

COMINCO LTD.

EXPLORATION
NTS: 105 H/6

WESTERN DISTRICT



ASSESSMENT REPORT

GEOLOGY, GEOCHEMISTRY

BARB PROPERTY

WATSON LAKE M.D., YUKON

FRANCES LAKE AREA

LATITUDE: 61°27'N; LONGITUDE: 129°21'W

WORK PERIOD: June 15 - July 11, 1981



090861

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 35,414.57

~~Resident Geologist or
Resident Mining Engineer~~

~~Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.~~

Ruth Sebicki Oct 1/81

for Commissioner of Yukon Territory

FROM: Mining Recorder at Watson Lake

TO: Supervising Mining Recorder at Whitehorse, Y.T.

FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No.

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name:

Lease No.

ASSIGNMENT of PLACER LEASE No.

From:

To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner:

DIAMOND DRILL LOGS:

Claims:

Claim sheet no:

QUARTZ ASSESSMENT REPORT

Claims: BARB 97-175

Claim sheet no. 105-11-6

Type of report:

Geological, Geochemical

Submitted by:

Cominco Ltd.

Cls. work performed on:

Barb 9-10, 13, 15, 29-42,
44-46, 48-60, 97-175

\$ Req. for ren. application

\$27,825.00

[Signature]

Signature

*Pls see attached memo.

REPLY ACTION:

Date Ret.

Signature

FROM: Mining Recorder at WATSON LAKE

TO: Supervising Mining Recorder at Whitehorse, Y.T.



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No.

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name:

Lease No.

ASSIGNMENT of PLACER LEASE No.

From:

To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner:

DIAMOND DRILL LOGS:

Claims:

Claim sheet no:

QUARTZ ASSESSMENT REPORT

Claims: BARB 104-175

Claim sheet no. 105-H-6

Type of report:

Geological, Geochemical

Submitted by:

Cominco Ltd.

Cls. work performed on:

Barb 104-175

\$ Req. for ren. application

\$7200 (at this time)

[Signature]

Signature

REPLY ACTION:

Date Ret.

090861

Signature



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-909 GRANVILLE ST. - VANCOUVER, B.C. V6C 1T2		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

COMINGO LTD. IS

1. ~~I~~ the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~done~~ done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.

CLAIMS

YA 54923 - YA 54994

BARB 104 - 175

situated at FRANCES LAKE AREA

Claim Sheet No. 105 H-6

In the WATSON LAKE Mining District, to the value of at least 7,200.00

dollars, since the 24th day of JUNE 19 80

to represent the following mineral claims under the authority of Grouping Certificate No. _____
(Here list claims to be renewed by number and name in numerical order)

GRANT NOS.

CLAIMS

YA 54923 - YA 54994

BARB 104 - 175

PLEASE APPLY ONE YEAR OF WORK TO EACH OF ABOVE MINERAL CLAIMS.

WITH THE PERMISSION OF THE MINING RECORDER THE TECHNICAL REPORT WILL BE SENT TO WATSON LAKE BY THE MIDDLE OF SEPT., 1981

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WAS EVENLY DONE ON MINERAL CLAIMS BARB 104-175 - JUNE 10-24/81

**WORK WAS PERFORMED BY: GEOLOGY, GEOCHEMISTRY
BRENT CRICH, JOHN SEWELL - STUDENTS, T. HODSON - GEOLOGIST
COMINGO LTD. 700-909 GRANVILLE ST., VANCOUVER, B.C.**

LINE CUTTING BY KETZA ENTERPRISES LTD, ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
this 25th day of JUNE 1981

Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700 - 409 GRANVILLE ST, VANCOUVER, B.C. V6C 1T2	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINCO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54923 - 41, - 43	BARB 104, 122, 124
YA 54945 - 53	BARB 126 - 134

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6
 In the WATSON LAKE Mining District, to the value of at least \$750.00
 dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3006
(Here list claims to be renewed by number and name in numerical order) BARB 81-1

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54671, - 73	BARB 100, 102

PLEASE APPLY 3.75 YRS TO EACH CLAIM, GIVING THEM A COMMON DUE DATE OF FEBRUARY 19, 1986

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 104-175 - JUNE 15 - 24/81 = \$63.75/CLAIM.
12 CLAIMS x \$63.75 = \$765.00**

WORK PERFORMED BY:

**GEOLOGY, GEOCHEMISTRY - BRENT CRIGH, JOHN SEWELL - STUDENTS, T. HODSON, GEOLOGIST; COMINCO LTD., 700-409 GRANVILLE ST., VANCOUVER, B.C.
LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON**

Sworn before me at VANCOUVER, B.C.
this 18 day of SEPTEMBER 19 81

Colleen A. Hoel

S. S. Selke

Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700 - 409 GRANVILLE ST, VANCOUVER, B.C. V6C 1T2	OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.
YA 54925, -27, -29, -31, -33, -35,
YA 54937-40, -42, -44

CLAIMS
BARB 106, 108, 110, 112, 114, 116
BARB 118, 121, 123, 125

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

In the WATSON LAKE Mining District, to the value of at least \$ 750.00

dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3007
(Here list claims to be renewed by number and name in numerical order) BARB 81-2

GRANT NOS.
YA 54669, -70

CLAIMS
BARB 98, 99

**PLEASE APPLY 3.75 YEARS TO EACH CLAIM, GIVING THEM
A COMMON DUE DATE OF FEBRUARY 19, 1986**

3. The following is a detailed statement of such work: (Set out full particulars of the work done
in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY
ON MINERAL CLAIMS BARB 104-175 - JUNE 15 - 24/81 = \$63.75/CLAIM.
12 CLAIMS X \$63.75 = \$765.00**

WORK PERFORMED BY:

**GEOLOGY, GEOCHEMISTRY - BRENT CRICH, JOHN SEWELL - STUDENTS, T. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST, VANCOUVER, B.C.**

LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
this 18 day of SEPTEMBER 19 81

[Signature]

[Signature: S. Selke]

Applicant.

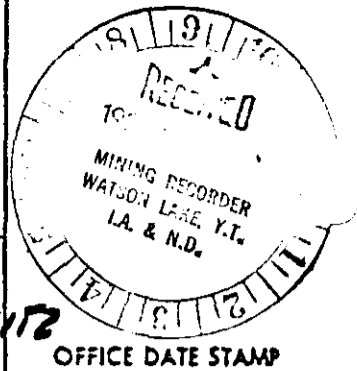
**A NOTARY PUBLIC IN AND FOR THE
PROVINCE OF BRITISH COLUMBIA**



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700 - 409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2	

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.
YA 54924, -26, -28, -30, -32, -34
YA 54936, -35, -37, -39, -91, -93

CLAIMS
BARB 105, 107, 109, 111, 113, 115,
BARB 117, 166, 168, 170, 172, 174

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

In the WATSON LAKE Mining District, to the value of at least 750.00

dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3008
(Here list claims to be renewed by number and name in numerical order) BARB 81-3

GRANT NOS.
YA 54672, -74

CLAIMS
BARB 101, 103

**PLEASE APPLY 3.75 YEARS TO EACH OF CLAIMS, GIVING THEM
A COMMON DUE DATE OF FEBRUARY 19/86**

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 104-175 - JUNE 15 - 24/81 = \$63.75/CLAIM.
12 CLAIMS X \$63.75 = \$765.00**

WORK PERFORMED BY:

GEOLOGY, GEOCHEMISTRY - BRENT GRICH, JOHN SEWELL - STUDENTS, T. HOBSON, GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
this 18 day of SEPTEMBER 1981

Co 7102

S. S. Selke

Applicant.

A NOTARY PUBLIC IN AND FOR THE
PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE Occupation SENIOR TECHNICIAN
 (Postal Address) 700 - 409 GRANVILLE ST, VANCOUVER, B.C. V6C 1T2

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
COMINGO LTD. HAS

2. caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
	<u>BARB 163-165</u>
	<u>BARB 167, 169, 175</u>

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least 375.00

dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3009
(Here list claims to be renewed by number and name in numerical order) BARB 81-4

<u>GRANT NO.</u>	<u>CLAIM.</u>
<u>YA 54 668</u>	<u>BARB 97</u>

PLEASE APPLY 3.75 YEARS TO BARB 97 GIVING IT A COMMON DUE DATE OF FEBRUARY 19, 1986

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 109-175 - JUNE 15-24/81 = \$63.75/CLAIM. 6 CLAIMS x \$63.75 = \$382.50

WORK PERFORMED BY:

GEOLOGY, GEOCHEMISTRY - BRENT GRICH, JOHN SEWELL - STUDENTS, T. HODSON, GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.
LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
 this 18 day of SEPTEMBER 1981
Ca Joe

[Signature]
 Applicant.

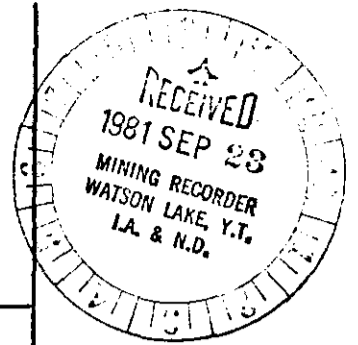
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700-409 GRANVILLE ST, VANCOUVER, B.C. V6C 1T2	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54954, -55, -57, -59, -70, -71, -73-75	BARB 135, 136, 138, 140, 151, 152, 154, 156
YA 54977, -79, -81, -90, -92	BARB 158, 160, 162, 171, 173

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

In the WATSON LAKE Mining District, to the value of at least 800.00

dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3010
(Here list claims to be renewed by number and name in numerical order) BARB 81-5

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54502, YA 54503	BARB 61, 62

PLEASE APPLY 4 YRS OF WORK TO EACH OF ABOVE CLAIMS.

