

Geochemistry Report  
on the

Banks Group Claims  
Banks 7, 8, 9, 10

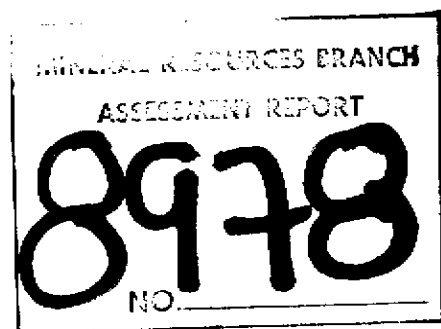
Waller Lakes area, Banks Island  
Skeena Mining Division

NTS 103G/8E

Latitude  $53^{\circ} 19'45''$  to  $53^{\circ} 22'10''$   
Longitude  $130^{\circ} 00'00''$  to  $130^{\circ} 07'35''$

for

TEAM MINERAL SERVICES INC.



## Table of Contents

Summary

Introduction 1

Location 1

Access 1

Geology 1

Location Map 2

Topography 3

Claim Groups 3

Cost 3

Geochemical Program 4

Discussion 5

Map 1 Location map 1:1,000,000 Page 2

2 Cu, Pb, Zn Geochemistry 1:10,000 Appendix D

3 Au, Ag, As Geochemistry 1:10,000 Appendix D

### Appendices

A Assay Procedures  
Assay Certificates

B Statement of Costs

C Statement of Authors Qualifications

D Maps Geochemistry

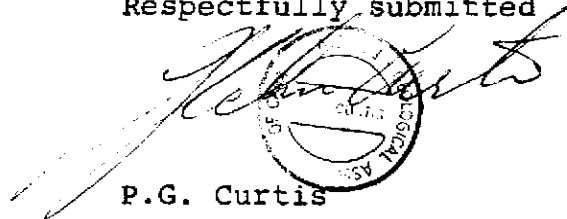
### Summary

This report details the procedure, work done and results of a geochemical orientation survey carried out during 1980.

It was decided during the field work that an auger was the only feasible means of obtaining samples.

The results obtained from assaying the samples are numerically insufficient to provide any meaningful interpretation but will be utilized in conjunction with subsequent surveys.

Respectfully submitted



A handwritten signature in cursive script, appearing to read "P.G. Curtis", is written over a circular stamp. The stamp contains the text "P.G. CURTIS" and "1980".

P.G. Curtis

Geochemistry Report  
on the  
Banks Claims Group  
Banks Island, B.C.  
Skeena Mining Division

by P.G. Curtis

### Introduction

This is a report on the procedures, costs and results of a geochemical orientation survey carried out in June of 1980.

### Location

The "Banks" claims group is situated in the Waller Lakes area which is in the south western part of Banks Island. It is approximately 120 km south of Prince Rupert and 120 km east of Sandspit.

### Access

The claims can be reached by float plane or helicopter from Prince Rupert or Sandspit.

