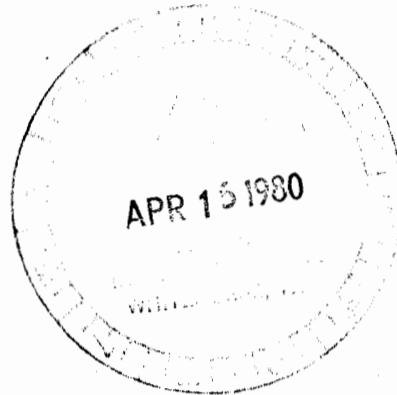


COMINCO LTD.

EXPLORATION  
NTS: 115P-16

WESTERN DISTRICT



GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE BEN CLAIMS 1-80

SITUATED AT: 63°47'N; 136°05'W

MAYO MINING DISTRICT

WORK PERFORMED DURING TIME PERIOD:

JULY 23 AND AUGUST 5, 1979

MARCH 1980

L.J. NAGY

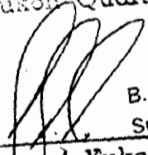
090555

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representative work in the amount of \$ 10,688.00

Jamoin

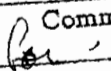
Patrol Geologist or  
Professional Engineer

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



B. R. BAXTER  
Supervising Mining Recorder

Commissioner of Yukon Territory



## TABLE OF CONTENTS

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Introduction -----	1
Location and Access -----	1
Summary -----	1,2
Geology and Mineralization -----	2
Geochemistry -	
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Interpretation of Results -----	3
Soil Geochemistry -----	4
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### Attachments

Ben 79-1 Location Map  
Ben 79-2 Claim Map - Ben 1-80  
Ben 79-3 Geology  
Ben 79-4 Geochemistry Sample Location Plan  
Ben 79-5 Contour Soil Geochemistry Results  
Ben 79-6 H.M.C. Geochemistry Results, Sn, W, Au, Ag.  
Ben 79-7 H.M.C. Geochemistry Results, Cu, Pb, Zn, Mo.  
Ben 79-8 Silt Geochemistry Results, Sn, W, Au, Ag.

Computer Printout Sheets of Analytical Results.

COMINCO LTD.

EXPLORATION  
NTS: 115/P-16

WESTERN DISTRICT  
18 MARCH 1980

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE BEN CLAIMS 1-80 SITUATED

AT 63°47'N; 136°05'W

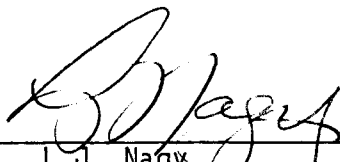
MAYO MINING DISTRICT

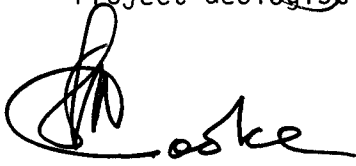
Located claims on which assessment credits are requested.

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>	<u>ASSESSMENT CREDIT</u>	<u>AMOUNT</u>
BEN 1	YA39400	March 28, 1979	1 year	100.00
BEN 2	YA39401	March 28, 1979	1 year	100.00
BEN 3	YA39402	March 28, 1979	1 year	100.00
BEN 4	YA39403	March 28, 1979	1 year	100.00
BEN 5	YA39404	March 28, 1979	1 year	100.00
BEN 6	YA39405	March 28, 1979	1 year	100.00
BEN 7	YA39406	March 28, 1979	1 year	100.00
BEN 8	YA39407	March 28, 1979	1 year	100.00
BEN 9	YA39408	March 28, 1979	1 year	100.00
BEN 10	YA39409	March 28, 1979	1 year	100.00
BEN 11	YA39410	March 28, 1979	1 year	100.00
BEN 12	YA39411	March 28, 1979	1 year	100.00
BEN 13	YA39412	March 28, 1979	1 year	100.00
BEN 14	YA39413	March 28, 1979	1 year	100.00
BEN 15	YA39414	March 28, 1979	1 year	100.00
BEN 16	YA39415	March 28, 1979	1 year	100.00
BEN 17	YA39416	March 28, 1979	1 year	100.00
BEN 18	YA39417	March 28, 1979	1 year	100.00
BEN 19	YA39418	March 28, 1979	1 year	100.00
BEN 20	YA39419	March 28, 1979	1 year	100.00
BEN 21	YA39420	March 28, 1979	1 year	100.00
BEN 22	YA39421	March 28, 1979	1 year	100.00
BEN 23	YA39422	March 28, 1979	1 year	100.00
BEN 24	YA39423	March 28, 1979	1 year	100.00
BEN 25	YA39424	March 28, 1979	1 year	100.00
BEN 26	YA39425	March 28, 1979	1 year	100.00
BEN 27	YA39426	March 28, 1979	1 year	100.00
BEN 28	YA39427	March 28, 1979	1 year	100.00
BEN 29	YA39428	March 28, 1979	1 year	100.00
BEN 30	YA39429	March 28, 1979	1 year	100.00
BEN 31	YA39430	March 28, 1979	1 year	100.00
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BEN 35	YA39434	March 28, 1979	1 year	100.00
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BEN 37	YA39436	March 28, 1979	1 year	100.00
BEN 38	YA39437	March 28, 1979	1 year	100.00
BEN 39	YA39438	March 28, 1979	1 year	100.00
BEN 40	YA39439	March 28, 1979	1 year	100.00
BEN 41	YA39440	March 28, 1979	1 year	100.00
BEN 42	YA39441	March 28, 1979	1 year	100.00
BEN 43	YA39442	March 28, 1979	1 year	100.00
BEN 44	YA39443	March 28, 1979	1 year	100.00
BEN 45	YA39444	March 28, 1979	1 year	100.00
BEN 46	YA39445	March 28, 1979	1 year	100.00
BEN 47	YA39446	March 28, 1979	1 year	100.00
BEN 48	YA39447	March 28, 1979	1 year	100.00
BEN 49	YA39448	March 28, 1979	1 year	100.00
BEN 50	YA39449	March 28, 1979	1 year	100.00

