

COMINCO LTD.

EXPLORATION  
NTS: 115/0/14



GEOCHEMICAL REPORT ON THE  
BRONSON CLAIMS 1-10 SITUATED AT  
139°29'W LONGITUDE; 63°58' N. LATITUDE  
DAWSON M.D., YUKON TERRITORY  
WORK PERIOD: June 9 - July 2, 1980

090773

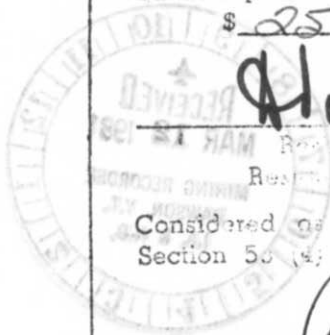
JANUARY 19, 1981

ERNEST G. OLFERT



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

\$ 2500.00



*[Signature]*

Registered Geologist or  
Registered Mining Engineer

Considered as representation work under  
Section 53 of the Yukon Quartz Mining Act.

*[Signature]*  
S. R. BAXTER  
Supervising Mining Recorder

*[Signature]*  
for Commissioner of Yukon Territory

875000

FROM: Mining Recorder at DAWSON

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



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name: \_\_\_\_\_ Lease No. \_\_\_\_\_

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: BRANSON 1-10 2500  
Baldy 1-22 3300  
Type of report: Geochemical  
Submitted by: Cominco Ltd.

Cls. work performed on: \_\_\_\_\_ \$ Req. for ren. application 5,800.00

Signature [Handwritten Signature]

REPLY ACTION

Date Ret.

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)	Ernest Olfert	Occupation	Geologist
(Postal Address)	7th Floor - 409 Granville Street Vancouver, B.C.		

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.

2. I have 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)  
Bronson # 1-10  
YA49997 - YA 50006

situated at Mt. Bronson Claim Sheet No. 115-0-14  
in the DAWSON Mining District, to the value of at least \$ 2658.70  
dollars, since the 9th day of June 19 80  
to represent the following mineral claims under the authority of Grouping Certificate No. Bronson 80-1  
(Here list claims to be renewed by number and name in numerical order)

BRONSON	#1	YA49997
"	2	" 98
"	3	" 99
"	4	YA 5000
"	5	" 01
"	6	" 02
"	7	" 03
"	8	" 04
"	9	" 05
"	10	" 06

Please apply 2½ years of work to each claim for the renewal period June 9/81 to Dec. 9/83

Please give a common anniversary date of Dec. 9 to all the mineral 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.)

June 9th - July 2nd, 1980. Grid -Soil-sampling \$2,658.70

Sworn before me at Vancouver, B.C.  
this 18th day of December 19 80

Anthony A. Zoschiff  
Notary Public in and for the Province of British Columbia

[Signature]  
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)	Ernest Olfert	Occupation	Geologist
(Postal Address)	7th Floor - 409 Granville Street, Vancouver, B.C.		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

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

Baldy 1-6  
YA49765 - YA49770

situated at The Yukon/Alaska Border Claim Sheet No. 116-C-2  
Dawson Mining District, to the value of at least \$2,297.52  
 in the \_\_\_\_\_ day of May 1980  
 dollars, since the 31st day of \_\_\_\_\_ 1980

to represent the following mineral claims under the authority of Grouping Certificate No. 80-1  
 (Here list claims to be renewed by number and name in numerical order)

Baldy 1 - 10 YA49765 - YA49774  
 Baldy 17 YA49781  
 Baldy 19 - 22 YA49783 - YA49786

Please apply 1½ years of assessment credits to each claim for the renewal period May 30/81 to Nov. 30th/82

Please give a common anniversary date of Nov. 30 to all the mineral claims.

- 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.)

May 31st to June 3rd, 1980 Grid-Soil Sampling \$2,297.52

*aoz*

Sworn before me at Vancouver B.C.  
 this 18th day of December 1980

Anthony A. Zoski  
 Notary Public in and for the Province of British Columbia

*Ernest Olfert*  
 Applicant.

*aoz*

*aoz*

SHOW DATES WORK COMMENCED AND ENDED ON CLAIMS HAVING DIFFERENT ANNIVERSARY DATES



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)	Ernest Olfert	Occupation	Geologist
(Postal Address)	7th Floor, 409 Granville Street, Vancouver, B.C.		

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.

2. I have 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)

Baldy 11	YA49775
Baldy 13	YA49777
Baldy 15	YA49779

SHOW DATES WORK COMMENCED AND ENDED ON CLAIMS HAVING DIFFERENT ANNIVERSARY DATES

situated at The Yukon/Alaska border Claim Sheet No. 116-C-2  
 in the Dawson Mining District, to the value of at least 1,148.76  
 dollars, since the 31st day of May 19 80

to represent the following mineral claims under the authority of Grouping Certificate No. 80-2  
 (Here list claims to be renewed by number and name in numerical order)

Baldy 11-16	YA49775 - YA 49780
Baldy 18	YA49782

Please apply 1½ yrs of assessment credits to each claim for the renewal period May 30/81 to Nov. 30/82.

