

GEOCHEMISTRY REPORT

ON THE

M.B. CLAIMS NOS. 5, 6, 9, 15,

QUEEN CHARLOTTE ISLANDS, B.C.

SKEENA M.D.

NTS 103F/9W

Lat.  $53^{\circ}35'N$

Long.  $132^{\circ}18'W$

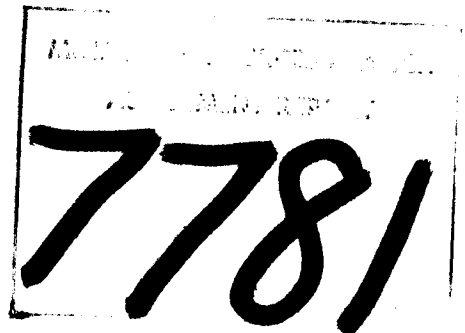
for

VENTORA RESOURCES LTD.  
2020-1051 West Georgia Street  
Vancouver, B. C.

by

A. F. Roberts, P. Eng.

January 31, 1980



A. F. ROBERTS, P.ENG.  
CONSULTING MINING ENGINEER

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### MAPS

#### Ref. No.

- 1) Location Map, B.C. Road Map.  
1 cm = 76 km.....[Frontispiece]
- 2) Topographic Map, NTS 103F/9W  
1:50,000.....[Follows page 1]
- 3) Claim Map: B.C. Department of Mines  
& Petroleum Resources Map 103F/9W  
1:50,000.....[Follows page 2]
- 4) Geology Map: from B.C. Department of  
Mines & Petroleum Resources, Bulletin  
54, Geology of the Queen Charlotte  
Islands, B.C., A. Sutherland-Brown,  
1968, Legend attached.....[Follows page 3]

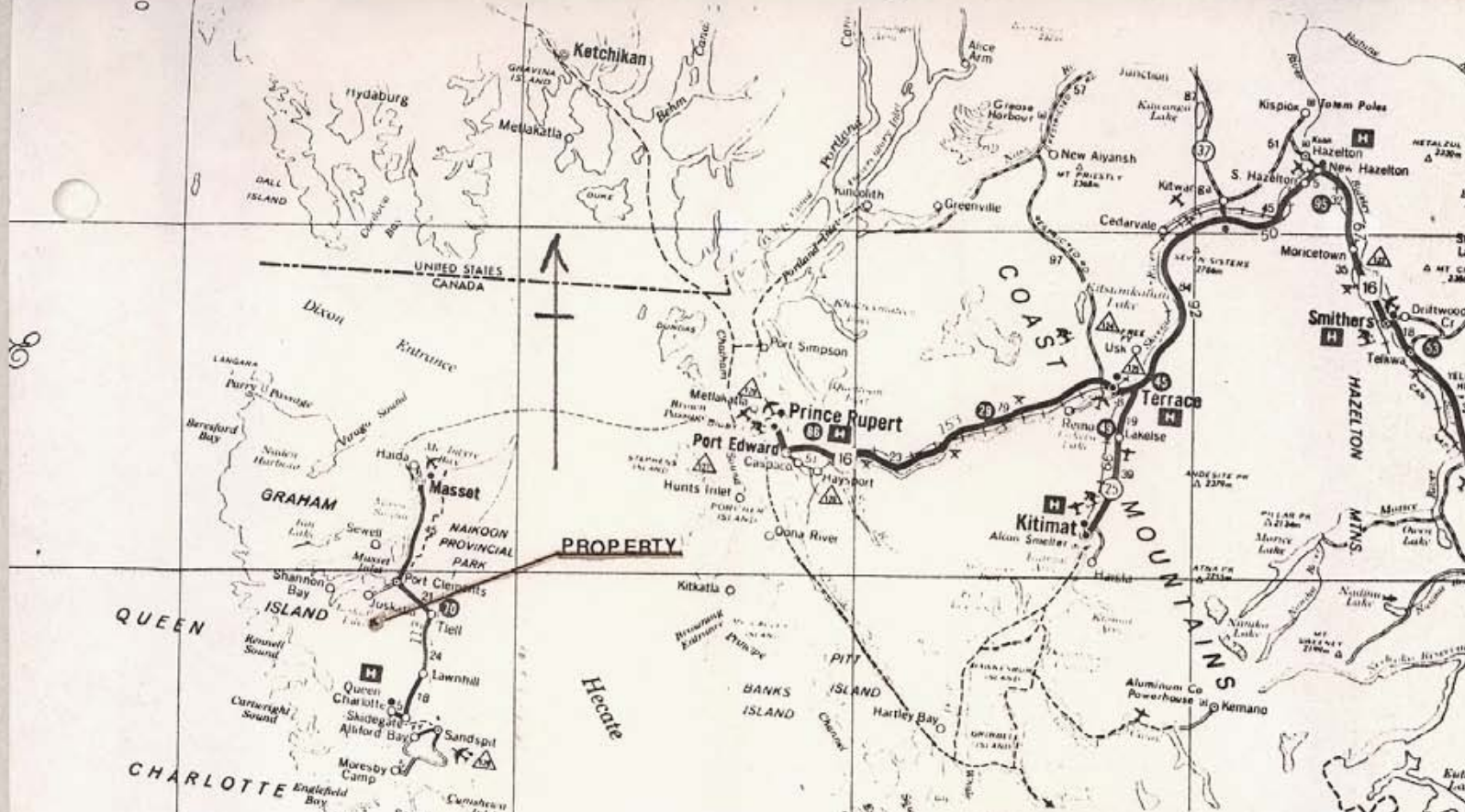
TABLE OF CONTENTS [Cont'd]

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<u>Ref.No.</u>		<u>Page</u>
8]	Geochemistry Map: Mercury, Plate A-1.....	[Back pocket]
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10]	Histogram for Mercury.....	[Follows page 5]
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REFERENCES

- 5] Babe Gold Prospect, Queen Charlotte Islands,  
B.C. [103F/9], A. Sutherland-Brown, T.G.  
Schroeter, 1977
- 6] Appendix "A": Assay Certificates, with Analysis  
Procedures
- 7] GSC Bulletin 280: The Geochemistry of Gold and  
its Deposits, R.W. Boyle, 1979



**VENTORA RESOURCES LTD**

VANCOUVER, B.C.

**MB 5,6,9,15 CLAIMS**  
 QUEEN CHARLOTTE ISLANDS, B.C.  
 SKEENA M.D.  
 NTS103 F/9W

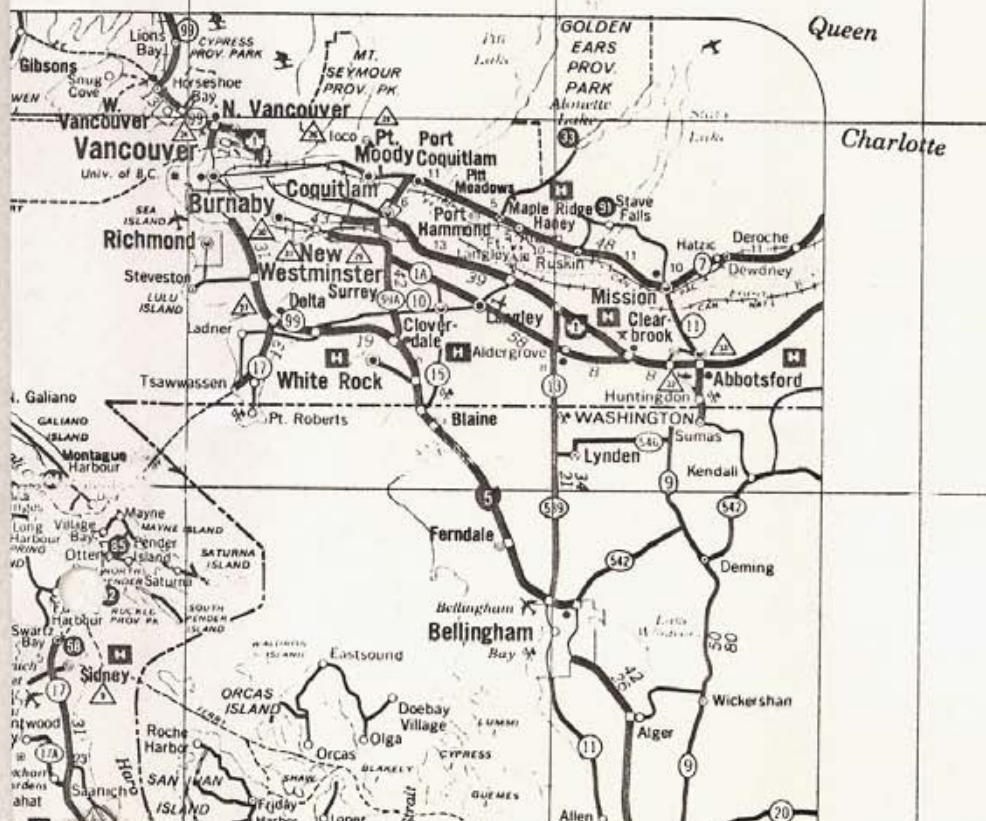
**LOCATION MAP**

Drawn by: *A.F.R.*

Scale: 1cm = 76km

Date: October 8, 1979.

To Accompany Report by A F Roberts, P.Eng.,  
 dated October 8, 1979, January 31, 1980.



S U M M A R Y

The partial reconnaissance geochemical survey over parts of the M<sub>B</sub> 5, 6, 9, 15 mining claims has revealed a number of coincident arsenic and mercury anomalies.

Only a few gold values were above background, one of which is within a strong arsenic-mercury anomaly, and three are associated with good arsenic-mercury anomalies.

These should be investigated by closer spacing of the grid lines, to be followed by trenching, if valid.

At the same time, the reconnaissance grid should be expanded to cover the balance of the property.

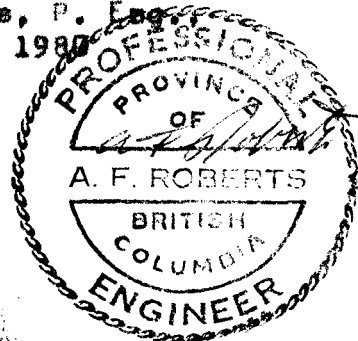
This program is estimated to cost \$42,000.00.

