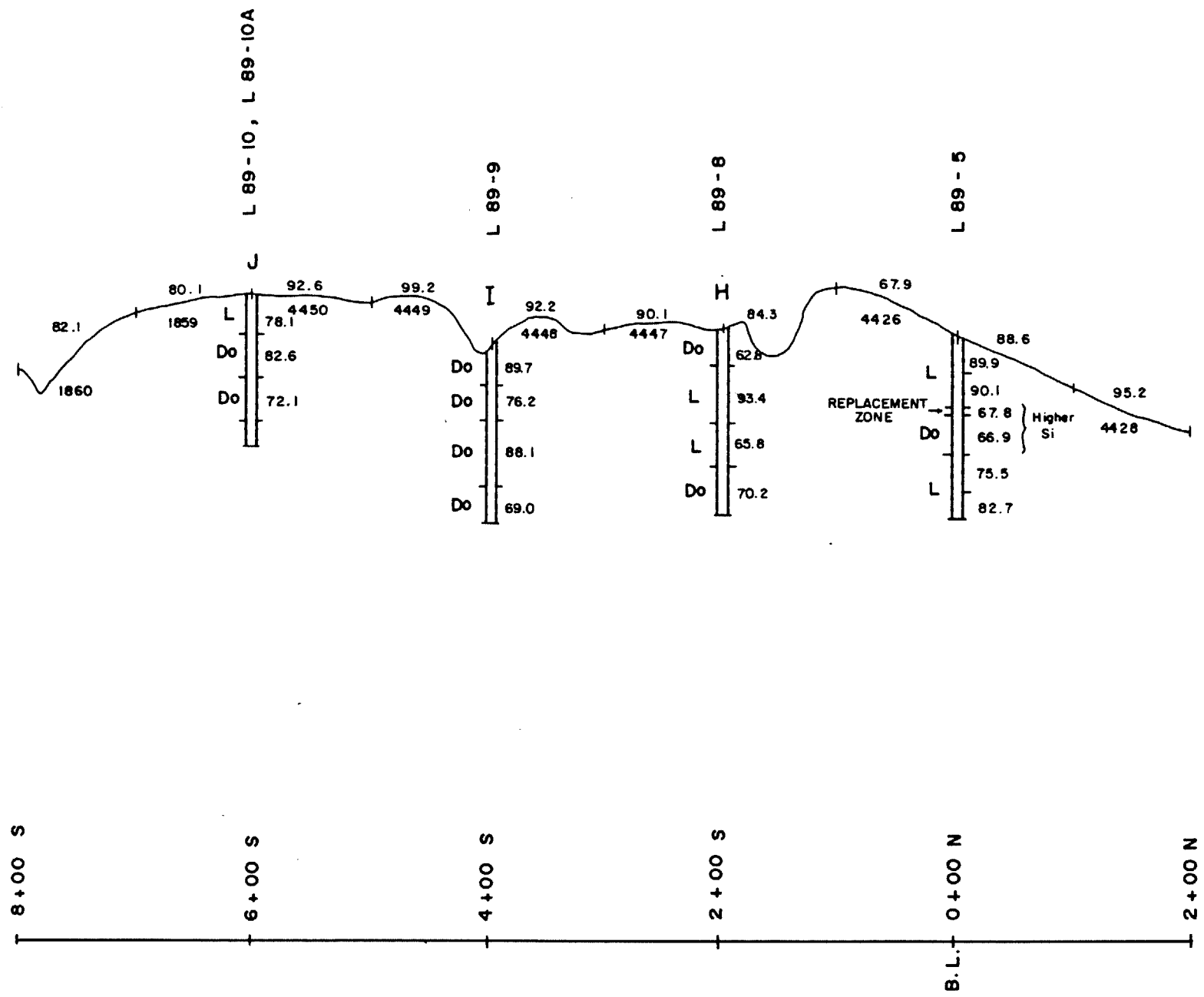
DOLMAGE CAMPBELL LTD. CONSULTING ENGINEERS, VANCOUVER, CANADA
LAREDO LIMESTONE LTD.
ARISTAZABAL ISLAND PROPERTY
SECTION C-C' LINE 10+00 EAST



SCALE: HOR. 1 : 2000 VER. 1 : 1000	FIGURE No. 6
---------------------------------------	---------------------



300'
200'
100'

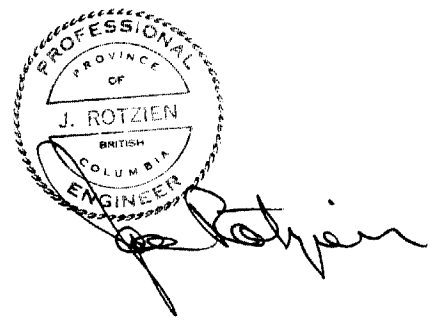


300'
200'
100'


Elevation (Feet A.S.L.)

NOTE : VERTICAL SCALE EXAGGERATED
5 : 1

FOR LEGEND SEE FIGURE No. 2



To accompany a report by Dolmage Campbell Ltd, June, 1989

 DOLMAGE CAMPBELL LTD. CONSULTING ENGINEERS, VANCOUVER, CANADA	
LAREDO LIMESTONE LTD.	
ARISTAZABAL ISLAND PROPERTY	
SECTION D - D' LINE 8+00 EAST	
SCALE	HOR. 1 : 5000 VER. 1 : 1000
FIGURE No.	7

APPENDIX I
DIAMOND DRILL CORE LOGS

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. <u>B.L.</u>			Hole No. <u>L-89-1</u>
<u>0.0 mE</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>April 27, 1989</u>
Elev. <u>235' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. M^CIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CCRE LOSS (ft)		
FROM	TO			FROM	TO	LOSS
Note: Lost Water return, 0.6'						
0	0.6	Limestone	White, coarsely crystalline	0	0.6	-
0.6	1.2	Void		0.6	3.0	0.6
1.2	24.5	Limestone	White to sparry. Completely recrystallized. Zoned approx. 40% white and massive, 60% of coarsely (0.3 - 1.0 cm) crystalline appears greyer due to transparency of the large crystals. Occasional rusty fracture surfaces. Irregular blotch 20.0 - 20.4' contains pale greenish-grey fine crystals (dolomite?) to about 25%; also about 1% very fine, rusty, disseminated pyrite. No bedding indications.	3.0	4.0	-
24.5	39.0	Limestone	Similar to above, mainly white and massive. Contains occasional med. grey blotches and irregular laminae which include very fine dark crystals and occasional very fine disseminated pyrite.	4.0	7.0	0.2
39.0	60.5	Limestone	Similar to 1.2 - 24.5' above. Mainly white, coarsely crystalline. At 48.6 - 50.0' some core ground, pale buff calcareous mud on fracture surfaces; no shearing visible. Rarely very fine grained disseminated pyrite.	7.0	12.0	-
60.5	96.4	Limestone	Similar to 24.5 - 39.0' above. Includes light grey, fine grained marble 63.8 - 66.3', 86.6 - 87.9', 89.0 - 91.1', 93.4 - 94.1'. Lower 2.3' mottled light to medium grey. Minor very fine grained pyrite in narrow bands 60 - 80° to core axis 65.2', 68.2', 74.0', 77.3', 88.8', 89.2', 89.3', 91.2', 92.3', 94.4'.	12.0	17.0	-
96.4	96.5	Diorite	Dark grey, fine grained, very thin chill margins. Traces of disseminated pyrite. Some chlorite alteration, non-calcareous.	17.0	22.0	-
				22.0	25.0	-
				25.0	30.0	-
				30.0	35.0	-
				35.0	40.0	-
				40.0	43.0	-
				43.0	47.0	-
				47.0	50.0	0.1
				50.0	55.0	-
				55.0	60.0	-
				60.0	65.0	-
				65.0	69.0	-
				69.0	74.0	-
				74.0	79.0	-
				79.0	84.0	-
				84.0	89.0	-
				89.0	94.0	-
				94.0	97.0	-
				97.0	100.0	-

E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-1

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
96.5	100.0	Limestone	Same as 24.5 - 39.0' above, 3 mm veinlet at 99.5', calcite margins and very soft (H=1), pale grey non-calcareous core.

End of Hole

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 1

Coord. <u>B.L.</u>				Hole No. <u>L-89-2</u>
<u>200 mE</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>April 29, 1989</u>	
Elev. <u>215' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. McIntyre</u>	
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____		

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft.)		
FROM	TO			FROM	TO	LOSS
			Note: Lost Water return, 1.3'			
0	1.3	Limestone	White, coarsely crystalline	0	2	0.5
1.3	1.8		Void	2	3	-
				3	5	-
1.8	10	Limestone	White, coarsely crystalline. Lost 0.6' in blocky ground. Often rusty on fracture surfaces. Rusty zone 1.8' - 1.9'.	5	8	0.3
				8	10	0.3
10	53.7	Limestone	White to sparry, coarsely crystalline. Occasional massive white to light grey intervals, especially 10 - 20'. Very fine grained pyrite in narrow zones 60-80° to core axis 23.4 - 23.7', 24.2', 25.8 - 25.9', 27.1', 43.1' and on occasional fracture surfaces. Total pyrite content very low except 1 - 2% at 25.8 - 25.9'. Dolomitic sections 24.1 - 24.4', 25.8 - 25.9'.	10	15	-
				15	20	-
				20	25	-
				25	30	-
				30	35	-
				35	40	-
				40	45	-
				45	50	-
43.7	86.5	Limestone	Similar to above but few coarse intervals. Commonly massive to marbly, white to pale grey with occasional medium grey features. Traces of pyrite and pyrrhotite 60.2', 64.2', 72.8', 74.5', 78.6', 84.8'. Pyrite associated with darker markings. Also extremely fine, black mineral on some fracture surfaces e.g. 62.0'. Unusual soft white mineral (fibrous aggregate?) on fracture surface 58.5' is flexible while damp.	50	55	-
				55	60	-
				60	65	-
				65	70	-
				70	75	-
				75	80	-
				80	85	-
				85	90	-
86.5	89.0	Limestone	Light grey, medium to fine grained, sugary textured. Dolomitic-reacts much less strongly to acid. Minor very fine grained pyrite throughout.	90	95	-
				95	100	0.8
						E.O.H.
89.0	100.0	Limestone	White to light grey, coarsely crystalline. Traces of pyrite 94.9', 96.0', 96.8'. Similar to 10 - 43.7' above.			
			End of Hole			