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 104-175 - JUNE 15 - 24/81 = \$63.75/CLAIM.
13 CLAIMS x \$63.75 = \$828.75**

WORK PERFORMED BY:

GEOLOGY, GEOCHEMISTRY - BRENT CRICH, JOHN SEWELL - STUDENTS T. HODSON, GEOLOGIST - COMINGO LTD, 700-409 GRANVILLE ST, VANCOUVER, B.C.

LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
this 18 day of SEPTEMBER 1981

Catherine A Noel

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA

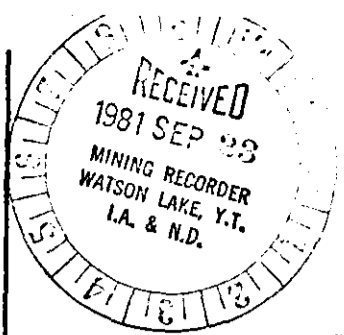
S. S. Selke
Applicant.



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700-409 GRANVILLE ST, VANCOUVER, B.C. V6C 1T2	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINCO LTD. HAS

2. caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54961-63-72-74	BARB 142, 144, 153, 155,
YA 54976-78-80	BARB 157, 159, 161

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least 400.00

dollars, since the 15 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3011
(Here list claims to be renewed by number and name in numerical order) BARB 81-6

<u>GRANT No</u>	<u>CLAIM</u>
YA 54504	BARB 63

PLEASE APPLY 4 YEARS OF WORK TO CLAIM BARB 63

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 104-175 - JUNE 15-24/81 = \$63.75/CLAIM. 7 CLAIMS x \$63.75 = \$446.25

WORK PERFORMED BY:

GEOLOGY, GEOCHEMISTRY - BRENT GRICH, JOHN SEWELL - STUDENTS, T. HODSON, GEOLOGIST - COMINCO LTD, 700-409 GRANVILLE ST, VANCOUVER, B.C.

LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at VANCOUVER, B.C.
this 10 day of SEPTEMBER 19 81
Corine A. Hoe

S. S. Selke
Applicant.

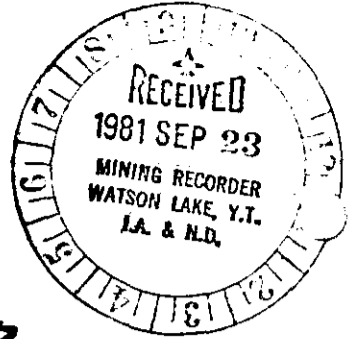
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700 - 409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.
YA 54956, -58, -60, -62
YA 54964-66

CLAIMS
BARB 137, 139, 141, 143
BARB 145-147

situated at **FRANCES LAKE AREA** Claim Sheet No. **105 H-6**

In the **WATSON LAKE** Mining District, to the value of at least **400.00**

dollars, since the **15** day of **JUNE** 19 **81**

to represent the following mineral claims under the authority of Grouping Certificate No. **3012**
(Here list claims to be renewed by number and name in numerical order) **BARB 81-7**

GRANT NO.
YA 54505

CLAIM
BARB 64

PLEASE APPLY 4 YEARS OF WORK TO CLAIM BARB64

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL, GEOCHEMICAL SURVEYS AND LINE CUTTING WERE DONE EVENLY ON MINERAL CLAIMS BARB 104-175. JUNE 15-24/81 = \$63.75/CLAIM.

WORK PERFORMED BY: 7 CLAIMS x \$63.75 = 446.25

GEOLOGY, GEOCHEMISTRY - BRENT CRICH, JOHN SELWELL - STUDENTS, T. HOBSON, GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

LINE CUTTING - KETZA ENTERPRISES LTD., ROSS RIVER, YUKON

Sworn before me at **VANCOUVER, B.C.**
this **18** day of **SEPTEMBER** 19**81**
Co Hoe

S. S. Selke
Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-109 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54668-71, -73, YA 54923, -41	BARB 97-100, 102, 104, 122,
YA 54943, -45, -47, -49, -51, -53	BARB 124, 126, 128, 130, 132, 134

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6
in the WATSON LAKE Mining District, to the value of at least 2,766.66
dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3013
(Here list claims to be renewed by number and name in numerical order)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54923, -41, -43, -45	BARB 81-8
	BARB 104, 122, 124, 126

PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1985)

YA 54947, -49, -51, -53 BARB 128, 130, 132, 134

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB 19, 1986) AND SHOWN \$ 166.66 AS AN EXCESS GREAT ON MINERAL CLAIM BARB 102.

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-109 GRANVILLE ST., VANCOUVER, B.C.
13 MINERAL CLAIMS x \$ 212.82 = \$ 2,766.66 TOTAL
ASSESSMENT WORK VALUE

Sworn before me at VANCOUVER, B.C.
this 19 day of SEPTEMBER 1981

Cg Noe

S. S. Selke

Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA

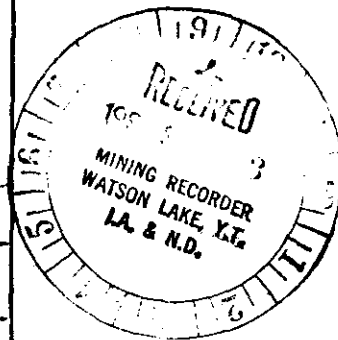


Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

GRANT NOS. CLAIMS

YA 36649, YA 54419, -90, YA 54672, 74, YA 54925, -27	BARB 30, 48, 49, 101, 103, 106, 108
YA 54940, -42, -44, -46, -48, -50, -52	BARB 121, 123, 125, 127, 129, 131, 133

situated at **FRANCES LAKE AREA** Claim Sheet No. **105 H-6**

in the **WATSON LAKE** Mining District, to the value of at least **3,146.14**

dollars, since the **25** day of **JUNE** 19 **81**

to represent the following mineral claims under the authority of Grouping Certificate No. **3014**

(Here list claims to be renewed by number and name in numerical order)

GRANT NOS. CLAIMS

YA 54925, -27, -40, -42, -44	BARB 106, 108, 121, 123, 125
PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/1985)	

YA 54946, -48, -50, -52	BARB 127, 129, 131, 133
PLEASE APPLY 8.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1986) AND SHOW \$271.14 AS AN EXCESS CREDIT ON BARB 30	

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE	\$ 3,146.14
BEING APPLIED	- 2,875.00
REMAINING (EXCESS ON BARB30)	\$ 271.14

Sworn before me at **VANCOUVER, B.C.**
this **10** day of **SEPTEMBER** 19**81**

C. J. Ho

S. S. Selke

Applicant.

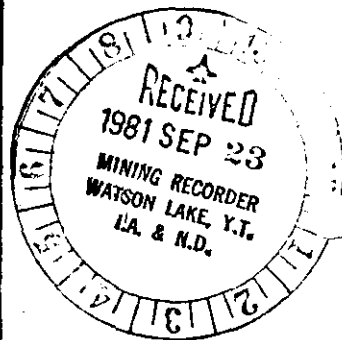
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



OFFICE DATE STAMP

I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 46976, -78, YA 54491, -92, YA 54924, -26	BARB 34, 36, 50, 51, 105, 107
YA 54929, -31, -33, -35, -37, -39	BARB 110, 112, 114, 116, 118, 120

situated at **FRANCES LAKE AREA** Claim Sheet No. **105 H-6**

in the **WATSON LAKE** Mining District, to the value of at least **2,824.98**

dollars, since the **25** day of **JUNE** 19 **81**

to represent the following mineral claims under the authority of Grouping Certificate No. **3015**

(Here list claims to be renewed by number and name in numerical order)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54924, -26, -29, -31	BARB 105, 107, 110, 112
YA 54933, -35, -37, -39	BARB 114, 116, 118, 120

PLEASE APPLY 2.75 YEARS OF WORK TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1985)

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1986) AND SHOW \$224.98 AS AN EXCESS CREDIT ON BARB 105

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.**

CREDITS AVAILABLE	\$ 2,824.98
BEING APPLIED	- 2,600.00
REMAINING (EXCESS ON BARB 105)	\$ 224.98

Sworn before me at **VANCOUVER, B.C.**

this **19** day of **SEPTEMBER** 19**81**

C. X. Lee

S. S. Selke

Applicant.

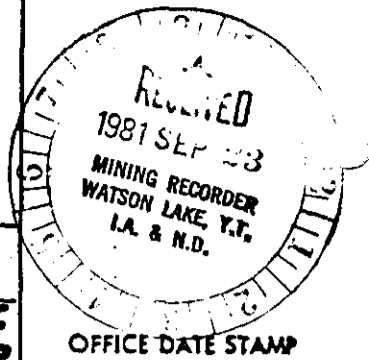
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINED LTD. HAS

2. ~~caused~~ caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.

CLAIMS

YA 20216, -17-36, YA 36648, YA 54928, -24

BARB 9, 10, 13, 29, 109, 105

YA 54930, -32, -34, -36, -38

BARB 111, 113, 115, 117, 119

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least 2,353.18

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3016

(Here list claims to be renewed by number and name in numerical order)

GRANT NOS.

