

5/88

PROSPECTING AND GRID WORK ON THE LORINA MINERAL CLAIM

MIDWAY ALONG THE EASTERN SHORE (LAREDO CHANNEL) OF  
ARISTAZABAL ISLAND, B.C.

SKEENA MINING DIVISION

LAT. 52°40'

LONG. 129°03'

MAP # 103A/11E

AUGUST 15 to SEPTEMBER 11, 1986

FEBRUARY 23 to MARCH 1, 1987

16188

87-480-16188



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) Prospecting	TOTAL COST \$10,179.61
---	---------------------------

AUTHOR(S) ... Stan. Beale ... SIGNATURE(S) *Stanley L. Beale*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED ... May 14, 1987 ... YEAR OF WORK 1987

PROPERTY NAME(S) ... LAREDO LIMESTONE, PACIFIC RIM

COMMODITIES PRESENT ... Ls, Au, Cu

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN ... 103A-1, 4

MINING DIVISION ... Skeena

LATITUDE ... 52°41'12" LONGITUDE ... 129°03'18" NTS ... 103 A/11E

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Lorina (12 units)

OWNER(S)  
(1) Stanley L. Beale (2) FILMED

MAILING ADDRESS  
4497 Belmont Ave.,  
Vancouver, B.C. V6R 1C3

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

OPERATOR(S) (that is, Company paying for the work)  
(1) as above (2)

MAILING ADDRESS  
as above

16,188

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  
The claim is underlain by limestone, diorite and gneiss.

REFERENCES TO PREVIOUS WORK

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
<b>GEOLOGICAL (scale, area)</b>			
Ground	.....	.....	.....
Photo	.....	.....	.....
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic	.....	.....	.....
Electromagnetic	.....	.....	.....
Induced Polarization	.....	.....	.....
Radiometric	.....	.....	.....
Seismic	.....	.....	.....
Other	.....	.....	.....
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for ....)</b>			
Soil	.....	.....	.....
Silt	.....	.....	.....
Rock	<u>ROCK</u> 49; multielement	LORINA	4000.00
Other	.....	.....	.....
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>			
Core	.....	.....	.....
Non-core	.....	.....	.....
<b>RELATED TECHNICAL</b>			
Sampling/assaying	.....	.....	.....
Petrographic	.....	.....	.....
Mineralogic	.....	.....	.....
Metallurgic	.....	.....	.....
PROSPECTING (scale, area)	<u>PROS</u> 1:4000	Lorina	4199.61
<b>PREPARATORY/PHYSICAL</b>			
<b>Legal surveys (scale, area)</b>			
Legal surveys (scale, area)	.....	.....	.....
<b>Topographic (scale, area)</b>			
Topographic (scale, area)	.....	.....	.....
<b>Photogrammetric (scale, area)</b>			
Line/grid (kilometres)	<u>LINE</u> 10.0km	LORINA	2000.00
Road, local access (kilometres)	.....	.....	.....
Trench (metres)	.....	.....	.....
Underground (metres)	.....	.....	.....

TABLE OF CONTENTS

INTRODUCTION	1
Location	1
Description	1
Access	1
ECONOMIC ASSESSMENT	
a) Industrial Mineral	2
b) Precious Metal	2
FIELD WORK	3
Results	3
Conclusion	3
Recommendations	4
STATEMENT OF COSTS	5
STATEMENT OF QUALIFICATIONS	6
AIR PHOTO	
MAPS	1
2	
3	
LOCATION OF LORINA M.C.	

## INTRODUCTION

### Location

Aristazabal Island is approximately 350 miles northward from Vancouver and 100 miles south of Prince Rupert on the West Coast of B.C. It is uninhabited.

### Description

The Island is about 30 miles long, seven miles wide and generally less than 400 feet high, although several hills rise to more than 1000 feet. Deep water extends close to shore around most of the island.

There is a large deposit of limestone midway along the Eastern shore (L.299) There is very little overburden on top of the limestone. Heavy timber is abundant most especially over the limestone area. (see air photo attached)

### Access

The property on Aristazabal Island is accessible by helicopter, float plane, or ship. In the past, a loading facility with gridiron, cribbing and ramps fed by conveyor systems loaded large scows immediately offshore. Large vessels could load safely from the old quarry area.