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. <u>B.L.</u>			Hole No. <u>L-89-3</u>
<u>400 mE</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>April 30, 1989</u>
Elev. <u>200' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. McIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft.)		
FROM	TO			FROM	TO	LOSS
Note: Lost Water return, 2.0'						
0	26.2	Limestone	White to light grey, variable texture, coarse grained to massive, often splotched light-medium grey. Some rust on fractures to 5'. Minor very fine grained pyrite, heavier at 22.0 - 22.8'.	0	2	0.4
				2	4	1.7
				4	5	-
				5	10	-
26.2	26.6	Sulfide Zone	Grey marble with up to 5% sulphides. Mainly pyrite, possible pyrrhotite, trace of chalcopyrite. Black and brown platy minerals may be biotite-phlogopite. Some silicification.	10	15	-
				15	20	-
				20	25	-
				25	30	-
26.6	39.0	Limestone	Same as 0-26.2' above except some light brown zones. Pyritiferous as 26.2 - 26.6' above at 28.9', traces 33.6', 34.6', 38.0'.	30	35	-
				35	40	-
				40	45	-
39.0	56.7	Limestone	Mainly white, massive. Some coarser intervals, some light grey marbly bands. Minor pyrite rarely throughout. Dolomitic 50.9 - 51.3', 54.5 - 54.8'.	45	50	-
				50	55	-
				55	60	-
56.7	70.9	Limestone	White to light grey, coarsely crystalline. Some coarsely brecciated sections. Minor sulphides 58.0', 59.0', 66.6'. Heavier sulphides 58.6 - 58.7', 67.0 - 67.5'. Dolomitic 67.0 - 67.5'.	60	65	-
				65	70	-
				70	75	-
				75	80	-
70.9	72.0	Quartz Diorite	Light grey-green. No discernible K-feldspar. Non-calcareous. Medium to fine grained. Mafics heavily chloritized. Less than 1% of pyrrhotite and pyrite disseminated throughout. No distinct chill margins.	80	85	-
				90	95	-
				95	100	-
72.0	93.8	Limestone	White to pale grey. Variable, massive to coarse grained as 0 - 26.2' above. Traces pyrite 77.2'.			E.O.H.
93.8	94.2	Quartz Diorite	Fine to very fine grained, otherwise like 70.9 - 72.0' above. Both margins sharp, core coarser. About 0.5 - 1.0 cm very soft (H=1) translucent material on both margins: Non calcareous, non-crystalline, apparently an alteration selvage.			

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-3

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
94.2	100.0	Limestone	White to pale grey, same as 72.0 - 93.8' above.

End of Hole

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. <u>B.L.</u>			Hole No. <u>L-89-4</u>
<u>600 mE</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>May 3, 1989</u>
Elev. <u>200' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. McIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft)		
FROM	TO			FROM	TO	LOS
			Note: Lost Water return, 1.5'			
0	11.7	Limestone	White to light grey, usually very fine grained, often banded light to medium grey. Void 1.5 - 3.6'. Occasional minor pyrite. About 25% of section is dolomitic.	0	5	2.1
11.7	12.6	Diabase Dike	Very fine grained, black, distinct chill margins and altered adjacent wall rock.	5	10	-
12.6	23.2	Limestone	Same as 0 - 11.7' above. Some sections pale grey, coarse grained. Occasional rust on fracture surfaces. Some dolomitic sections.	10	15	-
23.2	23.8	Diabase Dike	Same as 11.7 - 12.6' above. Traces of pyrite. Broken in drilling.	15	20	-
23.8	45	Limestone	Same as 0 - 11.7' above. Mainly light grey, fine grained about 25% of section is dolomitic. Occasional coarse intervals. Occasional minor pyrite.	20	25	0.1
45	58.8	Limestone	White to pale grey, coarsely crystalline. No dolomitic intervals. Occasional minor pyrite, especially 58.0', 58.4'.	25	30	0.1
58.8	62.1	Diabase-Replacement Zone	Fine grained, dark grey dike. About 5% fine grained pyrite throughout. Locally coarse pyrite, especially near margins and along some fractures shows replacement of limestone. Possible minor silicification near margins. Includes 0.2' limestone with coarse pyrite 60.4 - 60.6'. During drilling this zone swelled and pinched the rods.	30	35	0.1
62.1	88.0	Limestone	Same as 23.8 - 45' above. Lower 8' more heavily banded. Few dolomitic intervals. Minor pyrite 65.4', 78.1'. Some coarse sections. Banding about 60° to core axis.	35	40	-
88.0	95	Limestone	Light grey, coarsely crystalline. Minor pyrite 89.8', 90.7', 90.8', 91.0', 91.2'.	40	45	-
				45	50	-
				50	55	-
				55	60	-
				60	65	0.1
				65	70	0.2
				70	75	0.1
				75	80	0.1
				80	85	-
				85	90	-
				90	95	-
				95	100	1.8
						E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-4

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
95	100	Xenolithic Breccia	Light grey, fine grained diorite intruding dark grey-black very fine grained diabase. Minor disseminated pyrite throughout. 96.1 - 98.1' lost 1.8', only 0.2' grey limestone recovered. Note: significant chlorite alteration 95 - 99'.

End of Hole

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 1

Coord. B.L.	<u>800 mE</u>	Length <u>101'</u>	Project <u>Laredo Limestone Ltd.</u>	Hole No. <u>L-89-5</u>
Elev. <u>230' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Date <u>May 3, 1989</u>	Logged by <u>R.F. McIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____		

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft.)		
FROM	TO			FROM	TO	LOST
Note: Had water return for entire hole.						
0	40.4	Limestone	White to pale grey, usually massive, very little marbly texture. Minor pyrite occasional in bands about 40° to core axis or disseminated. No dolomitic sections.	0	5	0.3
				5	10	0.2
				10	15	-
				15	20	-
40.4	43.3	Replacement Zone	Grey, sulphide enriched, calcareous. Roughly banded. Includes diabase 41.0 - 41.1'. Mainly pyrrhotite (2-3% over 3') with less than 1% pyrite.	20	25	-
				25	30	-
				30	35	-
				35	40	-
43.3	85.7	Dolomitic Limestone	Light grey, medium to fine grained. Some sections react strongly with acid but + 60% is dolomitic, has characteristic mottled appearance due to white dolomite crystals on pale grey calcite background. Minor pyrite visible, heavier in dolomitic intervals. Some banding, usually 60 - 85° to core axis.	40	45	-
				45	50	-
				50	55	-
				55	60	-
				60	65	-
				65	70	-
85.7	97.7	Limestone	White to light grey, coarsely crystalline. Includes some massive intervals. Pyrite rare.	70	75	0.2
				75	80	-
				80	85	-
97.7	99.6	Dolomitic Limestone	Same as 43.3 - 85.7' above.	85	90	-
				90	95	0.1
99.6	99.8	Diabase	Very fine grained, dark grey to black. Altered wall rock approx. 3/4" on both margins.	95	101	-
99.8	101	Dolomitic Limestone	Same as 43.3 - 85.7' above.			

E.O.H.

End of Hole

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. B.L.	1000 mE	Length 100'	Project Laredo Limestone Ltd.	Hole No. L-89-6
Elev. 220' ASL		Azimuth	Location Aristazabal Island, B.C.	Date May 9, 1989
Size AX		Dip 90°	Purpose	Logged by R.F. McIntyre

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft)		
FROM	TO			FROM	TO	LOS
Note: Had water return for entire hole.						
0	35.8	Limestone	Light grey to white, mainly coarsely crystalline. Top 11' blocky drilling. Includes 0.3' brown, fine grained siltstone 8.0 - 8.3', 65° to core axis. (siderite?) Minor pyrite bands 60-70° to core axis - 0.8', 4.2', 5.9', 21.4', 18.4', 30.3', 33.7', 34.7'. No visible dolomite.	0	5	0.2
				5	10	0.2
				10	15	0.1
				15	20	0.3
35.8	38.6	Siltstone	Medium to dark grey, very fine grained, slightly calcareous. Internal structure somewhat chaotic. Contacts pyritized, 65° to core axis. Pyrite replacement zone at 37.8'. Very fine grained pyrrhotite 0.5 - 5% throughout - this corresponds to the "rusty metasediments" found in outcrop.	20	25	0.2
				25	30	0.2
				30	35	-
				35	40	0.5
				40	45	0.1
				45	50	0.1
				50	55	-
38.6	43.2	Limestone and Siltstone	Irregular beds and lumps of siltstone in coarse marble. Possible slump breccia. Bedding 60 - 85° to core axis. Lower 0.8' is a replacement zone with pyrite, pyrrhotite and large amounts of a very soft (H=1-2), black, amorphous mineral (Cuprite or Argentite?) Fine to very fine pyrite and pyrrhotite to several percent, sulphides showing strong affinity for clastic sections	55	60	-
				60	65	-
				65	70	-
				70	75	-
				75	80	-
				80	85	-
				85	90	-
43.2	52.7	Limestone	Same as 0 - 35.8' above. Some coarse calcite crystals to +2 cm. Occasional minor pyrite.	90	95	-
				95	100	-
52.7	79.1	Siltstone	Dark greenish grey, fine grained. Some sections slightly calcareous, also occasional irregular limestone inclusions and bed 68.4 - 69.5'. Heavily altered. Internal texture variable, no original sedimentary structures. Lower (69.5 - 79.1') bed somewhat more heavily altered than upper. Hard and siliceous. Lower sections show light foliation 50 - 60° to core axis. Secondary hornblende common throughout - rock could be called a greenstone. Very fine, disseminated pyrrhotite 1.5%			E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-6

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
			throughout. Pyrite much less common, usually on fracture surfaces. Sphalerite(?) in zones, often with calcite, 55.3', 55.4', 55.7', 61.6', 61.7', 62.0'.
79.1	100.0	Limestone	White to light grey, coarsely crystalline, similar to 0 - 35.8' above. Top 0.4' grey, bedded, impure with "salt and pepper" appearance near contact with siltstone. Next 4' fairly massive, some coarse sections. Occasional minor pyrite and pyrrhotite in faint bands, mostly in top 10'. Bed 96.0 - 96.1' of silty limestone 60° to core axis, about 10 - 15% pyrrhotite with minor pyrite.