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>	<u>ASSESSMENT CREDIT</u>	<u>AMOUNT</u>
BEN 51	YA39450	March 28, 1979	1 year	100.00
BEN 52	YA39451	March 28, 1979	1 year	100.00
BEN 53	YA39452	March 28, 1979	1 year	100.00
BEN 54	YA39453	March 28, 1979	1 year	100.00
BEN 55	YA39454	March 28, 1979	1 year	100.00
BEN 56	YA39455	March 28, 1979	1 year	100.00
BEN 57	YA39456	March 28, 1979	1 year	100.00
BEN 58	YA39457	March 28, 1979	1 year	100.00
BEN 59	YA39458	March 28, 1979	1 year	100.00
BEN 60	YA39459	March 28, 1979	1 year	100.00
BEN 61	YA39460	March 28, 1979	1 year	100.00
BEN 62	YA39461	March 28, 1979	1 year	100.00
BEN 63	YA39462	March 28, 1979	1 year	100.00
BEN 64	YA39463	March 28, 1979	1 year	100.00
BEN 65	YA39464	March 28, 1979	1 year	100.00
BEN 66	YA39465	March 28, 1979	1 year	100.00
BEN 67	YA39466	March 28, 1979	1 year	100.00
BEN 68	YA39467	March 28, 1979	1 year	100.00
BEN 69	YA39468	March 28, 1979	1 year	100.00
BEN 70	YA39469	March 28, 1979	1 year	100.00
BEN 71	YA39470	March 28, 1979	1 year	100.00
BEN 72	YA39471	March 28, 1979	1 year	100.00
BEN 73	YA39472	March 28, 1979	1 year	100.00
BEN 74	YA39473	March 28, 1979	1 year	100.00
BEN 75	YA39474	March 28, 1979	1 year	100.00
BEN 76	YA39475	March 28, 1979	1 year	100.00
BEN 77	YA39476	March 28, 1979	1 year	100.00
BEN 78	YA39477	March 28, 1979	1 year	100.00
BEN 79	YA39478	March 28, 1979	1 year	100.00
BEN 80	YA39479	March 28, 1979	1 year	100.00

Geological and geochemical work was done on these claims between July 23 and August 5, 1979.

Report by:   
L.J. Nagy  
Project Geologist

Endorsed by:   
D.L. Cooke  
Senior Geologist

LJN:gk

COMINCO LTD.

EXPLORATION  
NTS: 115/P-16

WESTERN DISTRICT  
19 MARCH 1980

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE BEN 1-80 MINERAL CLAIMS

MAYO MINING DIVISION, YUKON TERRITORY

INTRODUCTION

The Ben group of 80 claims were staked in March 1979 to cover the suspected source area of highly anomalous Au-Sn-W geochemistry in heavy mineral concentrate samples. During the 1978 Cordilleran Tin Reconnaissance program, the heavy mineral concentrate sample collected from Bennett Creek carried 1105 ppm Sn, 875 ppm W, and 44,000 ppb Au. Regional government mapping indicated two small Cretaceous granitic plugs at the head waters of Bennett Creek. The geochemical results arrived after freeze up, so was not possible to examine this area in the fall of 1978. The Ben claims were staked as a result of a staking rush in the Mayo-Keno Hill area in March 1979. The rush prompted Cominco to stake its better anomalies rather than risk losing prospective ground to competitors.

This report summarizes field studies and sampling done on the Ben claims between 23 July and 5 August 1979.

The object of this work was to locate the source of the anomalous concentrations of heavy minerals found in Bennett Creek by prospecting, mapping, contour soil geochemistry and detailed heavy mineral concentrate sampling of the streams.

Personnel employed during the course of this program include:-

<u>Name</u>	<u>Period</u>	<u>Address</u>
J. Jyu	23 July - 5 August	700-409 Granville Street Vancouver, BC V6C 1T2
V. Steffler	23 July - 5 August	700-409 Granville Street Vancouver, BC V6C 1T2
B. Grant	1 August - 5 August	700-409 Granville Street Vancouver, BC V6C 1T2
L. Nagy	30 July, 10-14 March	700-409 Granville Street Vancouver, BC V6C 1T2

LOCATION AND ACCESS

The Ben claims are located 20 km northwest of Mayo, Yukon Territory at the headwaters of Bennett Creek.

The claims are within the Mayo Mining Division at 63°47'N latitude and 136°05'W longitude, NTS: 115/P-16, Seattle Creek map sheet.

Access is by helicopter based at Mayo.

SUMMARY

Field work on the claim groups included prospecting, mapping, heavy mineral concentrate and silt sampling, and contour soil sampling.

The geochemical results were disappointing. A single heavy mineral concentrate sample collected near the northeast corner of the property is anomalous in tin (2263 ppm) and this area may warrant further investigation.

Elsewhere, prospecting and mapping failed to find significant mineralization in outcrop. Most of the property is underlain by quartzites and quartz-biotite schists of the Proterozoic Yukon Group of metasediments. The metasediments have been intruded by several narrow syenite and quartz-feldspar porphyry dykes of Cretaceous(?) age. The contour soil geochemical survey recorded several samples anomalous in Au and two or three samples weakly anomalous in Sn. However, the results are not of sufficient interest to warrant immediate follow up.

In conclusion, the field work completed to date failed to locate significant Sn-W-Au mineralization on the Ben group of claims and additional expenditures on the property are not warranted at this time.

#### GEOLOGY AND MINERALIZATION

The Ben group of claims are underlain by a succession of Precambrian quartzites which dip moderately to the southeast. The quartzites are part of a thick succession of quartzites, biotite-schists and minor limy interbeds, which together comprise the southern limb of the McQuesten River anticline.

Strata of this area, are believed correlatable with Grit Division (Units 3 and 4) of the Scougale Creek, Mayo Lake and McQuesten Lake areas, mapped by Green (1971). Rocks of the Grit Division are believed to be of Precambrian age. About 10 km to the northeast, these rocks are separated from underlying Jurassic(?) and Lower Cretaceous(?) strata (Keno Hill Quartzite) by a major thrust fault which has been traced for a distance of over 250 km in the central and west-central Yukon (Templeman-Kluit, 1970, Green, 1971).

All strata on the Ben group of claims have been regionally metamorphosed within the lower subfacies of the greenschist facies. Regional metamorphism had produced thin films of clear, yellow muscovite along foliation planes in the quartzite.

In general all rock types are locally intensely deformed with a well developed foliation obscuring bedding.

The prominent rock type on the Ben claims is a rusty, massive, weakly pyritized quartzite. Abundant muscovite occurs along foliation planes locally producing muscovite schists in highly deformed sections. These areas are also characterized by narrow discontinuous lenses of barren vein quartz.

Minor outcrops of quartz biotite-schist occur within the quartzite. This rock consists of 75% quartz, 25% biotite and is also limited to zones of intense deformation.

No major faults were recognized on the property. Brecciation was observed in only two small outcrops. In both instances the brecciated material was composed of quartz-feldspar porphyry which occurs as narrow, discontinuous dykes scattered throughout the property. The porphyry is unaltered and consists of clear, euhedral grains of quartz and white feldspar in a dark grey matrix of quartz, feldspar and biotite.

With the exception of fine pyrite, which is ubiquitous on the property, other sulphide mineralization is almost totally absent. One 2 cm wide lense or stringer of pyrrhotite was found in rusty quartzite mid-way up the west fork of Bennett Creek (Sample JJ 38). A grab sample of this material carried 264 ppm Cu, 5600 ppb Au, and 175 ppm W.

Detailed prospecting around this area failed to uncover additional mineralization and further investigation is not warranted at this time.

No evidence of tin mineralization was found anywhere on the claim group and as a result, the highly anomalous H.M.C. samples from Bennett Creek remain unexplained.