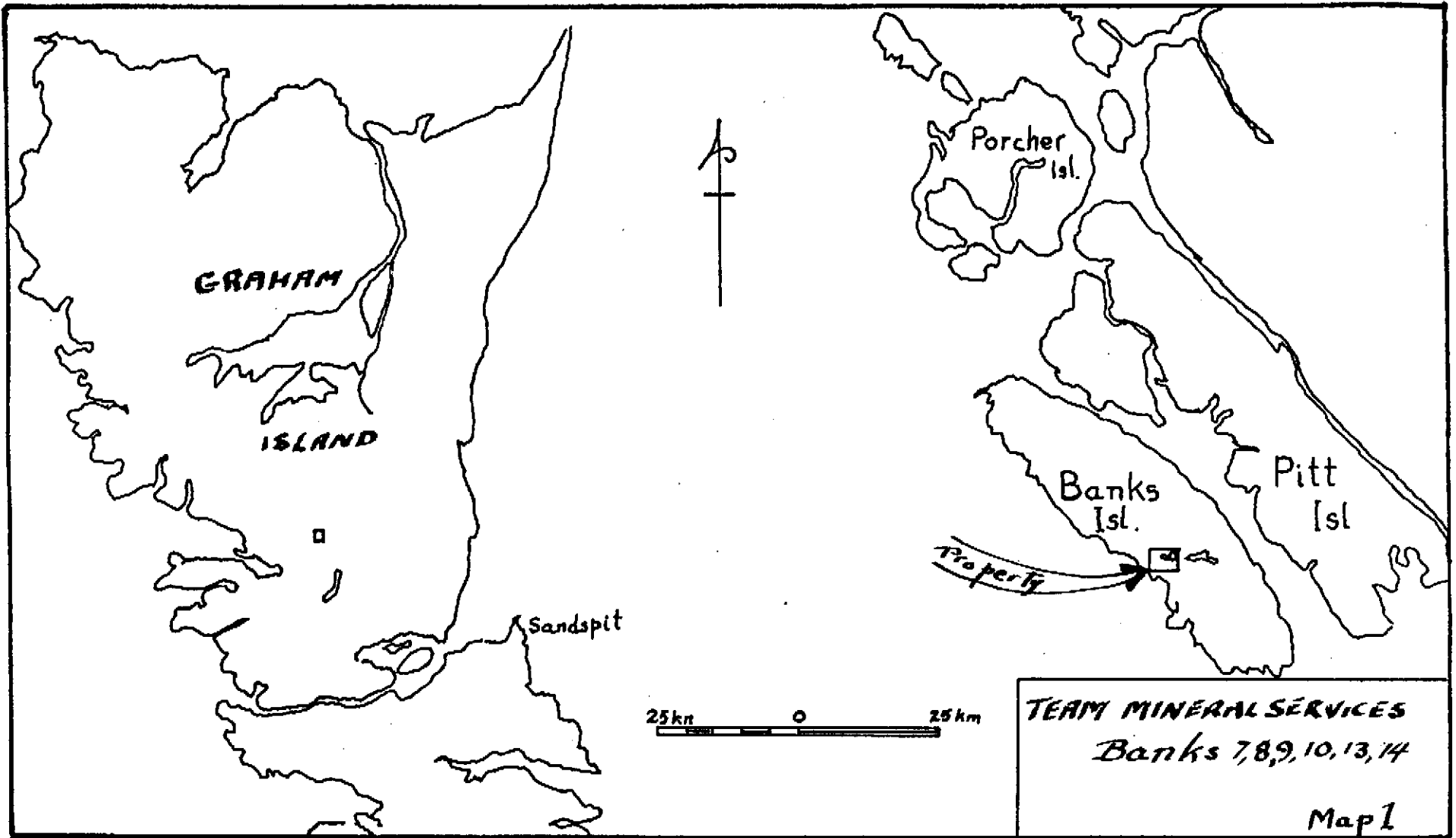
Mobility within the claims group is greatly facilitated by use of canoe or small boat.

There are no roads on the claim group.

### Geology

The claim group is underlain by quartz monzonite, granodiorite and a band of limestone striking north westerly along the south shore of Waller Lake.

Minor pyrite has been observed in the limestone.



TEAM MINERAL SERVICES  
Banks 7,8,9,10,13,14  
Map 1

### Topography

The topography is of low releif ranging from 0-50 m A.S.L. much of the ground is flat and very poorly drained.

Water supply is abundant but often of poor quality.

### Claim group

Claim Name	Units	Record No.	Expiry Date
Banks 7	20	1257	February 22, 1982
8	20	1258	February 22, 1982
9	16	1259	February 22, 1982
10	16	1260	February 22, 1982

Assessment work was filed at the Vancouver office of the sub-recorder for the Skeena M.D. on February 23, 1981.