End of Hole

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. <u>L.1000mE</u>			Hole No. <u>L-89-7</u>
<u>/200 mS</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>May 11, 1989</u>
Elev. <u>250' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. McIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (%)		
FROM	TO			FROM	TO	LO
0	28.7	Limestone	Variable. White, massive to light grey, coarsely crystalline. Occasional minor pyrrhotite and pyrite. Minor dolomite in some finer grained sections.	0	5	0
28.7	30.2	Feldspar Porphyry	Medium to fine subhedral plagioclase in block, very fine groundmass. Moderately hard, non-calcareous, not silicified. Possible chilled margins, texture obscured by marginal alteration and pyritization. Minor pyrite on fracture surfaces and very finely disseminated. Attitude approx. 55 - 60° to core axis.	5	10	0
30.2	44.7	Limestone	Mainly light grey, coarsely crystalline. Occasional short, massive intervals. Minor pyrrhotite and pyrite in bands 45 - 60° to core axis 31.5', 35.4', 35.5', 35.7', 36.9', 37.6', 38.3', 39.9', 44.2'. Not dolomitic.	10	15	-
44.7	54.5	Dolomitic Limestone	Medium grey, fine grained, sugary texture. Includes intervals of white to light grey, non-dolomitic limestone - approximately 40% of section. Occasional minor pyrite and pyrrhotite. Bedding in dolomitic sections 60° to core axis.	15	20	-
54.5	65.6	Siltstone	Highly altered bed of metal - sedimentary rock. Upper contact 65° to core axis. Lower contact sheared and altered, 30° to core axis. Mainly dark grey. Lower 1.5' and some fractures altered to light greenish grey and silicified. Some portions slightly calcareous. Minor pyrite visible on fractures throughout. Minor coarse pyrrhotite on lower contact.	20	25	-
65.6	89.2	Limestone	Variable. Light grey to white, coarse and fine. Includes dolomitic sections, about 20% of total. Finer sections banded, 55 - 65° to core axis, bands often include minor pyrrhotite and pyrite. Some fractures coated with soft, non-calcareous, white to pale blue	25	30	-
				30	35	-
				35	40	-
				40	45	-
				45	50	-
				50	55	-
				55	60	-
				60	65	-
				65	70	-
				70	75	-
				75	80	-
				80	85	-
				85	90	-
				90	95	-
				95	100	-
						E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-7

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
			mineral, flexible when wet.
89.2	96.0	Siltstone(?)	Origin uncertain, heavily altered, probably metamorphosed siltstone or shale. Greenish black, hard, some silicification. Secondary alteration near fractures. Very heavily altered near both margins with veinlets of soft, green talc-like mineral, heavy pyrrhotite and traces of chalcopyrite. Pyrrhotite visible in heaviest alteration zones, usually with quartz. Minor pyrite on fracture surfaces.
96.0	100.0	Limestone	Same as 65.6 - 89.2' above. Little dolomite.
			End of Hole.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

Coord. L. 800E/
200 S
 Elev. 235' ASL
 Size AX

Length 100'
 Azimuth _____
 Dip 90°

Project Laredo Limestone Ltd.
 Location Aristazabal Island, B.C.
 Purpose _____

Hole No. L-89-8
 Date May 14, 1989
 Logged by R.F. McIntyre

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft)		
FROM	TO			FROM	TO	LOS
0	6.6	Dolomitic Limestone	White, mainly dolomitic medium grained. Some rust visible throughout. Lowest 0.1' bedded with black altered shale, 55° to core axis.	0	5	0.5
6.6	8.9	Meta-sediments	Very heavily altered with pyrrhotite and pyrite visible throughout. Fine grained, hard, slightly calcareous, dark grey to dark grey-green. Upper contact 60° to core axis.	5	10	-
8.9	12.9	Dolomitic Limestone	Same as 0 - 6.6' above. White to light grey. At 12.6' includes minor pyrrhotite and dark green-black secondary mineral.	10	15	0.5
12.9	14.6	Meta-sediments	Same as 6.6 - 8.9' above. Lost 0.5' of core. Badly broken in drilling.	15	20	-
14.6	18.4	Limestone	White to light grey, fine grained. Some dolomitic marble. Pyrrhotite in band at 17.1'.	20	25	-
18.4	18.9	Dike?	Medium grey fine grained, hard, very siliceous. Altered - original crystalline texture virtually gone. Original composition possibly dacite, possibly sandstone.	25	30	0.5
18.9	51.4	Limestone	Light grey to white, mainly coarsely crystalline. Includes dolomitic limestone 41.7 - 42.9'. Pale bluish-white, non-calcareous, very soft mineral on fracture surfaces 22 - 29'. Traces of pyrrhotite and pyrite.	30	35	-
51.4	55.4	Meta-sediments	Very heavily altered, grey to brownish-grey to greenish grey. Similar to 6.6 - 8.9' above. Pyrrhotite and pyrite common throughout. Upper contact 85° to core axis, lower contact 40° to core axis.	35	40	-
55.4	65.2	Limestone	Mainly light grey, fine grained. Some dolomitic sections. Includes gneissic limestone 55.8 - 56.1'. Occasional minor pyrrhotite and pyrite. Vague bedding approximately 60° to core axis.	40	45	-
65.2	67.3	Gneissic Limestone	White calcite with soft, dark mineral. Foliation 45-60° to	45	50	-
				50	55	-
				55	60	-
				60	65	-
				65	70	-
				70	75	-
				75	80	-
				80	85	-
				85	90	-
				90	95	-
				95	100	-
						E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-8

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
67.3	69.2	Limestone	White to light grey, non-dolomitic.
69.2	69.4	Meta-sediments	Same as 51.4 - 55.4' above.
69.4	72.0	Limestone	Same as 67.3 - 69.2' above.
72.0	74.6	Meta-sediments	Same as 51.4 - 55.4' above. Soft, black mineral, probably same as in gneissic marble, about 10 - 15% of rock near upper contact.
74.6	81.3	Limestone	White to light grey, coarsely crystalline. Some impurity 79.8'.
81.3	82.0	Calcareous Dolomite	Light grey, medium grained, some calcite present. Granular texture.
82.0	82.8	Dike?	Same as 18.4 - 18.9' above. Soft, talc-like mineral on both margins. Fine grained, light grey, heavily altered.
82.8	83.3	Calcareous Dolomite	Same as 81.3 - 82.0' above.
83.3	88.6	Limestone	Light grey, coarsely crystalline.
88.6	88.9	Dike?	Same as 82.0 - 82.8' above. Heavily altered.
88.9	91.6	Limestone	Light grey, coarsely crystalline.
91.6	94.2	Dike?	Fine grained, light-medium grey, heavily altered. May be of sedimentary origin - possible bedding 60 - 65° to core axis. Green alteration products similar to those of meta-sediments, may have been quartz-rich sandstone, or heavily altered acidic intrusive. Occasional pyrrhotite and pyrite visible throughout.
94.2	100.0	Calcareous Dolomite	Medium grained, light grey to white, granular texture. Some calcite present. Occasional minor pyrrhotite and pyrite. Upper 0.4' more calcareous.

End of Hole.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

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Coord.L. <u>800mE</u>			Hole No. <u>L-89-9</u>
<u>/400mS</u>	Length <u>100'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>May 14, 1989</u>
Elev. <u>230' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. MCIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft)		
FROM	TO			FROM	TO	LC
0	13.0	Limestone	Light grey to white, mainly coarsely crystalline. Some vague banding approx. 60° to core axis. Non-dolomitic. No visible sulphides.	0	5	-
13.0	14.4	Dolomitic Limestone	Light grey, medium grained. Includes some more calcareous intervals.	5	10	-
14.4	26.4	Limestone	Variable light grey to white, mainly coarsely crystalline with some fine, massive intervals, occasional dolomitic zones. Includes 20.95 - 21.00' siliceous band 50° to core axis - possible altered acid dike or thin sandstone bed.	10	15	0.
26.4	28.3	Dolomitic Limestone	Grey to white, medium grained, granular texture. Includes some calcareous zones.	15	20	-
28.3	37.8	Limestone	White to light grey, mainly medium to fine grained, often massive. Includes some dolomitic zones.	20	25	-
37.8	46.0	Dolomitic Limestone	Same as 26.4 - 28.3' above. Some sections 1 - 2% pyrrhotite with minor pyrite. Includes some calcareous zones.	25	30	-
46.0	51.9	Limestone	Grey and white, often mottled, usually coarsely crystalline. Includes some dolomitic limestone.	30	35	-
51.9	64.8	Limestone	Variable coarse to fine grained, medium grey to white. Includes about 30% dolomitic limestone. Occasional minor pyrrhotite and pyrite, particularly in dolomitic zones.	35	40	-
64.8	80.8	Limestone	Some banding, 40 - 60° to core axis. White to pale grey, mainly coarsely crystalline. Includes some fine grained, white zones and small amounts of dolomite.	40	45	-
80.8	100.0	Dolomitic Limestone	Medium grained, medium grey to white. Includes some calcareous zones and some intervals of fairly pure grey, granular dolomite. Some banding 40 - 55° to core axis but normally massive, granular.	45	50	0.
			End of Hole	50	55	-
				55	60	0.
				60	65	0.
				65	70	-
				70	75	0.
				75	80	-
				80	85	0.
				85	90	0.
				90	95	0.
				95	100	-

E.O.H.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 1

Coord. <u>L. 800E/</u>			Hole No. <u>L-89-10</u>
<u>600mS</u>	Length <u>17'</u>	Project <u>Laredo Limestone Ltd.</u>	Date <u>May 17, 1989</u>
Elev. <u>255' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Logged by <u>R.F. M^CIntyre</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	

<u>FOOTAGE (ft.)</u>		<u>ROCK TYPE</u>	<u>DESCRIPTION</u>	<u>CORE LOSS (ft)</u>		
<u>FROM</u>	<u>TO</u>			<u>FROM</u>	<u>TO</u>	<u>LC</u>
0	12.2	Intrusive?	Dark greenish grey with vaguely crystalline texture. Metamorphic rock of uncertain parentage. Surface form suggests an old dike, about 10m thick, roughly vertical, striking about 120°. True Top 1.5' grey, weathered. Rock is completely non-calcareous and contains little or no sulphides - both consistent features of the similar appearing meta-siltstone of previous drill holes. No foliations or laminations.	0	10	0.
				10	15	0.
				15	17	-
						E.O.H.
12.2	17	Granodiorite	Medium grey, medium to fine grained. Foliation or flow texture 30 - 50° to core axis. Fresh, little or no alteration. Similar to narrow dikes of L-89-10A but less altered. Contact sharp, irregular, no chilling, xenolith present.			

End of Hole.

DRILL RECORD - DOLMAGE CAMPBELL LTD.