Please give a common anniversary date of Nov. 30 to all the mineral 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.)

May 31st - June 3rd, 1980 Grid-Soil Sampling \$1,148.76

Sworn before me at Vancouver, B.C.  
 this 18th day of December 1980

*Anthony A. Zosky*

Notary Public in and for the Province of British Columbia

*E. Olfert*

Applicant.

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

GEOCHEMICAL REPORT ON THE  
BRONSON CLAIMS 1-10 SITUATED AT  
139°29'W LONGITUDE: 63°58' N LATITUDE  
DAWSON M.D., YUKON TERRITORY

Located claims on which assessment credits are requested:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>	<u>ASSESSMENT CREDIT</u>	<u>AMOUNT</u>
Bronson 1	YA49997	June 9, 1980	2 1/2 yrs.	\$ 250.00
" 2	" 98	"	"	"
" 3	" 99	"	"	"
" 4	" 100	"	"	"
" 5	" 101	"	"	"
" 6	" 102	"	"	"
" 7	" 103	"	"	"
" 8	" 104	"	"	"
" 9	" 105	"	"	"
" 10	" 106	"	"	"
			<hr/>	<hr/>
			25 yrs.	\$ 2500.00

Geochemical work was done on these claims between June 9th-July 2nd 1980.

INTRODUCTION

The Bronson claims were staked in June 1980 to cover an area at Mt. Bronson containing anomalous Cu, Pb, Zn, Ag soil/silt geochemistry. The region is underlain by metamorphosed intermediate to acid volcanics mapped as the Klondike Schist.

This report is based on results of a grid soil-sampling program conducted between June 9th-July 2nd 1980. The aim of this program was to define the size and consistency of the anomalous area by soil-grid geochemistry.

Personnel employed during the course of this study include:

Paul Wojdak	1 man day	7th Floor, 409 Granville Street, Van. B.C.
Ken Watson	1 man day	" " " " " " "
Dave O'Brien	5 man days	" " " " " " "
Graham Gill	1 man day	" " " " " " "
Don Coolidge	1 man day	" " " " " " "

2.

### LOCATION AND ACCESS

The Bronson claims are located on the flank of Mt. Bronson 11 km south of Dawson City. The claims lie within the Dawson Mining Division and are located at 139°29' W Longitude and 63°58' N Latitude. The claims are accessible by helicopter from Dawson City.

### SUMMARY

Assessment work conducted on the claim group includes prospecting and grid-soil-sampling. The grid area has been sampled at 50 m intervals along lines spaced 150-200 m apart. The most significant result of this work is a Pb/Ag soil geochemical anomaly approximately 2000 m long and 150-400 m wide. Minor galena mineralization has been found in talus float.

### GEOLOGY

The regional area is mapped as a N.W./S.E. trending belt of Klondike Schist. Locally the claims area is underlain by quartz-feldspar-muscovite gneisses and schists which are thought to be meta-rhyolitic volcanics. Local outcrops suggest that the rocks strike in a N/S direction and dip to the west. The map area is largely covered by thick moss and brush.

### MINERALIZATION

A few samples of galena mineralization in quartz-carbonate vein float were found at the north end of the map area. The rocks in this vicinity have a rusty oxidized appearance. Elsewhere a number of rusty soil patches occur on the flank of Mt. Bronson at the south end of the map area, but no sulphide mineralization was found at these localities.

### GEOCHEMISTRY

Approximately 240 soil samples were collected and analyzed for Cu, Pb, Zn, Ag using the atomic absorption method. A few samples could not be collected because of the excessive depth of moss and permafrost. The most significant result of this program is a large coincident Pb, Ag anomaly that is approximately 2 km long and 150-400 meters wide. Anomalous Pb values are in the range of 50-150 ppm with a few samples containing 200-300 ppm Pb. (Background Pb values are 10-25 ppm. A smaller Pb anomaly occurs parallel to the main anomaly at the south end of the map area. The Ag anomalous area is somewhat wider than the main Pb anomaly at the north end of the grid area and consists of a number of smaller anomalies at the south end of the grid area. Anomalous Ag values are in the 1.0-3.0 ppm range with a few values up to 9 ppm and background values of < .4 ppm. The sample area which contains the large Pb/Ag geochemical anomaly also contains a number of smaller areas anomalous in Cu


3.

and Zn. Anomalous Cu values are in the range of 50-150 ppm with background values 10-20 ppm; anomalous Zn values are in the 100-300 ppm range with background values around 50-60 ppm. One single sample contained 805 ppm Zn. Approximately 75 samples were also analyzed for manganese: results range from 69-2900 ppm. The best Mn values tend to correlate with the anomalous Zn values.

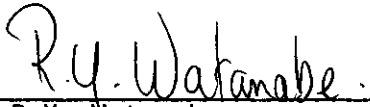
#### INTREPRETATION OF RESULTS AND CONCLUSIONS

1. This property contains a significant Pb/Ag anomaly that appears to trend parallel to the underlying host rocks.
2. The area where minor galena mineralization was located does not contain anomalous Pb soil geochemistry and therefore does not appear to be the source for the main Pb/Ag geochemical anomaly.
3. The main Pb/Ag anomalous area is mostly covered, and thus more exploration work is required to determine the source for this anomaly.

