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**VANCOUVER, B.C.**

**DIAMOND DRILLING REPORT**

on the

**RUBY MINERAL CLAIMS**

Vancouver Mining Division  
British Columbia

N.T.S. 092G/12W, 092G/13W, 092F/09E  
Latitude 49° 47' 00" N  
Longitude 123° 57' 00" W

for

Mr. Charles Boitard  
2245 West 13th Avenue  
Vancouver, B.C.  
V6K 2S4

by

P. REYNOLDS, B.Sc., P.Geol.  
September 23, 1997

**GEOLOGICAL SURVEY BRANCH**  
**ASSESSMENT REPORT**

25,153

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## 1. SUMMARY

- 1.1 The Ruby property consists of six contiguous mineral claims totaling 55 units. The claims are located approximately 80 kilometres northwest of Vancouver, B.C. The claims are accessible by good paved and gravel roads from Earls Cove or Egmont.
- 1.2 The property is underlain for the most part by hornblende biotite quartz porphyry of the Cretaceous coast batholith.
- 1.3 Five diamond drill holes were completed in 1997 to test for gold and silver mineralization. Only four of the holes have been submitted for assessment. No economic amounts of gold or silver mineralization were encountered.
- 1.4 A modest amount of data on the local geology and mineral showings exists. It is recommended that this data be reviewed and plotted on a common database. Further exploration should be directed at the known mineralized systems. Systematic outcrop mapping should be useful in determining the strike extent of the various mineral showings.

## 2. INTRODUCTION

- 2.1 This report has been prepared at the request of Mr. Charles Boitard, claim owner, to satisfy assessment requirements.
- 2.2 The information for the following report was obtained from sources cited under references and from drill logs of diamond drill holes 97-1 through 97-4. The drilling program was carried out by Mr. Charles Boitard between January 20 and April 15, 1997. Mr. Michael Moore, P. Geo., logged drill holes 97-1 through 97-4 while employed by the Author. Only costs associated with the first four holes have been submitted for assessment. The diamond drill core is stored at the drill sites on the property.
- 2.3 The registered owner of the Ruby claims is Mr. Charles Boitard. The claims lie at the north end of the Sechelt peninsula approximately 80 kilometres northwest of Vancouver, B.C. Access to the claims is by paved highway and a network of logging roads.

## 3. LOCATION, ACCESS AND PHYSIOGRAPHY

- 3.1 The Ruby claims are located at the north end of the Sechelt peninsula approximately 80 kilometres northwest of Vancouver, B.C. The claims are centered at 49° 47' north latitude and 123° 57' west longitude on NTS map sheet 092G/12W. The claims are in the Vancouver Mining Division.

3.2 Access is provided by Provincial Highway 101 from the Langdale ferry terminal near Gibsons to Earls Cove. A paved road from Earls Cove to Egmont cuts through the southern portion of the claims. Good dirt roads provide access to most of the claim area.

3.3 The claims occupy an area of sharply undulating coastal lowlands leading inland to steeply rising mountainous terrain. The property lies between elevations zero to 180 metres above sea level. Vegetation consists of salal, alder, fir Hemlock and cedar trees. Water for all stages of exploration is available from nearby lakes. The climate is temperate, typical of the southern coast.

4. CLAIM STATUS

4.1 The Ruby property comprises 6 mineral claims totaling 55 units. Complete claim information is as follows:

<u>NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u> *
Ruby #1	15	327142	29 June 2003
Ruby #2	6	327143	30 June 2003
Ruby #3	20	343173	20 January 2004
Ruby #4	12	343174	21 January 2004
Taj 1	1	316566	12 March 2004
Taj 3	1	316568	12 March 2004

\* Includes assessment currently being applied.

4.3 All claims are recorded in the name of Mr. Charles Boitard. Any legal aspect of claim ownership is beyond the scope of this report.