### Cost

The program was carried out by Team Mineral Services. The amount of assessable work performed on the Banks group was \$7,300 as detailed in Appendix B. statement of costs.

## Geochemical Program

### Grid

Soil sampling lines were laid out along N-S claim lines:

N-S lines because mineralized veins are known to strike E.W. on the property to the north of the Banks group; and claim lines so as to obtain knowledge of sampling conditions over as much of the property as possible.

### Sampling

Initially attempts were made to take samples by three methods, by pick, by shovel and by auger. It was quickly realized that the pick or shovel were inefficient due to the waterlogged condition of the ground and the depth of the B. horizon.

### Assay

Samples were partially dried on the property then shipped air freight to Acme Laboratories in Vancouver for preparation and assay for Cu, Pb, Zn, Au, Ag and As.

Analysis procedures and assay certificates are detailed in Appendix A.

### Results

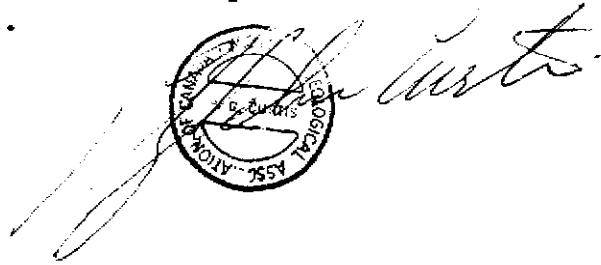
Insufficient samples were collected for any meaningful statistical analysis, but approximate threshold values may be computed. The following approximations were obtained from frequency curves.

Cu	15ppm
Pb	20ppm
Zn	30ppm
As	6ppm
Au	0.015ppm
Ag	0.4ppm

A good anomaly occurs on the line Banks  
9-500E.

#### Discussion

Although results are not conclusive it  
appears that anomalous areas can be  
defined when a more complete survey is  
carried out.



A handwritten signature in cursive script is written over a circular stamp. The stamp contains the text "GEOLOGICAL ASSOCIATION OF CANADA" around the perimeter and "G. CURTIS" in the center.



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 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 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.

-As - By ICP emission spectrometer.  
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.



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone:253 - 3158

To: Eskimo Resources Ltd.,  
c/o Mr. L.Hedman  
P.O. Box 2157,  
Prince George, B.C.

File No. 80-1261

Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.		Cu	Pb	Zn	Ag	As	Au	
BANK 7 OE	5N	5	15	29	.1	1	.010	1
	1000	7	4	14	.1	1	.005	2
	1550	3	2	6	.1	1	.005	3
	1600	4	2	6	.1	1	.005	4
	1650	4	2	8	.1	1	.005	5
	1700	4	2	8	.2	1	.005	6
	1750	7	8	10	.1	1	.005	7
	1800	3	2	9	.2	1	.005	8
	1850	3	2	5	.1	1	.005	9
	1900	6	5	7	.1	1	.005	10
	1950	5	2	17	.1	1	.005	11
	2000	5	3	19	.1	1	.005	12
	2050	5	4	13	.1	1	.005	13
	2100	3	2	5	.1	1	.005	14
	2150	11	8	17	.2	1	.005	15
	2200	10	9	12	.1	3	.005	16
	2250	10	9	11	.1	2	.005	17
	2300	5	2	7	.1	1	.005	18
	2350	4	5	18	.1	1	.005	19
	2400	9	15	20	.1	1	.005	20
OE	2450N	5	3	7	.1	2	.005	21
BANK 8 OE	ON	6	4	16	.1	2	.005	22
	50	4	3	14	.1	1	.005	23
	100	12	5	15	.3	4	.005	24
	300	3	2	6	.2	1	.005	25
	350	15	12	14	.1	5	.005	26
	400	7	6	9	.2	3	.005	27
	450	7	7	19	.1	2	.005	28
	500	3	2	16	.1	1	.005	29
	550	5	2	7	.1	1	.005	30
	600	7	2	9	.1	1	.005	31
	650	12	7	29	.1	3	.005	32
	700	4	2	16	.1	1	.005	33
	800	3	2	9	.1	1	.005	34
	850	8	7	19	.2	3	.005	35
OE	900N	4	2	7	.1	1	.005	36
								37
								38
								39
								40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Oct. 15, 1980