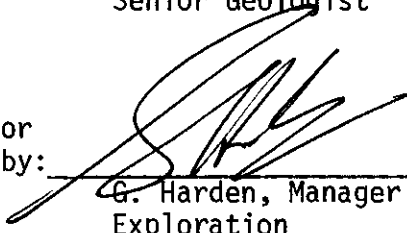
Report by:

  
E.G. Olfert  
Geologist

Endorsed by:

  
R.Y. Watanabe  
Senior Geologist

Approved for  
Release by:

  
G. Harden, Manager  
Exploration  
Western District

#### Attachments:

1. Location Map 1:250,000
2. Claim Map 1"=1/2 mile
3. Pb Soil Geochemistry 1:5,000
4. Ag Soil Geochemistry 1:5,000
5. Cu Soil Geochemistry 1:5,000
6. Zn Soil Geochemistry 1:5,000

4.

Attachments:

1. Location Map 1:250,000
2. Claim Map 1"= 1/2 mile
3. Pb Soil Geochemistry 1:5,000
4. Ag Soil Geochemistry 1:5,000
5. Cu Soil Geochemistry 1:5,000
6. Zn Soil Geochemistry 1:5,000

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, Ernest Olfert, with business address at 409 Granville Street, 7th Floor, Vancouver, British Columbia, do hereby certify that I have supervised the field work and have assessed and interpreted the data resulting from this geochemical survey.

I also certify that:

1. I am a graduate of the University of Calgary, Alberta, where I received a B.Sc degree in Honours Geology in 1970.
2. I am engaged in mineral exploration and have been a permanent employee with Cominco since 1971.

Respectfully Submitted:

  
E.G. Olfert, B.Sc. Honours

This is Schedule A referred to  
in the Statutory Declaration  
of ERNEST G. OLFERT  
declared before me this 18th day  
of December, 1980.

*Anthony A. Zolsh*  
A Notary Public in and for the  
Province of British Columbia.

STATEMENT OF EXPENDITURES

BRONSON GROUP

DAWSON M.D., Y.T.

JUNE 9th, 1980 - JULY 2nd, 1980

SALARIES (12 man days) . . . . .	\$ 775.00
REPORT WRITING E. Olfert (1 day) . . . . .	126.00
TRANSPORTATION (1 hr. helicopter) . . . . .	400.00
DOMICILE (Food, and equipment) 12 m. days at \$15/m.d. . . . .	180.00
GEOCHEMISTRY 240 samples Cu, Pb, Zn, Ag at \$3.90/sample . . . . .	936.00
<i>oay lgs -</i> ADMINISTRATION <i>lgs oay</i> . . . . .	2,417.00
<del>ADMINISTRATION</del> 10% . . . . .	241.70
TOTAL	\$ 2,658.70

*E. Olfert*  
Ernest G. Olfert  
Geologist, Exploration  
Cominco Ltd.

C A N A D A

YUKON TERRITORY

TO WIT:

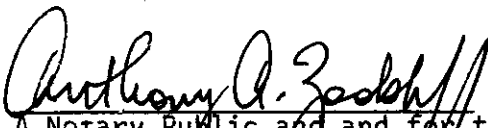
STATUTORY DECLARATION

I, ERNEST GEORGE OLFERT, of the City of Vancouver, in the Province of British Columbia, do solemnly declare that:

1. I am employed as a geologist by Cominco Ltd. and, as such, have a personal knowledge of the facts to which I here in after depose;
2. Annexed hereto and marked as Schedule A is a true copy of expenditures on a geochemical survey carried out on mineral claims BRONSON 1-10;
3. The said expenditures were incurred between the 9th of June and the 2nd of July, 1980 for the purpose of mineral exploration on the above noted claim group.
4. This statutory Declaration is made in support of an application for a Certificate of Work pursuant to the Yukon Quartz Mining Act.