## GEOCHEMISTRY

### Sample Collection

A total of 27 heavy mineral concentrate samples, 26 silt samples, and 144 soil samples were collected and analysed for Cu, Pb, Zn, Mo, Sn, W, and Au. Ag

Approximately 1 kilogram of -20 mesh stream sediment was collected at 1.5 km intervals along each fork of Bennett Creek and at the mouths of each of the tributary streams. Corresponding silt samples were also collected at each H.M.C. sample site.

Soil samples of organic free "B" horizon were collected at 50 metre intervals along the 3500 ft contour, dried and sieved to minus 80 mesh.

All analyses were done at Cominco's Exploration Research Laboratory in Vancouver under the supervision of Mr. Frank Kiss, Senior Chemist.

Sn analyses was performed by XRF and W analyses was done colourimetrically by dithiol after bi-sulphate fusion.

Cu, Pb, Zn, Ag analyses were performed by atomic absorption following a hot nitric acid and/or a hot aqua regia digestion.

The analytical results are listed on computer printout sheets, copies of which accompany this report. Sn, W, Au, Ag, Cu, Pb, Zn, and Mo results are shown on plans accompanying this report.

### Interpretation of Results

Too few geochemical samples were collected from this property to warrant a statistical analyses of results. Instead, threshold values calculated for projects in similar environments in the Mayo area may be useful. Threshold values for a few of the main elements of interest are tabulated below:-

<u>Sample Type</u>	<u>Sn</u>	<u>W</u>	<u>Ag</u>	<u>Au</u>	<u>Mo</u>
H.M.C.	200 ppm	200 ppm	+2 ppm	100 ppb	50 ppm
Silt	50 ppm	50 ppm	+1 ppm	25 ppb	10 ppm
Soil	10 ppm	25 ppm	0.5 ppm	20 ppb	5 ppm

### Heavy Mineral Concentrate Sampling

A total of 27 heavy mineral concentrate samples were collected and analysed for Sn, W, Au, Ag, Cu, Pb, Zn, and Mo. The sample sites and results are plotted on Plates Ben 79-6 and Ben 79-7.

#### Tin and Tungsten (Plate 79-6)

Only one sample (B17BH) was anomalous in Sn. It was collected near the headwaters of the east fork of Bennett Creek and analysed 2263 ppm Sn. The area is underlain by quartzites and the occasional narrow, quartz vein. The lack of anomalous Sn values in samples collected downstream suggests that this occurrence is probably too small to warrant detailed investigation.

No anomalous tungsten values are present.

#### Gold and Silver (Plate Ben 79-6)

The anomalous gold values ranged from 100 ppb to 1280 ppb and tend to be scattered throughout the property. The highest value of 1280 ppb was collected near a small occurrence of pyrrhotite veinlets in quartzite, midway up the west fork of Bennett Creek. A pyrrhotite rich bedrock sample (JJ 38) collected here contained 5600 ppb Au and is probably the source rock for H.M.C. gold anomaly.

Silver values in H.M.C. tend to be higher in the west fork area of Bennett Creek with values ranging from 2.4 to 10.0 ppm. Again it is difficult to explain these high values adequately on the basis of the known geology. No evidence of Ag-Pb veins was found outcropping in the area or in boulders in the streams draining these areas.

Copper, Lead, Zinc and Molybdenum (Plate Ben 79-7)

No anomalous Cu-Pb-Zn-Mo values were recorded from any of the heavy mineral concentrate samples collected on the Ben group of claims.

SOIL GEOCHEMISTRY

In conjunction with the H.M.C. sampling, 144 soil samples were collected at 50 metre intervals along the 3500 ft contour. This contour encompasses the headwater regions of both forks of Bennett Creek and sampling along this contour would detect mineralization not reflected in the stream geochemistry.

Tin and Tungsten (Plate Ben 79-5)

The results were disappointing as no anomalous Sn-W values are present.

Gold and Silver (Plate Ben 79-5)

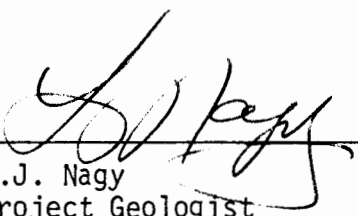
Anomalous gold values ranged from 20 to 112 ppb. Unfortunately the values are scattered throughout the property and probably reflect isolated narrow gold bearing quartz veins common in the Mayo area.

Anomalous silver values ranged from 0.6 to 6.6 ppm. The distribution pattern of these anomalous values is also random with no values occurring consecutively. It must be concluded that the source of these anomalies is too small to be of economic significance.


In conclusion it appears that the source area of the highly anomalous heavy mineral concentrate samples collected downstream in Bennett Creek, remain unidentified.

The underlying geology on the property is not favourable for tin mineralization and further work is not warranted at this time.


Report By: \_\_\_\_\_

  
L.J. Nagy  
Project Geologist

Endorsed By: \_\_\_\_\_

  
D.L. Cooke  
Senior Geologist

Approved For Release By: \_\_\_\_\_

  
G. Harden  
Manager, Exploration  
Western District

REFERENCES

- Green, L.H. (1971), Geology of Mayo Lake, Scougale Creek and McQueston Lake Map Areas, Yukon Territory, G.S.C. Memoir 357.
- Templeman-Kluit, D.J. (1970), Stratigraphy and Structure of the "Keno Hill Quartzite" in Tombstone River-Upper Klondike River Map Areas, Yukon Territory, G.S.C. Bulletin 180.
- Geological Survey of Canada, (1964), Map 1143A - Geology, McQueston, Yukon.

COMINCO LTD.

EXPLORATION  
NTS: 115/P-16

WESTERN DISTRICT  
18 MARCH 1980

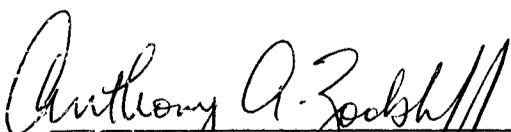
IN THE MATTER OF THE YUKON QUARTZ MINING ACT AND  
IN THE MATTER OF A GEOCHEMICAL SURVEY CARRIED OUT ON  
MINERAL CLAIMS BEN 1-80  
LOCATED IN THE MAYO MINING DISTRICT, YUKON TERRITORY  
MORE PARTICULARLY, NTS: 115/P-16

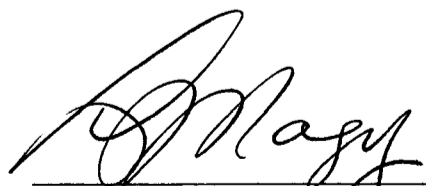
A F F I D A V I T

I, L.J. Nagy, of the City of Vancouver, in the Province of British Columbia, Project Geologist, 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 "Exhibit A" to this my Affidavit is a true copy of expenditures on a geochemical and geological survey carried out on mineral claims Ben 1-80;
3. THAT the said expenditures were incurred between the 23rd day of July 1979 and the 5th day of August 1979, for the purpose of mineral exploration on the above noted claim group.