ECONOMIC ASSESSMENT

The economic potential of this property lies in a proven industrial mineral deposit and a theoretical precious metal possibility.

a) Industrial Mineral

The Lorina mineral claim covers and is much greater than the old limestone lease LOT 299. This area has been the subject of exploration for limestone in the past by several companies, one, a subsidiary of U.S. Steel Corp., drilled and sampled the property in the early 1950's. Several holes drilled near the beach and the old quarry were down 400' and still in white marble. Recent estimates show the area has probable reserves of 200 million tons of bleached white marble.

This "white rock" has an increasing value in both domestic as well as American markets. It is used in many applications, most notably paint filler and whitener, plaster mud filler and whitener, paper products.

b) Precious Metal

The precious metal aspect of the property stems directly from the model developed for gold and copper skarns on Texada Island. This model indicates that areas

of limestone volcanics and intrusives are necessary for skarn-type mineralization. The limestone area on the Lorina claim is bounded on the North by diorite intrusives and to the South by gneiss. The diorite intrusives undercut and may underlie most of the limestone. They have metamorphosed it into a medium to coarse grained snow white marble. The similarity with the Texada gold-copper skarn development is striking and needs investigating.

#### FIELD WORK

An East-West baseline was established on the Southern boundary of the LORINA mineral claim. This line was 2000 meters long. Cross lines were put in running North, at 250 meter intervals. Survey was by chain and Silva compass. Some prominent features were mapped. Beach dikes, dike showings in creeks and stream sediments were collected.

#### Results:

Maps of LORINA Mineral claim showing grid lines and prominent features.

Samples yet to be analyzed (Feb. 28/87) see attached analysis sheet August 8, 1987

#### Conclusion:

The above basically explorative survey was conducted in

two parts, August 15 to September 11, 1986 and February 23 to March 1, 1987. The area is heavily forested and has never been logged. As a result the windfalls, while thickest near the beach, are thick and continuous over all the ground. This resulted in very slow establishment of the grid. An additional factor in this area is the common strong winds which make work in virgin timber hazardous. Progress to date on this property has been the completion of approximately 10 kilometers of grid lines and a small rock and stream sediment sampling. No results on samples are available at this time (Feb. 28/87) See attached analysis sheet August 8, 1987.

The presence of such a large area of metamorphosed limestone cut and underlain by intrusives is still considered of interest regarding the formation of skarn-type mineralization.

#### Recommendations

Further work will be carried out throughout 1987 on this property including:

- a) a complete geological mapping project
- b) rock and regional soil sampling
- c) VLF-EM and Magnetometer surveys
- d) possible establishment of camp on shore



STATEMENT OF COSTS

Charters:

M.V. "RESORT" August 15 to September 11, 1986

50' coastal freighter, food and lodging and fuel

8 days travel @ \$250 per day 2000.00

20 days on call @ \$100 per day 2000.00

M.V. "SURF BIRD" February 24 to February

28, 1987 1500.00

37' log salvage boat, crew and fuel

5 days @ \$300 per day

Air Fares, Vancouver to Prince Rupert 648.00

Bus and Taxi 69.00

Hotel 63.26

Food 286.36

Equipment 112.99

Wages M. Ryan & S. Beale @ \$100 per  
day X 35 3500.00

---

\$ 10,179.61

---

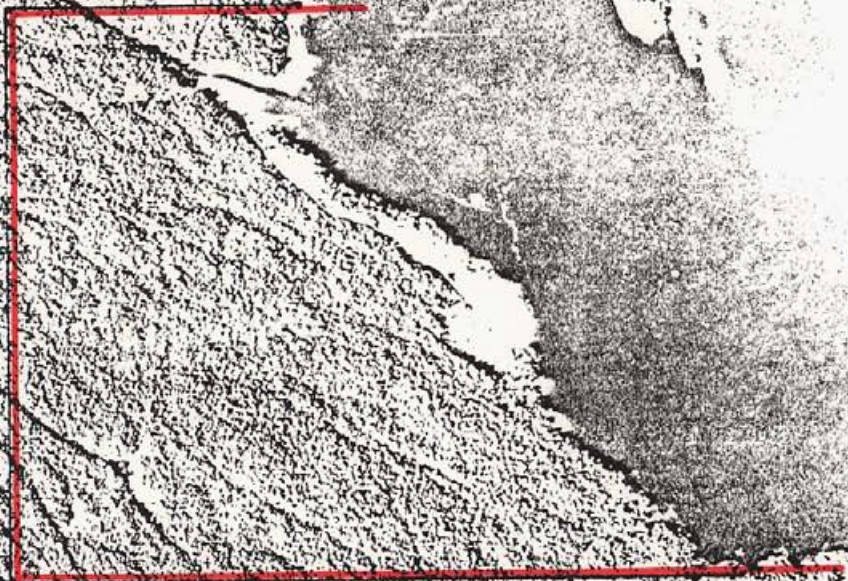
STATEMENT OF QUALIFICATIONS

Authors of this report M. Ryan and S. Beale have both had prospecting experience and training. S. Beale has 10 years field experience working for C. Ager and Associates, in the Yukon and Nevada, Shima Resources, Cartier Resources and Marble Bay Holdings in B.C. and is currently the President of Vananda Gold Ltd. with a large property on Texada Island. M. Ryan has three years experience working for Cartier Resources, Corporation Falconbridge Copper and is currently on the board of Vananda Gold Ltd. and acting as field supervisor of that company's Texada Island property.

Both have completed the B.C. Mineral Exploration program.

30BC79 12

AIR PHOTO LDRINA M.C. AREA (1979)  
ARISTAZABAL ISLAND



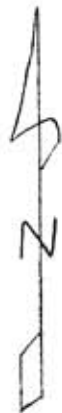
1cm = 200m

ESTABLISHED AUGUST/SEPTEMBER 1986

# LAREDO CHANNEL

ARISTAZABAL ISLAND

Ramsbotham Is.



PROBABLE FAULT ALONG CREEK

Gn

Ls

11500 N

SCALE QUARRY (1986)

OLD QUARRY (1952)

LAT 52° 40'  
LONG 129° 05'