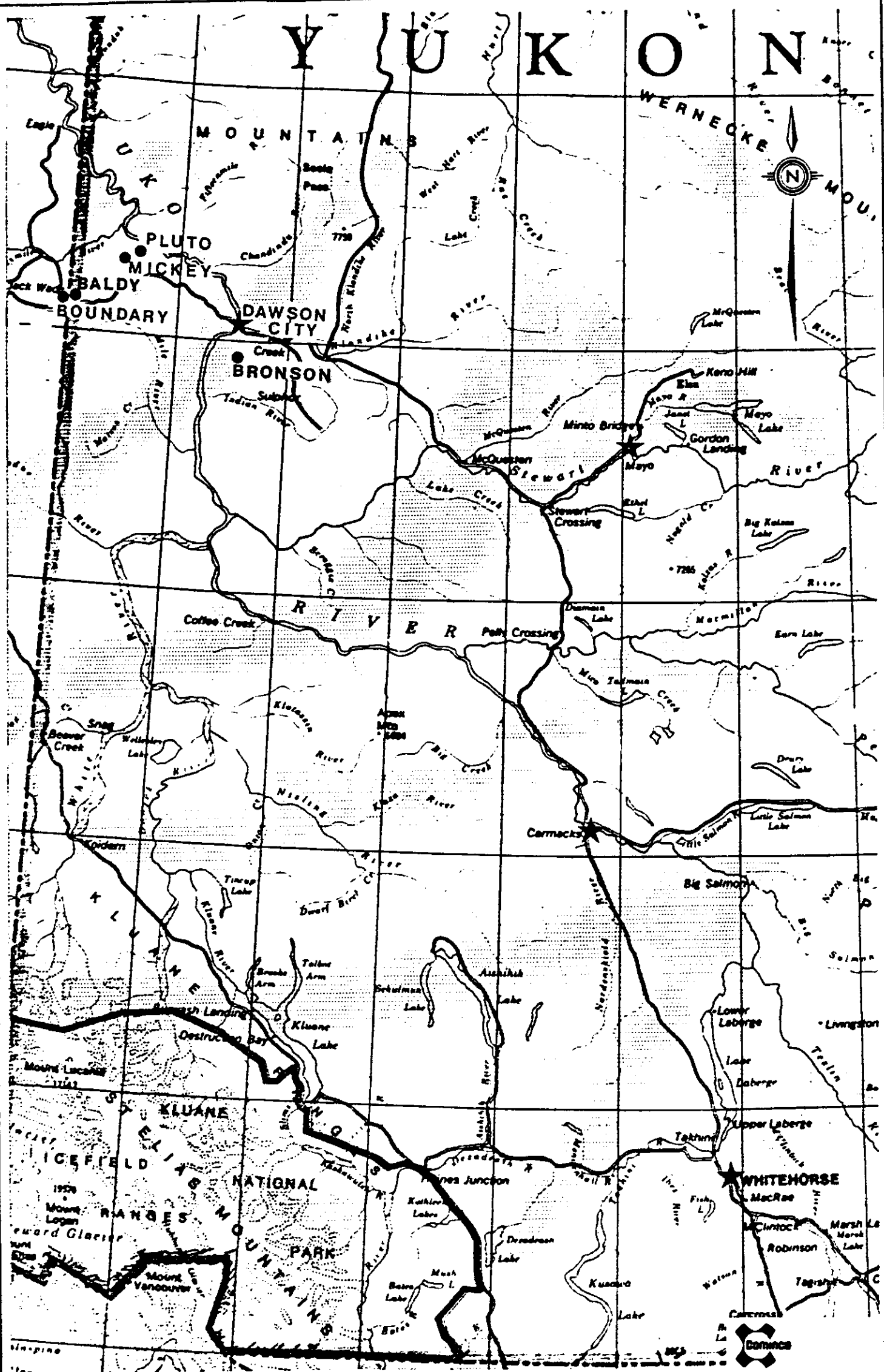
And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at the  
City of Vancouver in the  
Province of British Columbia  
this 18th day of December 1980