CLAIMS

BARB 81-11

YA 54928, -30

BARB 109, 111

PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/85)

YA 54932, -34, -36, -38

BARB 113, 115, 117, 119

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/85) AND SHOW \$303.18 AS AN EXCESS CREDIT ON BARB 13

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINED LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE \$ 2,353.18
BEING APPLIED = 2,050.00

REMAINING EXCESS CREDITS BARB 13 \$303.18

Sworn before me at VANCOUVER, B.C.
this 19 day of SEPTEMBER 1981

C. J. Doe

S. S. Selke
Applicant.

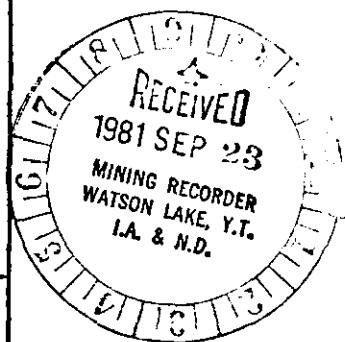
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2	

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

GRANT NOS. CLAIMS

YA 20236, -38, YA 36650, -51, YA 54493, YA 54983 **BARB 13, 15, 31, 32, 52, 164**

YA 54985, -87, -89, -91, -93, -94 **BARB 166, 168, 170, 172, 174, 175**

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least 2,644.20

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3017

(Here list claims to be renewed by number and name in numerical order)

GRANT NOS. CLAIMS

YA 54983, -85, -94 **BARB 164, 166, 175**

PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/85)

YA 54987, -89, -91, -93 **BARB 168, 170, 172, 174**

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/86) AND SHOW REMAINING \$319.20 AS AN EXCESS CREDIT ON BARB 32

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

**GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.**

**CREDITS AVAILABLE \$ 2,644.20
BEING APPLIED - 2,325.00**

REMAINING EXCESS CREDIT BARB 32 \$ 319.20

Sworn before me at VANCOUVER, B.C.
this 18 day of SEPTEMBER 1981

C. Hae

S. S. Selke

Applicant.

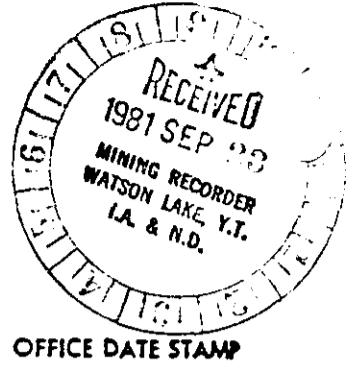
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

GRANT NOS.

CLAIMS

YA 36651, YA 46975, -77, -80, -82, YA 54494, -95
YA 54977, -79, 81, -82, -84, -86
YA 54988, -90, 92

BARB 32, 33, 35, 38, 40, 53, 54
BARB 158, 160, 162, 163, 165, 167
BARB 169, 171, 173

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least 3511.50

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3018

(Here list claims to be renewed by number and name in numerical order)

GRANT NOS.

CLAIMS

BARB 81-13

YA 54982, -84

BARB 163, 165

PLEASE APPLY 2.75 YEARS FOREACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 85)

YA 54977, -79, -81, -86, -88, -90, -92

BARB 158, 160, 162, 167, 169, 171, 173

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1986) AND SHOW REMAINING \$ 336.50 AS AN EXCESS CREDIT ON BARB 158

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE
BEING APPLIED

\$ 3,511.50
- 3,175.00

REMAINING (EXCESS CREDIT BARB 158)

\$ 336.50

Sworn before me at VANCOUVER, B.C.
this 12 day of SEPTEMBER 1981

C. A. Doe

S. S. Selke

Applicant.

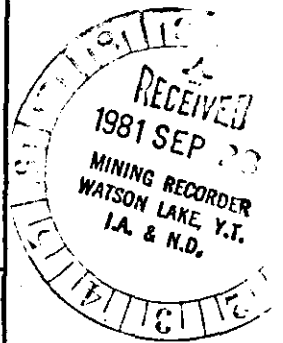
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 46979, -81, YA 50324, YA 54496, -97	BARB 37, 39, 44, 55, 56
YA 54967, -69, -71-76	BARB 148, 150, 152-159
YA 54980	BARB 161

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6
 in the WATSON LAKE Mining District, to the value of at least 3,528.80
 dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3019

(Here list claims to be renewed by number and name in numerical order)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54971, -72, -73	BARB 152, 153, 154
YA 54967, -69, -74-76, -78, -80	BARB 148, 150, 155-157, 159, 161

PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19, 1985)

PLEASE APPLY 3.75 YEARS TO EACH OF ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/86) AND SHOW \$78.80 AS AN EXCESS CREDIT ON BARB 148

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
 WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
 GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE	\$ 3,528.80
BEING APPLIED	- 3,450.00
REMAINING (EXCESS CREDIT BARB 148)	\$ 78.80

Sworn before me at VANCOUVER, B.C.
 this 18 day of SEPTEMBER 1981

Co. Hoe

S. S. Selke

Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA

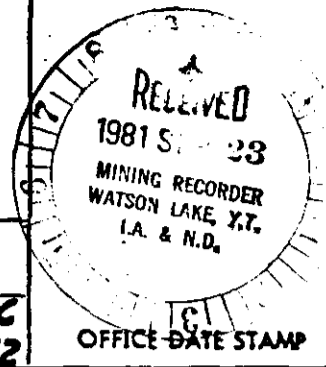


Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



1 (Name) S. S. SELKE	Occupation SENIOR TECHNICIAN
(Postal Address) 700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2	

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 50326, YA 54498, -99, -501	BARB 46, 57, 58, 60
YA 54961, -63 -68, -70	BARB 142, 144-149, 151

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6

in the WATSON LAKE Mining District, to the value of at least _____

dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3020

(Here list claims to be renewed by number and name in numerical order)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54961, -63, -70	BARB 81-15
	BARB 142, 144, 151

PLEASE APPLY 2.75 YEARS TO ABOVE CLAIMS (NEW COMMON DUE DATE FEB 19/85)

YA 54964 - 66, -68 BARB 145-147, 149

PLEASE APPLY 3.75 YEARS TO ABOVE CLAIMS (NEW COMMON DUE DATE FEB. 19/86)

AND SHOW \$ 94.82 AS AN EXCESS CREDIT ON BARB 142

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE	\$ 2,419.82
BEING APPLIED	- 2,325.00
REMAINING (EXCESS CREDIT BARB 142)	\$ 94.82

Sworn before me at VANCOUVER, B.C.

this 10 day of SEPTEMBER 1981

Ca Hoe

S. S. Selke

Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA

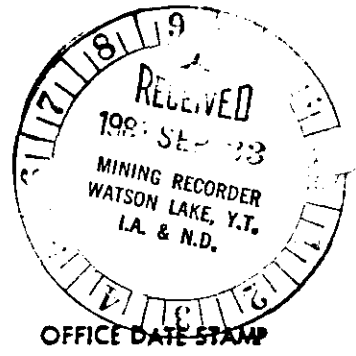


Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	S. S. SELKE	Occupation	SENIOR TECHNICIAN
(Postal Address)	700-409 GRANVILLE ST., VANCOUVER, B.C. V6C 1T2		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

COMINGO LTD. HAS

2. ~~caused to be done~~ caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 50325, YA 54300	BARB 45, 59
YA 54954-62	BARB 135-143

situated at FRANCES LAKE AREA Claim Sheet No. 105 H-6
 In the WATSON LAKE Mining District, to the value of at least 2223.02
 dollars, since the 25 day of JUNE 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. 3021
 (Here list claims to be renewed by number and name in numerical order)

<u>GRANT NOS.</u>	<u>CLAIMS</u>
YA 54954-60	BARB 135-141
YA 54362	BARB 143

PLEASE APPLY 2.75 YEARS TO EACH OF ABOVE CLAIMS
(NEW COMMON DUE DATE FEB. 19/85)

3. The following is a detailed statement of such works (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

GEOLOGICAL GEOCHEMICAL SURVEYS JUNE 25 - JULY 11, 1981
WORK PERFORMED BY: M. SERACK, B. CRICH - STUDENTS, T.W. HODSON,
GEOLOGIST - COMINGO LTD. 700-409 GRANVILLE ST., VANCOUVER, B.C.

CREDITS AVAILABLE	\$ 2,223.02
BEING APPLIED	- 2,200.00
UNUSED PORTION	<u>23.02</u>

Sworn before me at VANCOUVER, B.C.
 this 18 day of SEPTEMBER 1981

Ca. Hloz

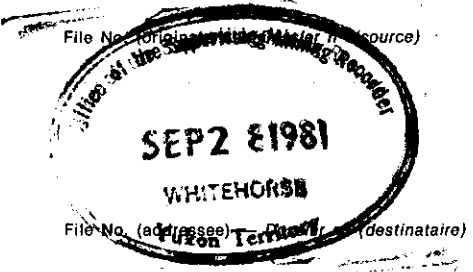
S. S. Selke
 Applicant.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



FROM DE Patti L. McLeod
Mining Recorder
Watson Lake Mining District

TO A Regional Geologist
Whitehorse



Subject - Objet Geological, Geochemical Report - Cominco Ltd.

This above noted report was sent for approval on 15 September, 1981, for renewal of BARB 104-175, and \$7200.00 approval was requested. Additional assessment work has now been filed (Form 'C' attached) on the BARB claims and as additional \$27,825.00 is required.

7200
3502500

Total value needed to renew BARB claims is \$35,025.00.

Signature

Date 24 Sept 81

Reply - Réponse

7540-21-029-0717

CCSB STANDAR. JRM 59

Signature

Date

ADRESSEE
DESTINATAIRE

Please add reply — Keep this copy and return No. 2 to originator.
Ajouter la réponse — Garder cet exempl. et renvoyer le n° 2 à la source.