10000 N

12000 W

11750 W

11500 W

11250 W

11000 W

10750 W

10500 W

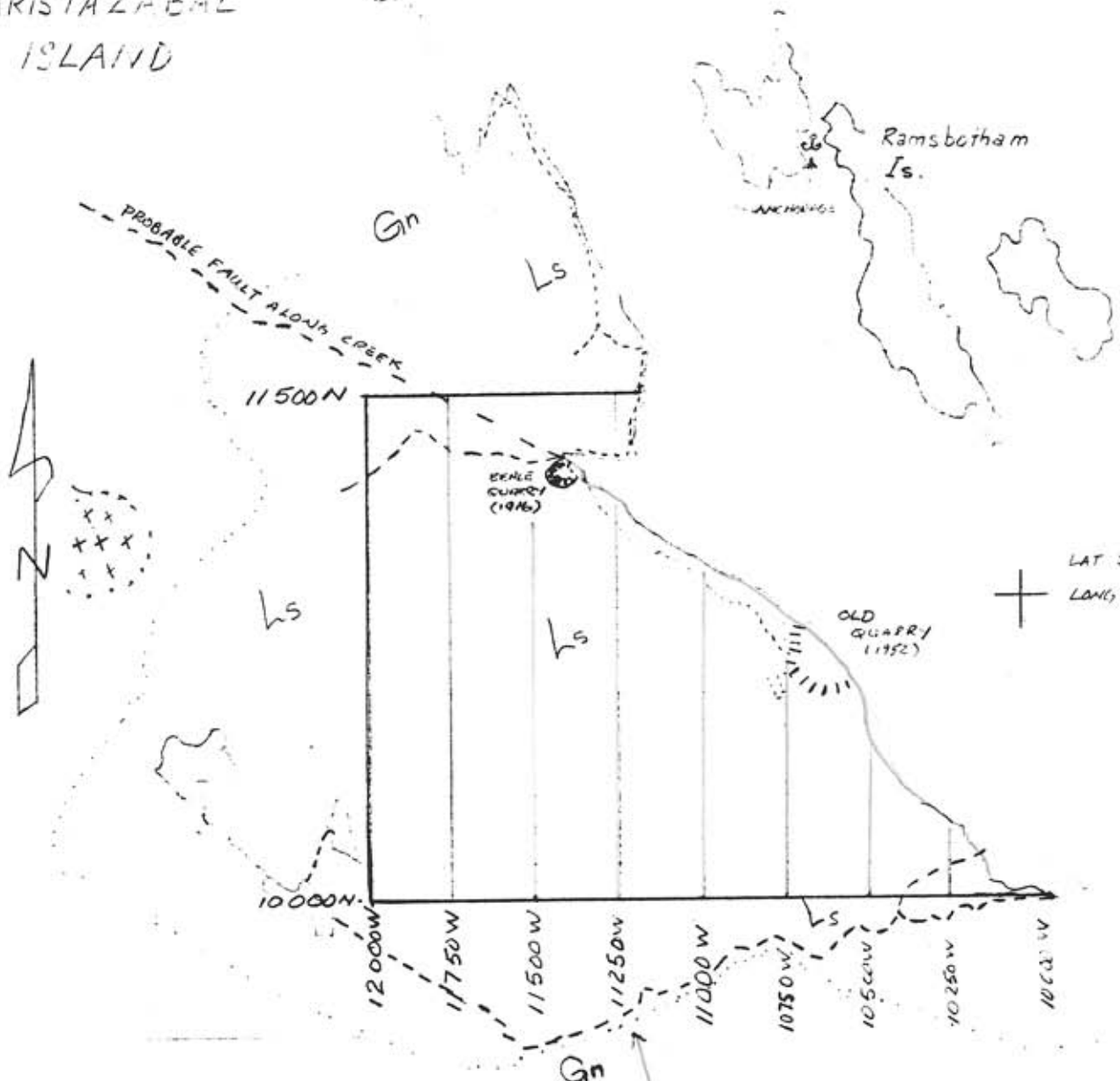
10250 W

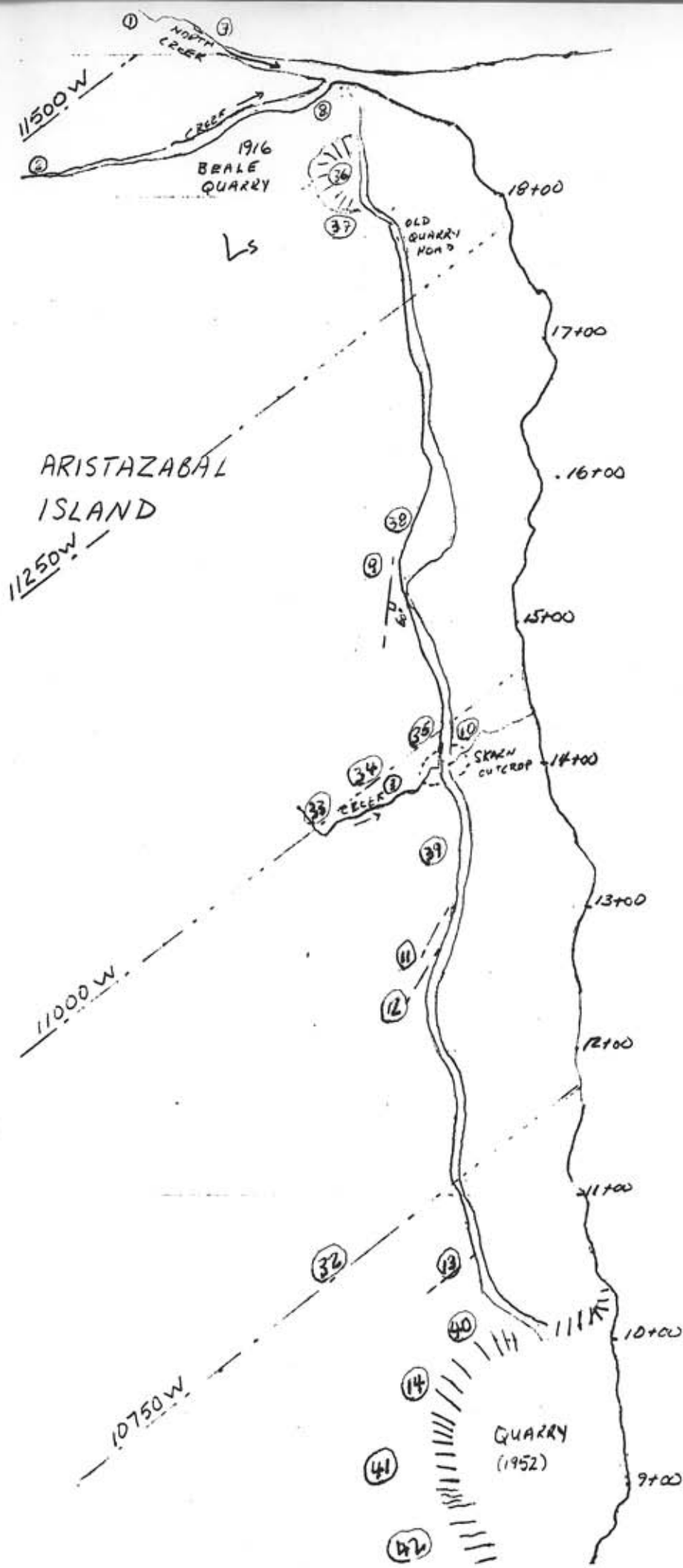
10000 W

Gn

PROBABLE FAULT ALONG CREEK + CONTACT

Ls:- LIMESTONE (WHITE MARBLE)  