DATE REPORTS MAILED Oct. 27, 1980

ASSAYER Dean Toy

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



To: Eskimo Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 80-1261

Type of Samples Soil

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Cu	Pb	Zn	Ag	As	Au						
BANK 8 OE 950N	4	5	9	.1	1	.005						1
1050	15	20	18	.1	8	.005						2
1100	5	4	12	.1	1	.005						3
1150	5	6	14	.1	1	.005						4
1200	16	13	16	.1	3	.005						5
1250	23	12	29	.1	2	.005						6
1300	10	9	12	.1	3	.005						7
1350	7	10	20	.1	1	.005						8
1400	6	4	9	.1	1	.005						9
1450	4	9	15	.1	1	.005						10
1500	5	6	7	.1	1	.005						11
1550	3	7	5	.1	1	.005						12
1600	6	6	13	.1	1	.005						13
1650	7	6	14	.1	1	.005						14
1700	4	6	8	.1	1	.005						15
1750	3	3	11	.1	1	.005						16
2350	2	2	4	.1	1	.005						17
2400	3	5	5	.1	2	.005						18
OE 2450N	3	3	5	.1	2	.005						19
												20
BANK 9 OE 1N	9	4	35	.1	2	.005						21
15	11	9	22	.2	4	.005						22
25	16	5	21	.2	7	.005						23
90	5	5	11	.2	2	.010						24
125	3	3	4	.2	1	.010						25
150	5	4	9	.1	2	.010						26
175	6	5	7	.1	2	.005						27
200	6	4	6	.3	3	.005						28
225	5	7	8	.1	1	.005						29
250	18	10	32	.3	3	.005						30
275	18	25	94	.1	3	.015						31
300	16	18	32	.1	1	.005						32
325	4	2	11	.1	1	.005						33
350	6	6	10	.1	1	.005						34
375	2	2	5	.1	1	.005						35
400	8	8	10	.2	1	.005						36
OE 425N	4	2	7	.1	1	.005						37
												38
												39
												40

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ASSAYER \_\_\_\_\_

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



To: Eskimo Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 80-1261

Type of Samples Soil

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

3

Table with columns: SAMPLE No., Cu, Pb, Zn, Ag, As, Au, and a numbered list on the right (1-40). Rows include sample IDs like BANK 9 OE 450N, 475, 525, etc., and OE 1375N, 1400N, 2000N.

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Type of Samples Soil

Disposition \_\_\_\_\_

### GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.		Cu	Pb	Zn	Ag	As	Au					
BANK 9 <sup>UNIT</sup> IE	ON	59	12	127	.1	4	.005					1
$\pm 500E$	25	193	66	270	.2	6	.005					2
	50	3	2	8	.1	1	.005					3
	75	21	10	28	.1	2	.005					4
	100	3	3	13	.1	2	.005					5
	125	23	20	24	.1	2	.005					6
	150	5	3	8	.1	2	.035					7
	175	7	11	19	.1	2	.005					8
	200	6	6	20	.1	2	.005					9
	225	19	4	11	.1	2	.005					10
<sup>UNIT</sup> IE	250N	7	5	17	.1	2	.005					11
												12
												13
BANK10 OE	OMS	2	2	4	.1	2	.005					14
	50	3	2	7	.1	2	.005					15
	100	3	2	8	.1	2	.005					16
	150	10	5	28	.1	4	.005					17
	200	4	2	15	.1	2	.005					18
	250	4	2	9	.1	2	.005					19
	300	8	5	7	.1	2	.005					20
	350	7	2	5	.1	2	.005					21
	400	4	3	4	.1	2	.005					22
	450	4	2	9	.1	2	.005					23
	500	5	2	21	.1	2	.005					24
	550	5	2	3	.1	2	.005					25
	600	2	2	4	.1	2	.005					26
	650	4	2	5	.1	2	.005					27
	700	4	2	13	.1	2	.005					28
	750	30	2	14	.1	3	.005					29
	800	9	8	10	.1	2	.005					30
	850	7	7	6	.1	2	.005					31
	900	10	8	7	.2	2	.005					32
	950	7	2	11	.1	2	.005					33
	1000	8	2	11	.1	2	.005					34
	1050	7	3	8	.1	2	.005					35
	1100	3	2	4	.1	2	.005					36
	1150	15	5	8	.2	2	.005					37
OE	1200MS	18	11	28	.1	2	.005					38
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Type of Samples Soil