FORMULE NORMALISÉ 9 DE L'ONGC



BY COURIER

Exploration

Ms. P.L. McLeod
Mining Recorder
P.O. Box 269
Watson Lake, Yukon

11 September, 1981

Dear Ms. McLeod:

On June 29, 1981 we filed with your office under General Receipt D63524 applications for a certificate of work for mineral claims Barb 104-175. Prior to filing this work we received from you an extension of time until September 15, 1981 for the submission of the technical report which we now enclose (in duplicate) for your approval.

As I stated to you in our telephone conversation of today, at the above date we requested 1 year of assessment credits for Barb 104-175 = \$7,200.00 only. The cost statement in the attached report is shown in two time periods June 15 - June 24, 1981 = \$11,790.59 and June 25 - July 11, 1981 = \$23,623.98. The unused portions \$11,790.59 - \$7,200.00 = \$4,590.59 of credits, June 15 - June 24, 1981, as well as, \$23,623.98, June 25 - July 11, 1981, will be applied to claims of this property very shortly in such a manner that they will conform with the requirements of recording work during the year in which it was performed.

We like to thank the Department once again for the permission of late filing of the attached geological, geochemical report.

Yours very truly,

S.S. Selke
Senior Technician
Western District

090861

Enclosures

SSS/vmk

TABLE OF CONTENTS

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II. INTRODUCTION	1
A. Location	1
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C. Ownership	2
III. EXPLORATION	2
IV. GEOLOGY	2
V. GEOCHEMISTRY	3
A. Analytical Procedure	3
B. Results	3
VI. CONCLUSIONS	4

* * *

ATTACHMENTS

Plate 1	- Location Map	Scale - 1:3,000,000
Plate 2	- Claim Map	1: 31,620
Plate 3a, b	- Geology	1: 5,000
Plate 4a, b	- Geochemistry - Cu	1: 5,000
Plate 5a, b	- Geochemistry - Pb	1: 5,000
Plate 6a, b	- Geochemistry - Zn	1: 5,000
Plate 7a, b	- Geochemistry - Ag	1: 5,000
Appendix A-1, 2	- Statement of Expenditures	
Appendix B	- Affidavit	
Appendix C	- Statement of Qualifications	

COMINCO LTD.

EXPLORATION
NTS: 105 H/6

WESTERN DISTRICT
9 September, 1981

ASSESSMENT REPORT

BARB PROPERTY

WATSON LAKE M.D., YUKON

I. SUMMARY

A geological and geochemical program was carried out on the Barb property located on the East Arm of Frances Lake, Y.T. The property is underlain by Devonian to Mississippian metamorphosed mudstones, siltstones, and volcanics with a Cretaceous intrusive mass located on its eastern boundary. A total of 1,179 soils, 16 silts and 34 rock samples were collected and analysed for copper, lead, zinc and silver. Results indicated several coincident lead and zinc anomalies associated with a quartz-augen schist with most copper anomalies upslope from this same unit.

Further work in the form of geophysical surveys is recommended to determine the significance of these anomalies and their association to the quartz-augen schist.

II. INTRODUCTION

A. Location

The Barb property is situated within the Watson Lake Mining District, 160 km north of Watson Lake, Yukon Territory (Plate 1). Located on the East Arm of Frances Lake, access is by float plane or helicopter only, with Watson Lake being the closest air base.

Latitude: 61°27'
Longitude: 129°21'
NTS: 105H/6

Elevation ranges from 776 m at lake level to 1,900 m near the summit of Mount Hunt, which is located on the eastern side of the property. Topographically the area consists of a series of moderately sloping hills leading up to the Mount Hunt area. These moderately sloping areas are separated by flat swampy benches. Below treeline at 1,700 m, the area is heavily forested with spruce and pine or in swampy areas poplar and willows.

B. History and Previous Exploration

The Barb claims cover the old Matt Berry lead-zinc prospect which has been known since the 1930's. Since that time, all geological, geochemical, geophysical and physical work done has been mainly concentrated in the

area of the Matt Berry showing. This year's program concentrated its efforts to the southeast of the above showing.

C. Ownership

The Barb property consist of 167 claims, 140 of which are subject to an option agreement between Sovereign Metals Corp, and Cominco Ltd., with the remaining 27 owned 100% by Cominco Ltd. (Plate 2).

<u>Claim</u>	<u>Recorded</u>	<u>Due Date</u>
Barb 9, 11-15		February 19, 1992
Barb 10		February 19, 1993
Barb 17-32		February 19, 1989
Barb 33-40	February 19, 1980	February 19, 1986
Barb 41-46	March 12, 1980	February 19, 1986
Barb 48-96	April 17, 1980	February 19, 1986
Barb F501, F502	April 9, 1980	February 19, 1986
Barb 97-103	May 26, 1980	May 26, 1982
Barb 104-175	June 24, 1980	June 24, 1981 (Additional work applied June 29, 1981).

III. EXPLORATION

This year's program consisted of geological mapping at 1:5,000 scale and soil and rock geochemistry and was conducted during the period June 15 to July 11, 1981. The program was carried out by T.W. Hodson, B.Sc. 1980, assisted by M. Serack, B. Crich and J. Sewell.

IV. GEOLOGY

The Frances Lake area is underlain by Devonian to Mississippian age sediments and minor volcanics. Intruding these are Cretaceous batholiths and stocks of granodiorite to quartz monzonite composition.

Within the boundaries of the Barb property one finds phyllites, hornfelsed phyllites, schists and intrusives. The phyllites and schists are north-west striking and dip approximately 30° easterly. Intrusive rocks are found on the eastern edge of the property with the hornfelsed phyllites separating the intrusive unit from the phyllites (Plate 3a, b).

The phyllites, which were originally clastic sediments (mudstones and siltstones), are dark grey to black, fine grained and are strongly foliated. Within this unit silty laminations, normally less than 4 mm thick are found and are believed to indicate original bedding which in general is somewhat paralleled by foliation. Also found within the phyllites are quartz veins both paralleling and cross-cutting foliation. These veins are up to 75 cm thick and pinch and swell irregularly with boudins commonly developed. These veins are occasionally seen to be isoclinally folded which would seem to indicate the presence of structural complications within the phyllites that have been overprinted by foliation. These phyllites where in contact with the intrusive units to the east have been contact metamorphosed into a biotite hornfels. This unit is hard, grey, black or purple in colour with 5 to 20% mottled biotite crystal clusters to 4 mm throughout. Minor

disseminated pyrite (<1%) is a common component of this unit and along with pyrrhotite is also found within the phyllites.

Two schists of volcanic origin are found on the property, one a quartz-sericite schist which is only seen in one location along the lakeshore while the other, a quartz-augen schist, forms a prominent unit within the phyllite. The quartz-sericite schist is white, weathers buff white to rust, and consists of quartz layers separated by minor sericite layers. Quartz content is 85 to 95% with sericite 5 to 15%. Minor pyrite and arsenopyrite are found within the quartz layers. The other unit, the quartz-augen schist is light grey to light green, weathers grey, is strongly foliated and contains 20 to 40% quartz eyes to 8 mm. These quartz eyes parallel foliation and stand out on the weather surface. The matrix consists of chlorite, sericite, and quartz. Minor pyrite, pyrrhotite, arsenopyrite and traces of galena and sphalerite have been found within this unit.

Intrusive rocks found on the eastern edge of the property were all quartz monzonite in composition although previous mapping indicates the presence of granodiorite in this area. This quartz monzonite is porphyritic, grey, medium grained and compositionally consists of 30% quartz, 8% biotite, with the rest being feldspar (k-spar > plagioclase). Quartz phenocrysts to 1 cm and k-spar phenocrysts to 2 cm are well exposed on the weathered surface. This unit is unaltered and unmineralized.

V. GEOCHEMISTRY

A. Analytical Procedure

All samples were shipped to Cominco Exploration Research Laboratory in Vancouver, B.C. for analyses and totalled 1,179 soil samples, 16 stream silt samples, and 34 rock samples. Soil and silt samples were dried, sieved to -80 mesh and then weighed into 200 mg portions while rock samples were crushed, sieved to -100 mesh, and weighed into 500 mg portion. All samples were then analysed for copper, lead, zinc and silver. This was done through nitric acid digestion followed by atomic absorption.

B. Results

Histograms were prepared for copper, lead, and zinc with the resulting anomalous thresholds given in Table I. For silver, any result from 0.7 ppm was considered significant.

TABLE I

Anomalous Thresholds for Copper, Lead and Zinc

	Weakly Anomalous (ppm)	Anomalous (ppm)
Copper	70	90
Lead	23	30
Zinc	110	125

For copper (Plate 4a, b) there is one major anomaly about 400 m by 600 m in size approximately centered around the grid station 88 W + 14.5 N. This strong anomaly is underlain by metamorphosed mudstones and siltstones (phyllites) which are weakly quartz veined. Only pyrrhotite and pyrite were seen within the outcrops covered by the anomaly, but these outcrops only represented <2% of the total area covered by the anomaly. Other scattered copper anomalies could be caused by the occasional trace of chalcopyrite seen within quartz veins which cut the various units within the map area. Generally, the copper anomalies are located within the phyllitic mudstones and siltstones and are mainly found upslope of the quartz-augen schist.