 Gn:- Gneiss  
 ++ :- Diorite





# LAREDO CHANNEL

ANDESITIC DIKES  
AND SKARN  
SAMPLED NORTH  
OF 1952 QUARRY  
SEPT/76 / FEB 87

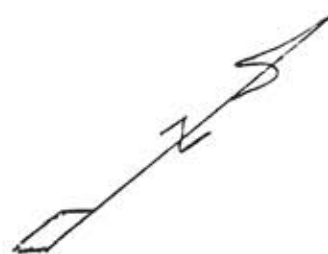
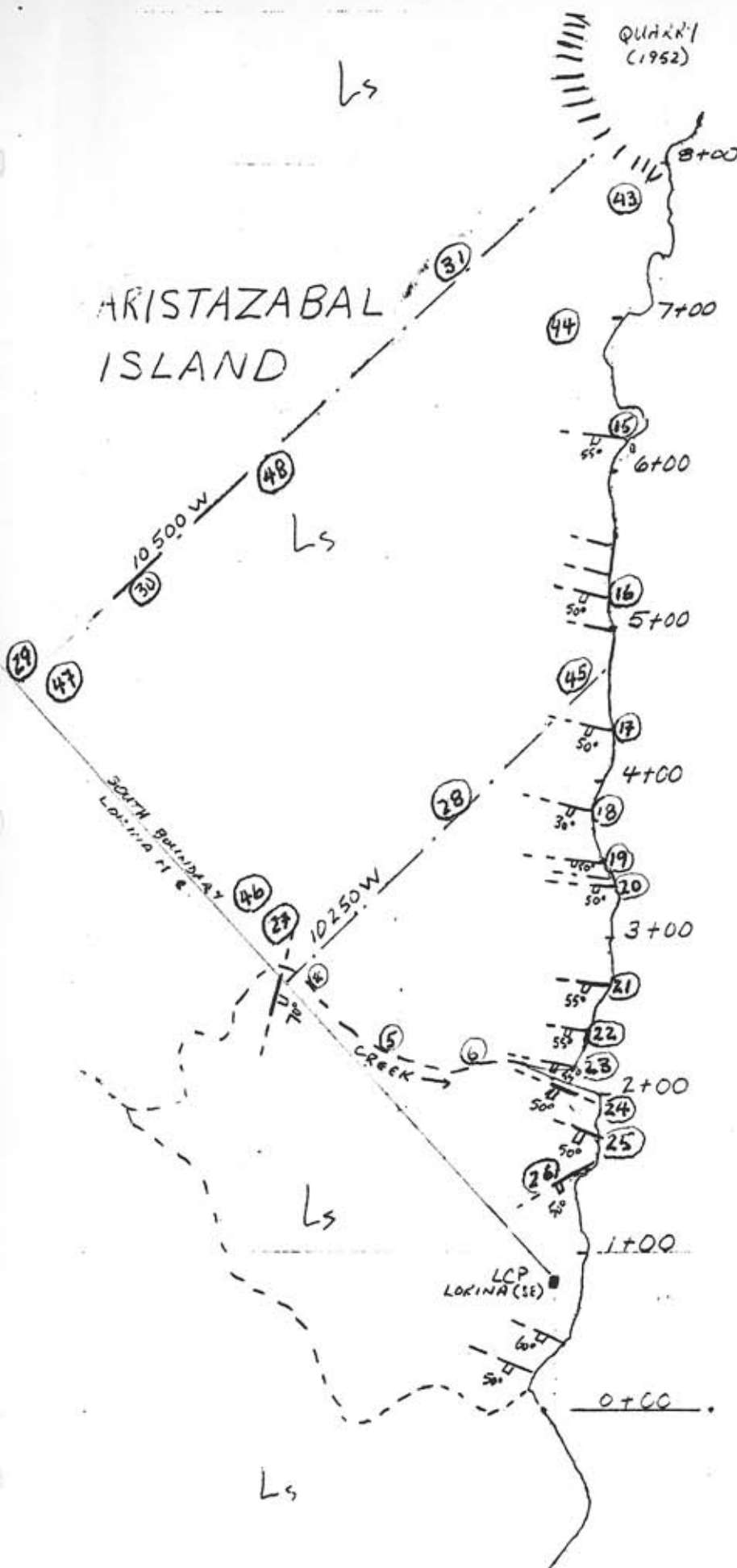