A further program of detail geochemistry with EM-16 and magnetic surveys is estimated at \$27,000.00.

Respectfully submitted,

*A. F. Roberts*

A.F. Roberts, P. Eng.  
January 31, 1987



A. F. ROBERTS, P.ENG.  
CONSULTING MINING ENGINEER

GEOCHEMISTRY REPORT  
ON THE  
M.B. CLAIMS NOS. 5, 6, 9, 15,  
QUEEN CHARLOTTE ISLANDS, B.C.  
SKEENA M.D.  
NTS 103F/9W

Lat. 53°35'N

Long. 132°18'W

for  
VENTORA RESOURCES LTD.  
2020-1051 West Georgia Street  
Vancouver, B. C.

by  
A. F. Roberts, P. Eng.  
January 31, 1980

### INTRODUCTION

This report is authorized by the Directors of the Company.

Its purpose is to analyse the data from the assaying of 345 soil samples collected over a reconnaissance grid 50 metres by 200 metres, by a contractor, R. Dion, of Delta, B.C.

### LOCATION 1]

The property is located in the north central part of Graham Island, with its north boundary about two miles due south of Juskatla.

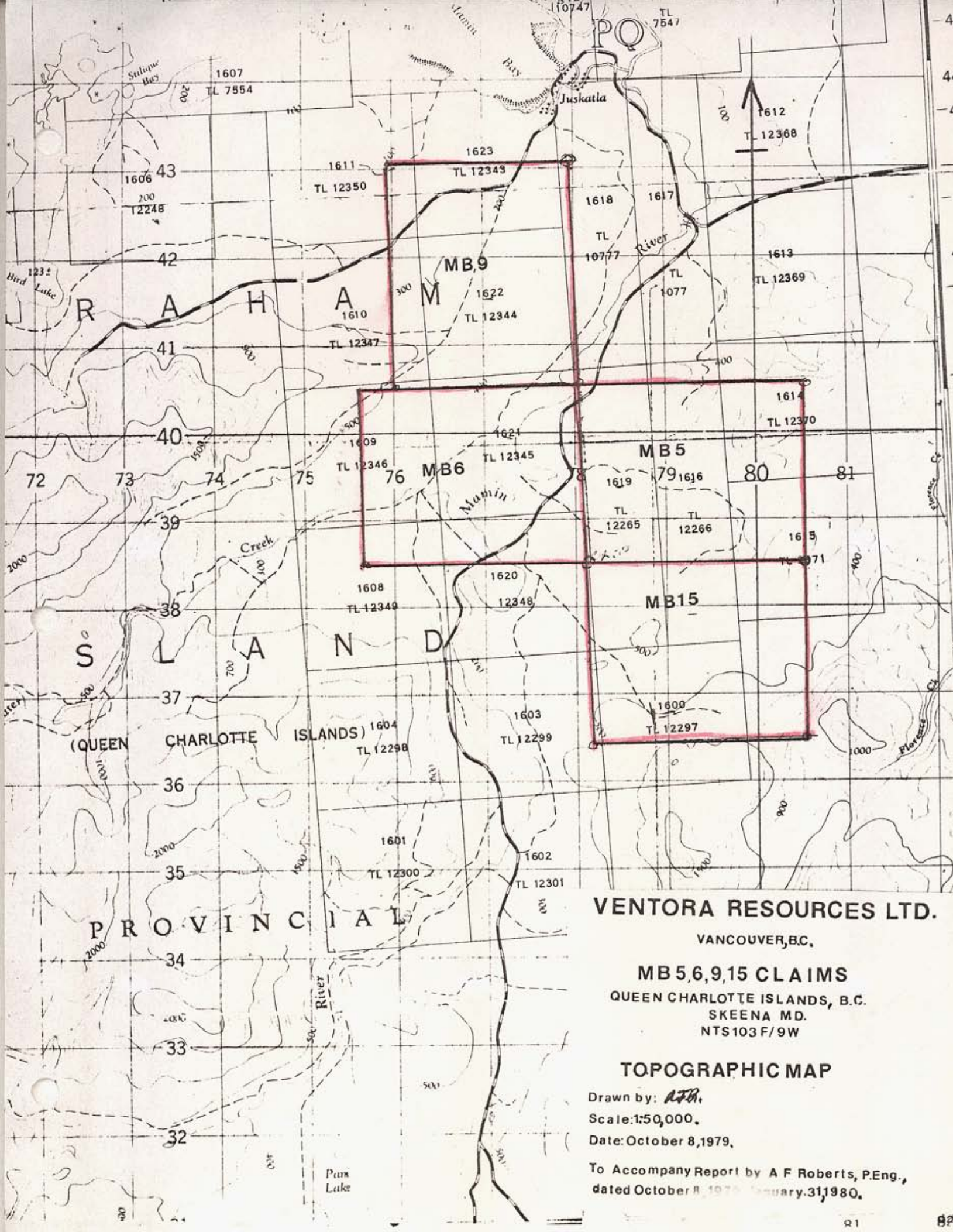
### ACCESS

The claims are cut by a number of logging roads, belonging to MacMillan-Bloedel Logging Co. These are active logging roads, and permission to use them should be obtained from the logging company before driving over them.

These roads provide access to Port Clement and Juskatla on the north and Queen Charlotte City on the south.

---

1] Location Map: B.C. Road Map, 1 cm = 76 km [Frontispiece]



**VENTORA RESOURCES LTD.**

VANCOUVER, B.C.

**MB 5, 6, 9, 15 CLAIMS**

QUEEN CHARLOTTE ISLANDS, B.C.  
SKEENA M.D.  
NTS 103 F/9W

**TOPOGRAPHIC MAP**

Drawn by: *A.F.R.*

Scale: 1:50,000.

Date: October 8, 1979.

To Accompany Report by A F Roberts, P.Eng.,  
dated October 8, 1979 - January 31, 1980.

TOPOGRAPHY 2]

The topography is generally of low relief, from 30 metres ASL to 175 metres ASL. Most slopes are quite gentle.

Most of the claims have been logged over, and are presently being logged in the remaining stands of virgin timber.

There is a considerable area of fresh slash, and second growth timber.

Water for diamond drilling is no problem for most of the year, as there is sufficient rainfall to keep small streams and ponds full, except in mid summer.

CLAIM GROUP 3]

The group consists of the following claims:

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
MB 5	20	857	December 20, 1980
MB 6	20	858	December 20, 1980
MB 9	20	861	December 20, 1980
MB 15	20	867	December 20, 1980

Assessment work for one year was filed December 20, 1979.

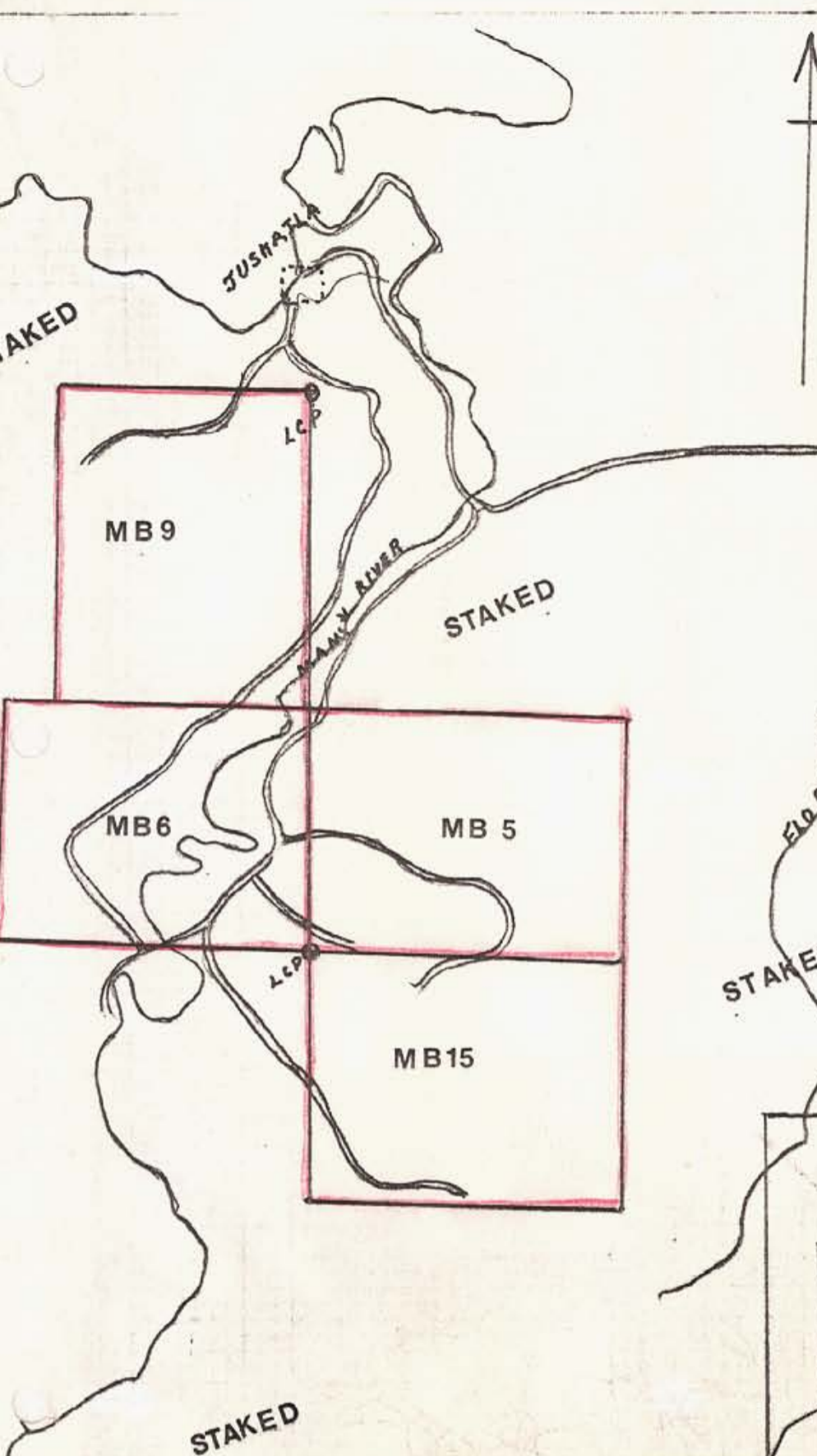
The exact location of the ground, and the area covered can only be determined by a legal survey.