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Coord. <u>L. 800E/ 600mS</u>	Length <u>81'</u>	Project <u>Laredo Limestone Ltd.</u>	Hole No. <u>L-89-10A</u>
Elev. <u>255' ASL</u>	Azimuth _____	Location <u>Aristazabal Island, B.C.</u>	Date <u>May 17, 1989</u>
Size <u>AX</u>	Dip <u>90°</u>	Purpose _____	Logged by <u>R.F. McIntyre</u>

FOOTAGE (ft.)		ROCK TYPE	DESCRIPTION	CORE LOSS (ft)		
FROM	TO			FROM	TO	LC
0	24.2	Limestone	Extremely variable. Coarse and fine, white to medium grey, some sections dolomitic. At 3.5 to 5.0' contains dark grey to black inclusions. Occasional minor pyrrhotite and pyrite, especially 11.3'. Some sections lightly brecciated. Rubble at 0.5 - 1.3', 1.8 - 2.3'. No consistent bedding indications.	0	5	1.
				5	10	0.
				10	15	0.
				15	20	-
				20	25	-
				25	30	0.
24.2	25.2	Granodiorite	Dike. Medium to fine grained, grey. Margins 40° and 60° to core axis, no chill zonation. Not strongly altered, somewhat chloritized, siliceous.	30	35	0.
				35	40	-
				40	45	-
25.2	32.7	Limestone	Light grey to white, mainly fine grained. Minor dolomite present.	45	50	-
				50	55	-
32.7	34.0	Calcareous Dolomite	Light grey, medium grained, granular texture to massive.	55	60	-
34.0	35.0	Granodiorite	Dike. Only 0.2' of rubble recovered. Same as 24.2 - 25.2' above.	60	65	-
				65	70	-
35.0	39.5	Calcareous Dolomite	Same as 32.7 - 34.0' above. Light grey, massive to granular, medium grained.	70	75	-
				75	80	0.
39.5	46.9	Limestone	Same as 25.2 - 32.7' above.	80	81	-
46.9	58.7	Calcareous Dolomite	Same as 35.0 - 39.5' above. Includes short intervals of limestone, less than 10% of unit.			E.O.H.
58.7	65.9	Limestone	Mainly light grey, fine grained. Some white zones, some coarser sections. Includes short intervals of dolomite, less than 10% of unit.			
65.9	70.0	Calcareous Dolomite	Top 2.5' same as dolomite units above. Lower section increasingly calcareous, contains black impurities. Bedding approximately 50° to core axis.			
70.0	71.0	Siltstone	Heavily altered metasediment. Chlorite and epidote at upper contact. Color green to grey to brown. Minor pyrite on fractures. Minor pyrrhotite disseminated in rock. Intruded by siliceous material.			

DRILL RECORD - DOLMAGE CAMPBELL LTD.

Hole No: L-89-10A

Page: 2 of 2

LENGTH		ROCK TYPE	DESCRIPTION
FROM	TO		
71.0	71.6	Granodiorite	Light grey, same as 24.2 - 25.2' above. Variable fine to coarse grained.
71.6	72.5	Siltstone	Same as 70.0 - 71.0' above. Intruded along fractures. Less altered than previous bed.
72.5	72.8	Granodiorite	Coarse grained. Contains thin biotite books greater than 1 cm across.
72.8	75.4	Siltstone	Similar to 71.6 - 72.8' above but more massive, mainly brownish grey. Contains coarser white, soft, non-calcareous crystals. Rock mainly hard, silicified.
75.4	75.9	Granodiorite	Coarse. Same as 72.5 - 72.8' above, 45° to core axis.
75.9	81.0	Siltstone	Same as 72.8 - 75.4' above. Lower 2' fractured, rubbly.

End of Hole.

APPENDIX II
SURFACE SAMPLE LOG

SURFACE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

DATE: 24 January 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To(m)	Description	Sample Width	True Width	Assay
62201	Cp	L15+00 E	10+00S		Marble	Spot	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ Fe ₂ O ₃ LOI
62202	Cp	L15+00 E	11+00S		"	Spot	-	"
62203	Cp	L15+00 E	12+00S	12+50S	"	50m	-	"
62204	Cp	L15+00 E	13+00S		"	Spot	-	"
62205	Cp	L15+00 E	15+00S		"	Spot	-	"
62206	Cp	L15+00 E	16+00S		"	Spot	-	"
62207	Cp	L10+00 E	3+56S	4+75S	"	140m	-	"
62208	Cp	L10+00 E	5+00S	6+60S	"	160m	-	"
62209	Cp	L10+00 E	12+40S		"	Spot	-	"
62210	Cp	L10+00 E	14+00S		"	Spot	-	"
62211	Cp	L10+00 E	11+00S		"	Spot	-	"
62212	Cp	L10+00 E	10+00S		"	Spot	-	"
62213	Cp	L10+00 E	9+00S		"	Spot	-	"
62214	Cp	L10+00 E	8+00S		"	Spot	-	"
62215	Cp	L10+00 E	13+00S		"	Spot	-	"
62251	Cp	L 5+00 W	2+75S	5+00S	"	225m	-	"
62252	Cp	L10+00 W	7+75S	8+70S	"	50m	-	"
62253	Cp	L10+00 W	9+00S	10+30S	"	60m	-	"
62254	Cp	L10+00 W	12+55S	14+30S	"	80m	-	"
62255	Cp	L10+00 W	15+30S	17+75S	"	50m	-	"
62256	Cp	L10+00 W	17+90S	19+90S	"	50m	-	"
62257	Cp	L10+00 W	19+90S		Marble with dyke rocks	Spot	-	"
62258	Cp	L20+00 S	6+39W	8+80W	Marble	110m	-	"
62259	Cp	L20+00 S	5+00W	6+00W	"	50m	-	"
62260	Cp	L 5+00 W	15+00S	17+50S	"	230m	-	"
62261	Cp	L 5+00 W	12+50S	15+00S	"	210m	-	"
62262	Cp	L 5+00 W	10+00S	12+50S	"	260m	-	"
62263	Cp	L 5+00 W	7+50S	10+00S	"	250m	-	"
62264	Cp	L 5+00 W	5+00S	7+50S	"	200m	-	"
62265	Cp	L 0+00 E	17+50S	20+00S	Marble with metasediments	280m	-	"
62266	Cp	L 0+00 E	12+50S	15+00S	Marble	280m	-	"

SURFACE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

DATE: 24 January 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To(m)	Description	Sample Width	True Width	Assay	
								CaO, MgO, SiO ₂ , Al ₂ O ₃	Fe ₂ O ₃ LOI
62267	Cp	L 0+00 E	10+00S	12+50S	Marble	250m	-		
62268	Cp	L 0+00 E	7+70S	10+00S	"	200m	-	"	"
62269	Cp	L 0+00 E	5+00S	7+50S	"	235m	-	"	"
62270	Cp	L 0+00 E	2+50S	5+00S	"	275m	-	"	"
62271	Cp	L 0+00 E	0+00S	2+50S	"	200m	-	"	"
62272	Cp	L 5+00 E	2+50S	5+00S	"	205m	-	"	"
62273	Cp	L 5+00 E	5+00S	6+20S	Marble with dyke rocks	200m	-	"	"
62274	Cp	L 5+00 E	6+20S	7+50S	Marble	190m	-	"	"
62275	Cp	L 5+00 E	7+50S	10+00S	"	230m	-	"	"
62276	Cp	L 5+00 E	10+00S	12+50S	"	220m	-	"	"
62277	Cp	L 5+00 E	12+50S	15+00S	"	250m	-	"	"
62278	Cp	L 5+00 E	15+00S	17+50S	"	220m	-	"	"

DRILL HOLE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

Page 1 of 2

DATE: April-May, 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To	Description	Sample Width	True Width	
2701	Core	DDH-L-89-1	0	25	Limestone	25'	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ LOI
2702	Core	"	25	50	"	25'	-	"
2703	Core	"	50	75	"	25'	-	"
2704	Core	"	75	100	"	25'	-	"
2705	Core	DDH-L-89-2	0	25	Limestone	25'	-	"
2706	Core	"	25	50	"	25'	-	"
2707	Core	"	50	75	"	25'	-	"
2708	Core	"	75	100	"	25'	-	"
2709	Core	DDH-L-89-3	0	25	Limestone	25'	-	"
2710	Core	"	25	50	"	25'	-	"
2711	Core	"	50	75	Limestone Diorite 70.9-72.0' not sampled.	24'	-	"
2712	Core	"	"	75	100 Limestone	25'	-	"
2713	Core	DDH-L-89-4	0	25	Limestone. Diabase intervals not sampled.	24'	-	"
2714	Core	"	25	50	Limestone	25'	-	"
2715	Core	"	50	75	Limestone. Diabase 58.8 - 62.1' not sampled.	21.5'	-	"
2716	Core	"	75	95	Limestone. Intrusives 95-100' not sampled.	20'	-	"
2717	Core	DDH-L-89-5	0	20	Limestone	20'	-	"
2718	Core	"	20	40.4	Limestone	20.4'	-	"
2719	Core	"	40.4	43.3	Replacement Zone	2.9'	-	"
2720	Core	"	43.3	65.0	Limestone - Dolomitic	21.7'	-	"
2721	Core	"	65.0	85.7	Limestone - Dolomitic	20.7'	-	"
2722	Core	"	85.7	101	Limestone	15.3'	-	"
2723	Core	DDH-L-89-6	0	35.8	Limestone	35.8'	-	"
2724	Core	"	35.8	38.6	Siltstone. High in pyrrhotite.	2.8'	-	"
2725	Core	"	38.6	43.2	Limestone and siltstone, heavy sulphides	4.6'	-	"
2726	Core	"	43.2	52.7	Limestone	9.5'	-	"

DRILL HOLE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

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DATE: April-May, 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To	Description	Sample Width	True Width	
2727	Core	DDH-L-89-6	52.7	79.1	Siltstone. High in pyrrhotite.	26.5'	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ LOI
2728	Core	"	79.1	100.0	Limestone	20.9'	-	"
2729	Core	DDH-L-89-7	0	28.7	Limestone	28.7'	-	"
—	—	"	28.7	30.2	Not sampled.	1.5'	-	"
2730	Core	"	30.2	44.7	Limestone	14.5'	-	"
2731	Core	"	44.7	54.5	Dolomitic Limestone	9.8'	-	"
2732	Core	"	54.5	65.6	Siltstone	11.1'	-	"
2733	Core	"	65.6	89.2	Limestone	23.6'	-	"
2734	Core	"	89.2	96.0	Meta-siltstone	6.8'	-	"
2735	Core	DDH-L-89-7	96.0	100.0	Limestone	4.0'	-	"
2736	Core	DDH-L-89-8	0	18.9	Dolomitic Limestone interbedded w/3 waste zones	18.9'	-	"
2737	Core	"	18.9	51.4	Limestone	32.5'	-	"
2738	Core	"	51.4	74.6	Limestone interbedded w/4 waste zones.	23.2'	-	"
2739	Core	"	74.6	100.0	Dolomitic Limestone interbedded w/3 waste zones.	25.2'	-	"
2740	Core	DDH-L-89-9	0	26.4	Limestone, some dolomite.	26.4'	-	"
2741	Core	"	26.4	46.0	Dolomitic Limestone	19.6'	-	"
2742	Core	"	46.0	80.8	Limestone, some dolomite	34.8'	-	"
2743	Core	"	80.8	100.0	Dolomitic Limestone	19.2'	-	"
2744	Core	DDH-L-89-10A	0	24.2	Limestone	24.2'	-	"
2745	Core	"	25.2	46.9	Limestone and dolomite.	21.7'	-	"
2746	Core	"	46.9	70.0	Dolomite and Limestone.	23.1'	-	"