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

5

SAMPLE No.		Cu	Pb	Zn	Ag	As	Au						
BANK 10 OE 1250MS		2	2	3	.1	1	.005						1
1300		2	3	2	.1	1	.010						2
OE 1350MS		8	19	10	.3	4	.005						3
													4
<i>unit 1E</i> 25MS		34	15	45	.1	2	.005						5
<i>≡ 500E</i> 50		2	7	4	.1	1	.005						6
75		7	8	8	.1	1	.005						7
100		5	12	6	.1	1	.005						8
125		6	10	5	.1	1	.005						9
150		8	8	9	.1	1	.005						10
175		4	10	7	.1	1	.005						11
200		6	7	10	.1	1	.005						12
225		19	13	11	.1	1	.005						13
<i>UNIT 1E</i> 250MS		13	14	13	.1	1	.005						14
													15
BPC 1 R		9	70	24	.2	5	.005						16
BPC 2 R		425	16	52	.1	3	.005						17
BPC 3 R		56	11	68	.2	4	.005						18
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ASSAYER \_\_\_\_\_

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CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



Appendix B.

Statement of Costs

Personnel

12 days supervisor @ \$150.00	\$1,800.00
12 days sampler & linecutter at @ \$100.00	1,200.00
12 days sampler assistant @ \$100.00	1,200.00

Mobilization & Demobilization

Airfare 3 men Vancouver - Prince Rupert - Vancouver	544.20
Charter Prince Rupert - Banks - Prince Rupert	691.20
Truck rental 2 days @ \$36.00	72.00

Equipment rental

12 days canoe and motor @ \$20.00	240.00
12 days camp equipment @ \$30.00	360.00

Sample

shipping	42.36
analysis	1,000.00

Miscellaneous

Freight camp gear	26.00
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Report

3 man days at \$150.00	450.00
Drafting & typing and copying	75.00

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\$7,700.76

Appendix C

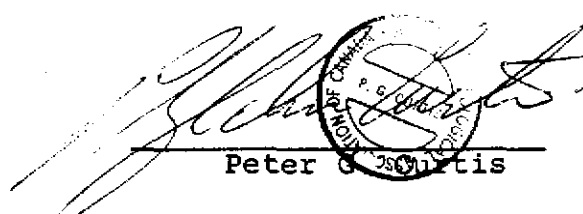
Qualifications of supervisor and author  
of this report.

I am a graduate of the Camborne School  
of Mines, Cornwall, England; with an  
additional diploma in applied geochemistry.