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2] Topographic Map: NTS 103F/9W, 1:50,000 [Follows page 1]

3] Claim Map: B.C. Department of Mines & Petroleum Resources Map 103F/9W, 1:50,000 [Follows page 2]





**VENTORA RESOURCES LTD.**

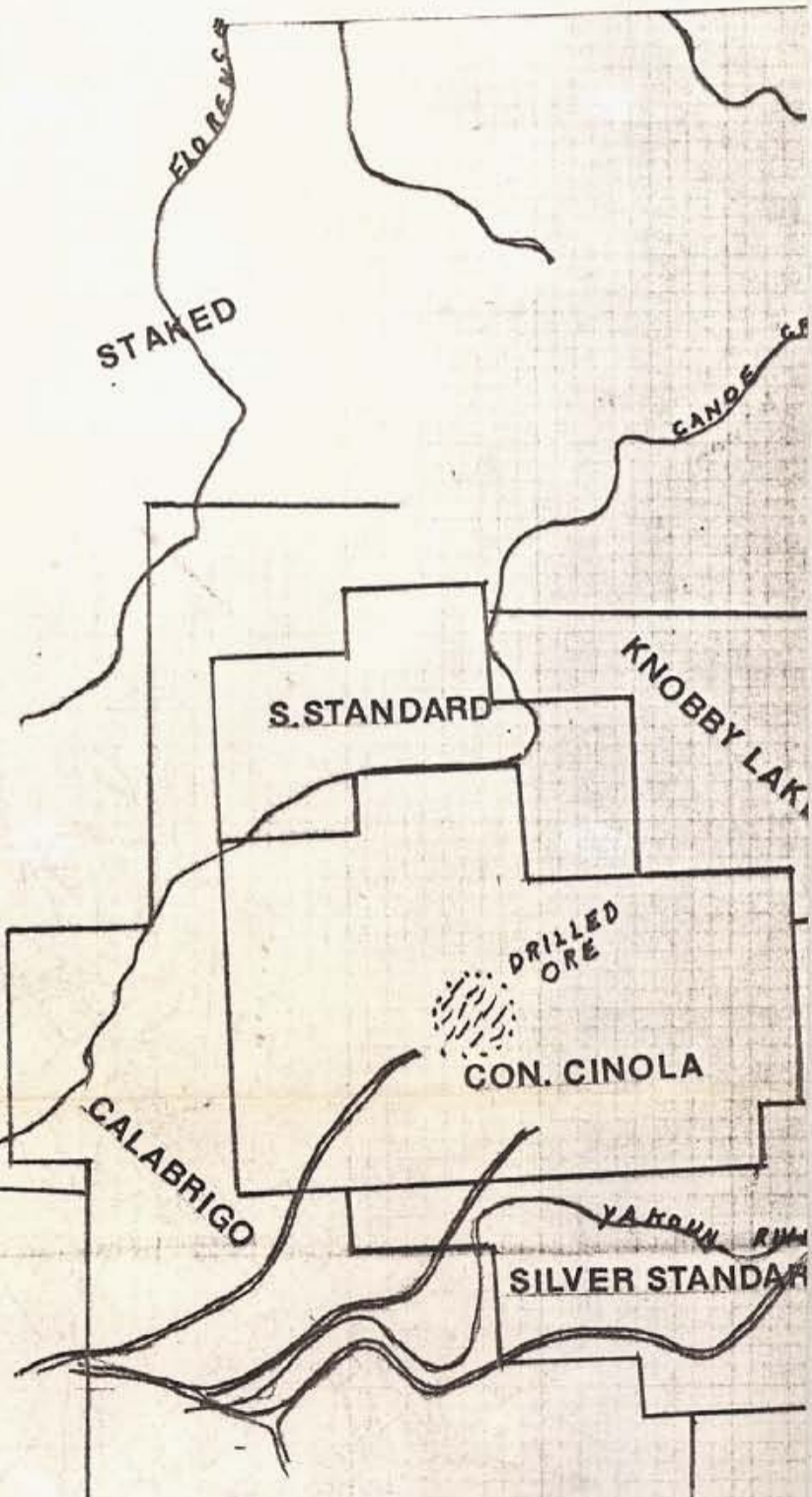
VANCOUVER, B.C.

**MB 5, 6, 9, 15 CLAIMS**  
 QUEEN CHARLOTTE ISLANDS, B.C.  
 SKEENA M.D.  
 NTS 103 F/9W

**CLAIM MAP**

Drawn by: *A.F.R.*  
 Scale: 1:50,000  
 Date: October 8, 1979.

To Accompany Report by A F Roberts, P.Eng.,  
 dated October 8, 1979, January 31, 1980.



BURLINGTON ASHCRAFT

CHEVRON

ACCURACY OPEN TO CORRECTION

SHELL  
 UNION MINIERE

The Legal Claim posts were examined and found to conform with the Mining Act.

GENERAL GEOLOGY, STRUCTURE 4] 5]

From Bulletin 54, the area of the claims is underlain by the Paleocene Massett Formation consisting of sub-aerial flows, basalt flows, breccias, rhyolite flows, ash flows, and dacite.

The writer has seen the following rocks in quarries within the claims:

Dacite, in part overlain by heavily oxidized rhyolite, with some quartz, and pyrite.

Dacite-rhyolite, porphyritic rhyolite, with blue chalcedony, white quartz in hairline veinlets, and in amygdules.

Black ash containing very small round pebbles with both white, and bluish chalcedonic quartz. There were sections of coarse rhyolite breccia, pebble conglomerate, some pyrite in fractures, and rimming breccia fragments.

There is a possibility of a strand of the Sandspit fault passing through the property.

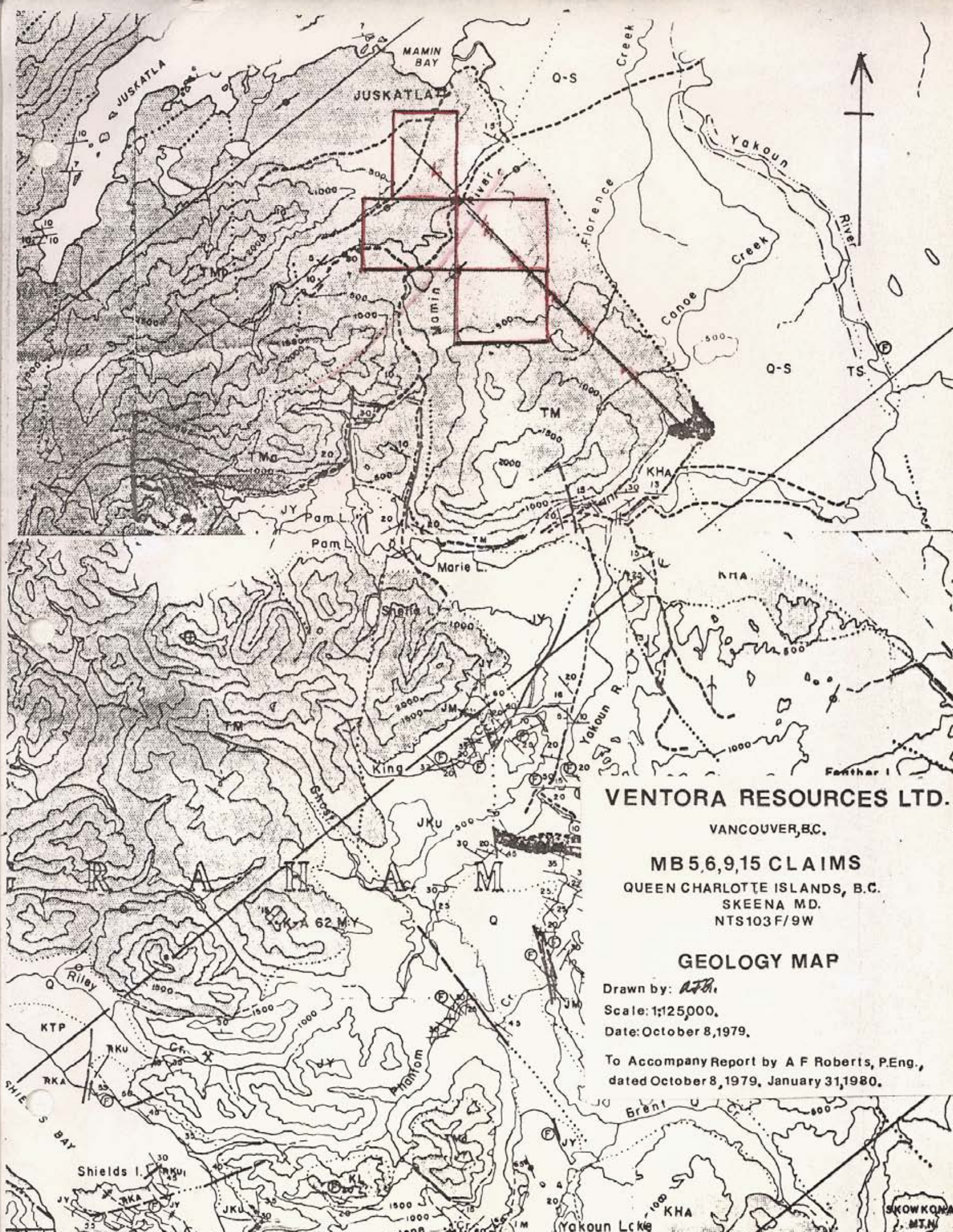
A northwesterly striking photo lineament passes through the centre of the claims.

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4] Geology Map with Legend; from B.C. Department of Mines & Petroleum Resources, Bull. 54, Geology of the Queen Charlotte Islands, B.C., by A. Sutherland-Brown, 1968; Legend attached

[Follows page 3]

5] Habe Gold Prospect, Queen Charlotte Islands, B.C., [103F/9], A. Sutherland-Brown, T.G. Schroeter, 1977



**VENTORA RESOURCES LTD.**

VANCOUVER, B.C.