## 5. HISTORY

- 5.1 The earliest recorded work in the area was in 1913 when Mr. R. Durnsford Jr. drove a tunnel near Earls Cove (Stein adit). In 1937, work was first recorded on the Cambrian Chieftain property, located approximately seven kilometres southeast of Earls Cove.
- 5.2 In 1952, gold and silver bearing massive sulphide veins were located along the beach on what is now the Ruby #3 claim. The showings reportedly assayed up to 6.21 ounces per ton gold and 6.4 ounces per ton silver. In 1965, Abacon Minerals Exploration Ltd. shipped 106 tons of this material to the Tacoma smelter. This shipment returned 34 ounces of gold, 45 ounces of silver and 170 pounds of copper. The claims subsequently lapsed.
- 5.3 In 1982, Chalice Mining Inc. acquired the ground by staking and carried out exploration programs consisting of prospecting, geochemical and geophysical surveys, geological mapping, trenching and 572 metres of diamond drilling in 21 holes.
- 5.4 Blue Chip Resources Inc. optioned the ground from Chalice and carried out more geochemical and IP surveys in 1987 and 1988.
- 5.5 Mr. Boitard acquired the claims in 1995. Since that time, he has re-established the grid and carried out induced polarization (IP) surveys over portions of the property. In 1996, he drilled four diamond core holes on the Ruby #3 claim.

## 6. REGIONAL GEOLOGY

- 6.1 The Ruby claims are situated on the western margin of the Coast Plutonic Complex. The area is underlain primarily by Cretaceous age batholithic rocks of mainly quartz diorite composition with lesser diorite and granodiorite.
- 6.2 Northwesterly trending bodies of intermediate volcanics and sediments form roof pendants within the intrusives. The roof pendants have been correlated with the Upper Triassic Karmutsen Formation.
- 6.3 The above sequence of rocks has been intruded by numerous feldspar porphyry, diorite and andesite dykes.

## 7. PROPERTY GEOLOGY

- 7.1 The Ruby claims appear to be underlain by a hornblende biotite quartz diorite which locally grades into a hornblende quartz diorite, diorite or monzodiorite. The quartz diorite weathers to greyish white and iron staining occurs in patches around fracture zones.

7.2 The quartz diorite is intruded by feldspar porphyry, diorite and dark green to grey andesitic dykes. Dyke widths vary from a few centimetre to several tens of metres and have variable orientations.

7.3 Alteration, as seen in the drill core, consists of variable though generally weak propylitic and potassic alteration.

## 8. DIAMOND DRILLING

8.1 During the period January 20 to April 15, 1997 five diamond drill holes were completed on the Ruby #1 and Ruby #3 claims. Four of the holes are being submitted for assessment. The drill hole locations are plotted on Figure 4.

8.2 Drilling was supervised by Mr. Charles Boitard. The core was logged by Mr. Michael Moore, P. Geo. Core size is NQ. The core is stored at the drill sites. Drill logs are included in appendix III.

8.3 The following table sets out the particulars of the drill holes.

DDH #	DEPTH
97-1	119.94 m
97-2	82.32 m
97-3	149.39 m
97-4	175.91 m

8.4 All drill holes intersected alternating zones of granodiorite and crosscutting andesite and feldspar porphyry dykes. Diamond drill hole 97-4 intersected minor quartz veinlets mineralized with pyrite. The pyrite occurs as veinlets up to 2 millimetres wide. Four samples of this material was assayed at Acme Analytical Laboratories in Vancouver. No gold values were returned. Drill hole sections were not plotted.

9. CONCLUSION AND RECOMMENDATIONS

9.1 The 1997 diamond drilling failed to intersect any gold mineralized zones.

9.2 Past work has shown that gold and silver mineralization occurs in quartz pyrite veins and pyritic breccias. Highly variable gold grades up to 300 grams per tonne have been reported. Veins are typically narrow but appear to thicken adjacent to cross cutting andesitic dykes and small shear zones.