  
A Notary Public and for the  
Province of British Columbia

  
Ernest G. Olfert

# YUKON



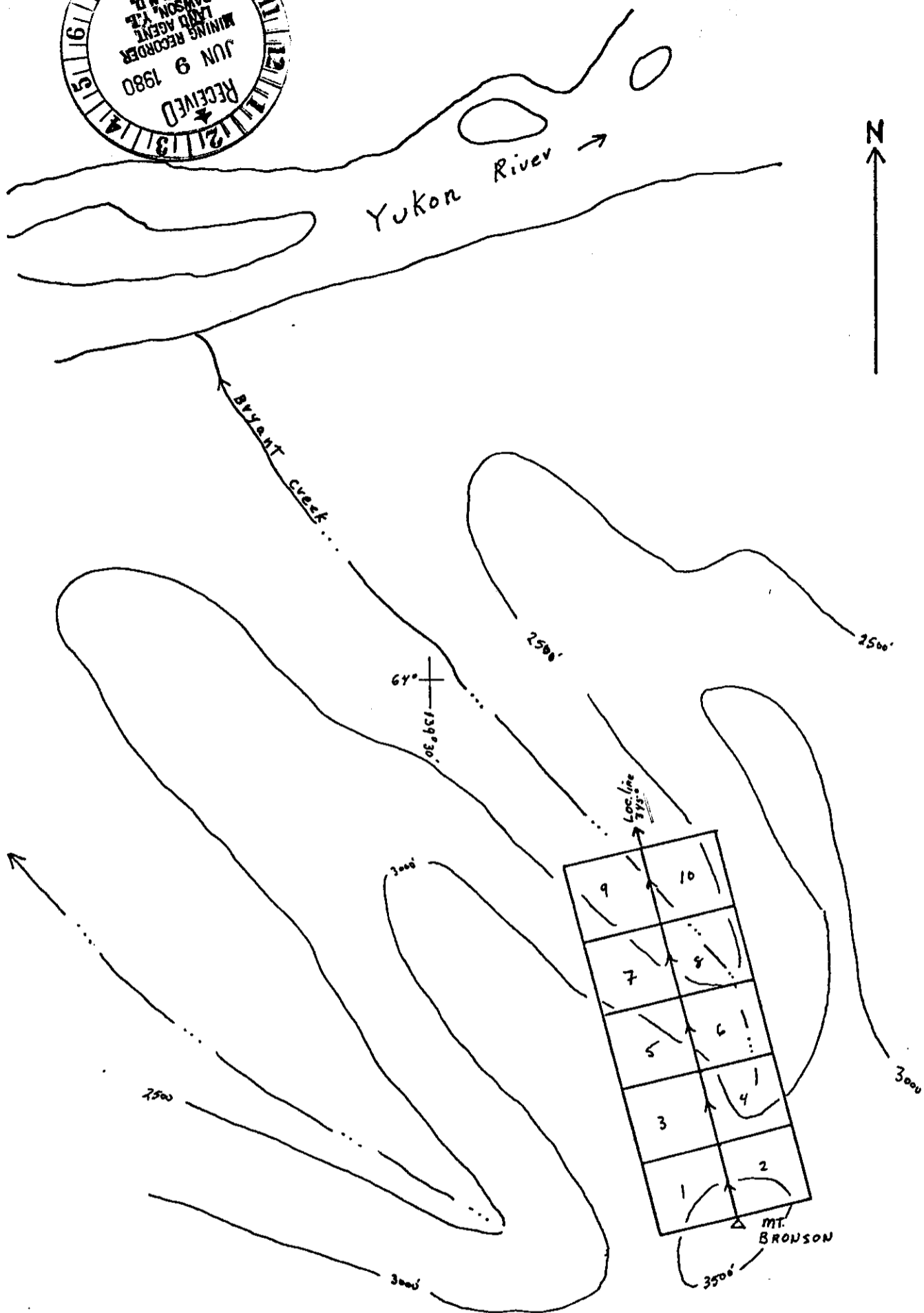
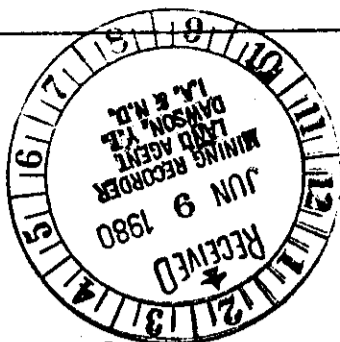
Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

## LOCATION MAP

Scale: 1" = 32 Mi.

Date:

Plate:



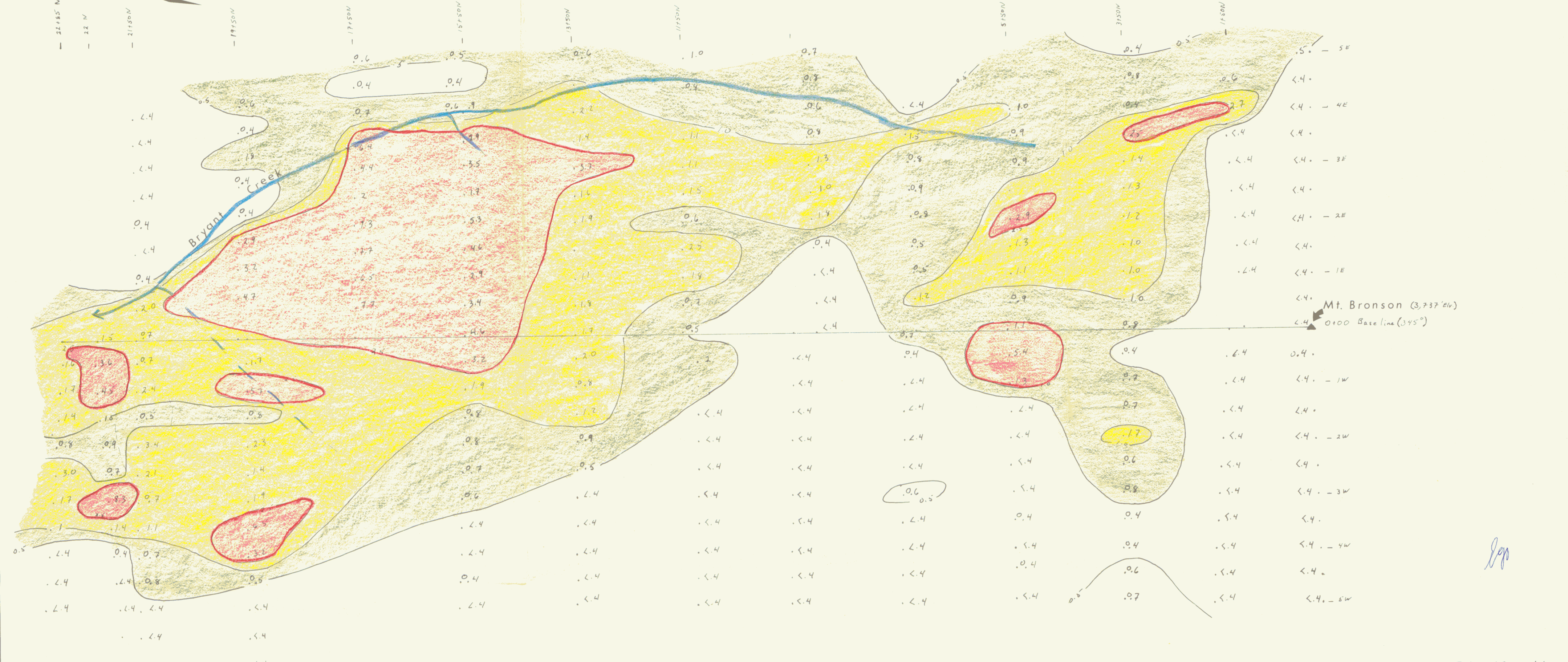
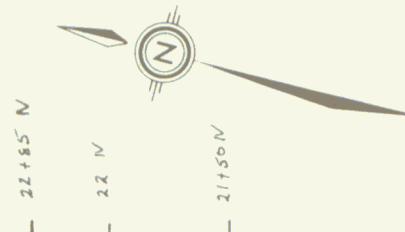
BRONSON 1-8 D. Dudek  
 BRONSON 9,10 P. Wojdak