**MB 5,6,9,15 CLAIMS**

QUEEN CHARLOTTE ISLANDS, B.C.

SKEENA MD.

NTS103F/9W

**GEOLOGY MAP**

Drawn by: *AFR*

Scale: 1:125,000.

Date: October 8, 1979.

To Accompany Report by A F Roberts, P.Eng.,  
dated October 8, 1979, January 31, 1980.

# LEGEND

## STRATIFIED ROCKS

### QUATERNARY

- Q** Recent alluvium, Pleistocene till, marine drift, and outwash sands  
Q-S Quaternary overlying Skonun Formation  
Q-M Quaternary overlying Masset Formation

### TERTIARY OR QUATERNARY

- TQT** TOW HILL SILLS olivine basalt

### TERTIARY

#### MIO-PLIOCENE

- TS** SKONUN FORMATION: sands, mudstone, sandstone, conglomerate, and lignite

#### PALEOCENE-EOCENE ?

- TM** MASSET FORMATION: subaerial basalt flows and breccias, rhyolite ash flows, lesser dacite  
TM- Undivided Masset Formation  
Divided Tartu Facies  
TMc - Basalt member  
TMb - Rhyolite member  
TMa - Mixed member  
Hypabyssal Equivalents  
TMD - Feldspar porphyry  
TMe - Gabbro-diabase

### CRETACEOUS

#### QUEEN CHARLOTTE GROUP (KS, KH<sub>0</sub>, KHA)

- KS** SKIDEGATE FORMATION: shaly siltstone, feldspathic sandstone, calcareous siltstone

- KH<sub>0</sub>** HONNA FORMATION: conglomerate with granitic cobbles, arkosic grits, minor shale

#### ALBIAN-TURONIAN

- KHA** HAIDA FORMATION: green glauconitic and grey sandstone, grey silty shale and siltstone, buff calcareous siltstone

#### NEOCOMIAN

- KL** LONGARM FORMATION: dark grey calcareous siltstone and fine lithic greywacke, angular fine conglomerate, minor volcanic rocks

#### VANCOUVER GROUP (RKA, R<sub>KU</sub>, JKU, JM, JY)

### JURASSIC

#### BAJOCIAN-CALLOVIAN

- JY** YAKOUN FORMATION: porphyritic andesite agglomerate and flows, calcareous scoriaceous lapilli tuff, volcanic sandstone and conglomerate, minor tuffaceous shale, coal

#### PLIENSCHACHIAN-TOARCIAN

- JM** MAUDE FORMATION: grey blocky argillite and shale, grey green lithic sandstone

### JURASSIC AND TRIASSIC

#### KARNIAN-SINEMURIAN

- RJKU** KUNGA FORMATION: massive grey limestone, flaggy black limestone, flaggy black argillite-undivided

- JKU** Flaggy black argillite member, minor limestone

- RKU<sub>2</sub>** Flaggy black limestone member, minor argillite

- RKU** Limestone members-undivided

- RKU<sub>1</sub>** Massive grey limestone member

### TRIASSIC

#### KARNIAN AND OLDER

- RKA** KARMUTSEN FORMATION: basalt massive flows, pillow lavas, pillow breccia and tuff, related sills, minor interlava limestone, volcanic sandstone and shale, amphibolitized equivalent

## PLUTONIC ROCKS

### CRETACEOUS AND TERTIARY

- KTP** POST-TECTONIC PLUTONS: quartz monzonite, granite, granodiorite, quartz diorite

### JURASSIC ?

- JS** SYNTECTONIC PLUTONS: hornblende diorite, quartz diorite

- JSM** MIGMATITE: mixed hornblende diorite and amphibolite

## GEOCHEMICAL PROGRAM

### 1] Grid

The grid was laid out to cover parts of MB 5, 6, 15 claims. At 50 metres by 200 metres, this is only a reconnaissance grid, and there is almost enough room between lines to hide a mine.

### 2] Sampling

Samples were dug with a pick, and an effort was made to get the "B" horizon. Some samples of necessity were taken in the "A" horizon as it was too deep to reach the "B". A few samples were rock chips when no soil was available.

All samples were put in standard "wet proof" paper bags marked with their location.

### 3] Assaying

The samples were taken to Acme Analytical Labs., Vancouver, for assaying for gold, arsenic, and mercury.

The analysis procedure, and the assay certificates are enclosed in Appendix "A". 6]

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6] Appendix "A": Acme Analytical Lab.,  
Assay Certificates with Analysis  
Procedures

[End of Report]

ANALYSIS 7] 8] 9] 10] 11]

There were a total of 345 samples distributed as to soil types as follows:

"B" Horizon	182 or 52.8%
"A" Horizon	158 or 45.8%
Rock chips	3 or 0.87%
Sediments	2 or 0.58%

Of the total samples their assays were distributed as follows:

MERCURY

67% less than 200 ppb  
90% less than 300 ppb  
95% less than 320 ppb

Threshold has been taken at 200 ppb  
Anomalous at 300 ppb

Arsenic

75.6% less than 3 ppm  
87.5% less than 4 ppm  
90% less than 5 ppm

Threshold has been taken at 3 ppm  
Anomalous at 4 ppm

- 
- 7] GSC Bulletin 280; The Geochemistry of Gold and its Deposits, R.W. Boyle, 1979
- 8] Geochemistry Map: Mercury, Plate A-1 [back pocket]
- 9] Geochemistry Map: Gold and Arsenic Plate B-1 [back pocket]
- 10] Histogram for Mercury [Follows page 5]
- 11] Histogram for Arsenic [Follows page 6]

VENTORA RESOURCES LTD.

VANCOUVER, B.C.

MB CLAIMS No. 5,6,9,15

QUEEN CHARLOTTE ISLANDS, B.C.

SKEENA M.D.

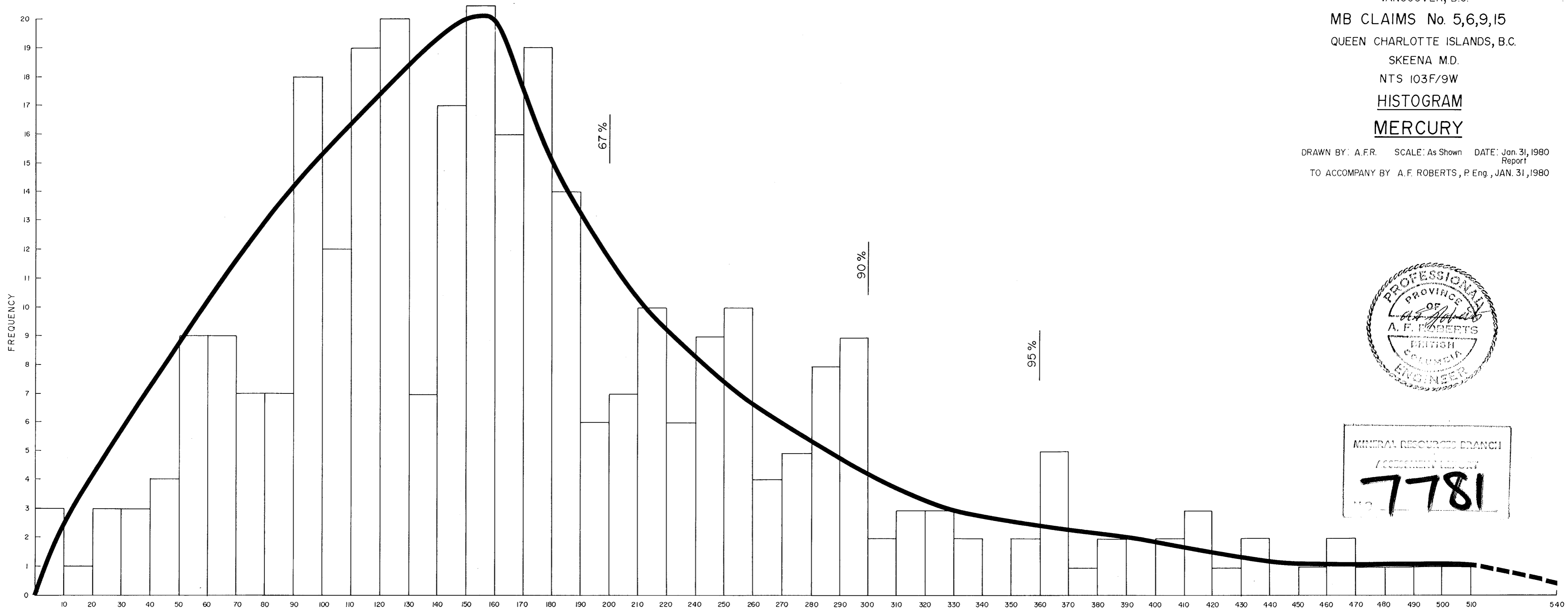
NTS 103F/9W

HISTOGRAM

MERCURY

DRAWN BY: A.F.R. SCALE: As Shown DATE: Jan. 31, 1980  
Report

TO ACCOMPANY BY A.F. ROBERTS, P. Eng., JAN. 31, 1980



MINERAL RESOURCES BRANCH  
ASSESSMENT DIVISION  
**7781**

### Gold

Background for gold is established at 5 ppb, which appears to be standard for the Islands, and is the low limit of detection.

Only five assays or 1.45% were twice background at 10 ppb.

Although values for mercury and arsenic are lower than other places on the Islands, they are anomalous in this environment.

The anomalous areas on the maps are coincident in the majority of cases.

The mercury anomalies, as is to be expected are quite diffused. The arsenic having less mobility, makes smaller anomalies.

The gold values of twice background are distributed as follows:

- 1] One at 8N, 3W is within a mercury anomaly at the edge of an arsenic contour.
- 2] One at 2N, 3E inside a high mercury anomaly, and background arsenic.
- 3] One at 10S, 11E inside both a high mercury, and a high arsenic anomaly.
- 4] At 12S, 10E inside a mercury, but with low arsenic value.
- 5] At 14S, 5E with low mercury and low arsenic values.



# VENTORA RESOURCES LTD.

VANCOUVER, B.C.

MB CLAIMS No. 5,6,9,15

QUEEN CHARLOTTE ISLANDS, B.C.