9.3 A modest amount of data on the local geology and mineral showings exists. This data should be reviewed and plotted on a common database. Further exploration should be directed at the known mineralized systems. Systematic outcrop mapping should be usefull in determining the strike extent of the various mineral showings.

10. REFERENCES

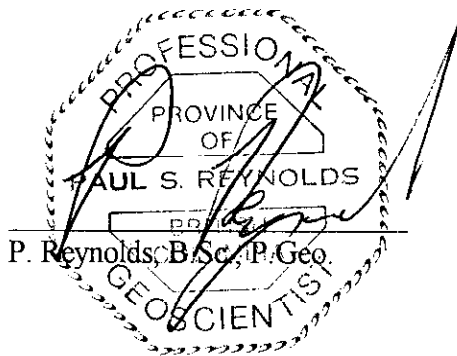
- Grove, Edward W. Geological Report and Work Proposal on the Chalice Mining Inc. Egmont Property. July 15, 1985. BCEMPR AR 14,736.
- Howell, William A. Geological, Geochemical and Geophysical Report on Egmont Property for Blue Chip Resources Inc. February 29, 1988. BCEMPR AR 17,941.
- Reynolds, Paul Diamond Drilling Report on the Ruby Mineral Claims, Vancouver Mining Division. September 21, 1996.

11. CERTIFICATE

I, Paul Reynolds, of the city of Vancouver in the province of British Columbia do hereby certify that:

- 1) I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of British Columbia.
- 2) I am a graduate of the University of British Columbia with a B.Sc. degree in geology.
- 3) I have practiced my profession as exploration geologist since graduation in 1987.
- 4) This report is based on a review of previous reports and diamond drill logs DDH 97-1, 97-2, 97-3 and 97-4. These holes were logged by Mr. Michael Moore, P. Geo., while employed by Reynolds Geological Ltd.
- 5) I have no interest, directly or indirectly, in the Ruby property nor do I expect to receive any interest in the future.
- 6) Permission is hereby granted to Mr. Charles Boitard to use this report in support of any filing to be submitted to the Ministry of Energy, Mines and Petroleum Resources of the Province of British Columbia for the purpose of filing assessment on the Ruby mineral claims.

Dated this 23rd day of September, 1997.



## STATEMENT OF QUALIFICATIONS

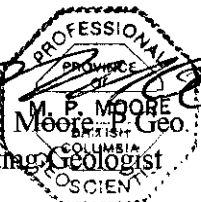
### CERTIFICATE

I, MICHAEL MOORE, do hereby certify that I am an independent Consulting Geologist with Inclination Earth Sciences Inc. at 3129 West 20th Avenue., Vancouver B.C., V6L 1H7; Telephone No: (604) 737-8786

#### I FURTHER CERTIFY THAT:

1. I am a geology graduate of Carleton University of Ontario (B.Sc. Honours, 1989) and I am a registered Professional Geologist with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), with Certificate No. 21586.
2. I have practised my profession since 1989 as an independent consultant to junior and senior mining companies based in Canada and the United States.
3. The drill log information (DDH 1 to DDH 4) in this report is based on work conducted and supervised by me on the Ruby Property (April 2, 1997; Egmont B.C.), for Reynolds Geological Inc.
4. I do not have any personal interest, directly and indirectly in the securities and management of Reynolds Geological Inc.
5. I have given permission to Reynolds Geological Inc to use this report for underwriting purposes.

Dated this 24<sup>th</sup> day of September 1997, in Vancouver, B.C. , Canada.