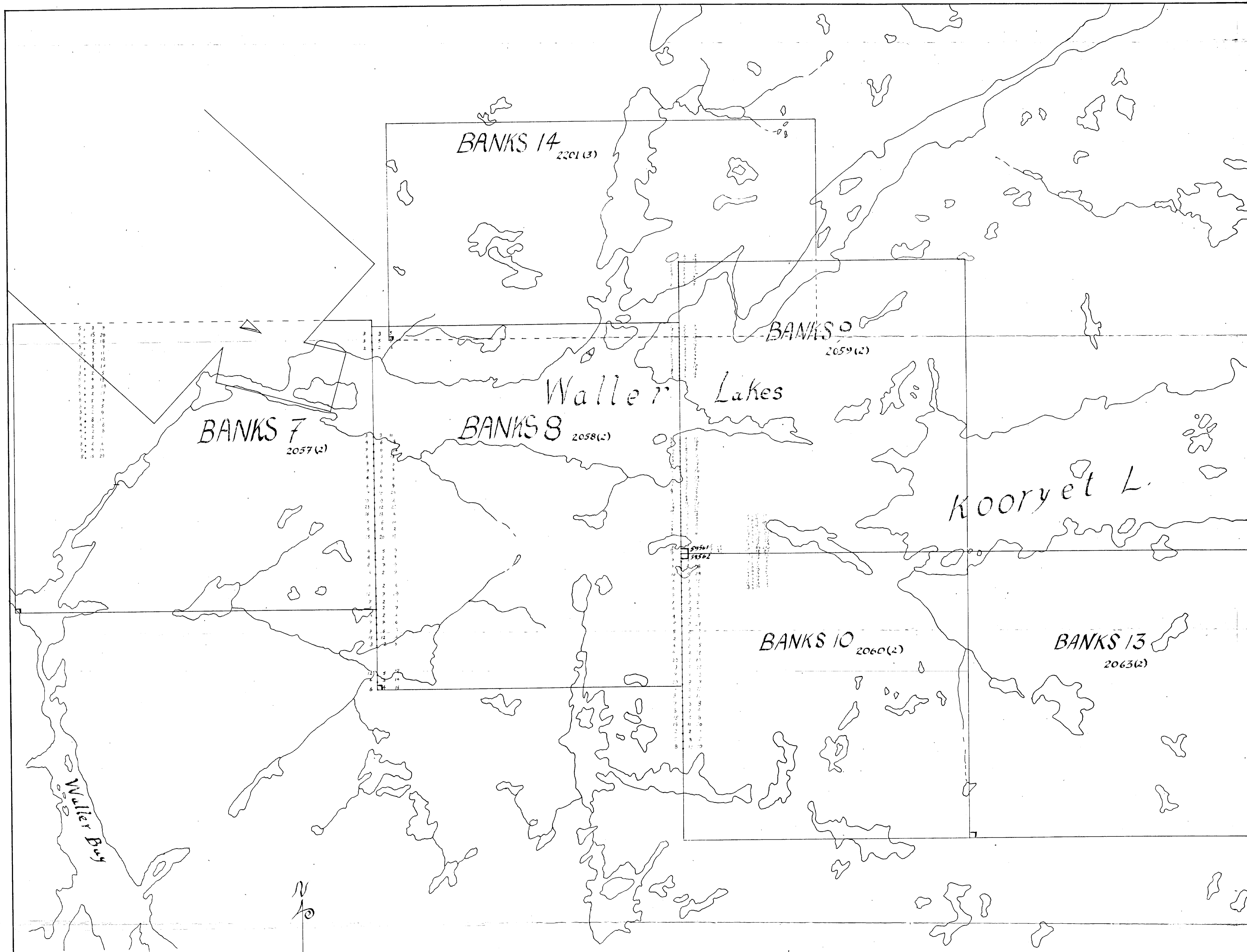
I have been employed in mineral exploration  
in Canada since 1967 (10 years with ASARCO  
Exploration Co. of Canada Ltd.)

I am a Fellow of the Geological Association  
of Canada.

Dated at Vancouver, British Columbia, this  
\_\_\_\_\_ day of March, 1981.

  
Peter G. Curtis





TEAM MINERAL SERVICES INC

BANKS ISI GROUP

Geochemistry

Copper Lead Zinc  
pp.m.

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

**8978**

Scale 1:10,000  
Drawn by PC

Feb 81  
MAP 3