SKEENA M.D.

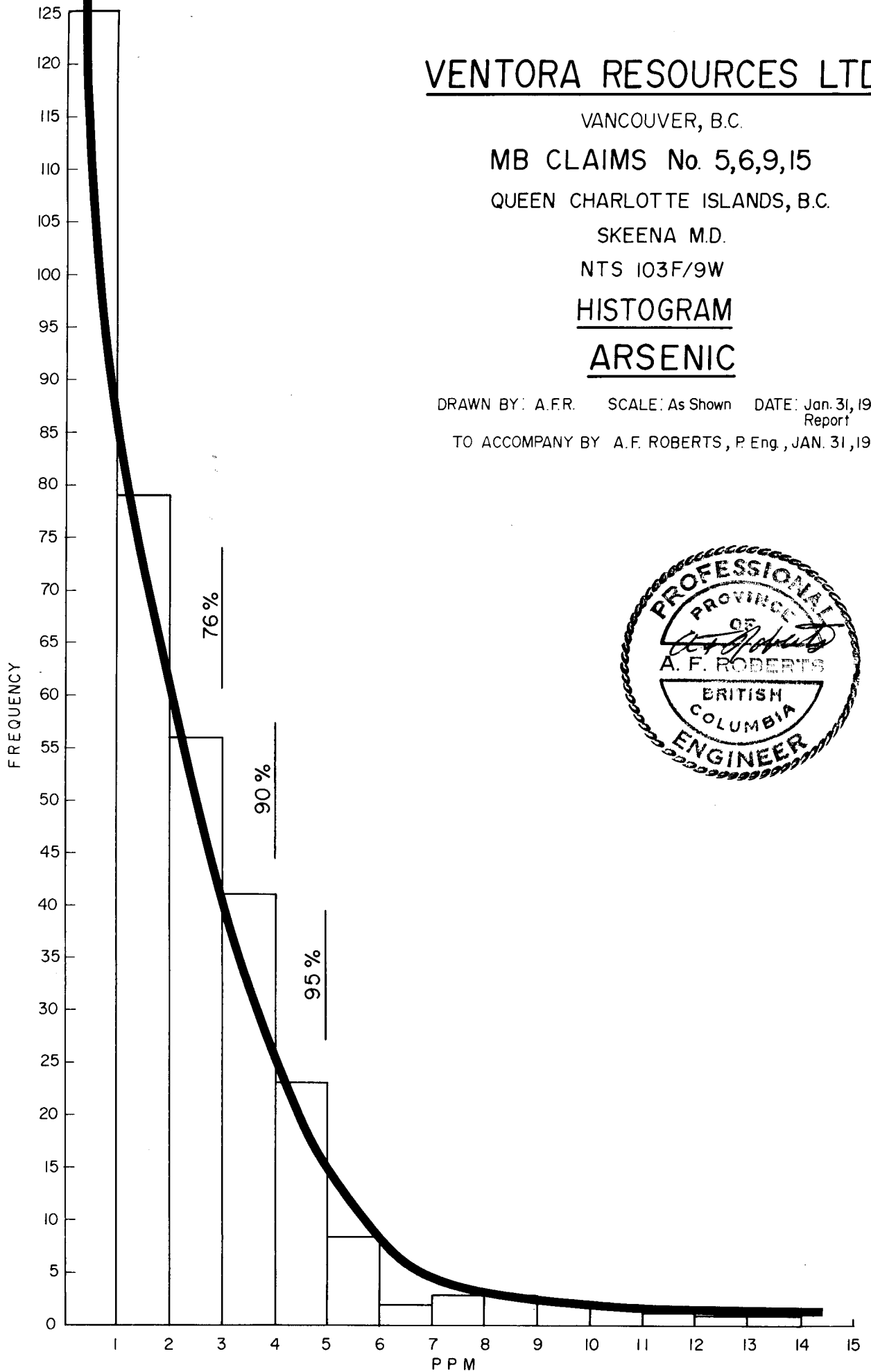
NTS 103F/9W

HISTOGRAM

ARSENIC

DRAWN BY: A.F.R. SCALE: As Shown DATE: Jan. 31, 1980  
Report

TO ACCOMPANY BY A.F. ROBERTS, P. Eng., JAN. 31, 1980



Bulletin 280 recommends that even low anomalous values such as are present in this area should be investigated further.

Most of the anomalies have a north to northeasterly trend, which may be related to a stronger fracturing in this direction.

### CONCLUSIONS

The program has located a number of coincident mercury-arsenic anomalies, four with single twice background values, with only a third of the claim group covered. Some of these anomalies are open ended to unsampled areas leaving room for expansion.

Although gold values are low and scarce, there could still be ore under the anomalies.

### RECOMMENDATIONS

- 1] In the areas of highest arsenic anomalies coincident with mercury anomalies, close up the grid to 100 metre spacing and soil sample a 50 metre spacing. This would be about:

MB6	80 samples
MB5-15 claim line area	160 samples

- 2] In the area of 105, 11E sample at 25 metres on 4 - 25 metre lines for 50 metres in each direction as this is the most significant gold value.

- 3] Cover the balance of the property with the reconnaissance grid.

ESTIMATED COSTS

Phase I

Estimate at \$170/km	
104 km of line	\$17,680.00
Assaying 2,000 samples	16,400.00
Evaluation, Report & Maps	<u>2,500.00</u>
	\$36,580.00
15% contingency	<u>5,489.00</u>
Total	<u>\$42,069.00</u>
Say <u>\$42,000.00</u>	

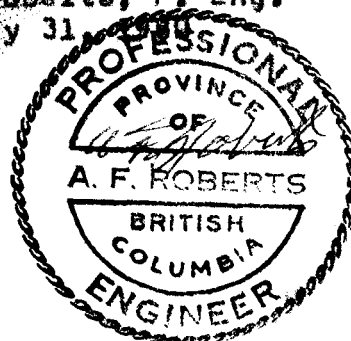
Phase II

If 15% of the reconnaissance survey requires detailing, then soil sampling will cost	\$ 6,700.00
Assaying 400 samples @ \$8.25/sample	3,300.00
Magnetometer, EM-16 surveys @ \$100/km @ 100 km	10,000.00
Evaluation, Report & Maps	<u>2,500.00</u>
	\$22,500.00
15% contingency	<u>3,375.00</u>
	<u>\$26,875.00</u>
Say <u>\$27,000.00</u>	

Respectfully submitted,

*A. F. Roberts*

A. F. Roberts, P. Eng.  
January 31, 1960



A. F. ROBERTS, P. ENG.  
CONSULTING MINING ENGINEER

C E R T I F I C A T E

I, A.F. Roberts, of 812 Fairbrook Crescent, Richmond, British Columbia, do hereby certify that:

- 1] I am a graduate of the University of British Columbia, B.Ap.Sc., in Mining Engineering, 1951.
- 2] I am a Registered Professional Engineer of the Province of British Columbia; and am a Member of the Canadian Institute of Mining and Metallurgy.
- 3] I have practiced my profession since 1951, with Quatsino Copper-Gold Mines Ltd., Giant Mascot Mines Ltd., Cochenour-Willens Gold Mines Ltd., Mogul Mines Ltd., Kerr-Addison Gold Mines Ltd., Atlantic Coast Copper Corporation Ltd., Wesamac Mines Ltd., Branda Mines Ltd., and T.C. Explorations Ltd.

Since January 1970, I have been an independent Consulting Engineer.

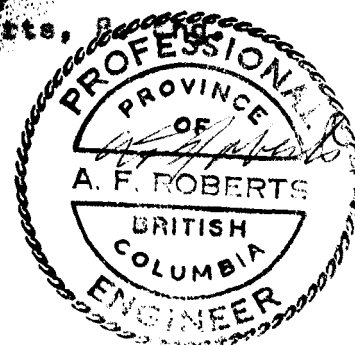
Previous to, and during University, I worked underground as a miner, and on several exploration-development projects.

- 4] The accompanying report is based entirely on my personal examination of the property October 5-7, 1979, and on material referred to in the text, and analysis of the data in this report.
- 5] I have no interest, direct or indirect, in Ventora Resources Ltd., nor have I any interest, direct or indirect, in any companies with whom they may be associated. I have not, nor do I expect to receive any interest in the shares of any company, in its securities, or any company with which it may become associated.
- 6] I consent to the use of this report in, or in conjunction with, a prospectus, or a statement of material facts, relating to the raising of funds for this project.

DATED at Vancouver, British Columbia, this thirty-first day of January, 1980.

*A.F. Roberts*

A.F. Roberts, P.Eng.



VENTORA RESOURCES LTD.

SUITE 1606 - ROYAL BANK OFFICE TOWER  
1055 WEST GEORGIA STREET  
VANCOUVER, B.C. V6E 3P3

PHONE 688-4561

May 6th, 1980.

3968

Ministry of Energy, Mines & Petroleum,  
Mining Resources Branch,  
Parliament Buildings,  
Victoria, B.C. V8V 1X4

MINISTRY OF MINES  
AND PETROLEUM RESOURCES

Attn: Mr. T. Kalnins

Rec'd

IK

Dear Sir:-

Re: Claims MB 5-6-9-16

The following expenditures were made by Ventora Resources Ltd., on the above mentioned claims during 1979:

Geochemical work	\$4,000.00
Soil Sampling	<u>2,500.00</u>

\$6,500.00

Analyse

2,700.00

9,200.00

*Not itemized, but expenditures are conservative  
T.E.K*

Yours truly,

*E. Cameron*

E. Cameron  
Secretary

EC/mhb

APPENDIX "A"

ASSAY CERTIFICATES  
WITH ANALYSIS PROCEDURES

### Geochemical Analysis of Hg

#### Digestion

A .50 gram sample is digested with nitric and perchloric acid and diluted with 20% HCl.

#### Determination

Hg is determined by cold vapour AA using F & J scientific Hg assembly. An aliquot is added to stannous chloride-hydrochloric acid solution. The reduced Hg is carried by bubbling air through the solution and passed into the Hg cell determined by AA.