  
Michael Moore, P. Geo.  
Consulting Geologist

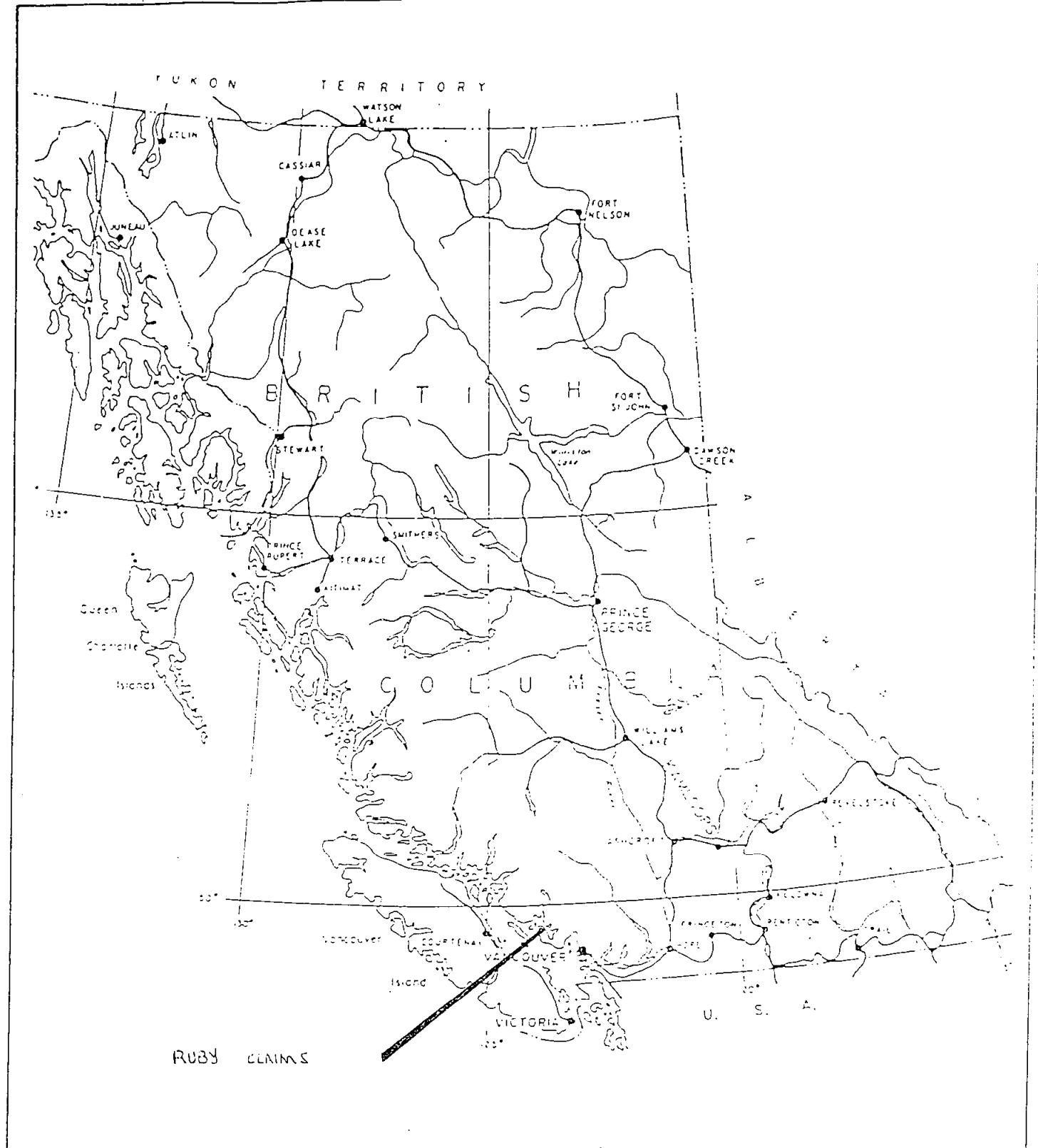
APPENDIX I  
STATEMENT OF COSTS

STATEMENT OF COSTS

Diamond Drilling	529 metres @ \$80/metre	42,320
Truck Rental	10 days @ \$50/day	500
Supervision	10 days @ \$250/day	2,500
Room and Board		1,500
Assays	4 @ \$20/assay	80
Core Logging		700
Reporting, and Drafting		5,000
<u>GST</u>		<u>3,682</u>
TOTAL		\$56,282