The majority of the lead (Plate 5a, b) and zinc (Plate 6a, b) anomalies are either centered over or are directly downslope from the quartz-augen schist. One rock sample from this unit returned 894, 195, 4.1 ppm for lead, zinc and silver which for lead and zinc were the highest values received for rock samples. Traces of sphalerite and galena found within this unit may be responsible for some of these anomalies. One other notable anomaly was a coincident linear lead-zinc anomaly located at about the 13N level on lines 72W to 77W. No outcrop was mapped within this area, but it is believed to be underlain by phyllitic mudstones and siltstones.


Silver anomalies are very few in number and are mainly found within the major copper anomaly (Plate 7a, b).

VI. CONCLUSIONS

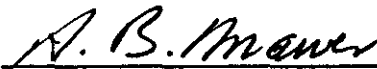
Mapping and geochemistry has revealed that the most promising areas on the property are either covered by the quartz-augen schist or lie directly upslope from this unit. This is evident by the fact that most lead and zinc anomalies overly this unit while most copper anomalies are directly upslope from this same unit.

Further work in the form of geophysical surveys would help to prove if these geochemical anomalies represent potential drill targets.

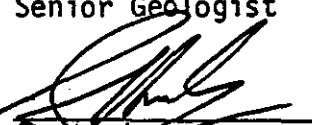
Reported by:


T.W. Hodson, Geologist

Endorsed by:


A.B. Mawer
Senior Geologist

Approved for
Release by:


G. Harder, Manager
Exploration,
Western District

Distribution:

Mining Recorder (2)
Western District (1)
TWH (1)

APPENDIX A-1

STATEMENT OF EXPENDITURES

BARB CLAIMS

June 15 to June 24, 1981

Salaries	\$ 4,029.62
Equipment	913.98
Linecutting	4,590.00
Transportation - fixed wing	824.00
Domicile	922.95
Expediting	510.04
Total	<u>\$11,790.59</u>



T.W. Hodson
Geologist

TWH/vmk

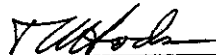
APPENDIX A-2

STATEMENT OF EXPENDITURES

BARB CLAIMS

June 25 to July 11, 1981

Salaries	\$ 9,357.29
Equipment	2,998.60
Geochemistry	4,473.40
Transportation - fixed wing	2,156.00
- truck	1,070.15
- freight	265.72
Domicile	2,028.79
Expediting	1,250.93
Communications	23.10
Total	<u><u>\$23,623.98</u></u>



T.W. Hodson
Geologist


TWH/vmk

APPENDIX B

A F F I D A V I T

I, Terence W. Hodson of the Municipality of Surrey in the Province of British Columbia make oath and say:

1. That I am employed as a Geologist by Cominco Ltd. and as such have a personal knowledge of the facts to which I hereinafter depose;
2. That annexed hereto and marked as Appendix A-1, 2 to this my affidavit is a true copy of expenditures incurred in connection with a geological and geochemical program carried out on the Barb mineral claims;
3. That said expenditures were incurred between the 15th day of June and the 11th day of July, 1981 for the purpose of mineral exploration on the above noted claims.



T.W. Hodson
Geologist

Dated this 10th day of September, 1981
at Vancouver, British Columbia.

APPENDIX C

STATEMENT OF QUALIFICATIONS

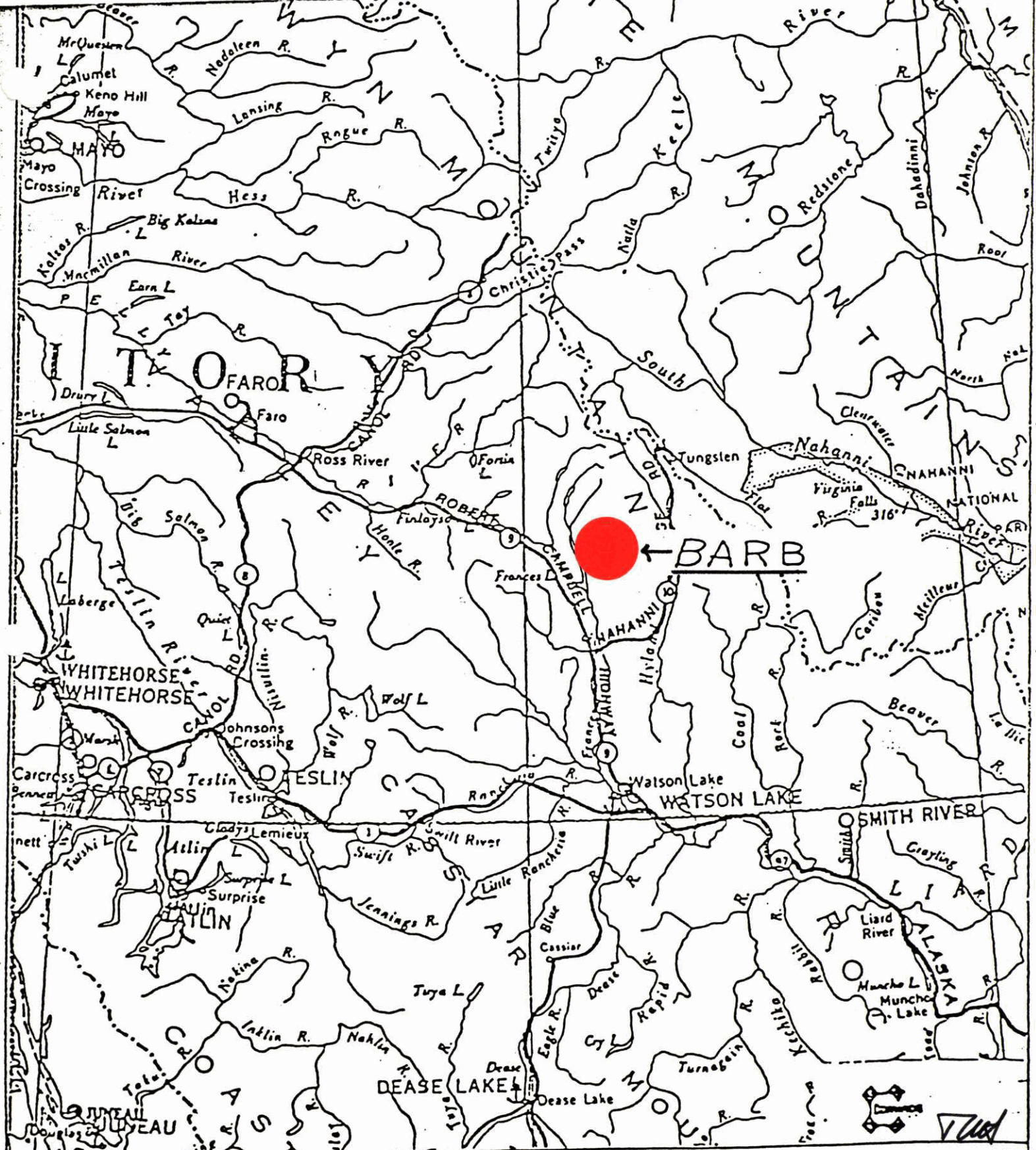
I, Terence W. Hodson of the Municipality of Surrey in the Province of British Columbia, hereby certify:

1. That I am a Geologist residing at 1773 Southmere Crescent, Surrey, British Columbia with a business address at 700 - 409 Granville Street, Vancouver, British Columbia.
2. That I graduated with a B.Sc., in geology from the University of British Columbia in 1980,
3. That I have practiced geology with Cominco Ltd. from May, 1980 to the present.



T.W. Hodson
Geologist

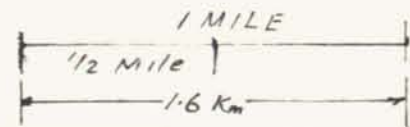
Dated this 10th day of September, 1981
at Vancouver, British Columbia.