#### Oxalic Acid Leach of Rock, Soil & Silt Samples

A .50 gram sample is digested hot with 10 mls 5% oxalic acid solution. The oxalic acid will dissolve Fe and Mn from their oxides of M - 1 fraction (but not from magnetite & ilmenite) limonites and clays. The following metals are analysed by atomic absorption: Cu, Zn, Pb, Ni, Mo, Fe, & Mn.

#### Cold HCl Acid Extraction

A .50 gram sample is leached at room temperature for 2 hours with occasional shaking with 10 mls 5% HCl solution. This will dissolve Cu from the organic and surface of clay fractions.

#### EDTA Extraction

A .50 gram sample is leached at room temperature for 4 hours with 10 mls of 2.5% EDTA solution.

CORE & ROCK ASSAYS SOIL, ROCK & WATER GEOCHEM ANALYSIS  
**ACME ANALYTICAL LABORATORIES LTD.**

MAIN LAB - 6455 LAUREL ST.  
BURNABY, B.C. V5B 3B4  
(604) 299-5242

ROSS RIVER - YUKON - (403) 969-2217

DEAN TOYE, B.Sc.  
CHIEF CHEMIST, CERTIFIED B.C. ASSAYER  
HOME PHONE 438-7672

#### Geochemical Analysis for Tungsten

A 1.00 gram sample is fused with KCl, KNO<sub>3</sub>, & Na<sub>2</sub>CO<sub>3</sub> flux in a test-tube, is leached with 10.0 mls water. An aliquot is used to develop a complex with SnCl<sub>2</sub>, KSCN and HCl which is extracted by n-tributylphosphate and carbon tetrachloride.

#### Geochemical Analysis for Fluorine

A .25 gram sample is fused with sodium hydroxide and is leached with water. The solution neutralized, buffered and adjusted to pH 7.8 and diluted to 100 mls. Fluorine is determined by specific ion electrode with specific ion meter, Orion Model 404.

#### Geochemical Analysis for Tin

A 1.0 gram sample is fused with ammonium iodide in a test-tube. The decomposed iodine is leached with dilute hydrochloric acid; an aliquot is use for colorimetric development with gallein in a buffered solution.

#### Geochemical Analysis for Platinum

A 10 gram sample is digested with aqua regia to dryness. An aliquot of HCl leached solution is reduced by stannous chloride and extracted into MIBK. The extracted Pt is determined by AA with background correction.

#### Geochemical Analysis of As

##### Digestion

A .50 gram digested hot with 5 mls of 50% HCl, and then diluted to 10 mls.

##### Determination

The As is evolved from solution of KI, SnCl<sub>2</sub> by Zn metal into AgDDC solution which is read colorimetrically.



Geochemical Analysis of Mo, Cu, Pb, Zn, Ag\*, Ni, Co,  
Mn, Bi\*, V, Fe, Cd\*, & Sb\*

Sample preparation

Soil samples are dried at 75°C and sieved to -80 mesh.

Rock samples are ground to -100 mesh.

Digestion

A .50 gram sample is digested with dilute aqua regia in boiling water bath and diluted to 10 mls with demineralized water.

Determination

All the above elements are determined by Atomic Absorption from the solution.

\* With background correction.

Geochemical Analysis of Au

Digestion and extraction

A 10 gram sample which has been ignited over night at 600°C is digested hot with dilute aqua regia, and the clear solution is extracted with Methyl Isobutyl Ketone.

Determination

Au is determined by AA from the MIBK extractant with background correction.

Geochemical Analysis of Ba

A .100 gram sample is digested hot with NaOH and EDTA solution. The solution is analysis for Ba by AA.

Geochemical Uranium Analysis

Digestion

A .50 gram sample is digested hot with nitric and perchloric acid and diluted to 10 mls.

Fusion

An aliquot is solvent extracted with salting agent and aliquot of is fused with NaF, K<sub>2</sub>CO<sub>3</sub>, & Na<sub>2</sub>CO<sub>3</sub> flux in platinum dish.

Determination

The fluorescence of the pellet is read in the Turner fluorometer.



To: **Ventora Resources Ltd.,**  
 2020 Royal Centre,  
 Vancouver, B.C.

**ACME ANALYTICAL LABORATORIES LTD.**

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0728

Type of Samples Soils

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.		Hg	As	Au						
MBL 12N	10E	.145	5	.005						1
	9	.100	1	.005						2
	8	.080	4	.005						3
	7	.110	2	.005						4
	6	.080	3	.005						5
	5	.100	3	.005						6
	4	.120	5	.005						7
	3	.120	4	.005						8
	2	.115	3	.005						9
	1E	.160	3	.005						10
	OW	.130	2	.005						11
	1	.075	4	.005						12
	2	.090	4	.005						13
	3	.125	2	.005						14
	4	.080	2	.005						15
	5	.090	3	.005						16
	6	.090	2	.005						17
	7	.090	2	.005						18
	8	.085	2	.005						19
	9	.125	3	.005						20
	10	.125	2	.005						21
	11	.100	3	.005						22
MBL 12N	12W	.145	1	.005						23
										24
MBL 10N	10E	.130	5	.005						25
	9	.110	2	.005						26
	8	.120	2	.005						27
	7	.110	1	.005						28
	6	.070	5	.005						29
	5	.045	5	.005						30
	4	.085	1	.005						31
	3	.105	3	.005						32
	2	.100	3	.005						33
	1E	.100	2	.005						34
	OW	.070	2	.005						35
	1	.100	3	.005						36
	2	.060	2	.005						37
MBL 10N	3W	.060	2	.005						38
										39
										40

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ASSAYER *D. Toy*

**DEAN TOYE, B.Sc.**  
 CHIEF CHEMIST  
 CERTIFIED B.C. ASSAYER



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GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Hg	As	Au							
MBL 10N 4W	.100	1	.005							1
5	.145	1	.005							2
6	.120	1	.005							3
7	.160	2	.005							4
8	.095	1	.005							5
9	.110	2	.005							6
10	.160	2	.005							7
11	.170	1	.005							8
MBL 10N 12	.165	2	.005							9
MBL 8N 7E	.290	1	.005							10
6	.245	2	.005							11
5	.220	4	.005							12
4	.130	2	.005							13
3 org.	.250	3	.005							14
2 org.	.160	1	.005							15
1E org.	.160	1	.005							16
OW org.	.290	4	.005							17
1 org.	.240	12	.005							18
2	.185	5	.005							19
3	.290	3	.010							20
4 org.	.180	2	.005							21
5 org.	.105	3	.005							22
6 org.	.195	1	.005							23
7 org.	.235	3	.005							24
8	.235	9	.005							25
MBL 8N 9W	.185	5	.005							26
MBL 6N 10E	.205	1	.005							27
9 org.	.110	3	.005							28
8	.055	3	.005							29
7	.180	2	.005							30
6 org.	.075	5	.005							31
5	.085	3	.005							32
4	.160	4	.005							33
3 org.	.170	3	.005							34
2 org.	.070	2	.005							35
MBL 6N 1E	.050	3	.005							36
										37
										38
										39
										40

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**GEOCHEMICAL ASSAY CERTIFICATE**

3

SAMPLE No.			Hg	As	Au						
MBL 6N	0W	org.	.065	2	.005						1
	1	org.	.180	3	.005						2
	2	org.	.185	2	.005						3
	3	org.	.170	3	.005						4
	4		.095	2	.005						5
	5	org.	.330	3	.005						6
	6		.080	9	.005						7
	7	org.	.180	4	.005						8
	8		.440	7	.005						9
	9		.145	10	.005						10
	10		.460	4	.005						11
	11	org.	.265	4	.005						12
	12	org.	.145	3	.005						13
MBL 6N	13W		.220	14	.005						14
											15
											16
MBL 4N	10E		.150	4	.005						17
	9	org.	.235	3	.005						18
	8	org.	.125	3	.005						19
	7	org.	.080	3	.005						20
	6	org.	.170	4	.005						21
	5	org.	.240	9	.005						22
	4		.095	6	.005						23
	3	org.	.235	5	.005						24
	2	org.	.180	3	.005						25
	1E	org.	.150	2	.005						26
	0W	org.	.200	3	.005						27
	1	org.	.210	2	.005						28
	2		.170	4	.005						29
	3		.185	4	.005						30
	4	org.	.160	2	.005						31
	5		.200	12	.005						32
	6	org.	.270	1	.005						33
	7	org.	.320	1	.005						34
	8	org.	.280	1	.005						35
	9	org.	.190	52	.005						36
	10		.170	7	.005						37
	11	org.	.105	1	.005						38
	12	org.	.200	1	.005						39
MBL 4N	13W	org.	.215	1	.005						40

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Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

4

SAMPLE No.	Hg	As	Au								
MBL 2N 10E	.060	1	.005								1
9	.025	1	.005								2
8	.125	2	.005								3
7	.205	1	.005								4
6 org.	.205	1	.005								5
5 org.	.130	2	.005								6
4	.120	1	.005								7
3 org.	.360	1	.010								8
2 org.	.090	1	.005								9
1E org.	.085	1	.005								10
OW	.060	1	.005								11
1	.210	1	.005								12
2	.115	1	.005								13
3 org.	.090	1	.005								14
4	.210	1	.005								15
5	.100	2	.005								16
6	.065	1	.005								17
7	.080	2	.005								18
8 org.	.160	2	.005								19
9	.085	6	.005								20
10 org.	.120	1	.005								21
11	.190	1	.005								22
12 org.	.130	1	.005								23
13 org.	.130	1	.005								24
14 org.	.135	1	.005								25
15 org.	.130	1	.005								26
16	.185	2	.005								27
17	.180	5	.005								28
18	.150	2	.005								29
19	.155	3	.005								30
MBL 2N 20W	.185	5	.005								31
											32
											33
											34
											35
											36
											37
											38
											39
											40