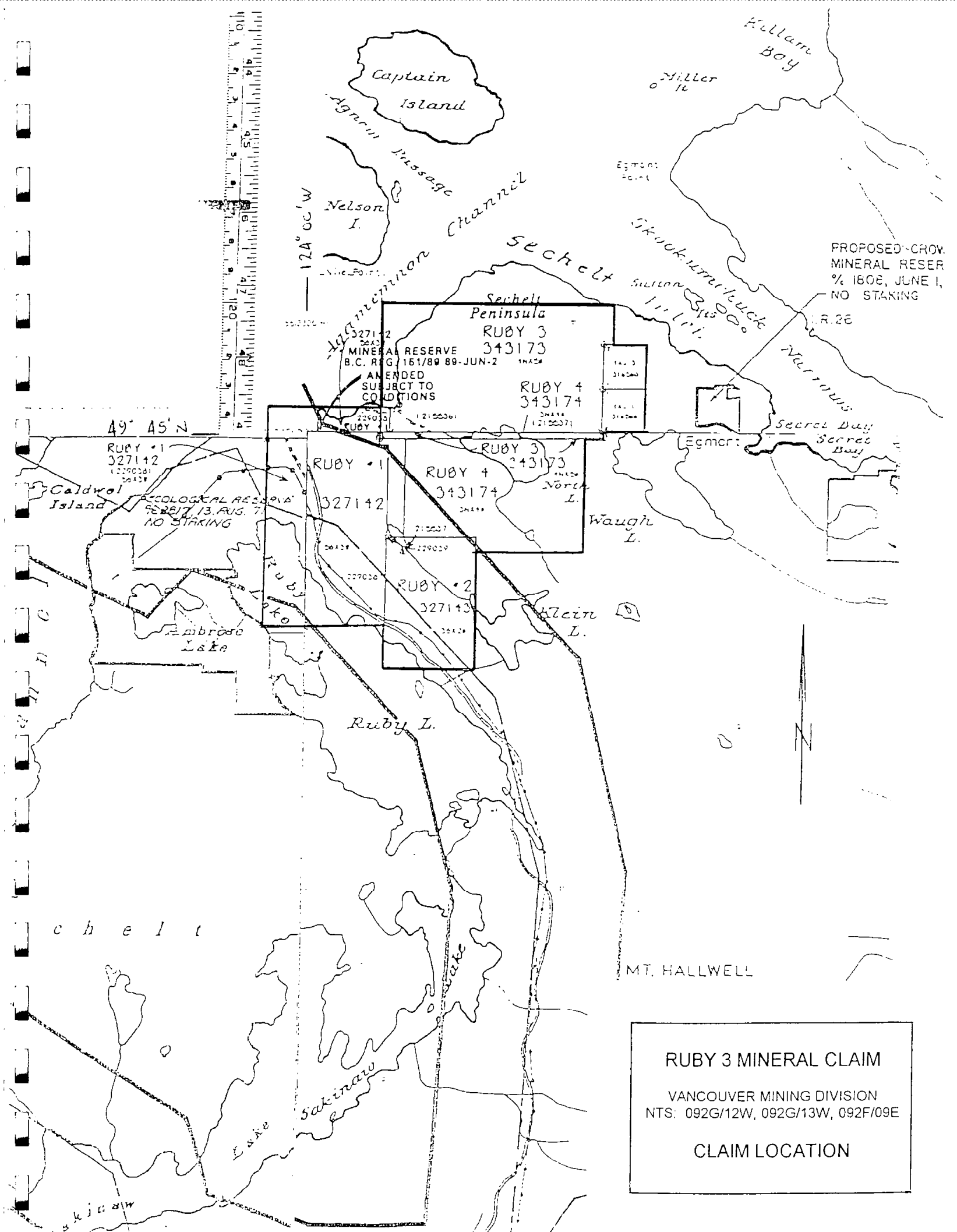
APPENDIX II

FIGURES 1-4



RUBY CLAIMS

REYNOLDS GEOLOGICAL			
LOCATION MAP			
RUBY CLAIMS			
DRAWN: PR.		FIG. NO. 1	



**RUBY 3 MINERAL CLAIM**

VANCOUVER MINING DIVISION  
 NTS: 092G/12W, 092G/13W, 092F/09E

**CLAIM LOCATION**

APPENDIX III  
DIAMOND DRILL LOGS



## DIAMOND DRILL RECORD

HOLE NO:

DPH-1-97

PAGE NO:

2 of 3

DEPTH Feet		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE			
FROM	TO									
92.4	96.5	100%	granodiorite - weak/mod chlorite after biotite & on fractures							
96.5	103.6	100	andesite dyke							
103.6	113.3	100	granodiorite - weak pervasive chlorite							
113.3	115.5	100	andesite dyke							
115.5	125.1	100	granodiorite - mod-pervasive chl/weak kspn							
125.1	128.7	100	andesite dyke - mod pervasive chl. ± 6" of chloritic granodiorite							
128.7	132.3	100	granodiorite - weak pervasive chl.							
132.3	135.3	100	andesite dyke							
135.0	158.5	100	granodiorite: weak pervasive chlorite alt locally strong kspn & chlorite especially on fractures							
158.5	162.7	100	- Fine grained andesitic dyke							
162.7	170.7	100	granodiorite - multiple fine grained andesite dykes - grad - local strong chlorite alt							
170.7	174.3	100	Fine grained andesite dyke							
174.3	224.8	100	granodiorite - weak pervasive chl. alt local narrow sections of kspn & chl.							
224.8	247.4	100	Fine grained rhyolite - moderate - Pervasive chl (dacite?)							
247.4	248.5	100	andesite dyke - strong chl. at contact							