Sworn before me at the City of )  
Vancouver in the Province of )  
British Columbia this 21st )  
day of March, 1980. )

  
A Notary Public In and For the  
Province of British Columbia. }

  
L.J. NAGY  
PROJECT GEOLOGIST

COMINCO LTD.

EXPLORATION  
NTS: 115/P-16

WESTERN DISTRICT  
18 MARCH 1980

EXHIBIT "A"

1. SALARIES

J. Jyu	- 13 days @ 58.00 day	\$ 754.00	
V. Steffler	- 13 days @ 61.00 day	793.00	
B. Grant	- 5 days @ 74.80 day	374.00	
L. Nagy	- 6 days @ 148.72 day	<u>892.00</u>	2,813.00

2. GEOCHEMISTRY (ANALYTICAL COSTS)

27 H.M.C. samples @ 17.70 each	\$ 477.90	
26 silt samples @ 9.15 each	237.90	
144 soil samples @ 10.40 each	<u>1,497.60</u>	2,213.40

3. CAMP COSTS

Equipment - tents, fuel oil, etc.	1,500.00
Food - 32 man days @ 25.00 day	800.00

4. TRANSPORTATION

Helicopter - mob. and demob. plus 1 supply trip	
5 hrs. @ 400.00 hr.	2,000.00
4x4 truck rental - 13 days @ 30.00 day	<u>390.00</u>

Sub-total: 9,716.40

10% Administrative charges: 971.64

TOTAL EXPENDITURES: \$10,688.04

Signed: \_\_\_\_\_

*L. J. Nagy*  
L.J. NAGY  
PROJECT GEOLOGIST

This is Exhibit "A" to the Affidavit relating to the geochemical and geological survey declared before me <sup>by L. J. Nagy</sup> on this 5<sup>th</sup> day of March, 1980.

<sup>ay</sup>  
Signed: \_\_\_\_\_

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

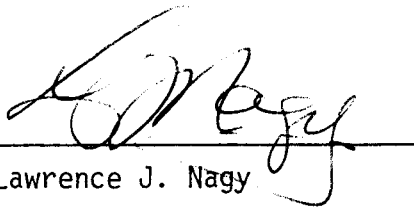
STATEMENT OF QUALIFICATIONS

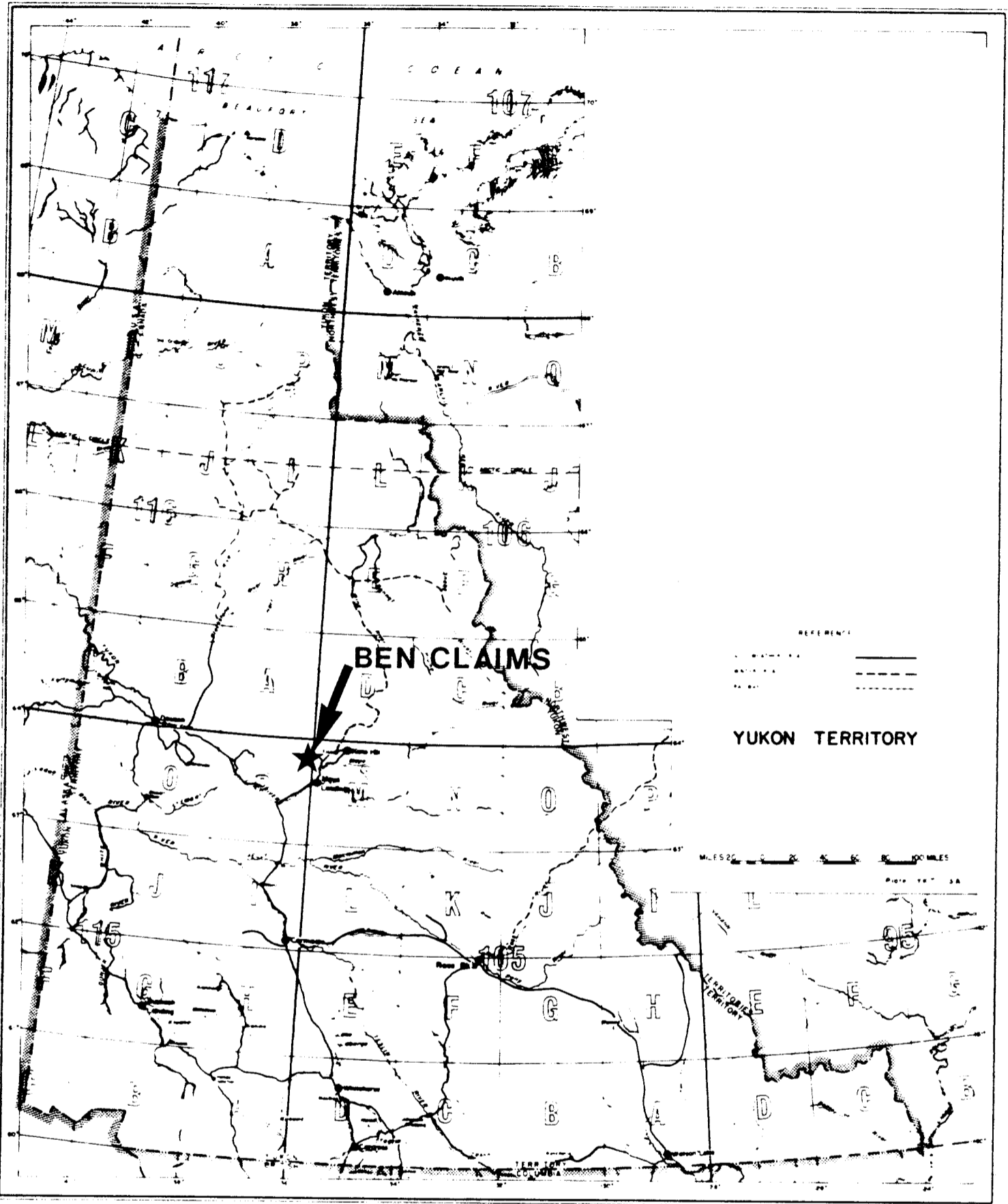
I, LAWRENCE JOHN NAGY, with business address at 700 - 409 Granville Street, Vancouver, British Columbia, do hereby certify that I have supervised the field work and have assessed and interpreted the data resulting from this geochemical and geological survey on the Ben mineral claims.

I also certify:-

- (1) THAT I am a graduate of the University of Saskatchewan, B.A. Geological Sciences (1969);
- (2) THAT I have engaged in mineral exploration in Canada and Australia since graduation.