APPENDIX III
DRILL CORE SAMPLE LOG

SURFACE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

DATE: April-May, 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To(m)	Description	Sample Width	True Width	
4401	Chip	Baseline	200mW	100mW	Limestone. Sml bed metaseds, 180mW.	100m	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ Fe ₂ O ₃ LOI
4402	Chip	Baseline	100mW	0.0mW	Limestone	100m	-	"
4403	Chip	Baseline	0.0mE	100mE	Limestone. No outcrop 15-50mE.	100m	-	"
4404	Chip	Baseline	100mE	200mE	Limestone	100m	-	"
4405	Chip	Line 0.0mE	200mS	100mS	Limestone. No outcrop 190-165mS.	100m	-	"
					Diorite 160-130mS.			
4406	Chip	Line 0.0mE	100mS	0.0mS	Limestone. 1-2m dike @ 100mS.	100m	-	"
4407	Chip	Line 0.0mE	0.0mN	100mN	Limestone.	100m	-	"
4408	Chip	Line 0.0mE	100mN	200mN	Limestone. 1m dike, 160mN, strike 325°.	100m	-	"
4409	Chip	Line 200mE	200mS	100mS	Limestone.	100m	-	"
4410	Chip	Line 200mE	100mS	0.0mS	Limestone.	100m	-	"
4411	Chip	Line 200mE	0.0mN	100mN	Limestone.	100m	-	"
4412	Chip	Line 200mE	100mN	200mN	Limestone.	100m	-	"
4413	Chip	L. 400mE	200mS	100mS	Limestone.	100m	-	"
4414	Chip	L. 400mE	100mS	0.0mS	Limestone.	100m	-	"
4415	Chip	L. 400mE	0.0mN	100mN	Limestone.	100m	-	"
4416	Chip	L. 400mE	100mN	200mN	Limestone.	100m	-	"
4417	Chip	B.L.	200mE	300mE	Limestone.	100m	-	"
4418	Chip	B.L.	300mE	400mE	Limestone.	100m	-	"
4419	Chip	B.L.	400mE	500mE	Limestone.	100m	-	"
4420	Chip	B.L.	500mE	600mE	Limestone.	100m	-	"
4421	Chip	L. 600mE	200mS	100mS	Limestone. Narrow dike 170mS, brg 120°.	100m	-	"
4422	Chip	L. 600mE	100mS	0.0mS	Limestone.	100m	-	"
4423	Chip	L. 600mE	0.0mN	100mN	Limestone.	100m	-	"
4424	Chip	L. 600mE	100mN	200mN	Limestone.	100m	-	"
4425	Chip	L. 800mE	200mS	100mS	Limestone. No outcrop 150-175mS.	100m	-	"
					Sml pods rusty meta-seeds 120mS.			
4426	Chip	L. 800mE	100mS	0.0mS	Limestone. Commonly dolomitic. 50m (approx.) Meta-seeds common--recessive weathering 70-20mS.			

SURFACE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

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DATE: April-May, 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To(m)	Description	Sample Width	True Width	
4427	Chip	L. 800mE	0.0mN	100mN	Limestone.	100m	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ Fe ₂ O ₃ LOI
4428	Chip	L. 800mE	100mN	200mN	Limestone.	100m	-	" "
4429	Chip	B.L.	600mE	700mE	Limestone.	100m	-	" "
4430	Chip	B.L.	700mE	800mE	Limestone.	100m	-	" "
4431	Chip	B.L.	800mE	900mE	Limestone, commonly dolomitic poor exposures 810-840m sparse meta-seds.	100m	-	" "
4432	Chip	B.L.	400mE	1000mE	Limestone, quite dolomitic 900-950mE.	100m	-	" "
4433	Chip	B.L.	1000mE	1100mE	Limestone, exposures spotty.	100m	-	" "
4434	Chip	B.L.	1100mE	1140mE	Limestone. Meta-seds 1140-1200E not sampled.	40m	-	" "
4435	Chip	L. 1000mE	1000mE	200mS	100mS Limestone.	100m	-	" "
4436	Chip	L. 1000mE	100mS	0.0mS	Limestone. Dark grey dike 35-40mS, brg 305°.	100m	-	" "
4437	Chip	"	0.0mN	100mN	Limestone. Dark grey dike 50-70mN, brg 040°.	100m	-	" "
4438	Chip	"	100mN	200mN	Limestone.	100m	-	" "
4439	Chip	L. 200mS	1100mE	1200mE	Limestone. Some dolomitic sections.	100m	-	" "
4440	Chip	"	1000mE	1100mE	Limestone.	100m	-	" "
4441	Chip	"	900mE	1000mE	Limestone.	100m	-	" "
4442	Chip	"	800mE	900mE	Limestone. Some dolomitic sections.	100m	-	" "
4443	Chip	"	700mE	800mE	Limestone. Rusty dike 3-5 m wide brg 100° @ 700mE.	100m	-	" "
4444	Chip	"	600mE	700mE	Limestone.	100m	-	" "
4445	Chip	L. 1000mE	200mS	300mS	Limestone. Commonly dolomitic.	100m	-	" "
4446	Chip	"	300mS	400mS	Limestone. Dolomitic 320 - 400mS.	100m	-	" "
4447	Chip	L. 800mE	200mS	300mS	Limestone. lm dike brg 135°/90° @ 270mS	100m	-	" "
4448	Chip	"	300mS	400mS	Limestone.	100m	-	" "
4449	Chip	"	400mS	500mS	Limestone. 3 m. dike brg. 180° @ 480mS.	100m	-	" "

SURFACE SAMPLE RECORD - DOLMAGE CAMPBELL LTD.

Page 3 of 3

DATE: April-May, 1989

COMPANY: Laredo Limestone Ltd.

PROJECT: Aristazabal Island

Sample Number	Type	Location	From	To(m)	Description	Sample Width	True Width	
4450	Chip	L. 800mE	500mS	600mS	Limestone 2m dike brg 110°/90° @ 510mS.	100m	-	CaO, MgO, SiO ₂ , Al ₂ O ₃ Fe ₂ O ₃ LOI
1851	Chip	L. 400MS	600mE	700mE	Limestone. 5m Granodiorite dike, brg 115° @ 600-620mE.	80m	-	" "
1852	Chip	"	700mE	800mE	Limestone.	100m	-	" "
1853	Chip	"	800mE	900mE	Limestone. Some dolomitic sections.	100m	-	" "
1854	Chip	"	900mE	1000mE	Limestone. Dolomitic 925-1000mE.	100m	-	" "
1855	Chip	L. 600mS	600mE	700mE	Limestone. Dolomitic 600-660E.	100m	-	" "
1856	Chip	"	700mE	800mE	Limestone. Commonly dolomitic dike brg 100° @ 780mE.	2m 100m	-	" "
1857	Chip	"	800mE	900mE	Limestone. Dolomitic sections. Lg. dike parallel line, 800-850mE.	100m	-	" "
1858	Chip	"	900mE	1000mE	Limestone. Several dikes, attitude?	100m	-	" "
1859	Chip	L. 800mE	600mS	700mS	Limestone.	100m	-	" "
1860	Chip	"	700mS	800mS	Limestone.	100m	-	" "

APPENDIX IV
ANALYTICAL METHODS

Rock Geochem Ring - Chemex Code 205
Assay Ring - Chemex Code 208

Entire sample is crushed in jaw crusher to approximately 3/4".
Sample is then crushed in gyratory cone crusher to
approximately 1/8", split in Jones Riffler to approximately
150-200 gms. and pulverized using zirconia rings to
approximately 100 mesh.

WHOLE ROCK ANALYSIS

A 0.1 g sample is added to 0.7 g of lithium metaborate flux, mixed well and fused in a furnace at 1050 degrees C. The bead is dissolved in 100 ml of 4 % HNO₃ and this solution is analyzed by inductively coupled plasma-atomic emission spectroscopy (ICP-AES).

10/8

METHOD FOR
LOSS ON IGNITION

A porcelain crucible is cleaned and dried in an oven at 105 degrees C. The crucible is cooled and the weight recorded. A 1.0 g sample is weighed into the crucible and the weight recorded.

The sample is ashed for one hour in a furnace at 1000 degrees C and then placed into a dessicator and cooled. The ashed sample is weighed and loss on ignition calculated.

APPENDIX V

ANALYTICAL RESULTS



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: DOLMAGE, CAMPRELL & ASSOCIATES LTD.
 1970 - 1055 W. HASTINGS ST.
 VANCOUVER, BC
 V6E 2E9
 Project: LAREDO LIMESTONE
 Comments:

Page No. 1
 Total Pages 2
 Date: 16-FEB-89
 Invoice #: I-8911199
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8911199