Drawn by:		Traced by:	
Drawn by	Date	Traced by	Date
ARM	Nov/80		

BARB PROPERTY
Location Map

Scale: 1:500000 Approx. Date: Nov/80 Plate: 81-1

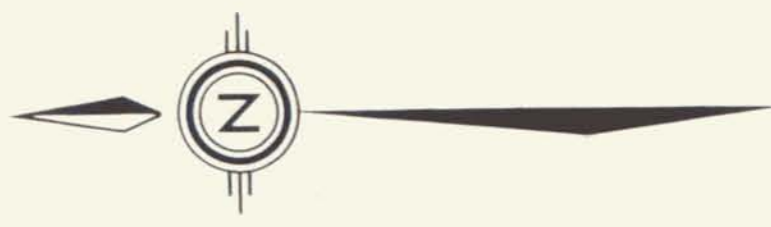
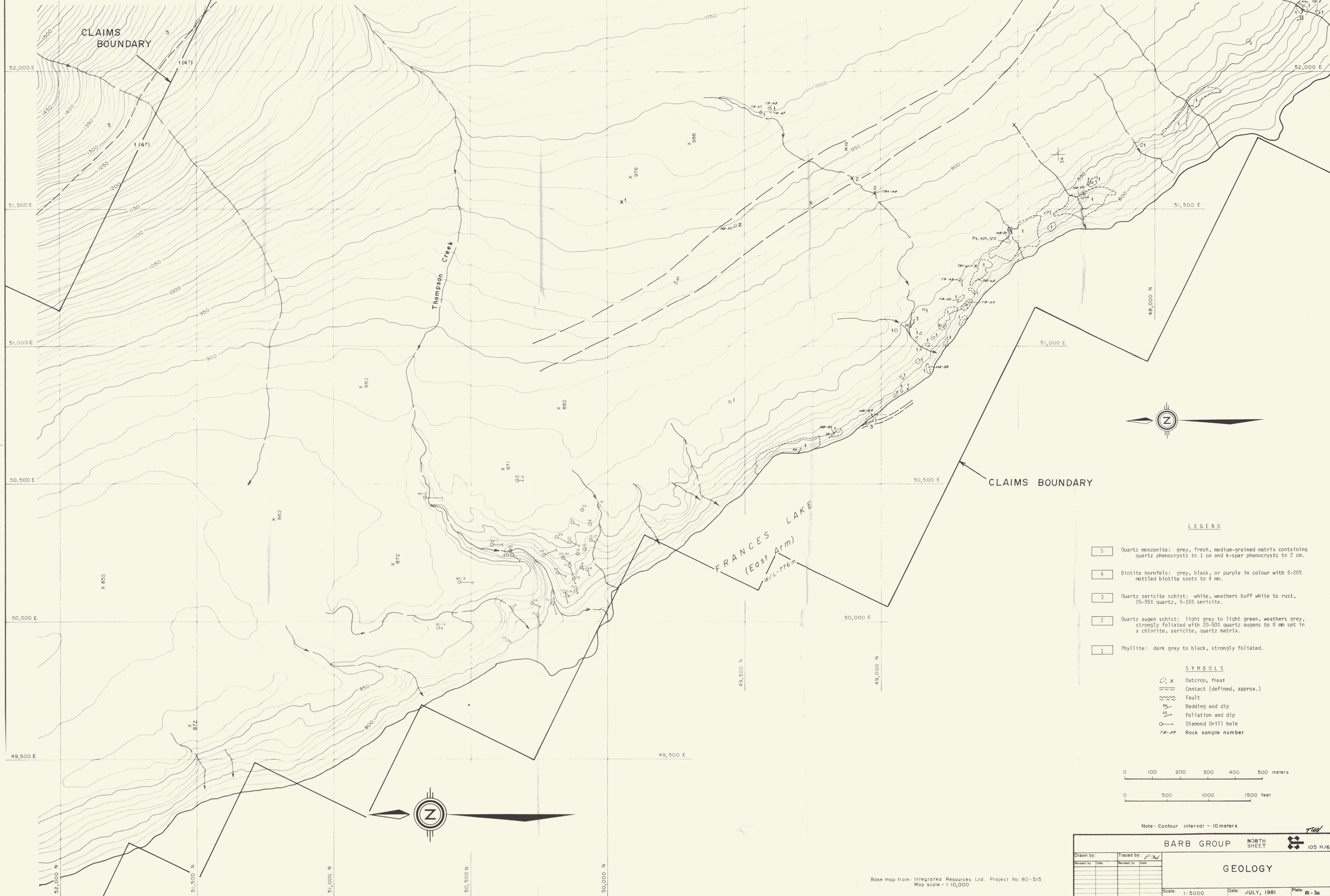


BARB PROPERTY



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date
<i>MW</i>	Sept./81		

CLAIM MAP

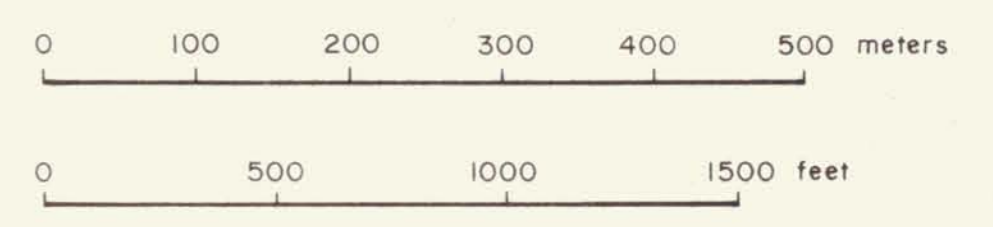


LEGEND

- 5 Quartz monzonite: grey, fresh, medium-grained matrix containing quartz phenocrysts to 1 cm and k-spar phenocrysts to 2 cm.
- 4 Biotite hornfels: grey, black, or purple in colour with 5-20% mottled biotite spots to 4 mm.
- 3 Quartz sericite schist: white, weathers buff white to rust, 85-95% quartz, 5-15% sericite.
- 2 Quartz augen schist: light grey to light green, weathers grey, strongly foliated with 20-50% quartz augens to 8 mm set in a chlorite, sericite, quartz matrix.
- 1 Phyllite: dark grey to black, strongly foliated.

SYMBOLS

- C, X Outcrop, float
- Contact (defined, approx.)
- ~ Fault
- 50° Bedding and dip
- 22° Foliation and dip
- Diamond Drill hole
- T8-59 Rock sample number

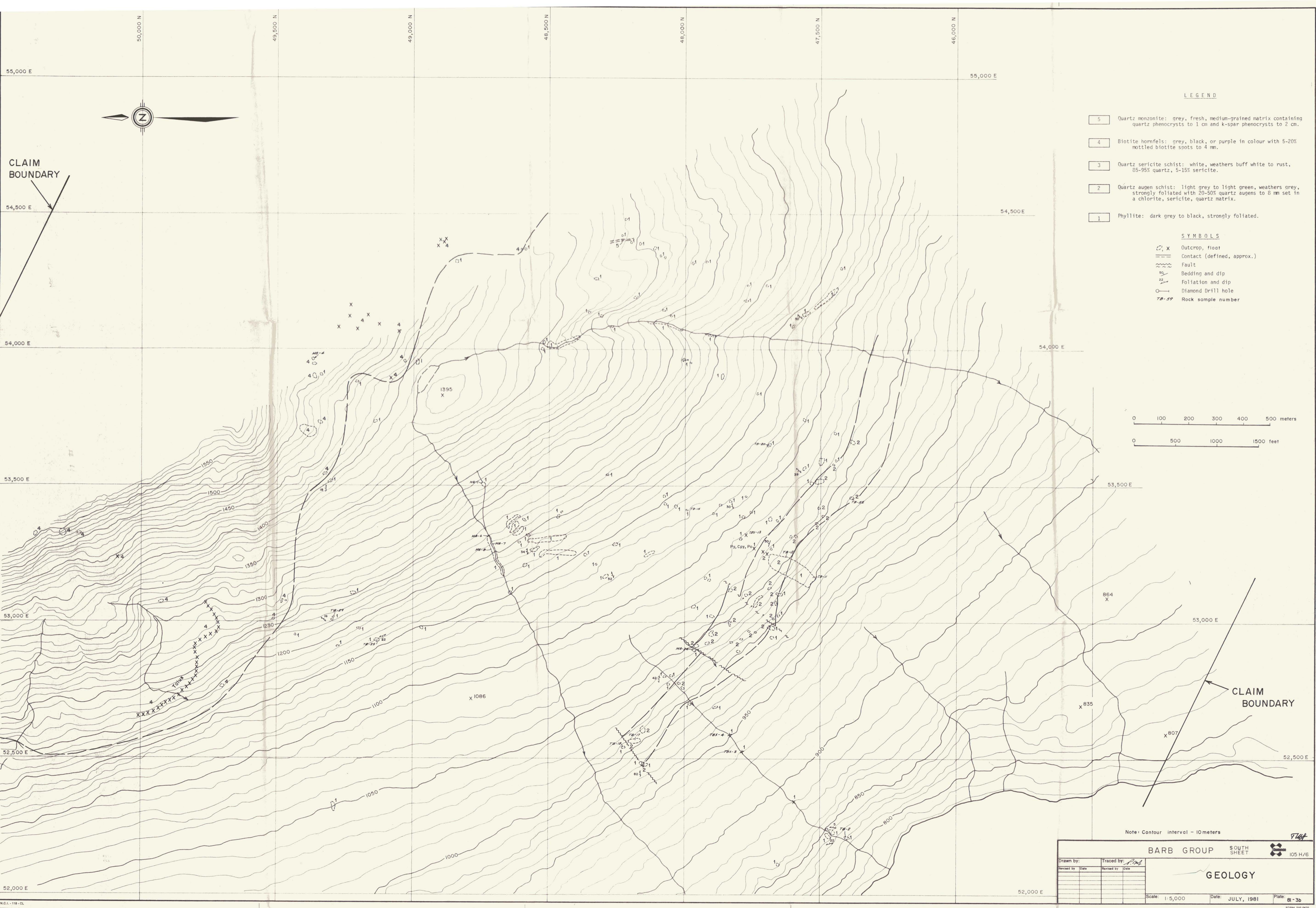


Note: Contour interval - 10 meters

Drawn by:		Traced by: <i>PAJ</i>	
Revised by:	Date:	Revised by:	Date:

Scale: 1:5000 Date: JULY, 1981 Plate: B1-3a

Base map from: Integrated Resources Ltd. Project No 80-515
Map scale - 1:10,000

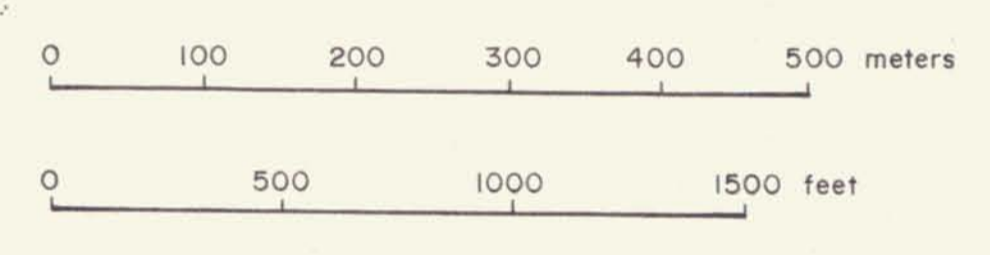


LEGEND

- 5 Quartz monzonite: grey, fresh, medium-grained matrix containing quartz phenocrysts to 1 cm and k-spar phenocrysts to 2 cm.
- 4 Biotite hornfels: grey, black, or purple in colour with 5-20% mottled biotite spots to 4 mm.
- 3 Quartz sericite schist: white, weathers buff white to rust, 85-95% quartz, 5-15% sericite.
- 2 Quartz augen schist: light grey to light green, weathers grey, strongly foliated with 20-50% quartz augens to 8 mm set in a chlorite, sericite, quartz matrix.
- 1 Phyllite: dark grey to black, strongly foliated.