Respectfully Submitted By: \_\_\_\_\_

  
Lawrence J. Nagy



Drawn by	Traced by
Revised by	Revised by
Date	Date

LOCATION MAP  
BEN CLAIMS

Scale as shown      Date 21-3-1980      Plate BEN 79-1



66	65	50	49	34	33	18	17	2	1
YA 39465	YA 39464	YA 39449	YA 39498	YA 39433	YA 39432	YA 39417	YA 39416	YA 39401	YA 39400
68	67	52	51	36	35	20	19	4	3
YA 39467	YA 39466	YA 39451	YA 39450	YA 39435	YA 39434	YA 39419	YA 39418	YA 39403	YA 39402
70	69	54	53	38	37	22	21	6	5
YA 39469	YA 39468	YA 39453	YA 39452	YA 39437	YA 39436	YA 39421	YA 39420	YA 39405	YA 39404
72	71	56	55	40	39	24	23	8	7
YA 39471	YA 39470	YA 39455	YA 39454	YA 39439	YA 39438	YA 39423	YA 39422	YA 39407	YA 39406
74	73	58	57	42	41	26		10	9
YA 39473	YA 39472	YA 39457	YA 39456	YA 39441	YA 39440	YA 39425	YA 39424	YA 39409	YA 39408
76	75	60	59	44	43		27	12	11
YA 39475	YA 39474	YA 39459	YA 39458	YA 39443	YA 39442	YA 39427	YA 39426	YA 39411	YA 39410
78	77	62	61	46	45	30	29	14	13
YA 39477	YA 39476	YA 39461	YA 39460	YA 39445	YA 39444	YA 39429	YA 39428	YA 39413	YA 39412
80	79	64	63	48	47	32	31	16	15
YA 39479	YA 39478	YA 39463	YA 39462	YA 39447	YA 39446	YA 39431	YA 39430	YA 39415	YA 39414

**BEN**

**BENNETT CREEK**

+ 63° 45'  
136° 05'

0 1/2 1 MILE

MAYO M.D.  
N.T.S. 115-P-16



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

**CLAIM MAP**  
**BEN I-80**

Scale: 1" = 1/2 mile

Date: 21-3-1980

Plate: BEN 78-2



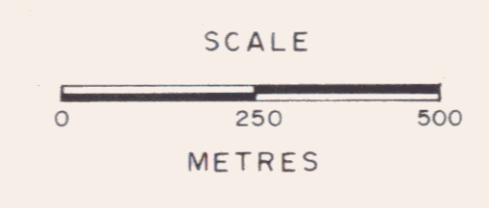
**LEGEND**

- QTZ - FELDSPAR BRECCIA
- QTZ - FELDSPAR PORPHYRY
- QTZ - BIOTITE SCHIST
- QUARTZITE
- QUARTZ VEINS
- Strike and dip
- Outcrop
- Sub-outcrop
- Geological contact
- X VSR 22 Rock sample location site

**ROCK GEOCHEMISTRY**

Sample No.	Cu	Pb	Ag	Au	Mo	W	Sn
VSR 17	11	4	.4	i	2	5	
VSR 22	16	5	.4	10	2	4	20
VSR 28	15	4	.4	24	2	3	20
VSR 29	12	4	.4	10	2	3	20
VSR 31	15	4	.4	20	2	4	20
JJ 9	7	14	.4	10	2	3	20
JJ 12	19	4	0.6	600	2	6	20
JJ 14	12	4	.4	12	2	4	20
JJ 25	14	9	.4	10	2	3	20
JJ 38	264	4	1.1	5600	3	175	42
JJ 41	42	4	.4	24	2	3	20
JJ 42	11	4	.4	22	?	5	20

63° 45'  
136° 05'



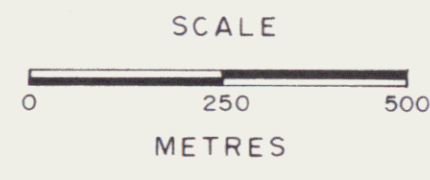
<b>BENNETT CREEK</b>		NTS 115 P/16 MAYO M.D.	<i>VP</i>
Drawn by:	Traced by: DMC	<b>BEN CLAIMS GEOLOGY</b>	
Revised by:	Revised by:	Scale: 1: 10,000	Date: MAR 1980
			Plate: BEN 79-3



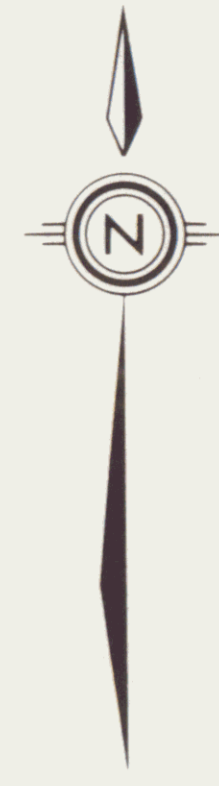
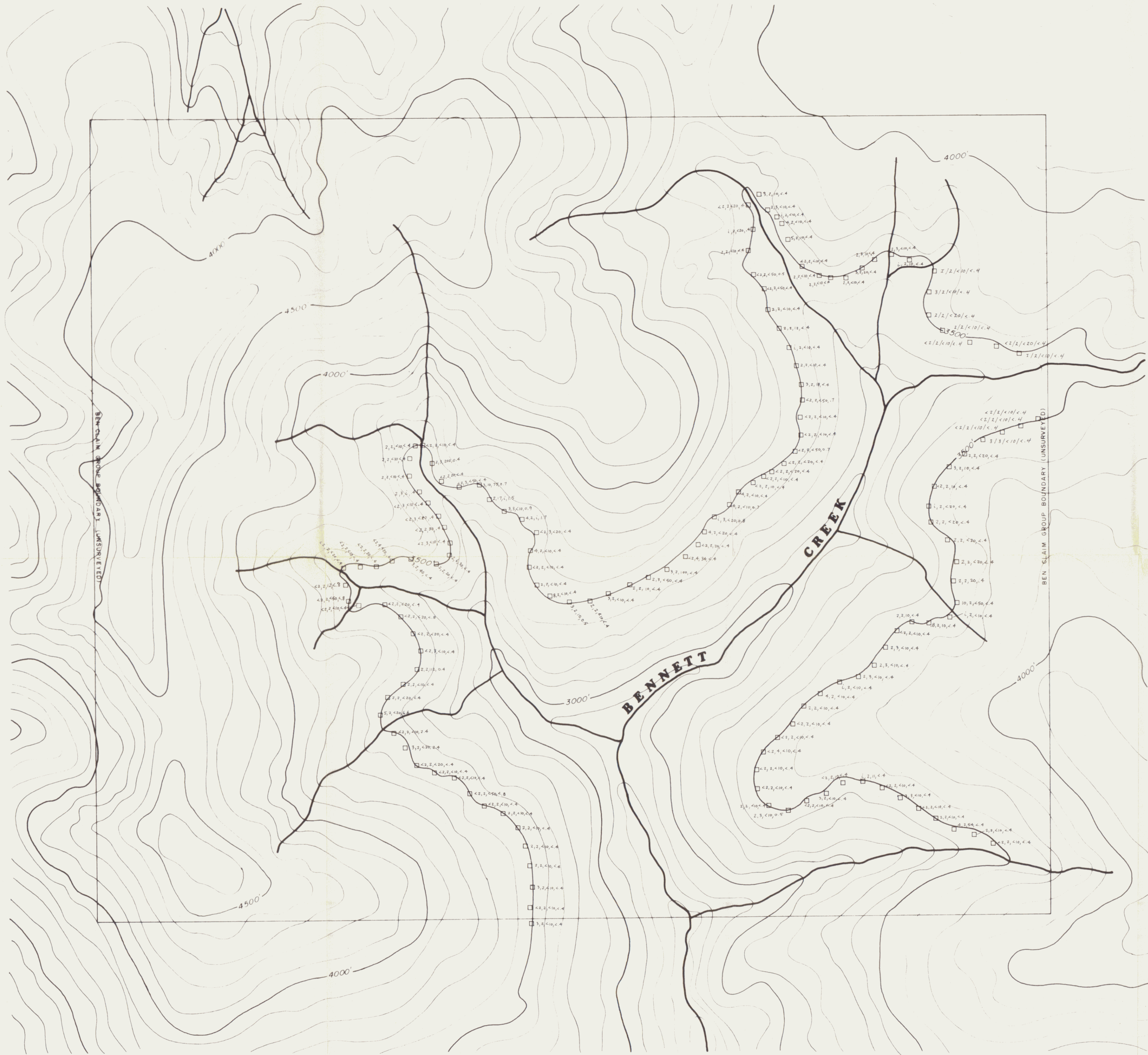
- LEGEND**
- CONTOUR SOIL SAMPLE LOCATION SITE
  - HEAVY MINERAL AND SILT SAMPLE LOCATION SITE
  - S SOIL SAMPLE
  - ST STREAM SILT SAMPLE
  - H HEAVY MINERAL CONCENTRATE