SAMPLE DESCRIPTION	PREP CODE	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	BaO %	LOI %	TOTAL %
62201	248 232	0.90	0.20	0.40	1.75	53.58	0.06	0.13	0.02	< 0.01	0.01	0.02	42.43	99.51
62202	248 232	0.60	0.10	0.30	1.83	53.38	0.04	0.06	0.01	< 0.01	0.01	0.01	42.69	99.04
62203	248 232	0.50	0.20	1.00	2.11	52.38	0.02	0.13	0.03	< 0.01	0.01	0.01	41.13	97.53
62204	248 232	0.20	0.07	0.30	1.98	54.62	0.02	0.12	0.01	< 0.01	0.01	0.01	42.88	100.25
62205	248 232	1.00	< 0.01	0.03	1.75	53.90	0.03	0.02	0.01	< 0.01	0.01	0.01	42.32	99.10
62206	248 232	0.30	0.05	0.06	1.14	55.07	0.03	0.05	0.01	< 0.01	0.02	0.01	43.26	100.00
62207	248 232	0.60	0.05	0.05	1.69	52.72	0.03	0.04	0.01	< 0.01	0.01	0.01	42.77	97.99
62208	248 232	0.30	0.05	< 0.01	1.15	55.93	0.02	0.05	0.01	< 0.01	0.01	0.01	42.69	100.25
62209	248 232	0.20	0.03	< 0.01	1.62	55.34	0.07	0.02	0.01	< 0.01	0.01	0.01	42.89	100.20
62210	248 232	0.20	< 0.01	< 0.01	2.68	53.00	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.01	42.53	98.50
62211	248 232	0.20	0.02	< 0.01	2.94	50.37	0.03	< 0.01	0.01	< 0.01	< 0.01	0.01	43.27	96.89
62212	248 232	0.20	0.02	< 0.01	0.38	53.72	0.03	0.02	0.01	< 0.01	< 0.01	0.01	42.42	96.84
62213	248 232	< 0.01	< 0.01	< 0.01	0.90	55.64	0.02	0.02	< 0.01	< 0.01	0.01	0.01	41.92	98.57
62214	248 232	0.40	0.06	0.02	1.53	53.49	0.02	0.05	0.01	< 0.01	0.01	0.01	42.74	98.35
62215	248 232	0.60	0.02	0.03	2.48	52.38	0.01	0.05	0.01	< 0.01	0.01	0.01	42.93	98.54
62251	248 232	0.10	< 0.01	0.10	10.83	43.21	0.01	0.02	< 0.01	< 0.01	0.01	0.01	44.28	98.60
62252	248 232	0.20	< 0.02	< 0.01	1.45	52.54	0.02	0.01	< 0.01	< 0.01	0.01	0.01	42.78	97.07
62253	248 232	< 0.01	< 0.01	< 0.01	1.45	50.09	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	45.70	97.33
62254	248 232	0.01	< 0.01	0.02	5.42	48.76	0.01	0.03	< 0.01	< 0.01	< 0.01	0.01	43.46	97.76
62255	248 232	0.05	< 0.01	< 0.01	1.42	53.94	0.01	0.04	0.01	< 0.01	0.01	0.01	42.63	98.15
62256	248 232	0.30	0.09	0.09	3.22	51.90	0.01	0.10	0.01	< 0.01	0.01	0.01	42.94	98.69
62257	248 232	57.30	15.60	5.30	1.57	6.08	4.60	4.77	1.27	0.39	0.07	0.18	2.69	99.82
62258	248 232	0.30	0.04	0.08	3.27	52.65	0.03	0.15	0.01	< 0.01	0.01	0.01	42.97	99.53
62259	248 232	0.40	0.09	0.20	13.92	38.28	0.02	0.18	0.01	< 0.01	0.01	0.01	44.62	97.75
62260	248 232	0.90	0.02	0.06	2.11	52.41	0.02	0.16	0.01	< 0.01	0.01	0.01	41.76	97.48
62261	248 232	0.02	< 0.01	0.05	3.73	52.37	0.01	0.17	0.01	< 0.01	0.01	0.01	42.55	98.95
62262	248 232	0.20	0.01	0.20	12.99	42.99	0.02	0.19	0.01	< 0.01	0.01	0.01	42.12	98.76
62263	248 232	0.20	0.02	0.10	8.30	46.34	0.01	0.21	0.01	< 0.01	0.01	0.01	42.90	98.12
62264	248 232	0.50	0.01	0.20	7.34	47.57	0.02	0.22	0.01	< 0.01	0.01	0.01	43.04	98.94
62265	248 232	8.80	3.00	1.40	6.44	41.34	0.70	0.42	0.14	< 0.01	0.05	0.03	36.67	99.00
62266	248 232	0.10	0.02	0.20	11.00	41.90	0.02	0.21	0.01	< 0.01	0.02	0.01	45.66	99.16
62267	248 232	0.20	0.03	0.20	9.05	45.52	0.01	0.21	0.01	< 0.01	0.02	0.01	44.14	99.41
62268	248 232	< 0.01	< 0.01	0.07	3.36	54.03	0.01	0.20	0.01	< 0.01	0.01	0.01	42.65	100.40
62269	248 232	0.10	0.01	0.05	0.89	54.69	0.02	0.25	0.01	< 0.01	0.01	0.01	43.12	99.17
62270	248 232	0.10	< 0.01	0.09	2.61	53.60	0.02	0.24	0.01	< 0.01	0.01	0.01	43.53	100.25
62271	248 232	0.10	< 0.01	0.09	1.89	54.60	0.01	0.24	0.01	< 0.01	0.01	0.01	43.28	100.25
62272	248 232	1.10	0.30	0.20	3.87	51.00	0.02	0.25	0.02	< 0.01	0.01	0.01	43.01	99.80
62273	248 232	47.60	18.20	7.00	1.29	10.90	4.00	1.78	2.62	0.11	0.05	0.06	5.44	99.05
62274	248 232	0.70	0.20	0.30	3.74	49.59	0.05	0.29	0.04	< 0.01	0.01	0.01	45.37	100.30
62275	248 232	0.60	0.10	0.20	2.93	52.69	0.04	0.25	0.02	< 0.01	0.01	0.01	43.33	100.20

CERTIFICATION :

B. Coughlin



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Project : LAREDO LIMESTONE

Comments:

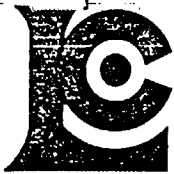
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Tot. Pages: 2
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SAMPLE DESCRIPTION	PREP CODE	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	BaO %	LOI %	TOTAL %
62276	248 232	0.30	0.09	0.20	3.94	48.18	0.03	0.24	0.01	< 0.01	0.01	0.01	43.49	96.51
62277	248 232	0.09	0.01	0.10	7.11	44.84	0.02	0.23	0.01	< 0.01	0.01	0.01	44.31	96.75
62278	248 232	0.20	0.05	0.07	2.78	50.72	0.02	0.21	0.01	< 0.01	0.02	0.03	42.59	96.71

CERTIFICATION :

B. Campbell



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SAMPLE DESCRIPTION	PREP CODE	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	BaO %	LOI %	TOTAL %
1851	248 200	0.43	0.02	0.23	6.60	47.31	0.06	< 0.02	< 0.01	< 0.01	< 0.01	0.01	42.51	97.21
1852	248 200	0.50	0.05	0.09	3.10	50.82	0.10	< 0.01	< 0.01	< 0.01	< 0.01	0.01	42.53	97.23
1853	248 200	0.48	0.05	0.08	3.95	51.83	0.11	< 0.01	< 0.01	< 0.01	< 0.01	0.01	40.91	97.46
1854	248 200	0.67	< 0.01	0.21	6.68	46.89	0.05	0.02	< 0.01	0.01	0.01	0.01	42.67	97.23
1855	248 200	0.39	0.04	0.30	14.32	38.32	0.05	0.02	< 0.01	0.02	0.01	0.01	44.07	97.56
1856	248 200	0.36	0.03	0.27	9.91	43.84	0.07	0.02	< 0.01	0.03	0.01	0.01	43.29	97.85
1857	248 200	1.13	0.02	0.27	5.82	48.86	0.08	0.02	< 0.01	0.03	0.01	0.02	41.73	97.99
1858	248 200	0.58	0.02	0.24	5.13	49.61	0.08	0.01	< 0.01	0.03	0.01	0.01	42.30	98.03
1859	248 200	3.40	1.46	0.40	7.78	44.87	0.11	0.04	0.07	0.06	0.01	0.02	40.43	98.65
1860	248 200	2.28	0.04	0.33	8.02	46.01	0.08	0.02	< 0.01	0.05	0.02	0.01	41.72	98.59
2701	248 200	0.44	< 0.01	< 0.10	3.19	51.30	0.09	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.87	97.04
2702	248 200	0.27	0.02	< 0.01	1.98	52.97	0.09	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.60	96.99
2703	248 200	0.29	0.02	< 0.01	4.03	50.15	0.09	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.79	97.42
2704	248 200	0.28	< 0.01	0.06	3.41	51.07	0.05	0.01	< 0.01	< 0.01	0.01	< 0.01	42.86	97.79
2705	248 200	0.17	< 0.01	0.07	1.84	53.02	0.06	0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.91	97.13
2706	248 200	0.06	< 0.01	< 0.01	0.68	54.37	0.02	0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.83	97.03
2707	248 200	0.08	< 0.01	< 0.01	2.13	53.52	0.05	0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.25	97.10
2708	248 200	0.09	< 0.01	0.05	3.37	51.92	0.07	0.01	< 0.01	< 0.01	< 0.01	0.01	41.74	97.29
2709	248 200	0.40	< 0.01	0.06	2.55	52.60	0.04	0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.85	97.56
2710	248 200	0.42	0.07	0.17	3.47	50.69	0.10	0.05	< 0.01	< 0.01	< 0.01	0.01	42.57	97.57
2711	248 200	2.98	0.53	0.15	4.70	47.04	0.17	0.28	< 0.01	< 0.01	< 0.01	0.01	41.37	97.26
2712	248 200	1.75	0.20	0.02	3.03	50.21	0.11	0.13	< 0.01	< 0.01	< 0.01	< 0.01	41.89	97.38
2713	248 200	0.68	< 0.01	0.15	4.66	49.23	0.05	0.03	< 0.01	< 0.01	0.01	< 0.01	42.15	97.00
2714	248 200	0.27	0.02	0.24	6.09	47.74	0.08	0.02	< 0.01	< 0.01	0.01	0.01	42.77	97.26
2715	248 200	0.34	0.04	0.23	1.74	52.79	0.07	0.01	< 0.01	< 0.01	0.01	0.01	42.08	97.33
2716	248 200	0.42	< 0.07	0.08	2.57	52.08	0.10	< 0.01	< 0.01	< 0.01	< 0.01	0.01	41.77	97.14
2717	248 200	0.18	< 0.01	0.12	4.46	50.38	0.07	0.01	< 0.01	< 0.01	0.01	0.01	42.32	97.59
2718	248 200	0.20	< 0.01	0.16	3.98	50.48	0.08	0.01	< 0.01	< 0.01	0.01	0.01	42.42	97.38
2719	248 200	5.10	2.11	4.49	11.03	37.96	0.10	0.34	0.27	0.05	0.02	0.01	31.99	93.47
2720	248 200	1.55	0.14	0.28	14.74	37.49	0.09	0.03	0.01	0.01	0.01	0.01	42.75	97.10
2721	248 200	0.39	0.08	0.38	10.39	42.30	0.08	0.03	< 0.01	0.01	0.02	0.01	43.55	97.25
2722	248 200	0.93	0.31	0.30	6.57	46.31	0.15	0.03	0.01	0.03	0.01	0.01	42.53	97.19
2723	248 200	0.73	0.23	0.27	1.31	52.34	0.10	0.06	< 0.01	0.01	0.01	0.01	42.01	97.07
2724	248 200	42.49	14.06	10.24	3.55	14.15	3.65	1.26	2.05	0.24	0.06	0.03	6.98	98.76
2725	248 200	15.77	5.57	6.29	1.17	36.99	1.35	0.42	0.79	0.09	0.06	0.02	22.59	91.10
2726	248 200	0.60	0.09	0.42	1.97	51.42	0.12	0.02	< 0.01	< 0.01	0.02	0.01	42.72	97.41
2727	248 200	41.13	13.64	11.59	3.19	16.38	3.47	0.64	2.01	0.25	0.18	0.05	5.78	98.31
2728	248 200	0.62	0.16	0.57	2.04	52.92	0.14	0.03	0.01	< 0.01	0.01	0.01	41.64	98.16
2729	248 200	0.79	0.04	0.16	2.14	53.34	0.11	0.01	< 0.01	0.01	< 0.01	0.01	40.52	97.15
2730	248 200	0.23	0.05	0.29	1.30	55.06	0.12	0.01	< 0.01	0.05	0.01	0.01	40.62	97.76

