

Report on the Geochemistry
and Preliminary Geology of
the Kimo Claims

Nanaimo Mining Division

50° 27'; 127° 50' 30"

Owner-author W.G. Botel, P.Eng.

May 1980

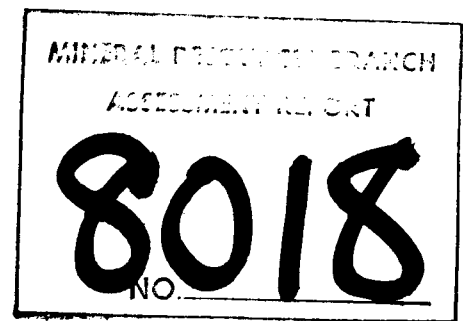


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Introduction

The Kimo 1-6 mineral claims were staked April 16, 1979 by the owner W.G. Botel.

Evidence of old workings, ie. a helicopter landing site is visible from the water east of Koskimo island. Several old trenches were found on the claims along with some scattered diamond drill core.

Claims

Kimo 1-6 inclusive. Record numbers 376-381 inclusive. Date of Record May 2, 1979. Nanaimo mining division.

Location and access

The claims are on Map sheet 92L/5W, 800 meters to 1300 meters southeast of Koskimo island. The Kimo #1,2 initial posts are at latitude $50^{\circ} 27'$; longitude $127^{\circ} 50' 30''$.

The claim line runs southeast for 4500 feet.

Access is by helicopter or float plane from Port Hardy or boat from Coal Harbour.

Purpose

The present work was done with the hope of finding an epithermal gold deposit similar to those in the Queen Charlottes.

Work Done

The initial work, after staking the claims, consisted of prospecting, silt sampling the creeks draining the claims, and sampling of the old scattered drill core. This was followed in 1980 by running a base line marked at 25 meter intervals from the Kimo 1&2 initial posts south-east to the Kimo 5&6 initial posts.

Some geologic mapping of a preliminary nature was done along this line and 3 rock samples were taken (marked A,B,C, on Assay sheets Appendix 2). In addition 3 more rock samples and 3 large samples of the remaining drill core were taken.

Assaying

All assays were run by Min-En Laboratories Ltd. of North Vancouver following standard procedures.

Samples were analysed for; Zn.,Ni,Co,Ag,Au,Mo, Cu, and Pb.

Results

Sample locations are plotted on Fig. 1 and the reader is referred to the assay sheets Appendices 1&2 for the values. The highest value (#874) in Cu,Zn,Pb, and Hg. occurs in the creek near and draining a trenched and diamond drilled area. A drill core sample (#5) yielded 11,800p.p.m. Zn., 70 p.p.m. Pb., 202 p.p.m. Cu.,

300 p.p.m. Mo. A surface sample #2 Appendix 2 returned 6,980 p.p.m. Zn., and 960 p.p.m. Cu.

The other sample locations yielded considerably lower values but do indicate an anomalous zone of metal concentration along the baseline. The reason for this may be the calcareous sediment/tuff contact which is roughly superimposed along the line.

Geology

Scattered outcrops that occur near the baseline indicate a rock sequence from northeast to southwest of basal andesites and basalts overlain by black calcareous sediments all overlain by tuffs. A northwest-southeast lineament is indicated by the creek gulley and the "stepping" of the hills. Strikes and dips of the calcareous sediments show it to trend northwest and dip approximately 40° to the southwest.

Quartz and calcite veinlets, usually mineralized with pyrite, are common. These veinlets are discontinuous and appear to be more strongly developed in the tuffs.

Visible mineralization consists of fine pyrite and at sample site #2, Appendix 2, chalcopyrite. After slabbing the calcareous sediments with a saw, and with the aid of a microscope a very fine breccia texture with included fragmented pyrite and sphalerite can be noted. No molybdenite has been seen.

The calcareous horizon appears to have been deposited during a lull in volcanism. However, the presence of fine pyrite and sphalerite fragments probably indicates the existence of mineralized hot waters. The quartz and calcite veinlets, while obviously later than the calcareous sediments may indicate continued activity of the plumbing system.

Conclusions and Recommendations

The results obtained do show the presence of a mineralized zone. The values are not economic.

A possibility exists that the calcareous horizon may contain economic amounts of zinc and other metals. Therefore further work consisting of magnetometer and E.M. surveys is recommended.

W.G. Botel

W.G. Botel P.Eng.