63° 45'

136° 05'



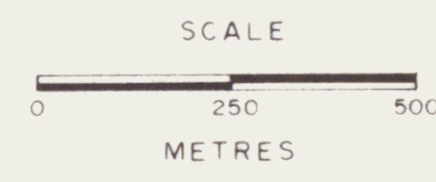
BENNETT CREEK		NTS 115 P/16 MAYO M.D.			
Drawn by:		Traced by:	DMC	<b>BEN CLAIMS SAMPLE LOCATION SITES</b>	
Revised by:	Date	Revised by:	Date		
				Scale: 1: 10,000	Date: MAR 1980
				Plate: BEN 78-4	FORM 210 06/80



**LEGEND**

- CONTOUR SOIL SAMPLE LOCATION SITE
- = Sn, W, Ag, Au in PPB.

136° 05' E 3° 45'



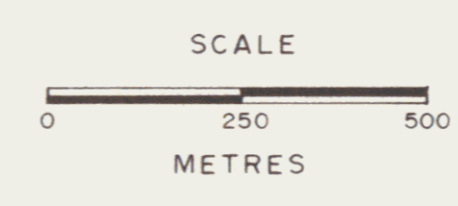
BENNETT CREEK		NTS 1:5 P/16 MAYO M.D.	
Drawn by	Traced by	<b>BEN CLAIMS</b>	
Revised by	Date	CONTOUR SOIL GEOCHEMISTRY	
		Scale: 1:10,000	Date: MAR 1980
		Plate BEN 79-5	



○ HEAVY MINERAL  
SAMPLE LOCATION

Sn	W
As	Ag
ppm	

136° 05'      63° 45'



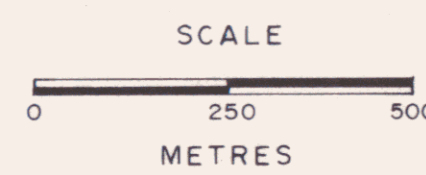
BENNETT CREEK		NTS 115 P/16 MAYO M.D.	
Drawn by:	Traced by: DMC	<b>BEN CLAIMS</b> HEAVY MINERAL GEOCHEMISTRY	
Revised by:    Date:	Revised by:    Date:		
Scale: 1: 10,000		Date: MAR 1980	Plate: BEN 79 - 6



**LEGEND**

- HEAVY MINERAL SAMPLE LOCATION
- |     |    |
|-----|----|
| Cu  | Pb |
| Zn  | Mo |
| ppm |    |

136° 05'      63° 45'



BENNETT CREEK		NTS 115 P/16 MAYO M.D.	
Drawn by:	Traced by: DMC	<b>BEN CLAIMS</b> HEAVY MINERAL GEOCHEMISTRY (Cu, Pb, Zn, Mo)	
Revised by: Date	Revised by: Date		
		Scale: 1: 10,000	Date: MAR 1980
			Plate: BEN 79-7



REPORTING DATE 23 OCT 1979

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BENNETT Cr. - Rock GEOCHEM.

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn(4) ppm
R79 11212	VSR 17	11	<4	<.4	i	2	5	
R79 11213	VSR 22	16	5	<.4	<10	2	4	<20
R79 11214	VSR 28	15	<4	<.4	24	2	3	<20
R79 11215	VSR 29	12	<4	<.4	<10	2	3	<20
R79 11216	VSR 31	15	<4	<.4	20	2	4	<20
R79 11217	JJ 9	7	14	<.4	<10	2	3	<20
R79 11218	JJ 12	19	<4	0.6	600	2	6	<20
R79 11219	JJ 14	12	<4	<.4	12	2	4	<20
R79 11220	JJ 25	14	9	<.4	<10	2	3	<20
R79 11221	JJ 38	264	<4	1.1	5600	3	175	42
R79 11222	JJ 41	42	<4	<.4	24	2	3	<20
R79 11223	JJ 42	11	<4	<.4	22	2	5	<20

Where analysis requested but no values shown, results are to follow

i - insufficient or missing sample

ANALYTICAL METHODS

Au

Aqua regia/solvent extr/AA

W

K2S2O7 fusion/colorimetric

Mo

HN03-HCl04/colorimetric

Cu

Pb

Ag

Aqua regia/AA

Sn(4)

X R F



REPORTING DATE 11 OCT 1979

BENNETT Cr. H.M.C.