RC



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2731	248 200	1.19	0.17	0.33	10.58	43.93	0.14	0.02	< 0.01	0.04	0.01	0.01	43.24	99.67
2732	248 200	51.17	17.05	6.99	4.15	10.31	3.66	1.95	< 0.77	0.25	0.11	0.08	2.82	99.31
2733	248 200	0.51	0.10	0.30	5.17	49.17	0.12	0.02	< 0.01	0.04	0.01	0.01	43.97	99.43
2734	248 200	46.23	14.24	11.41	7.19	13.56	2.38	0.16	1.43	0.20	0.15	0.03	2.18	99.16
2735	248 200	0.82	0.18	0.38	2.91	53.99	0.13	0.02	0.01	0.03	0.01	0.01	42.58	101.05
2736	248 200	12.34	3.58	2.40	10.95	35.20	0.57	0.37	0.37	0.08	0.05	0.01	34.32	100.25
2737	248 200	0.49	0.06	0.12	1.91	52.33	0.12	0.01	< 0.01	0.02	0.01	0.01	42.71	97.79
2738	248 200	14.76	4.90	2.45	5.56	36.84	1.12	0.62	0.39	0.11	0.04	0.03	31.14	97.95
2739	248 200	12.06	2.40	0.42	6.16	39.33	0.57	0.96	0.02	0.02	0.02	0.02	36.46	98.44
2740	248 200	2.39	0.35	0.07	3.44	50.26	0.13	< 0.01	< 0.01	< 0.01	< 0.01	0.01	40.87	97.56
2741	248 200	0.81	0.09	0.47	9.98	42.67	0.12	0.01	< 0.01	< 0.03	< 0.02	0.01	43.21	97.43
2742	248 200	0.28	0.03	0.06	4.87	49.34	0.08	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.60	97.31
2743	248 200	0.38	0.06	0.23	13.92	38.63	0.12	0.02	< 0.01	0.03	0.01	0.01	44.03	97.44
2744	248 200	2.11	0.04	0.27	9.05	43.73	0.12	0.01	< 0.01	0.02	0.01	0.01	42.16	97.54
2745	248 200	2.53	0.22	0.12	7.71	46.29	0.12	0.10	< 0.01	0.03	< 0.01	0.01	41.39	98.54
2746	248 200	0.51	0.09	0.21	13.43	40.40	0.10	0.02	< 0.01	0.04	0.01	< 0.01	44.01	98.84
4401	248 200	1.33	0.21	0.25	6.45	48.34	0.12	0.01	< 0.01	0.06	0.01	< 0.01	42.71	99.50
4402	248 200	3.29	0.03	0.08	2.13	52.33	0.10	0.02	< 0.01	0.04	< 0.01	< 0.01	40.30	98.34
4403	248 200	0.31	0.05	0.08	2.40	53.32	0.09	0.02	< 0.01	0.03	< 0.01	< 0.01	42.88	99.21
4404	248 200	0.18	0.04	0.08	1.91	54.35	0.08	0.01	< 0.01	0.04	< 0.01	< 0.01	42.98	99.69
4405	248 200	1.04	0.11	0.14	3.14	51.93	0.09	0.01	< 0.01	0.03	0.01	< 0.01	43.08	99.59
4406	248 200	0.65	0.04	0.07	1.46	54.33	0.09	0.01	< 0.01	0.03	< 0.01	< 0.01	43.11	99.82
4407	248 200	6.44	1.03	0.10	2.17	49.05	0.22	0.56	< 0.01	< 0.01	< 0.01	0.01	39.06	98.67
4408	248 200	0.49	0.07	0.12	2.27	53.49	0.09	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.32	98.90
4409	248 200	0.78	0.07	0.11	3.02	52.78	0.09	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.64	99.53
4410	248 200	0.18	0.05	0.08	1.15	55.28	0.09	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.59	99.46
4411	248 200	0.23	0.05	0.09	1.71	54.43	0.10	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.82	99.47
4412	248 200	0.55	0.10	0.18	1.60	53.86	0.08	0.02	< 0.01	< 0.01	< 0.01	< 0.01	43.16	99.59
4413	248 200	0.88	0.11	0.13	3.11	52.31	0.09	0.02	< 0.01	< 0.01	0.01	< 0.01	43.15	99.83
4414	248 200	2.87	0.41	0.05	4.85	47.39	0.18	< 0.01	< 0.01	0.01	< 0.01	0.01	41.65	97.45
4415	248 200	0.46	0.09	0.17	3.11	52.70	0.12	0.02	< 0.01	< 0.01	< 0.01	< 0.01	42.76	99.46
4416	248 200	0.19	0.06	0.13	2.05	53.72	0.08	0.01	< 0.01	< 0.01	< 0.01	< 0.01	43.44	99.72
4417	248 200	0.16	0.01	< 0.01	3.48	52.30	0.06	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.41	98.47
4418	248 200	0.25	< 0.01	< 0.01	1.64	54.57	0.06	0.01	< 0.01	< 0.01	< 0.01	< 0.01	43.01	99.60
4419	248 200	0.24	< 0.01	< 0.01	2.78	53.24	0.05	0.01	< 0.01	< 0.01	< 0.01	< 0.01	43.54	99.92
4420	248 200	0.23	< 0.01	< 0.01	3.77	51.94	0.05	0.01	< 0.01	< 0.01	0.01	< 0.01	43.24	99.30
4421	248 200	0.21	0.02	0.03	4.91	50.45	0.06	0.01	< 0.01	< 0.01	0.01	< 0.01	43.92	99.65
4422	248 200	6.48	1.26	0.09	2.36	48.68	0.47	0.48	< 0.01	< 0.01	0.01	< 0.01	39.81	99.66
4423	248 200	0.53	0.07	0.01	2.88	53.09	0.07	0.02	< 0.01	< 0.01	0.01	< 0.01	41.05	97.76
4424	248 200	0.40	0.01	0.03	1.96	53.45	0.09	< 0.01	< 0.01	0.01	< 0.01	< 0.01	41.29	97.28

CERTIFICATION :

B. C. C. C.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

1970 - 1055 W. HASTINGS ST.
VANCOUVER, BC
V6E 2E9

Project :
Comments :

Lot. Pages: 3
Date : 02-JUN-89
Invoice # : I-8916641
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8916641

SAMPLE DESCRIPTION	PREP CODE	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	BaO %	LOI %	TOTAL %
4425	248 200	0.30	0.03	0.12	6.91	47.21	0.09	< 0.01	< 0.01	0.01	0.01	< 0.01	43.30	98.00
4426	248 200	16.22	3.58	0.55	4.63	38.05	1.04	0.89	0.03	0.04	0.02	0.01	33.42	98.47
4427	248 200	5.04	0.79	0.19	3.76	49.66	0.24	0.33	0.01	< 0.01	0.01	0.01	39.89	99.94
4428	248 200	0.39	0.11	0.23	4.72	53.32	0.09	0.02	< 0.01	0.01	0.01	< 0.01	42.20	101.10
4429	248 200	0.28	0.03	0.10	4.59	49.55	0.08	< 0.01	< 0.01	0.01	0.01	< 0.01	43.05	97.73
4430	248 200	0.46	0.16	0.20	4.14	53.86	0.09	0.01	< 0.01	0.01	0.01	0.01	42.26	101.20
4431	248 200	4.12	1.20	0.62	13.93	36.29	0.28	0.35	0.07	0.04	0.02	0.05	41.72	98.69
4432	248 200	4.95	0.75	0.12	3.17	51.72	0.26	0.26	0.01	< 0.01	0.01	0.01	40.05	101.30
4433	248 200	0.47	0.05	0.21	1.84	51.90	0.10	0.01	< 0.01	0.01	0.02	0.01	42.36	97.00
4434	248 200	2.35	0.05	0.64	4.40	51.23	0.09	0.01	< 0.01	< 0.01	0.02	0.01	41.43	100.25
4435	248 200	1.94	0.29	0.07	1.89	54.67	0.13	0.14	< 0.01	0.01	< 0.01	< 0.01	41.60	100.75
4436	248 200	0.35	0.04	0.06	2.90	54.52	0.08	0.01	< 0.01	0.01	< 0.01	< 0.01	42.06	100.05
4437	248 200	4.55	0.90	0.12	1.74	53.20	0.27	0.42	< 0.01	< 0.01	0.01	0.02	40.12	101.35
4438	248 200	0.30	0.04	0.13	6.87	50.50	0.08	0.01	< 0.01	< 0.01	0.01	< 0.01	42.98	100.95
4439	248 200	0.79	0.05	0.16	8.66	47.22	0.08	0.01	< 0.01	< 0.01	0.02	< 0.01	43.33	100.35
4440	248 200	1.35	0.21	0.09	3.41	52.65	0.14	0.05	< 0.01	< 0.01	0.01	0.01	42.93	100.85
4441	248 200	0.42	0.04	0.04	2.87	54.96	0.09	0.01	< 0.01	< 0.01	< 0.01	0.01	41.66	100.15
4442	248 200	0.26	0.03	0.11	6.30	49.87	0.08	0.01	< 0.01	< 0.01	0.01	< 0.01	42.46	99.16
4443	248 200	0.42	0.03	0.10	4.09	53.87	0.08	0.01	< 0.01	< 0.01	0.01	< 0.01	42.47	101.10
4444	248 200	0.15	0.02	0.03	3.46	53.83	0.08	0.01	< 0.01	< 0.01	< 0.01	< 0.01	42.11	99.73
4445	248 200	0.37	0.02	0.10	6.96	49.12	0.07	0.01	< 0.01	< 0.01	0.01	< 0.01	42.83	99.51
4446	248 200	0.56	0.02	0.18	10.08	44.89	0.07	0.01	< 0.01	< 0.01	0.02	< 0.01	42.42	98.28
4447	248 200	0.20	0.03	0.07	5.31	50.93	0.08	0.01	< 0.01	< 0.01	0.01	< 0.01	41.28	97.94
4448	248 200	0.82	0.02	0.04	4.82	51.65	0.07	0.01	< 0.01	< 0.01	< 0.01	< 0.01	40.41	97.87
4449	248 200	0.22	0.01	0.05	1.53	55.58	0.08	0.01	< 0.01	< 0.01	< 0.01	< 0.01	41.59	99.10
4450	248 200	0.29	0.02	0.06	4.75	51.87	0.07	0.01	< 0.01	< 0.01	0.01	< 0.01	43.32	100.45