N.T.S. 115-0-14

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

BRONSON CLAIMS

Scale: 1" = 2 mi Date: June 7<sup>th</sup>/80 Plate:

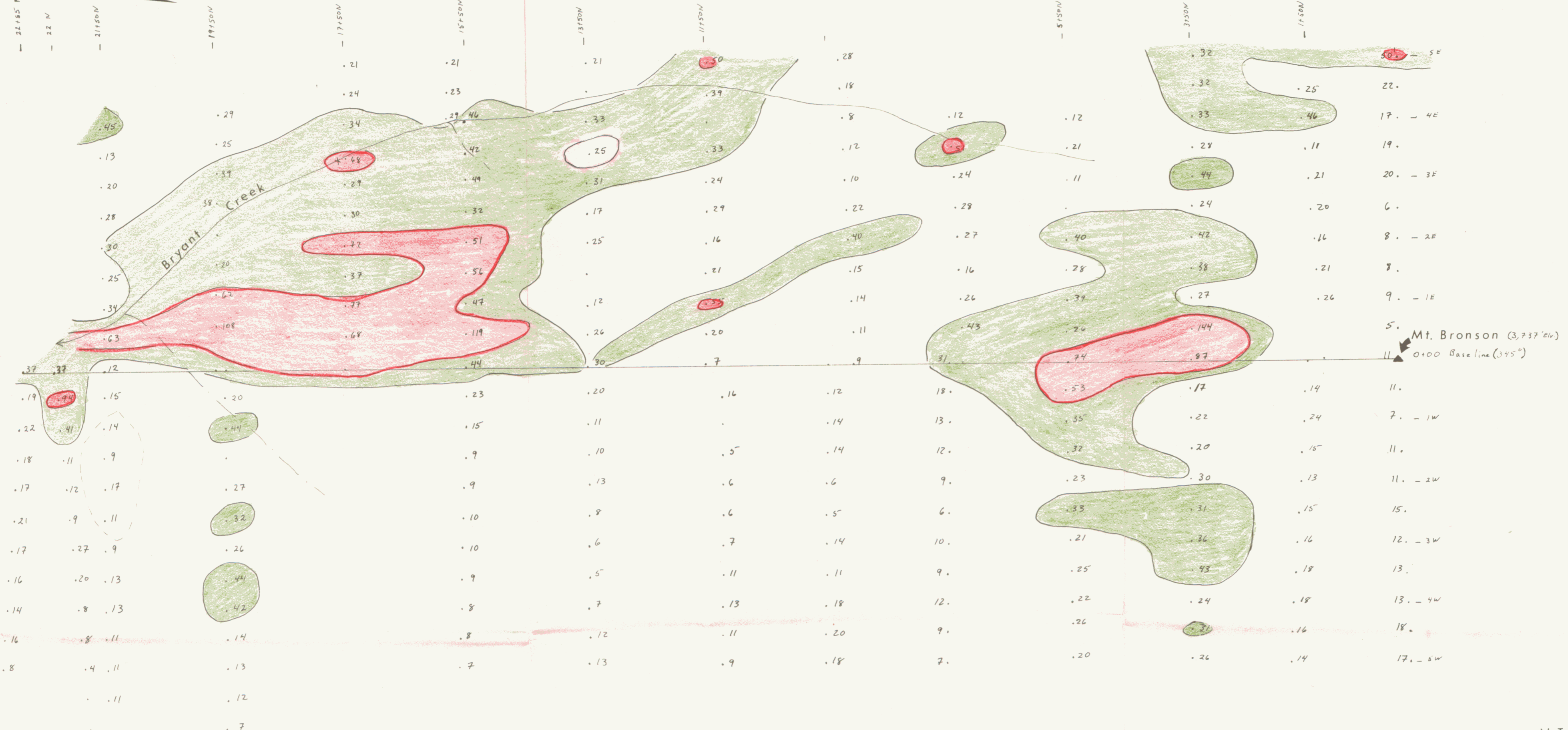
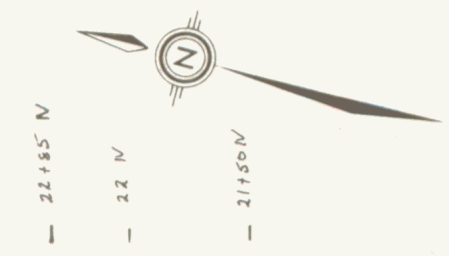