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Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.			Hg	As	Au								
5	MBL ON 20E	org.	.280	1	.005								1
	19		.160	2	.005								2
	18	org.	.555	1	.010								3
	17	org.	.310	1	.005								4
	16	org.	.320	3	.005								5
	15	org.	.250	4	.005								6
	14	org.	.240	1	.005								7
	13	org.	.170	1	.005								8
	12		.205	2	.005								9
	11	org.	.185	1	.005								10
	10	org.	.290	1	.005								11
	9	org.	.225	1	.005								12
	8	org.	.145	1	.005								13
	7		.250	1	.005								14
	6	org.	.120	1	.005								15
	5	org.	.365	1	.005								16
	4	Sed.	.020	2	.005								17
	3	org.	.170	1	.005								18
	2		.055	1	.005								19
	1E	Sed.	.160	2	.005								20
MBL ON OW	org.	.305	1	.005								21	
.5	org.	.290	4	.005								22	
1.0	org.	.250	1	.005								23	
												24	
												25	
												26	
	2.5	org.	.120	2	.005							27	
	3.0	org.	.355	2	.005							28	
	3.5	org.	.155	1	.005							29	
	4.0	org.	.135	2	.005							30	
	4.5	org.	.115	1	.005							31	
	5.0	org.	.210	1	.005							32	
	5.5	org.	.080	2	.005							33	
	6.0	org.	.085	2	.005							34	
	6.5	R.C.	.125	3	.005							35	
	7.0	R.C.	.140	6	.005							36	
	7.5		.270	9	.005							37	
	8.0		.150	4	.005							38	
MBL ON 8.5W	org.	.040	2	.005								39	
												40	

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**DEAN TOYE, B.Sc.**  
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Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.		Hg	As	Au							
6	MBL ON 9.0W	org. .010	1	.005							1
	9.5	org. .010	1	.005							2
	10.0	.115	3	.005							3
	10.5	.150	5	.005							4
	11.0	.130	5	.005							5
	11.5	.120	3	.005							6
MBL ON 12.0W	.150	3	.005								7
											8
											9
MBL 2S 20 E	.060	1	.005								10
19	.100	3	.005								11
18	org. .125	1	.005								12
17	.160	1	.005								13
16	.190	10	.005								14
15	.170	2	.005								15
14	.075	3	.005								16
13	org. .205	4	.005								17
12	org. .180	2	.005								18
11	org. .170	2	.005								19
											20
											21
											22
											23
											24
											25
	4E	org. .105	2	.005							26
	3	.045	10	.005							27
	2	org. .110	2	.005							28
	1E	org. .100	3	.005							29
	OW	.090	4	.005							30
	1	R.C. .065	1	.005							31
	2	org. .160	2	.005							32
	3	org. .120	3	.005							33
	4	.030	3	.005							34
	5	org. .095	1	.005							35
	6	.210	3	.005							36
	7	org. .695	2	.005							37
	8	org. .160	1	.005							38
MBL 2S 9W	org. .295	2	.005								39
											40

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Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

7

SAMPLE No.			Hg	As	Au						
MBL	2S	10W	.130	3	.005						1
		11	.420	2	.005						2
		12	.065	2	.005						3
		13	.210	4	.005						4
		14	.250	1	.005						5
		15	.160	4	.005						6
		16	.150	2	.005						7
		17	.125	3	.005						8
MBL	2S	18W	.125	7	.005						9
											10
											11
											12
MBL	4S	0E	org. .225	5	.005						13
		1	org. .235	4	.005						14
		2	org. .205	4	.005						15
		3	org. .290	3	.005						16
		4	org. .230	1	.005						17
		5	org. .100	1	.005						18
		6	org. .270	3	.005						19
		7	org. .175	3	.005						20
		8	.120	1	.005						21
		9	org. .150	2	.005						22
		10	org. .420	1	.005						23
		11	org. .140	2	.005						24
		12	.120	2	.005						25
		13	org. .260	1	.005						26
		14	org. .320	1	.005						27
		15	.180	1	.005						28
		16	.100	2	.005						29
		17	org. .470	1	.005						30
		18	org. .360	2	.005						31
		19	.175	5	.005						32
MBL	4S	20E	org. .285	1	.005						33
											34
MBL	6S	0E	.145	1	.005						35
		1	.150	1	.005						36
		2	org. .280	2	.005						37
		3	.170	2	.005						38
		4	org. .345	2	.005						39
		5	org. .280	1	.005						40

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Type of Samples \_\_\_\_\_

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.			Hg	As	Au							
MBL 6S 6E	org.	.225	1	.005								1
		.180	1	.005								2
		.230	2	.005								3
		.215	1	.005								4
		.125	1	.005								5
		.495	1	.005								6
		.010	1	.005								7
	org.	.175	1	.005								8
	org.	.455	1	.005								9
		.170	2	.005								10
		.155	1	.005								11
		.140	1	.005								12
	org.	.380	1	.005								13
		.100	1	.005								14
MBL 6S 20E	org.	.215	1	.005								15
												16
												17
MBL 8S 0E		.160	3	.005								18
		.175	4	.005								19
		.215	3	.005								20
	org.	.210	3	.005								21
	org.	.355	3	.005								22
		.175	4	.005								23
		.055	3	.005								24
		.220	4	.005								25
	org.	.185	6	.005								26
	org.	.310	4	.005								27
		.110	3	.005								28
		.080	4	.005								29
		.160	5	.005								30
		.220	2	.005								31
		.010	6	.005								32
		.140	5	.005								33
	org.	.410	3	.005								34
		.190	5	.005								35
		.120	6	.005								36
	org.	.170	4	.005								37
MBL 8S 20E		.100	6	.005								38
												39
												40

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SAMPLE No.		Hg	As	Au								
MBL 10S	OE	1.250	3	.005								1
	1	org. .385	3	.005								2
	2	org. .360	3	.005								3
	3	org. .410	4	.005								4
	4	.175	5	.005								5
	5	org. .280	2	.005								6
	6	.145	4	.005								7
	7	.500	4	.005								8
	8	.285	4	.005								9
	9	.280	4	.005								10
	10	org. .325	2	.005								11
	11	org. .260	5	.005								12
	12	org. .510	5	.005								13
	13	org. .390	4	.005								14
	14	org. .280	2	.005								15
	15	org. .360	5	.010								16
	16	org. .265	4	.005								17
	17	.260	5	.005								18
	18	.110	4	.005								19
	19	.035	2	.005								20
MBL 10S	20E	.180	1	.005								21
												22
												23
												24
MBL 12S	OE	org. .245	1	.005								25
	1	org. .230	1	.005								26
	2	.025	1	.005								27
	3	.135	1	.005								28
	4	.160	4	.005								29
	5	org. .090	1	.005								30
	6	.100	1	.005								31
	7	.190	1	.005								32
	8	org. .235	1	.005								33
	9	org. .230	1	.005								34
	10	org. .295	1	.010								35
	11	org. .160	1	.005								36
	12	org. .250	2	.005								37
	13	org. .245	2	.005								38
MBL 12S	14E	org. .275	1	.005								39
												40

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### GEOCHEMICAL ASSAY CERTIFICATE

10

SAMPLE No.		Hg	As	Au								
MBL 12S 15E		.210	1	.005								1
	16	.195	2	.005								2
	17	org. .260	1	.005								3
	18	org. .205	2	.005								4
	19	org. .175	1	.005								5
MBL 12S 20E	org.	.245	3	.005								6
												7
												8
MBL 14S OE	org.	.125	1	.005								9
	1	.220	1	.005								10
	2	org. .180	1	.005								11
	3	.040	1	.005								12
	4	.180	2	.010								13
	5	.085	1	.005								14
	6	.165	2	.005								15
	7	.065	1	.005								16
	8	.170	2	.005								17
	9	org. .210	1	.005								18
	10	org. .115	1	.005								19
	11	org. .080	1	.005								20
	12	org. .160	1	.005								21
	13	org. .350	5	.005								22
	14	.220	1	.005								23
	15	.285	1	.005								24
	16	.195	1	.005								25
	17	.115	1	.005								26
	18	.050	1	.005								27
	19	org. .225	4	.005								28
MBL 14S 20E	org.	.200	2	.005								29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

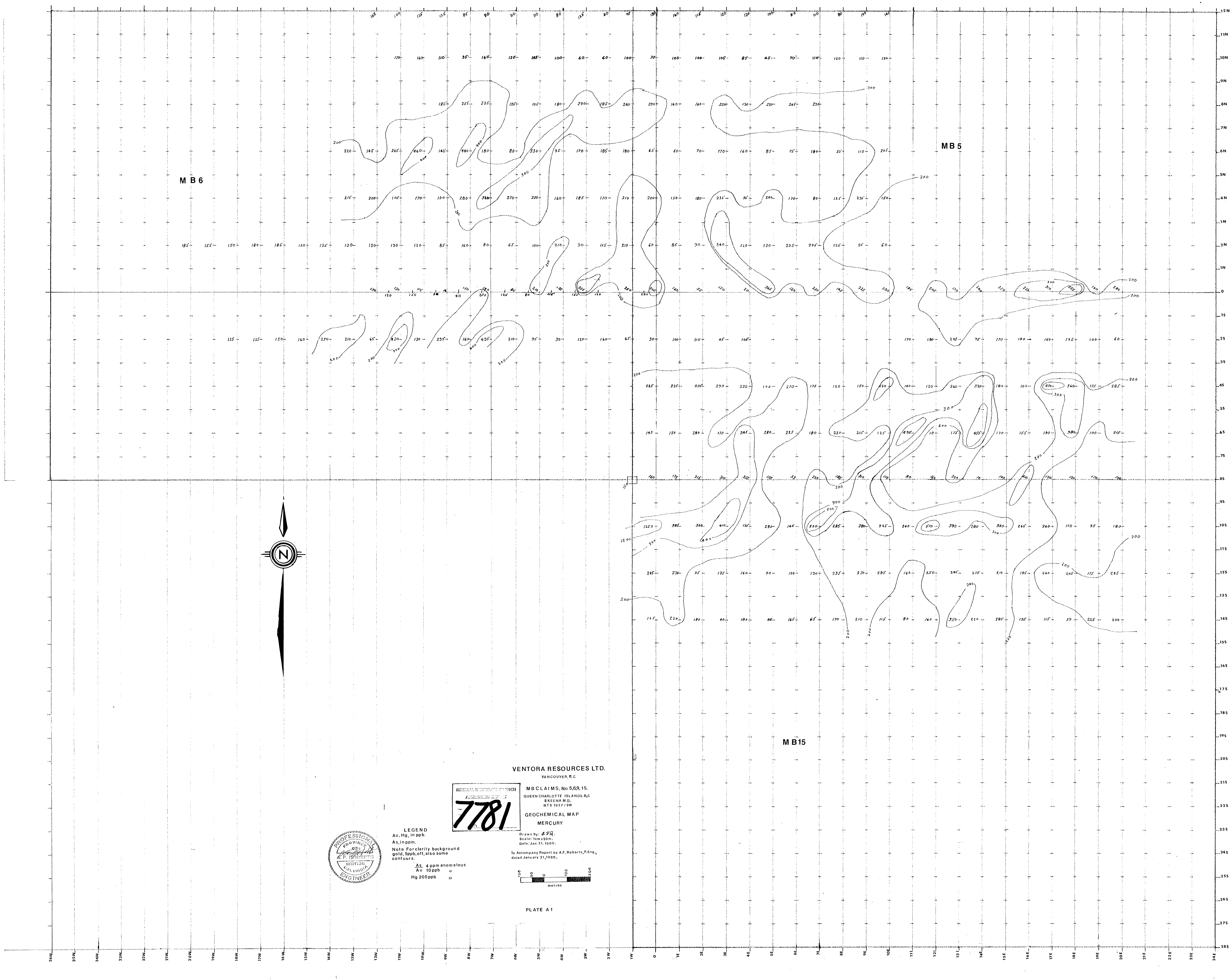
DETERMINATION:.....