SYMBOLS

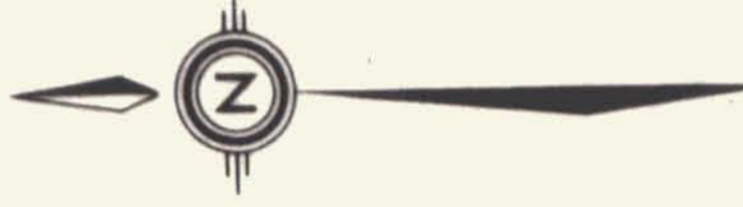
- , X Outcrop, floor
- Contact (defined, approx.)
- Fault
- ~ Bedding and dip
- ~ Foliation and dip
- Diamond Drill hole
- 78-59 Rock sample number



Note: Contour interval - 10 meters

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Revised by:	Date:	Revised by:	Date:

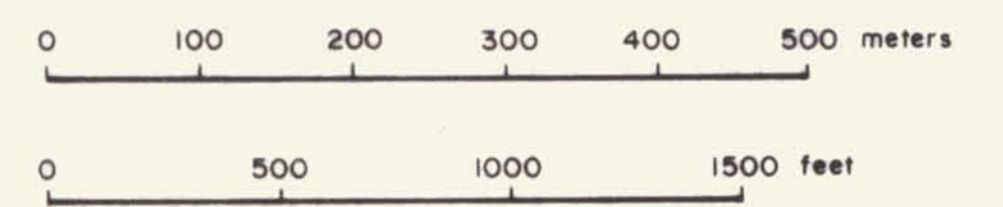
BARB GROUP SOUTH SHEET
GEOLOGY
 Scale: 1:5,000 Date: JULY, 1981 Plate: 81-3b



LEGEND

- ⊥ Soil sample location
- Silt sample location
- X Rock geochem. sample location

CONTOUR INTERVALS - Cu (ppm)
 Anomalous Possibly anomalous
 90+ 70 - 89



Note: Contour interval - 10 meters

Drawn by: T.H.		Traced by: <i>PA</i>	
Revised by:	Date:	Revised by:	Date:
Scale: 1:5000		Date: JULY, 1981	Plate: 81 - 4a

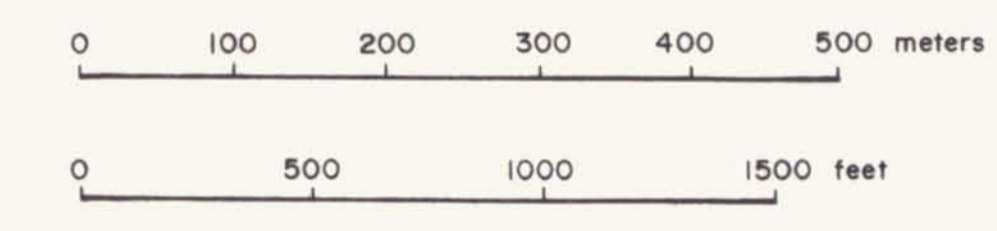
BARB GROUP NORTH SHEET 105 H/6
GEOCHEMISTRY
 Cu (ppm)

Base map from Integrated Resources Ltd. Project No 80-515
 Map scale - 1:10,000



LEGEND

- ⊥ Soil sample location
 - Silt sample location
 - X Rock geochem. sample location
- CONTOUR INTERVALS - Cu (ppm)
- | | |
|-----------|--------------------|
| Anomalous | Possibly anomalous |
| 90 + | 70 - 89 |



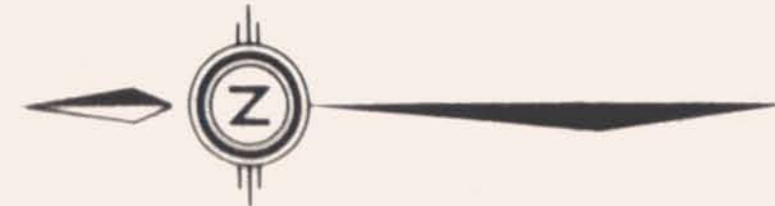
Note: Contour interval - 10 meters

BARB GROUP SOUTH SHEET

GEOCHEMISTRY
Cu (ppm)

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Revised by: []	Revised by: []

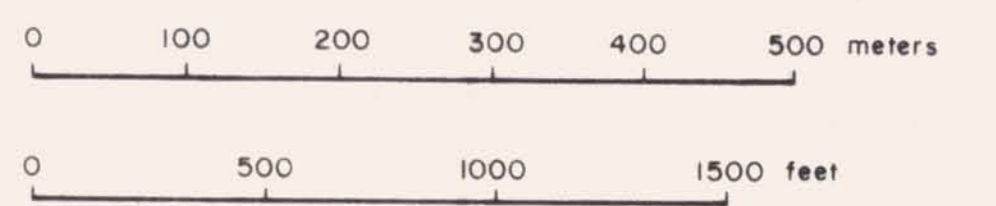
Scale: 1:5,000 Date: JULY, 1981 Plate: 81-4b



LEGEND

- Soil sample location
- Silt sample location
- Rock geochem sample location

CONTOUR INTERVALS - Pb (ppm)
Anomalous Possibly anomalous
 30+ 23 - 29



Note: Contour interval - 10 meters

BARB GROUP		NORTH SHEET	105 H/6
Drawn by: T.H.	Traced by: <i>P.M.</i>		
Revised by: []	Revised by: []		
GEOCHEMISTRY			
Pb (ppm)			
Scale: 1:5000	Date: JULY, 1981	Plate: GI-5a	

Base map from Integrated Resources Ltd. Project No 80-515
 Map scale - 1:10,000

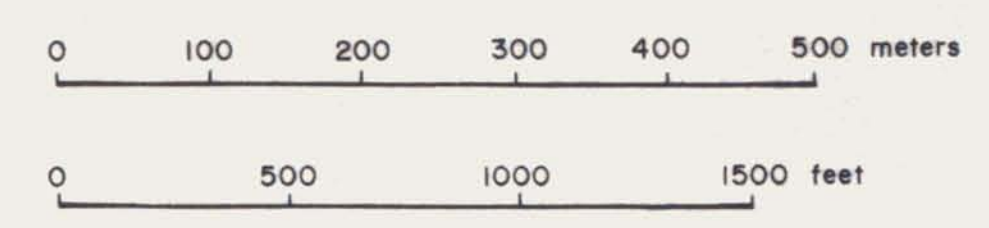


LEGEND

- ⊥ Soil sample location
- Silt sample location
- X Rock geochem. sample location

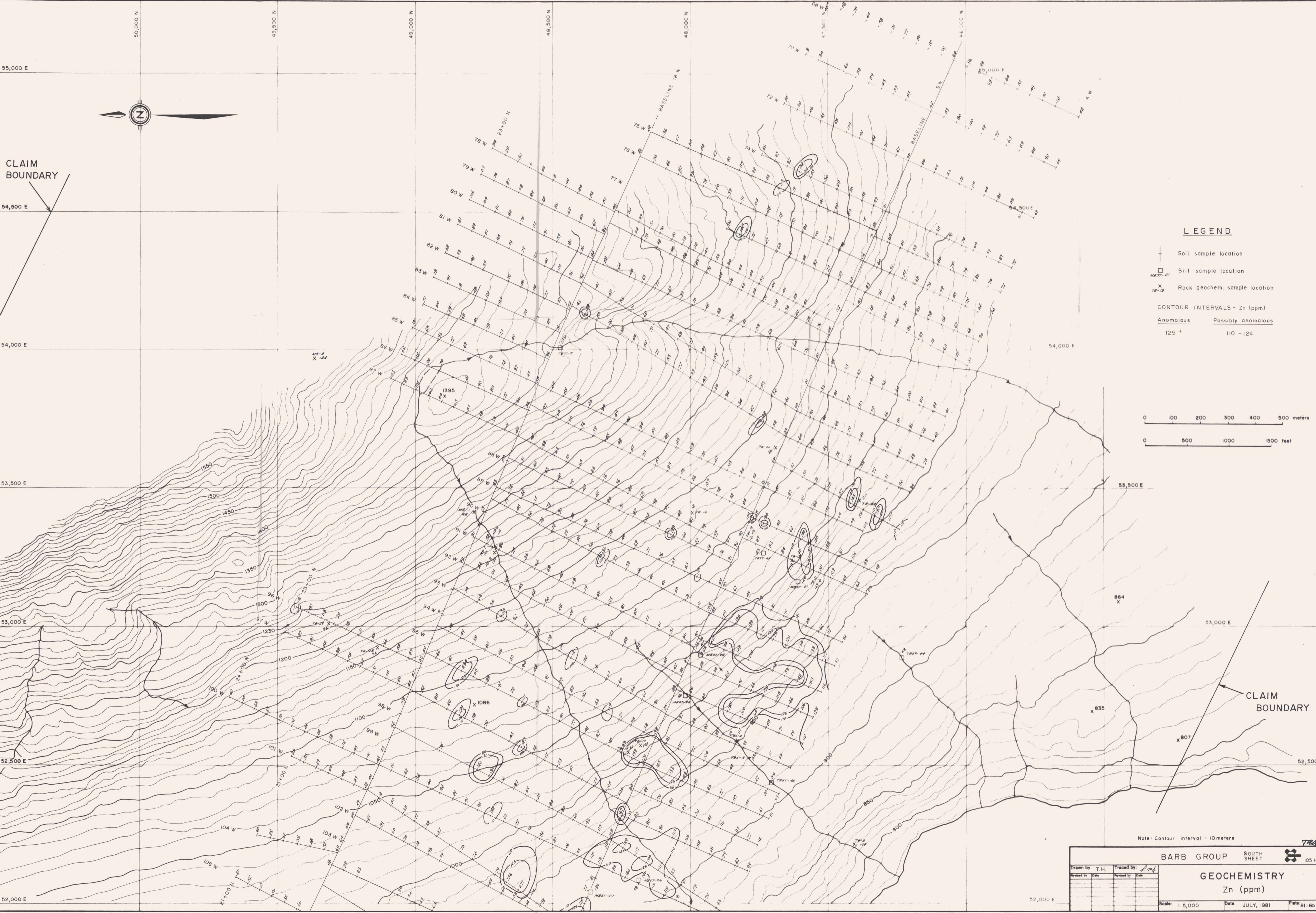
CONTOUR INTERVALS - Pb (ppm)