248.5	255.8	100	chloritic rhyolite/dacite							
255.8	295.1	100	Andesite dyke							
295.1	298.3	100	silicified andesite dyke							
298.3	306.5	100	coarse grained agglomerate							
306.5	320.3	100	granodiorite weak pervasive chl.							
320.3	332.5	100	Fine grained andesite dyke - weak chl.							











## DIAMOND DRILL RECORD

HOLE NO:

DDH-4-97

PAGE NO:

2 of 2

DEPTH		RECOVERY	DESCRIPTION	SAMPLE NO.	FROM	TO	WIDTH OF SAMPLE	Au		
FROM	TO									
271.1	289.7	100	Qtz-diorite - minor chloritic alt <sup>A</sup>							
289.7	353.8	100	Diorite with abundant mix of med-to coarse grained granodiorite							
			- 322.8' - 2mm wide band of pyrite							
			(227 → 330) - disseminations / 2mm wide pyrite bands - minor Qtz veins (@ 1-2% py)	36395			3'			
			(330 → 333) - same	36396			3'			
			(333 → 335) - same	36397			2'			
353.8	361	100	Qtz-diorite - minor chl / kspan							
361	432.2	100	Diorite - minor chloritic alt <sup>A</sup> ; trace diss. pyrite. - mixed with coarse grain granodiorite. - brecciated							
432.2	440	100	Finegrained diorite; locally 1% diss. pyrite @ 1% Qtz veinlets - X cutting							
			(432.7 → 435.7) - test	36398			3'			
440	450.8	100	Granodiorite - Diorite mix - extremely variable locally. - often brecciated. minor chloritic alt <sup>A</sup> ; few Qtz stringers							
450.8	577	100	coarse grained granodiorite - minor chloritic alt <sup>A</sup> mixed with med. grained diorite trace pyrite; minor chloritic zones common brecciation - "xenoliths" end of Hole.							