PAGE 1

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn(4) ppm
H79 02568	B 1	138	153	304	0.8	28	3	8	<20
H79 02569	B 3	169	217	311	1.4	64	2	10	35
H79 02570	B 5	251	317	428	2.4	180	3	150	89
H79 02571	B 7	130	295	313	1.2	160	3	85	26
H79 02572	B 9	134	285	483	4.4	60	5	20	102
H79 02573	B 11	104	415	318	2.5	250	2	35	67
H79 02574	B 13	166	187	344	1.2	1280	3	40	21
H79 02575	B 15	98	188	250	1.1	25	2	30	35
H79 02576	B17A	119	110	246	0.5	40	5	80	56
H79 02577	B17B	87	94	211	<.4	110	11	60	2263
H79 02578	B17C	95	73	238	<.4	35	4	10	90
H79 02579	B17D	97	206	274	0.9	140	2	35	113
H79 02580	B19A	88	68	245	<.4	10	3	8	23
H79 02581	B19B	82	70	242	<.4	50	3	6	49
H79 02582	B 21	77	97	238	<.4	44	2	10	61
H79 02583	B 23	136	395	450	10.1	240	2	25	116
H79 02584	B 25	140	78	290	<.4	25	3	6	38
H79 02585	B 27	104	62	230	<.4	<10	2	50	92
H79 02586	B 29	100	140	268	1.6	100	3	30	36
H79 02587	B 31	92	180	245	2.9	380	2	20	179
H79 02588	B 33	126	63	284	<.4	<10	3	30	27
H79 02589	B 35	122	152	298	1.8	<25	2	40	29
H79 02590	B 37	102	136	252	1.5	22	3	25	115
H79 02591	B 39	197	357	690	8.0	i	7	6	<20
H79 02592	B 41	102	48	277	<.4	<25	4	4	<20
H79 02593	B 43	52	32	136	<.4	<25	3	15	194
H79 02594	B 45	99	163	268	1.5	220	2	10	151

Where analysis requested but no values shown, results are to follow  
 i - insufficient or missing sample

REPORTING DATE 11 OCT 1979

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## ANALYTICAL METHODS

Au

Aqua regia/solvent extr/AA

W

K2S2O7 fusion/colorimetric

Mo

HNO3-HClO4/colorimetric

Cu

Pb

Zn

Ag

Aqua regia/AA

Sn(4)

X R F

REPORTING DATE 9 SEP 1979

PAGE 1  
BENNETT Cr. - SIIT GEOCHEM.

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn ppm
S79 34394	B 2	30	22	87	<.4	<10	2	3	3
S79 34395	B 4	40	25	70	<2.0	<20	i	3	2
S79 34396	B 6	40	<20	70	<2.0	58	i	4	4
S79 34397	B 8	40	<20	85	<2.0	32	i	3	2
S79 34398	B 10	i	i	i	i	<20	i	4	4
S79 34399	B 12	17	33	59	<.4	<10	2	5	4
S79 34400	B 14	25	<20	65	<2.0	<50	i	6	3
S79 34401	B 16	15	9	44	<.4	<10	2	3	3
S79 34402	B 18A	14	8	40	<.4	<10	2	5	2
S79 34403	B 18B	i	i	i	i	20	i	3	3
S79 34404	B 18C	15	6	46	<.4	<10	2	4	<2
S79 34405	B 18D	18	14	46	<.8	10	2	3	<2
S79 34406	B 20A	14	<8	54	<.8	78	2	2	<2
S79 34407	B 20B	25	<20	75	<2.0	20	i	4	2
S79 34408	B 22	14	10	49	<.4	<10	2	8	2
S79 34409	B 24	i	i	i	i	<20	i	3	15
S79 34410	B 26	14	8	30	<.4	<10	2	3	3
S79 34411	B 28	29	14	65	<.4	<10	2	6	4
S79 34412	B 30	20	<8	60	<.8	8100	i	2	4
S79 34413	B 32	20	12	53	<.4	20	i	3	3
S79 34414	B 34	25	<20	50	<2.0	<10	i	2	4
S79 34415	B 36	19	14	63	<.4	20	2	6	4
S79 34416	B 38	16	11	53	<.4	<10	2	3	4
S79 34417	B 42	14	6	44	<.4	<10	2	2	3
S79 34418	B 44	14	6	41	<.4	<50	2	2	3
S79 34419	B 46	25	30	84	<.4	20	2	3	2

Where analysis requested but no values shown, results are to follow  
i - insufficient or missing sample

REPORTING DATE 9 SEP 1979

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ANALYTICAL METHODS

Cu  
Pb  
Zn  
Ag

20% HNO3/AA

Au

Aqua regia/solvent extr/AA

W

K2S2O7 fusion/colorimetric

Mo

HNO3-HClO4/colorimetric

Sn

Sublimation/AA

## CL DILLERAN TIN RECCE

JOB U79 - OBE S

REPORTING DATE 19 SEP 1979

BENNETT Cr - Soil GEOCHEM PAGE 1

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn ppm
S79 39416	BG 50	7	6	25	<.4	<10	2	2	3
S79 39417	BG 51	14	6	31	<.4	<10	2	2	<2
S79 39418	BG 52	12	8	29	<.4	<10	2	2	3
S79 39419	BG 53	12	5	30	<.4	<10	2	2	2
S79 39420	BG 54	13	5	34	<.4	<10	2	2	2
S79 39421	BG 55	12	6	31	<.4	<10	2	2	2
S79 39422	BG 56	15	8	42	<.4	<10	2	2	2
S79 39423	BG 57	16	6	40	<.4	<10	2	2	<2
S79 39424	BG 58	33	15	30	<.8	<50	2	2	<2
S79 39425	BG 59	22	14	50	<.4	<10	2	2	<2
S79 39426	BG 60	8	6	28	<.4	<10	2	2	<2
S79 39427	BG 61	25	23	87	<.4	<20	2	2	<2
S79 39428	BG 62	27	98	82	<.4	<20	2	2	3
S79 39429	BG 63	15	18	45	<.4	<10	2	2	<2
S79 39430	BG 64	23	250	67	6.6	<20	2	2	5
S79 39431	BG 65	21	24	53	<.4	<20	2	2	2
S79 39432	BG 66	19	18	48	<.4	<10	2	2	2
S79 39433	BG 67	7	9	16	0.4	112	2	2	2
S79 39434	BG 68	8	10	48	<.4	<10	2	3	<2
S79 39435	BG 69	50	13	49	<.4	<20	2	2	<2
S79 39436	BG 70	18	<8	30	<.8	<20	2	2	<2
S79 39437	BG 71	13	7	37	<.4	<20	2	2	<2
S79 39438	BG 72	23	24	48	<.4	<10	2	2	<2
S79 39439	BG 73	32	54	48	<.8	<50	2	2	<2
S79 39440	BG 74	55	50	90	<.8	12	2	2	<2
S79 39441	BG 75	73	34	82	<.4	<20	2	2	<2
S79 39442	BG 76	18	8	43	<.4	<10	2	2	<2
S79 39443	BG 77	12	5	27	<.4	20	2	2	<2
S79 39444	BG 78	10	4	26	0.6	<20	2	4	<2
S79 39445	BG 79	17	4	26	<.4	40	2	2	3
S79 39446	BG 80	13	6	36	<.4	20	2	2	2
S79 39447	BG 81	12	8	38	<.4	30	2	6	2
S79 39448	BG 82	12	5	33	<.4	<10	2	3	<2
S79 39449	BG 83	12	4	29	<.4	30	2	2	<2
S79 39450	BG 84	9	<4	21	<.4	<20	2	3	<2
S79 39451	BG 85	9	<4	18	<.4	<10	2	3	<2
S79 39452	BG 86	18	9	34	<.4	i	2	3	2
S79 39453	BG 87	21	12	50	<.4	<10	2	2	2
S79 39454	BG 88	13	13	42	<.4	<10	2	2	2