SAMPLES NUMBERED  
CONSECUTIVELY  
SEE ANALYSIS SHEETS  
ATTACHED.

ARISTAZABAL  
ISLAND

LAREDO  
CHANNEL

QUARRY  
(1952)



ANDESITIC DIKES  
SAMPLED ON BENCH  
SOUTH OF 1952  
QUARRY  
SEPT 1986 / FEB 1987



## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1-SOIL P2 TO P3-ROCK AU#8 ANALYSIS BY FA+AA FROM 10 GM SAMPLE.

DATE RECEIVED: JULY 27 1987

DATE REPORT MAILED:

*Aug 8/87*ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

VANANDA GOLD LTD. PROJECT-AR12 File # 87-2754 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU#8 PPB
K 3547 1 AZ	1	11	5	76	.1	9	7	459	2.68	6	5	ND	2	22	1	2	2	49	.57	.047	6	6	.75	213	.16	2	1.53	.02	.04	1	3
K 3547 2 AZ	3	24	13	55	.1	45	25	1365	5.61	13	5	ND	2	32	1	2	2	44	1.90	.076	8	29	1.43	126	.07	6	1.84	.02	.03	3	1
K 3547 3 AZ	2	20	6	46	.1	29	9	1232	3.13	63	5	ND	2	37	1	2	2	52	2.21	.085	9	21	1.40	141	.07	6	1.57	.01	.03	2	1
K 3547 4 AZ	2	20	9	69	.2	15	7	1206	2.50	7	5	ND	1	34	1	2	2	44	2.14	.079	9	10	.68	65	.08	7	1.40	.01	.04	1	1
K 3547 5 AZ	2	16	7	39	.2	34	9	802	3.11	158	12	ND	2	54	1	9	2	45	4.16	.082	9	23	1.35	154	.07	4	1.50	.04	.03	3	2
K 3547 6 AZ	2	17	7	32	.1	28	9	699	2.95	39	5	ND	2	158	1	2	2	41	5.69	.085	8	23	1.32	162	.07	3	2.34	.11	.02	5	2
STD C/AU-S	20	59	40	132	7.5	71	29	971	4.18	40	27	8	38	51	19	14	19	59	.50	.093	39	60	.94	182	.08	34	1.82	.06	.13	14	47