- > 2.5 p.p.m. Ag Very Anomalous.
- > 1.0 p.p.m. Ag Anomalous
- > 0.5 p.p.m. Ag threshold.

*Jep*

N.T.S. 115-0-14

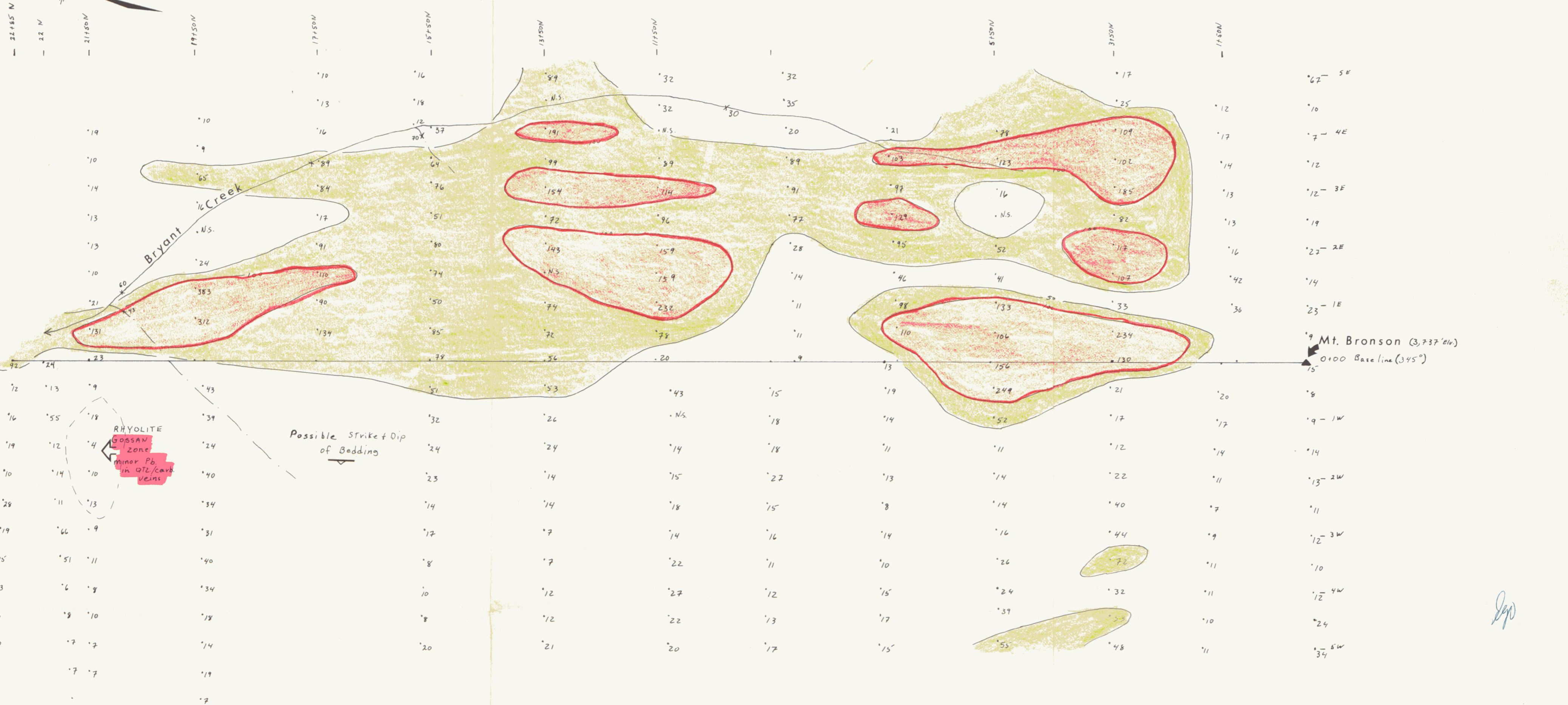
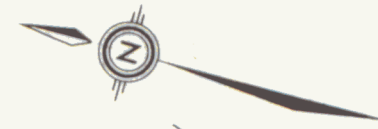
<b>MT. BRONSON</b>				
Drawn by:		Traced by:		<b>Ag SOIL GEOCHEMISTRY</b>
Revised by:	Date:	Revised by:	Date:	
Scale: 1:5,000			Date:	Plate:



> 50 pp.m. Cu. Anomalous  
 > 30 pp.m. Cu Threshold/Anomalous

N.T.S. 115-0-14

<b>MT. BRONSON</b>				
Drawn by:		Traced by:		<b>Cu SOIL GEOCHEMISTRY</b>
Revised by	Date	Revised by	Date	
Scale 1:5,000		Date		Plate

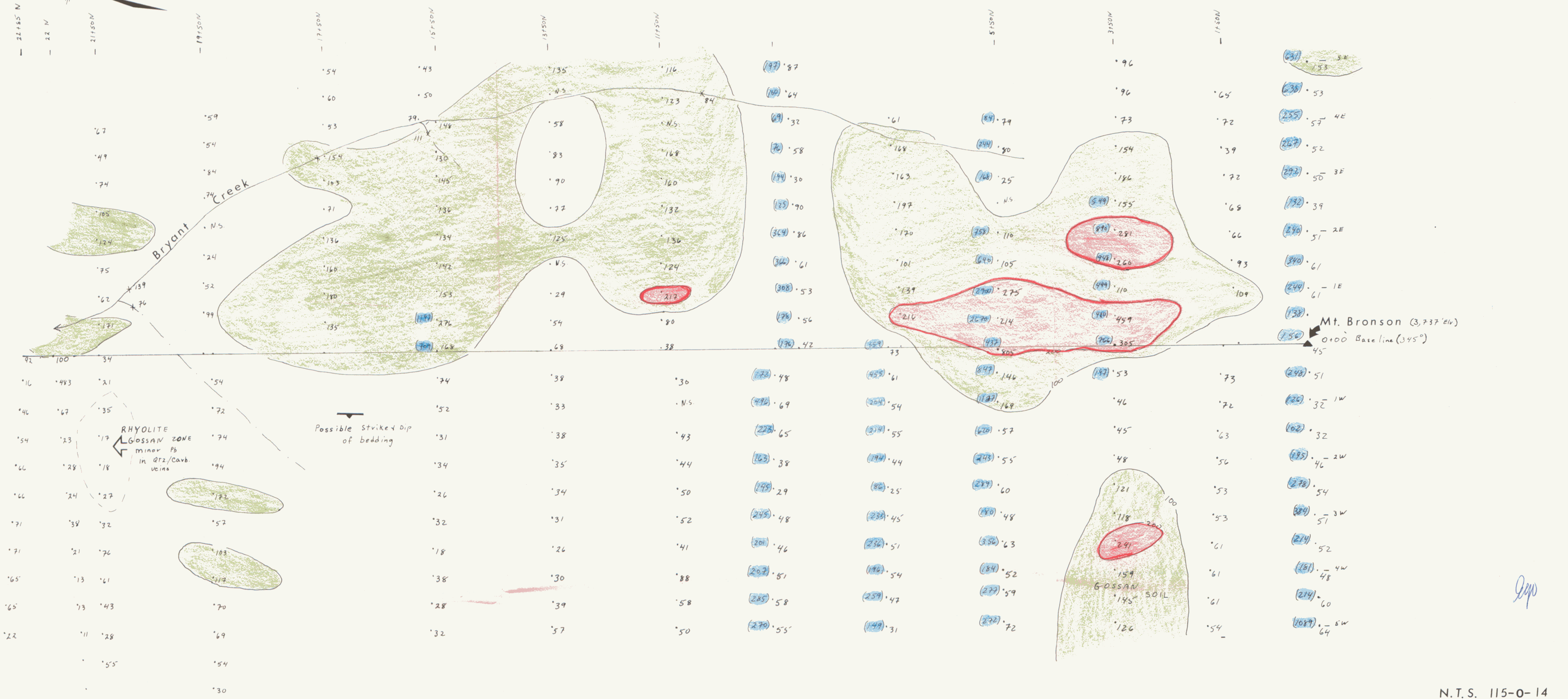
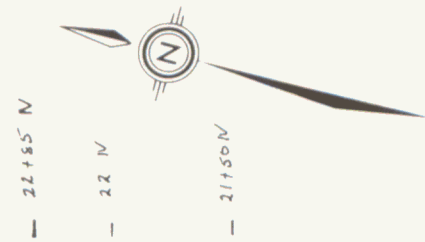


> 100 p.p.m. PB.  
 > 50 p.p.m. PB.

N.T.S. 115-0-14

<b>MT. BRONSON</b>					
<b>PB. SOIL GEOCHEMISTRY</b>					
Drawn by:		Traced by:			
Revised by	Date	Revised by	Date		
Scale: 1:5,000				Date:	
				Plate:	

*Jep*



Mt. Bronson (3,737' elev)  
 0+00 Base line (345°)  
 45

- >200 p.p.m. ZN.
- >100 p.p.m. ZN.
- MANGANESE in p.p.m.

*Geo*

N.T.S. 115-0-14

<b>MT. BRONSON</b>					
Drawn by:		Traced by:		<b>ZN. SOIL GEOCHEMISTRY</b>	
Revised by:	Date:	Revised by:	Date:		
Scale: 1:5,000				Date:	
				Plate:	