CERTIFICATION: *B. C. et.*

APPENDIX VI
DETAILED BREAKDOWN
OF EXPLORATION COSTS

January Site Work
Geological Mapping and Line Cutting

Planning and Organization		
J. Rotzien 1 day @ \$400	400	
M. Macfadyen 1 day @ \$400	400	
J.A. Chamberlain .5 day @ \$400	<u>200</u>	\$ 1,000.00

Geological Mapping		
M. Macfadyen & J. Oliver		
5 days travel @ \$400	2,000	
4 days standby @ \$150	600	
6 days mapping @ \$400	<u>2,400</u>	\$ 5,000.00

Line Cutting (2 man crew)		
2 days travel @ \$400	800	
2 days standby @ \$300	600	
8 days linecutting @ \$600	<u>4,800</u>	\$ 6,200.00

Camp Costs - Nitnat Chief Charter	\$ 6,000.00
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GEOCHEMICAL ANALYSES	
43 samples @ \$24.00/sample	\$ 1,032.00

FIELD SUPPLIES	\$ 338.71
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GROCERIES	\$ 192.05
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TRAVEL EXPENSES (see following for details)	\$ 2,403.63
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REPORT PREPARATION		
M.A. Macfadyen 2 days @ \$400.00	800.00	
J.L. Rotzien 3.5 days @ \$400.00	1,400.00	
J.A. Chamberlain 0.5 days @ \$500.00	250.00	
Drafting, printing, communication	<u>1,165.68</u>	<u>\$ 3,615.68</u>

Total Exploration Expense	\$ 25,782.07
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TRAVEL EXPENSES

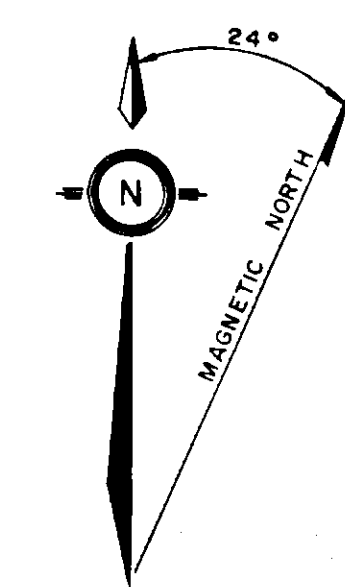
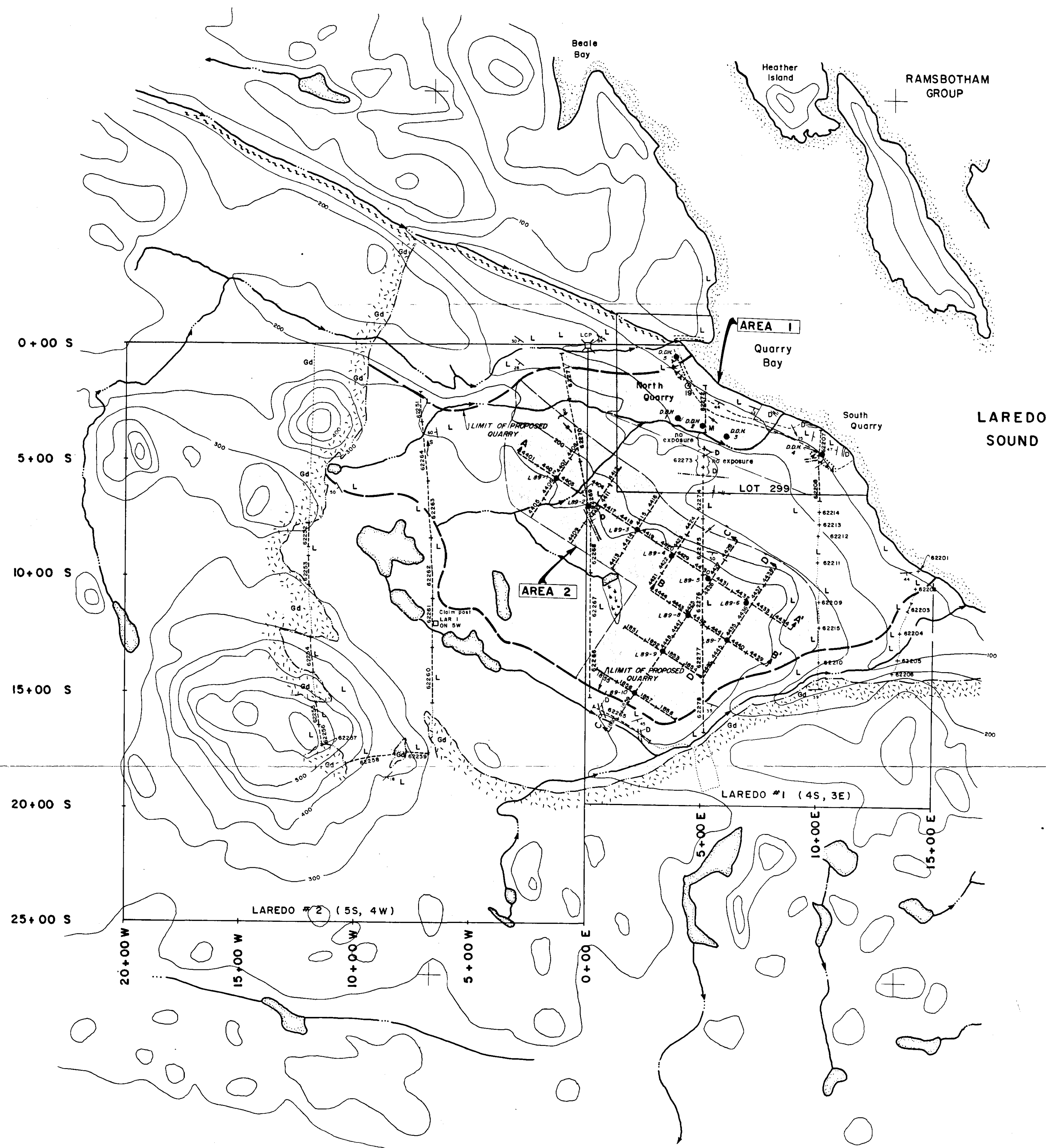
Geologists fly to Shearwater January 17. Overnight at Shearwater and board Nitnat Chief 2 days standby. Return to Vancouver - Charter to Shearwater 25th. Overnight at Shearwater. Fly to Vancouver 26th.

Linecutters. Travel to Aristazabal same as geologists. Return via Nitnat Chief on 28th. Overnight Shearwater, Sea Ferry to Bella Bella.

Air Transportation	1,522.40	
Water Transportation	56.00	
Land Transportation	67.50	
Excess baggage	251.85	
Hotels and Meals	<u>505.88</u>	\$ 2,403.63

Spring Site Work

Planning and Organization		
J. Rotzien 5 days @ \$400	\$	2,000.00
J.A. Chamberlain 1.3 days @ \$500	\$	650.00
Mobilization (Coast Ferries Ltd.)	\$	3,000.00
<u>Diamond Drilling (Drilcor)</u>		
304.5 metres @ \$54.25 per metre plus hourly rates for reaming, camp charges, consumable materials etc.	\$31,349.71	
10% Management Fee	<u>\$ 3,134.97</u>	\$ 34,484.68
Analytical (Chemex)		
46 surface core samples		
60 surface samples		
Samples @ \$24.25	\$ 2,570.50	
Sample bags	<u>\$ 23.75</u>	\$ 2,594.25
Site Supervision, Core Logging and sampling, surface sampling		
J. Rotzien 4 days @ \$400	\$ 1,600.00	
R. MacIntyre Apr. 20-May 18		
28 days @ \$300	<u>\$ 8,400.00</u>	\$ 10,000.00
Helpers, linecutters etc.		
2 man crew (Donegal Developments April 21-May 18		
20 crew days @ \$600		\$ 12,000.00
Helicopter support (Vancouver Island Helicopters)		\$ 13,124.50
Travel Expenses (incl. overnight)		\$ 2,968.72
Groceries for camp		\$ 1,135.80
Freight, communications		\$ 263.53
REPORT PREPARATION		
J.L. Rotzien 6.5 days @ \$400		\$ 2,600.00
Drafting, Printing, etc.		<u>\$ 561.12</u>
Total Exploration Expenses		<u>\$ 85,382.60</u>
TOTAL EXPLORATION EXPENSES		\$111,164.67 =====



LEGEND

- D** Diorite - Diabasic Dykes
Fine grained, dark green mafic dykes.
- Gd** Granodiorite
Moderately foliated hornblende granodiorite
- L** Limestone
White, coarse grained granoblastic limestone

SYMBOLS

- Geologic Contact (defined, inferred)
- Attitude of Foliation
- Attitude of Bedding
- Plunge of Minor Fold Structure
- Subvertical Solution Joints
- Legal Corner Post, Claim Boundary
- Stream Sink Hole
- Approximate Location of Existing Drill Holes

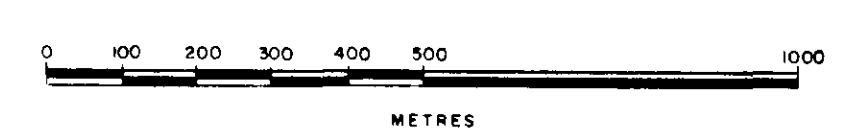
SAMPLE TYPES

- Composite Chip Sample
- Single Outcrop Sample
- Traverse Line

Notes: 1. Base map provided by Laredo Limestone Ltd. Scale enlarged to 1:1000.
2. Granodiorite / marble contact mapped on sample traverse lines and interpolated with reference to air photograph.

Contour Interval = 50 Feet

SCALE



To accompany a report by Dolmage Campbell Ltd., Feb., 1989

DOLMAGE CAMPBELL LTD.
CONSULTING ENGINEERS, VANCOUVER, CANADA

LAREDO LIMESTONE LTD.

**ARISTAZABAL ISLAND
PROPERTY**

GEOLOGICAL PLAN

SKEENA MINING DIVISION, B.C.

Technical work by: M.M. / J.O.	N.T.S.: 93D and part of 103A
Drawn by: B. McLEOD	Scale: 1:1000
Date: FEBRUARY 22, 1989	Figure No: 3

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,595