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU88
	PPH	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPH	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
K 3505	2	202	7	32	.1	7	12	356	2.91	5	5	ND	4	24	1	2	2	22	1.29	.090	10	3	.54	18	.13	3	.88	.15	.12	1	5
K 3506	2	23	4	23	.1	44	11	77	1.32	4	5	ND	3	62	1	3	2	17	3.41	.069	5	30	.81	20	.09	6	1.69	.17	.08	2	1
K 3507	2	45	2	40	.1	23	23	170	3.46	7	5	ND	2	8	1	2	2	337	.49	.106	4	63	.99	44	.28	5	1.21	.13	.73	1	1
K 3508	4	489	5	17	.2	33	36	85	5.02	7	5	ND	5	261	1	2	2	33	3.21	.060	5	1	.12	30	.24	4	3.63	.38	.03	1	16
K 3509	2	41	4	50	.1	26	21	331	4.11	6	5	ND	3	8	1	2	2	47	1.15	.111	7	20	1.14	58	.25	4	1.01	.19	.31	2	8
K 3511	1	40	5	23	.1	14	14	159	4.44	6	5	ND	1	15	1	2	2	113	1.04	.092	4	9	.81	4	.33	6	.82	.11	.02	2	6
K 3512	1	86	3	56	.1	3	11	549	3.94	9	5	ND	1	200	1	2	2	94	2.88	.060	3	1	1.04	121	.24	4	3.63	.54	.26	1	10
K 3513	3	13	9	8	.1	2	1	169	.86	3	5	ND	36	5	1	2	3	4	.08	.006	39	2	.04	15	.03	2	.20	.06	.10	1	2
K 3515	3	603	22	170	.5	83	44	245	7.44	6	5	ND	1	33	1	2	2	160	2.79	.051	2	257	1.20	14	.35	7	2.66	.01	.05	1	1
K 3516	1	5	3	2	.1	2	1	56	.44	2	5	ND	7	15	1	2	3	1	.14	.001	2	4	.01	6	.01	2	.04	.01	.02	1	2
K 3517	2	85	8	36	.2	44	41	140	5.94	9	5	ND	1	12	1	2	2	215	.74	.092	3	54	.83	30	.44	6	1.08	.11	.57	2	1
K 3529	3	266	4	44	.2	8	12	431	3.77	4	5	ND	3	28	1	2	2	49	1.49	.148	13	8	.74	51	.29	3	1.19	.17	.29	1	3
K 3530	1	44	3	24	.1	43	13	182	2.20	6	5	ND	2	19	1	4	3	69	1.47	.055	4	41	.78	10	.24	3	.83	.18	.08	2	1
K 3531	1	124	5	24	.1	51	17	231	2.79	5	5	ND	2	25	1	2	2	74	1.56	.054	4	68	.79	7	.25	5	1.12	.21	.11	1	2
K 3532	1	49	2	52	.1	13	17	404	4.45	5	5	ND	2	109	1	2	2	148	1.31	.059	5	10	1.32	124	.31	2	1.70	.18	.34	1	3
K 3533	1	16	2	14	.1	1	4	212	3.19	7	5	ND	2	36	1	2	2	5	.93	.091	7	1	.46	20	.20	3	.87	.08	.10	1	2
K 3534	2	37	5	85	.1	31	22	448	5.27	9	5	ND	5	11	1	4	2	121	1.37	.068	6	18	1.79	16	.39	4	1.70	.18	.08	1	1
K 3535	1	49	4	22	.1	11	9	82	1.30	2	5	ND	11	5	1	2	3	2	.36	.006	15	4	.02	14	.05	2	.12	.05	.09	1	1
K 3536	4	291	5	36	.1	8	13	401	3.23	10	5	ND	5	38	1	2	2	30	1.71	.089	12	3	.61	17	.16	3	1.33	.24	.12	2	4
K 3537	2	21	9	10	.1	1	4	82	2.48	5	5	ND	2	35	1	2	2	2	1.03	.091	8	1	.19	12	.13	3	.68	.12	.06	1	1
K 3538	2	664	7	37	.4	97	48	245	7.45	7	5	ND	1	25	1	2	2	151	4.94	.039	2	210	.99	6	.30	5	3.68	.03	.02	1	1
K 3539	2	107	6	33	.2	46	37	168	5.47	5	5	ND	2	14	1	2	2	286	1.06	.096	4	67	.71	25	.32	4	1.34	.09	.54	1	1
K 3540	2	60	2	53	.1	12	16	419	4.27	6	5	ND	1	72	1	2	2	137	1.42	.066	5	10	1.45	116	.34	2	1.77	.19	.32	1	2
K 3541	6	17	2	11	.1	25	20	126	4.48	12	5	ND	1	71	1	5	2	250	1.36	.076	2	12	7.00	37	.54	2	5.56	.29	3.07	1	3
K 3542	1	47	5	17	.1	141	15	25	1.65	7	7	ND	1	25	1	2	2	28	.81	.075	2	100	2.92	22	.87	4	1.44	.06	.33	1	1
K 3543	1	31	4	33	.1	44	12	166	1.66	4	5	ND	1	73	1	2	2	46	1.99	.044	3	47	.66	11	.16	4	1.84	.40	.06	1	3
K 3544	1	24	2	25	.2	40	12	199	2.19	2	5	ND	2	21	1	2	3	74	1.72	.056	4	44	.90	8	.25	2	.94	.21	.09	2	1
K 3545	2	132	2	76	.4	65	26	297	5.16	7	5	ND	1	28	1	2	2	120	.96	.046	3	140	1.59	60	.35	2	1.92	.14	.42	1	3
K 3546	2	19205	17	49	32.1	6	51	456	1.88	86	5	7	2	14	6	11	58	27	7.77	.098	6	5	.19	1	.08	10	1.25	.12	.01	3	8650
STD /AU-R	19	57	43	133	7.5	72	29	954	4.01	44	18	7	39	51	19	16	23	59	.50	.092	39	59	.90	183	.08	34	1.73	.06	.14	13	480