P.02/02

604 253 1716 TO 5838923

APR 16 '97 13:30 FR ACME LABS

ACME ANALYTICAL LABORATORIES LTD. 352 B. DASTINGS ST. VANCOUVER BC V6A 1K6 PHONE (604) 253-5150 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE

BOITARD - R023 DDH 97-4



Reynolds Geological Ltd. File # 97-1561

4034 W. 49th Ave, Vancouver BC V6N 3B2 Submitted by: Paul Reynolds

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	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
D 38395327-33e	<1	146	3	89	.3	18	24	298	3.94	<2	7	<2	<2	105	.3	<2	<2	94	2.24	.118	3	19	1.35	23	.20	11	2.46	.21	.08	<2	6
D 3839633c-333	<1	86	<3	62	<.3	13	20	321	2.92	2	<5	<2	<2	113	.2	<2	<2	77	1.88	.105	3	16	1.12	41	.19	8	2.28	.27	.14	<2	3
D 38397333-335	1	40	<3	61	<.3	8	17	264	4.06	<2	<5	<2	<2	58	<.2	<2	<2	92	1.34	.151	5	17	.92	84	.18	3	1.18	.09	.19	<2	3
D 3839843A-436	3	6	4	74	<.3	<1	4	635	2.08	<2	<5	<2	<2	35	<.2	<2	<2	5	.66	.064	4	7	.40	24	.07	<3	1.02	.06	.08	2	1
RE D 38398	3	9	4	72	<.3	1	4	626	2.03	2	<5	<2	<2	35	<.2	<2	<2	4	.64	.061	4	7	.39	25	.07	<3	1.00	.06	.07	2	1
STANDARD C3/AU-R	26	69	36	168	5.5	37	11	721	3.37	52	20	3	18	31	25.1	14	29	82	.61	.090	19	176	.66	145	.11	18	1.91	.03	.17	20	527