Statement of Costs

Assaying as per invoices	192.20
	402.35
Groceries	125.00
Travel (lodging, meals, ferries)	210.00
Truck mileage 1200 at \$.35	420.00
Boat costs 5 days at \$50.00	250.00
Time W.G. Botel - 8 days at \$250.00	<u>2000.00</u>
Total	\$3599.55

W.G. Botel

W.G. Botel, P.Eng.

Statement of Qualifications

I, W.G. Botel hereby declare that;

1. I am a registered Professional Engineer in the Province of British Columbia.
2. That I have practised my profession for 28 years.
3. I am the beneficial owner of the Kimo 1-6 mineral claims.

A handwritten signature in black ink, appearing to read 'W.G. Botel', written in a cursive style.

W.G. Botel, P.Eng.

W.G. Botel

Sample No.	10		15		20		25		30		35		40		45		50		55		60		65		70		
	Mo	Cu	Pb	Zn	Ni	Co	Ag	As	Hg	Bi	Se	Te	Br	I	Ba	Ca	Mg	Al	Si	Fe	Mn	K	Na	Li	Be	B	C
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
863	23	26	32	470			13																				5
864	34	30	40	1180			10																				10
865	13	20	18	117			10																				15
866	7	27	39	251			16																				20
867	3	13	15	55			09																				25
868	19	24	31	515			11																				< 5
869	missing																										
870	10	30	23	202			12																				25
871	29	33	30	480			11																				5
872	32	26	31	565			11																				5
873	80	26	65	2375			14																				5
874	28	81	148	3900			18																				15
1	42	9	41	14			18																				< 5
2	165	87	51	44			17																				15
3	158	85	30	58			16																				10
4	57	156	84	7750			27																				< 5
5	300	202	70	11800			27																				< 5
6	64	18	31	182			10																				5
7	4	6	8	79			06																				5
8	64	7	23	17			11																				5
9	14	5	5	7			02																				10
10	25	9	19	10			10																				5
11	3	9	21	75			05																				15
12	32	655	36	16			19																				5
13	17	14	2	10			01																				10
14	62	121	38	127			18																				5
15	50	41	34	319			18																				10
16	1	4	2	9			01																				< 5

Pieces of core - Hole number and footage could not be determined
Taken from site marked "Scattered Core" see Fig 1.

MB

COMPAN: B. Botel
 PROJECT No.: Mahatta-Quantsino

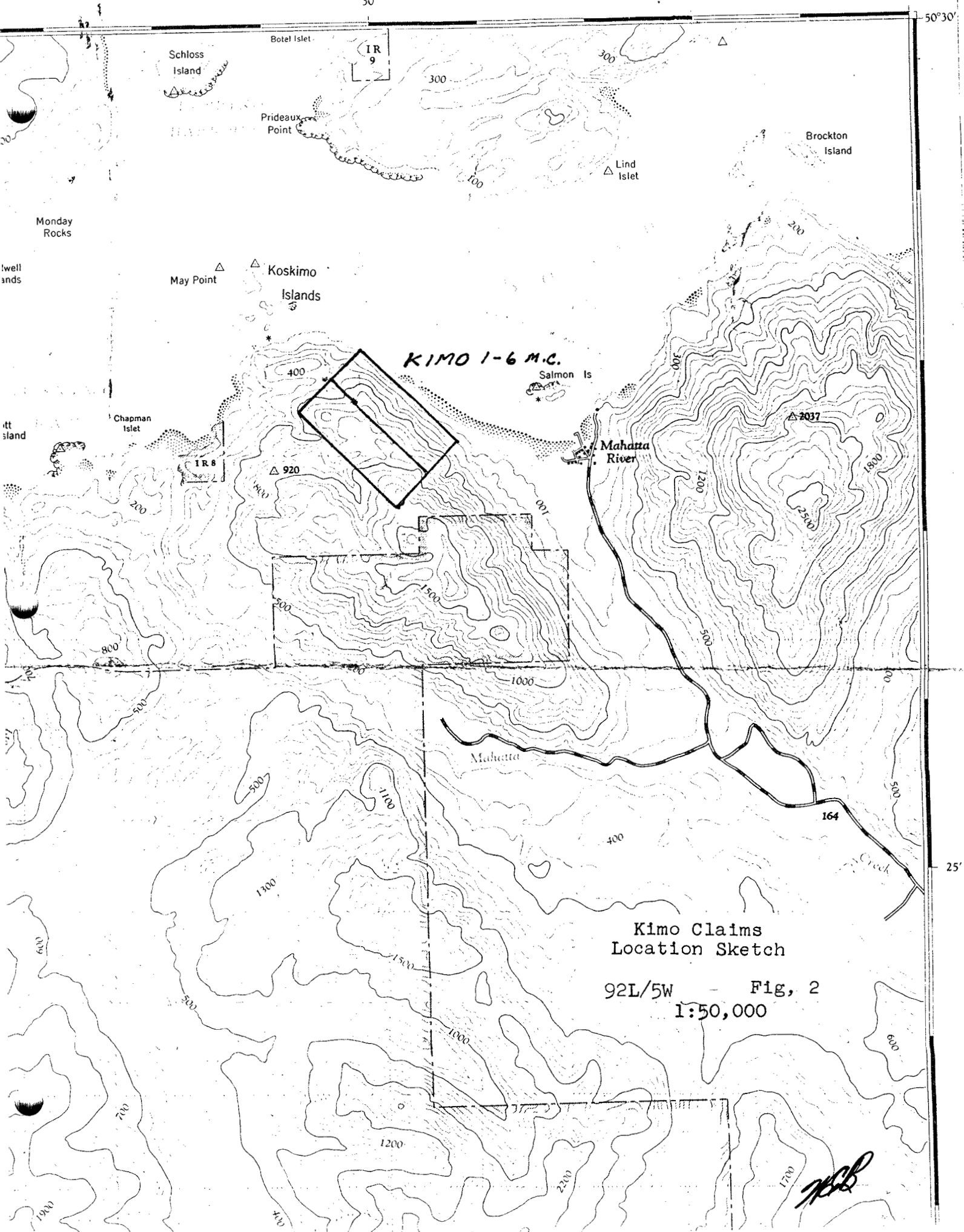
GEOCHEMICAL ANALYSIS DATA SHEET
 MIN - EN Laboratories Ltd.
 705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1E7
 PHONE (604) 980-5614