Anomalous	Possibly anomalous
30 +	23 - 29



Note: Contour interval - 10 meters

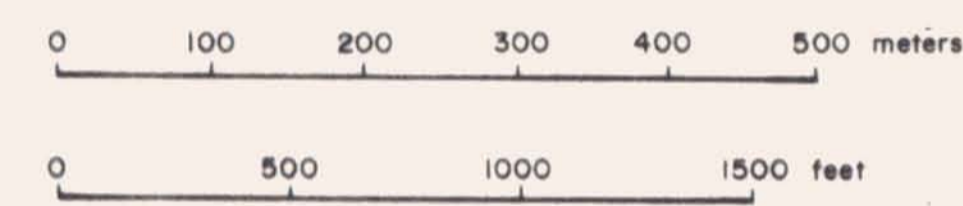
Drawn by: T.H. Traced by: A.J.W. Revised by: _____ Date: _____ Revised by: _____ Date: _____ Revised by: _____ Date: _____		BARB GROUP SOUTH SHEET GEOCHEMISTRY Pb (ppm) Scale: 1:5,000 Date: JULY, 1991 Plate: 81-5b
105 H/6		



CLAIM
BOUNDARY

LEGEND

- ⊥ Soil sample location
 - Silt sample location
 - x Rock geochem. sample location
- CONTOUR INTERVALS - Zn (ppm)
- | | |
|-----------|--------------------|
| Anomalous | Possibly anomalous |
| 125 + | 110 - 124 |



CLAIM
BOUNDARY

Note: Contour interval - 10 meters

Drawn by: T.H.		Traced by: <i>[Signature]</i>	
Revised by:	Date:	Revised by:	Date:
BARB GROUP SOUTH SHEET			
GEOCHEMISTRY			
Zn (ppm)			
Scale: 1:5,000	Date: JULY, 1981	Plate: 81-6b	FORM 210 REV 7



CLAIMS
BOUNDARY

CLAIMS BOUNDARY

FRANCES LAKE
(East Arm)
W/L 776 m

Thompson Creek

BASELINE 18 N

BASELINE 9 N



LEGEND

-  Soil sample location
-  Silt sample location
7857-60
-  Rock geochem. sample location
78-62

0 100 200 300 400 500 meters

0 500 1000 1500 feet

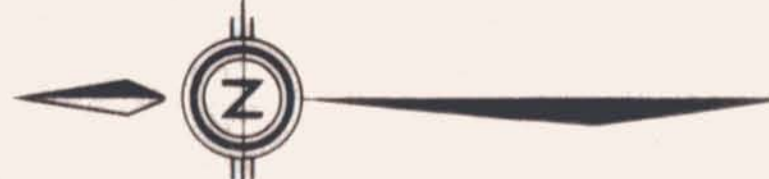
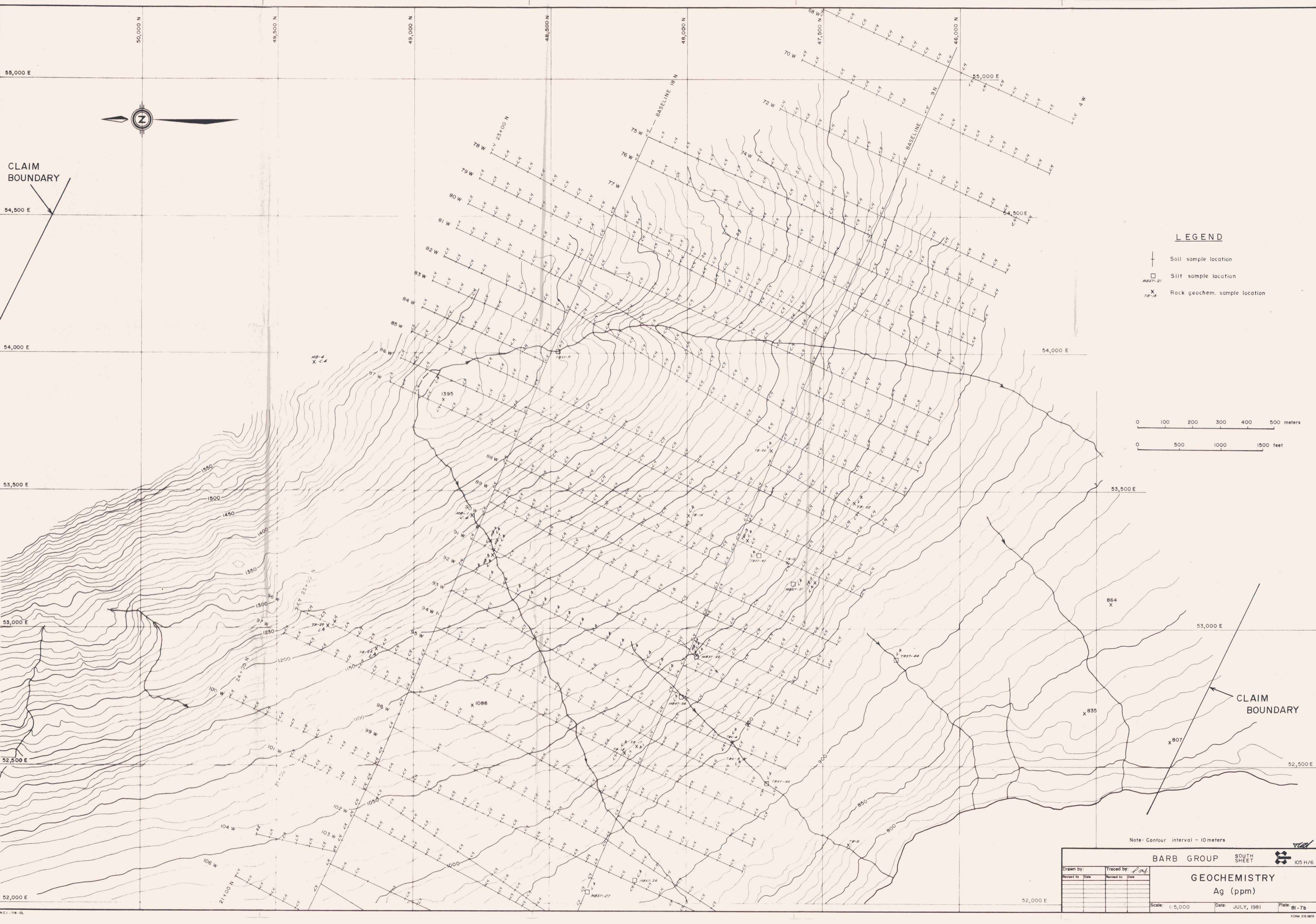
Note: Contour interval - 10 meters

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REVISION	DATE	REVISION	DATE
Scale: 1:5000		Date: JULY, 1981	Plate: B1-7a

Base map from Integrated Resources Ltd. Project No 80-515
Map scale - 1:10,000

BARB GROUP NORTH SHEET 105 H/6

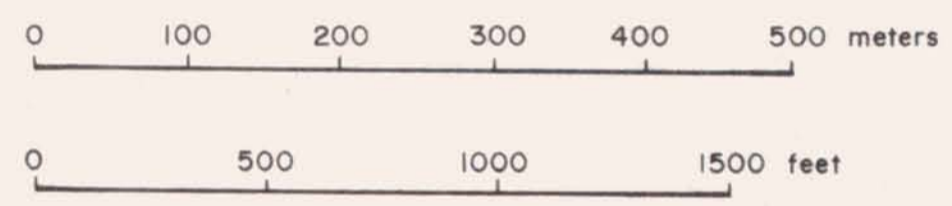
GEOCHEMISTRY
Ag (ppm)



CLAIM BOUNDARY

LEGEND

- ⊕ Soil sample location
- Silt sample location
- ✕ Rock geochem. sample location



Note: Contour interval - 10 meters

BARB GROUP

SOUTH SHEET 105 H/6

Drawn by:	Traced by:
	<i>[Signature]</i>
Revised by:	Revised by:

GEOCHEMISTRY
Ag (ppm)

Scale: 1:5,000 Date: JULY, 1981 Plate: 81-7b