DATE SAMPLES RECEIVED Dec. 17, 1979

DATE REPORTS MAILED Jan. 11, 1980

ASSAYER

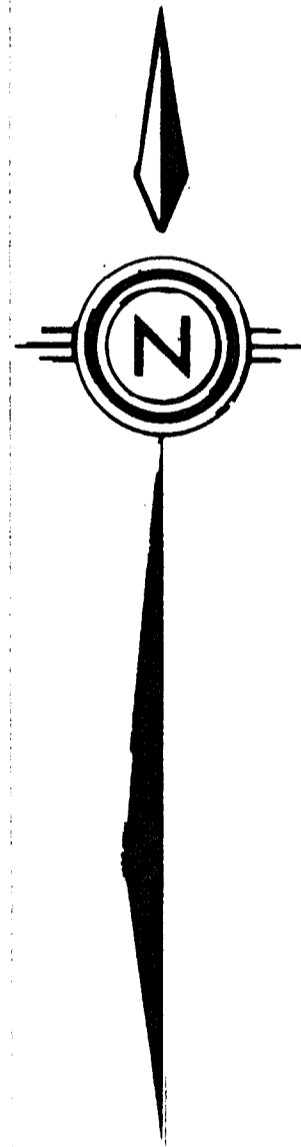
*D. Toye*  
DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



MB 6

MB 5

MB 15



VENTORA RESOURCES LTD.  
VANCOUVER, B.C.

MINERAL REVENUE BRANCH  
ASSESSMENT DISTRICT  
**7781**

MB CLAIMS, No 569, 15,  
QUEEN CHARLOTTE ISLANDS, B.C.  
SKEENA M.D.  
NTS 103 F/9W

GEOCHEMICAL MAP  
MERCURY

LEGEND  
Au, Hg, in ppb.  
As, in ppm.  
Note: For clarity background  
gold, Spb, off, also some  
contours.  
As 4 ppm anomalous  
Au 10 ppb "  
Hg 200 ppb "

Drawn by: *[Signature]*  
Scale: 1 cm = 50 m.  
Date: Jan. 31, 1980.  
To Accompany Report by A.F. Roberts, P.Eng.,  
dated January 31, 1980.

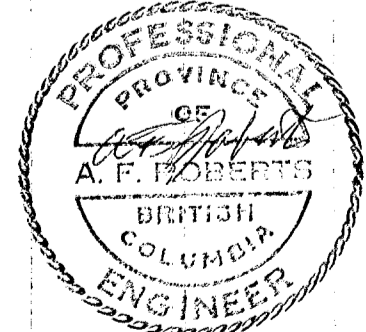
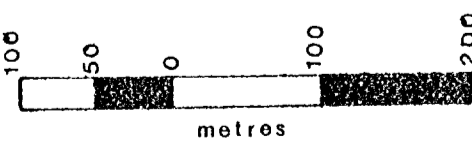
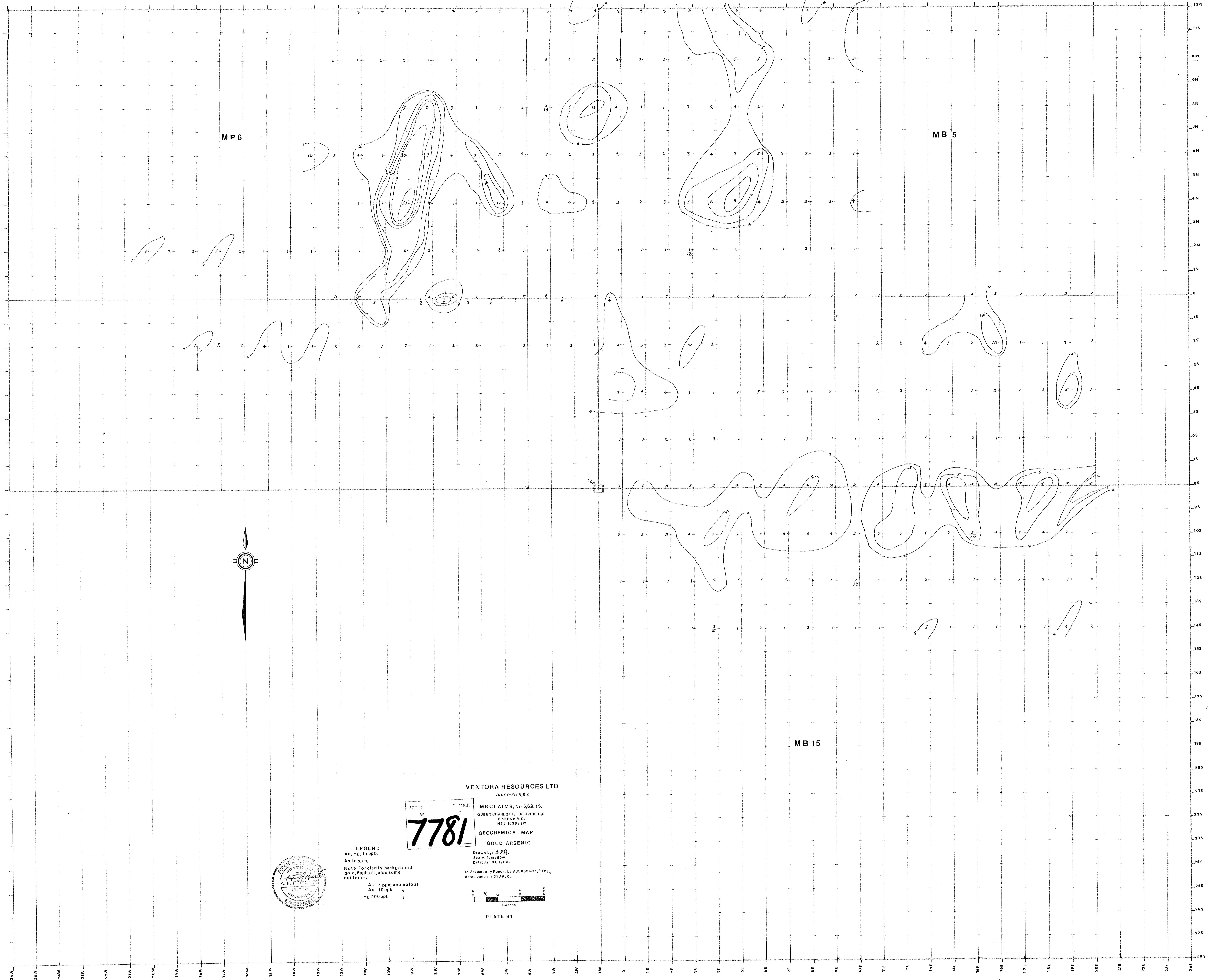


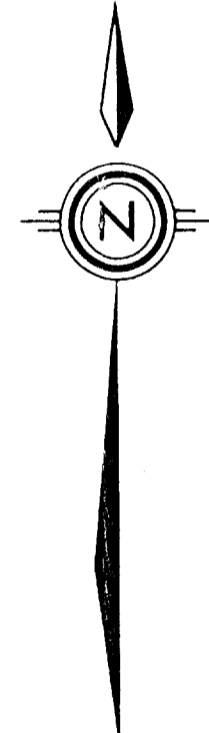
PLATE A 1



MP 6

MB 5

MB 15



VENTORA RESOURCES LTD.  
VANCOUVER, B.C.

**7781**

MB CLAIMS, No 569, 15.  
QUEEN CHARLOTTE ISLANDS, B.C.  
SKEENA M.D.  
NTS 103 F/SW  
GEOCHEMICAL MAP  
GOLD: ARSENIC

**LEGEND**  
Au, Hg, in ppb.  
As, in ppm.  
Note: For clarity background  
gold, 5ppb, off, also some  
contours.  
As 4 ppm anomalous  
Au 10ppb   "  
Hg 200ppb   "

Drawn by: *A.F.*  
Scale: 1cm = 50m.  
Date: Jan 31, 1980.  
To Accompany Report by A.F. Roberts, P.Eng.,  
dated January 31, 1980.

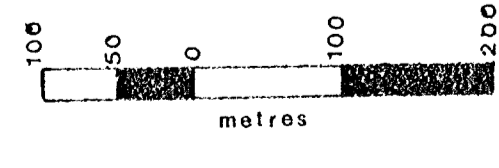
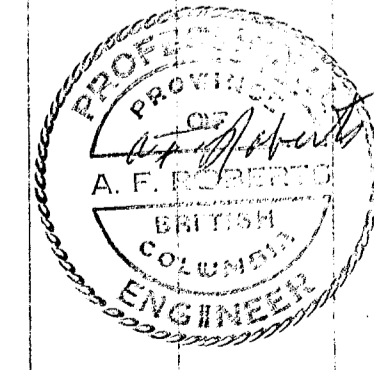


PLATE B1