## WHOLE ROCK ICP ANALYSIS

A .1000 GRAM SAMPLE IS FUSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 50 MLS 5% HNO3.  
 - SAMPLE TYPE: Rock Chips

DATE RECEIVED: JULY 27 1987

DATE REPORT MAILED: *Aug 8/87*ASSAYER: *D. C. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

VANADA GOLD LTD PROJECT-AR12 File # 87-2754 Page 3

SAMPLE#	SI02 %	AL2O3 %	FE2O3 %	MGO %	CAO %	NA2O %	K2O %	TiO2 %	P2O5 %	MNO %	CR2O3 %	BA PPM	LOI %	SUM %
K 3510	.66	.01	.09	1.40	55.05	.10	.25	.01	.01	.01	.01	5	42.2	99.80
K 3514	.16	.01	.07	.85	56.13	.33	.31	.01	.01	.01	.01	5	42.0	99.90
K 3518	1.95	.52	.44	15.65	36.62	.31	.05	.04	.02	.02	.01	22	44.1	99.73
K 3519	.22	.01	.03	.21	56.94	.48	.05	.01	.01	.01	.01	5	42.0	99.98
K 3520	.21	.01	.05	.26	55.87	.47	.27	.01	.01	.01	.01	5	42.9	100.08
K 3521	.16	.01	.04	.13	55.71	.59	.05	.01	.01	.01	.01	5	43.2	99.93
K 3522	.16	.01	.03	.13	55.98	.78	.17	.01	.01	.01	.01	5	42.6	99.90
K 3523	.16	.01	.03	.12	55.75	.83	.34	.01	.01	.01	.01	5	42.7	99.98
K 3524	.22	.01	.03	.14	54.77	.97	.32	.01	.01	.01	.01	5	43.5	100.00
K 3525	.15	.01	.03	.13	55.65	1.01	.05	.01	.01	.01	.01	5	43.0	100.07
K 3526	.12	.01	.03	.15	55.86	.80	.22	.01	.01	.01	.01	5	42.8	100.03
K 3527	.19	.01	.03	.14	55.34	.89	.24	.01	.01	.01	.01	5	43.0	99.88
K 3548	.09	.01	.02	.13	56.09	1.07	.05	.01	.01	.01	.01	5	42.4	99.90
STD 50-4	67.74	10.24	3.40	.95	1.60	1.35	2.11	.54	.21	.07	.01	756	11.4	99.75

MIO3A/11E

N  
4  
1:50,000

0 500 M