Appendix 2

F. No. 0-150
 DATE: Apr. 30, 1980.

ATTENTION: B. Botel

Sample Number	As	Cd	Cu	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au	Mo	Cu	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
A 25' core 40'-70'				355	16	18	17		285	11		15	96	104	36
B 120'-132'				18	15	16	14		86	5		5	100	12	28
C 132'-142'				42	10	10	08		135	6		<5	25	69	18
1 Koskimo Island Shore				145	18	17	15		510	<1		5	6	23	40
2 Koskimo Trench				6980	11	18	14		580	6		25	10	960	17
3 Small Quarts at 80M				122	6	5	02		49	<1		5	1	14	12
4 534 M of Kimo				34	9	8	06		12	7		5	12	6	10
5 3 PCS. Porph. 7'				72	12	14	13		52	13		15	4	260	30
6 Koskimo S. Creek				128	22	17	08		98	5		5	1	31	16
7 Koskimo Sck 800' above #1				158	22	19	09		105	7		5	1	27	18



KIMO 1-6 M.C.

1 R. 8

1 R. 9

Kimo Claims
Location Sketch

92L/5W - Fig, 2
1:50,000

HCB

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Appendix 3

Project .. Date of report **April 26/79.**
File No. **9-103** .. Date samples received **April 23/79...**
Samples submitted by: **W.G. Botel**
Company: **W.G. Botel**
Report on: **11 silt, 16 rock** Geochem samples

Assay samples

Copies sent to:

1. **W.G. Botel**
- 2.
- 3.

Samples: Sieved to mesh **-80 soil** Ground to mesh **-80 rock**

Prepared samples stored discarded
rejects stored discarded

Methods of analysis: **Mo, Cu, Pb, Zn, Ag-nitric, perchloric digestion.**
A.A. Analysis. Hg-Acid digestion-Flameless A.A. As-Acid
digestion-Spectrophotometric. Au-Aqua Regia.A.A. Analysis.

Remarks: **Sample 868 was missing.**

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Appendix 4

Project _____ Date of report **April 30/80.**
File No. **0-150** Date samples received **April 23/80.**
Samples submitted by: **B. Botel**
Company: **B. Botel**
Report on: **8 rocks, 2 silts** Geochem samples
Assay samples

Copies sent to:

1. **B. Botel, Maple Ridge, B.C.**
2. _____
3. _____

Samples: Sieved to mesh **-80 silt** Ground to mesh **-80 rocks**

Prepared samples stored discarded
rejects stored discarded

Methods of analysis: **Mo, Cu, Pb, Zn, Ni, Co, Ag-nitric, perchloric digestion.**

**A.A. Analysis. Hg-Acid digestion-Flameless A.A. As-Spectro-
photometric. Au-Aqua Regia. A.A. Analysis.**

Remarks: _____

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