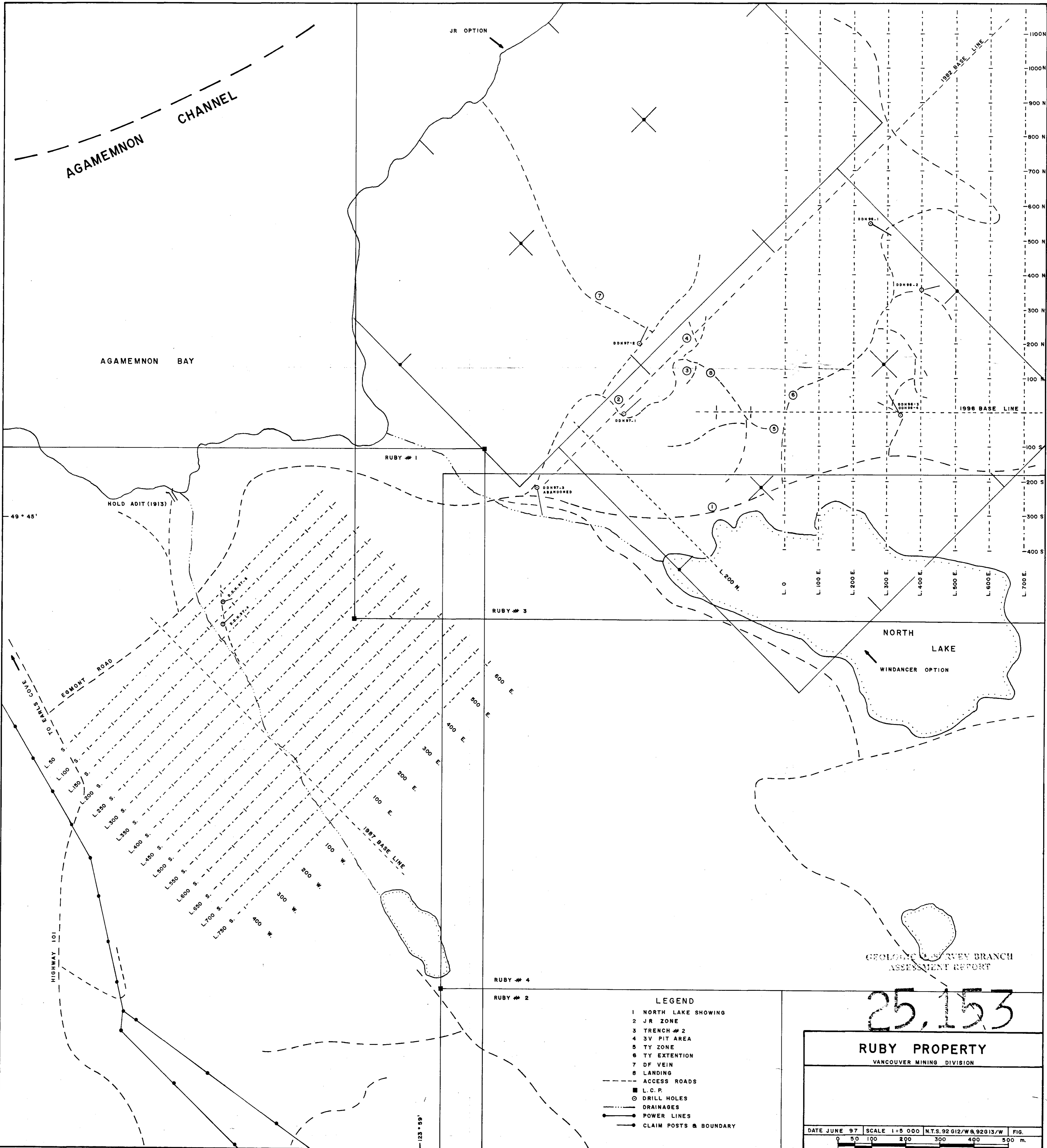
ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: CORE AU\* - IGNITED, AQUA-REGIA/HIBK EXTRACT, GF/AA FINISHED.(10 GM)  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: APR 7 1997 DATE REPORT MAILED: April 16/97 SIGNED BY: *C.L.* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Date: *16/97* FA

\*\* TOTAL PAGE .002 \*\*



AGAMEMNON CHANNEL

AGAMEMNON BAY

HOLD ADIT (1913)

JR OPTION

1996 BASE LINE

RUBY # 1

RUBY # 3

NORTH LAKE  
WINDANCER OPTION

EGMONT ROAD  
TO EARLS COVE

HIGHWAY 101

L. 50 S.  
L. 100 S.  
L. 150 S.  
L. 200 S.  
L. 250 S.  
L. 300 S.  
L. 350 S.  
L. 400 S.  
L. 450 S.  
L. 500 S.  
L. 550 S.  
L. 600 S.  
L. 650 S.  
L. 700 S.  
L. 750 S.

100 E.  
200 E.  
300 E.  
400 E.  
500 E.  
600 E.

100 W.  
200 W.  
300 W.  
400 W.

1997 BASE LINE

RUBY # 4  
RUBY # 2

- LEGEND**
- 1 NORTH LAKE SHOWING
  - 2 JR ZONE
  - 3 TRENCH # 2
  - 4 3V PIT AREA
  - 5 TY ZONE
  - 6 TY EXTENSION
  - 7 DF VEIN
  - 8 LANDING
  - - - ACCESS ROADS
  - L. C. P.
  - DRILL HOLES
  - DRAINAGES
  - POWER LINES
  - CLAIM POSTS & BOUNDARY

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

25,153

**RUBY PROPERTY**  
VANCOUVER MINING DIVISION

DATE JUNE 97 SCALE 1:5 000 N.T.S. 92 G12/W 8, 92 G13/W FIG.  
0 50 100 200 300 400 500 m.