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## SOIL GEOCHEM

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn ppm
S79 39455	BG 89	10	9	24	<.4	<10	2	2	2
S79 39456	BG 90	18	6	39	<.4	<10	2	2	<2
S79 39457	BG 91	14	13	24	.4	202	2	3	2
S79 39458	BG 92	15	5	31	<.4	20	2	2	<2
S79 39459	BG 93	7	<4	14	<.4	<50	2	3	<2
S79 39460	BG 94	31	83	54	.7	75	2	10	3
S79 39461	BG 95	43	62	53	1.5	i	2	17	2
S79 39462	BG 96	13	35	50	.9	<10	2	3	3
S79 39463	BG 97	32	58	76	1.7	i	2	2	4
S79 39464	BG 98	9	19	28	<.4	<20	2	3	<2
S79 39465	BG 99	6	9	25	<.4	<10	2	2	4
S79 39466	BG 100	9	13	31	<.4	<10	2	2	<2
S79 39467	BG 101	8	6	33	<.4	<10	2	2	2
S79 39468	BG 102	12	33	39	<.4	<10	2	2	8
S79 39469	BG 103	22	54	59	.5	10	2	2	3
S79 39470	BG 104	9	6	27	<.4	<10	2	2	2
S79 39471	BG 105	10	7	31	<.4	<10	2	2	3
S79 39472	BG 106	10	6	32	<.4	10	2	2	2
S79 39473	BG 107	12	11	44	<.4	<50	2	3	2
S79 39474	BG 108	15	10	38	<.4	100	2	2	3
S79 39475	BG 109	10	16	22	<.4	34	2	4	<2
S79 39476	BG 110	12	34	47	<.4	20	2	2	<2
S79 39477	BG 111	8	8	24	<.4	<20	2	2	4
S79 39478	BG 112	12	14	29	.8	<20	3	3	i
S79 39479	BG 113	23	25	59	.7	<10	2	2	4
S79 39480	BG 114	6	10	37	<.4	<10	2	2	4
S79 39481	BG 115	10	7	28	<.4	10	2	2	<2
S79 39482	BG 116	8	8	24	<.4	<10	2	2	<2
S79 39483	BG 117	29	15	61	<.4	<10	2	2	i
S79 39484	BG 118	25	13	56	<.4	10	2	2	8
S79 39485	BG 119	20	12	46	<.4	10	2	2	2
S79 39486	BG 120	21	9	52	<.4	<10	2	2	<2
S79 39487	BG 121	18	7	42	<.4	<10	2	3	2
S79 39488	BG 122	15	5	40	<.4	<10	2	3	2
S79 39489	BG 123	17	8	45	<.4	<10	2	3	<2
S79 39490	BG 124	22	10	53	<.4	<10	2	2	i
S79 39491	BG 125	15	8	34	<.4	<10	2	2	4
S79 39492	BG 126	11	9	46	<.4	<10	2	2	2
S79 39493	BG 127	8	10	28	<.4	<10	2	2	<2

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## Soil GEOCHEM.

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn ppm
S79 39494	BG 128	5	5	14	<.4	<10	2	2	<2
S79 39495	BG 129	13	6	41	<.4	<10	2	4	<2
S79 39496	BG 130	10	8	30	<.4	<10	2	2	<2
S79 39497	BG 131	9	7	31	<.4	<10	2	2	<2
S79 39498	BG 132	9	9	29	<.4	<10	2	2	2
S79 39499	BG 133	10	12	35	0.5	<10	2	3	2
S79 39500	BG 134	10	7	33	<.4	<10	2	2	<2
S79 39501	BG 135	13	8	32	<.4	<10	2	2	3
S79 39502	BG 136	10	7	35	<.4	10	2	2	<2
S79 39503	BG 137	10	29	141	<.4	11	2	2	1
S79 39504	BG 138	13	5	34	<.4	<10	2	2	<2
S79 39505	BG 139	6	4	28	<.4	<10	2	3	3
S79 39506	BG 140	14	6	37	<.4	<10	2	2	<2
S79 39507	BG 141	14	7	40	<.4	<10	2	2	2
S79 39508	BG 142	16	9	48	<.4	54	2	2	4
S79 39509	BG 143	18	8	45	<.4	<10	2	2	2
S79 39510	BG 144	12	7	37	<.4	<10	2	2	<2
S79 39511	J 1	15	9	45	<.4	<50	2	2	10
S79 39512	J 2	16	18	62	0.4	20	2	2	2
S79 39513	J 3	18	11	40	<.4	<20	3	2	2
S79 39514	J 4	16	6	46	<.4	<20	2	2	2
S79 39515	J 5	15	7	24	<.4	<20	6	2	2
S79 39516	J 6	23	13	47	<.4	<20	2	2	1
S79 39517	J 7	16	7	40	<.4	10	2	2	<2
S79 39518	J 8	17	7	44	<.4	10	2	2	3
S79 39519	J 9	18	7	66	<.4	<20	2	2	2
S79 39520	J 10	19	10	69	<.4	<10	2	3	3
S79 39521	J 11	26	8	60	<.4	<10	2	2	<2
S79 39522	J 12	21	8	58	<.4	<10	2	2	<2
S79 39523	J 13	14	4	50	<.4	<10	2	2	<2
S79 39524	J 14	10	5	25	<.4	<10	2	2	1
S79 39525	J 15	19	9	54	<.4	<20	2	2	<2
S79 39526	J 16	33	10	77	<.4	<10	2	2	<2
S79 39527	J 17	10	5	35	<.4	<10	2	2	2
S79 39528	J 18	10	21	28	<.4	<20	2	2	2
S79 39529	J 19	7	5	25	<.4	<10	2	2	3
S79 39530	J 20	15	40	61	<.4	<10	2	2	2
S79 39531	J 21	10	8	43	<.4	10	2	2	1
S79 39532	J 22	6	6	45	<.4	<10	2	3	<2

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Soil Geochem.

SAMPLE NUMBER	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	W ppm	Sn ppm
S79 39533	J 23	1	<4	9	<.4	10	2	3	2
S79 39534	J 24	4	4	20	<.4	20	2	2	3
S79 39535	J 25	10	11	36	<.4	<10	2	2	2
S79 39536	J 26	22	12	57	<.4	<10	2	2	2
S79 39537	J 27	25	36	58	<.4	<10	2	2	2
S79 39538	J 28	8	9	15	<.4	<10	3	2	<2
S79 39539	J 29	6	7	19	<.4	10	2	2	5
S79 39540	J 30	8	10	22	<.4	<10	2	2	4
S79 39541	J 31	17	16	13	<.4	<10	3	2	1
S79 39542	J 32	8	7	31	<.4	<10	2	3	2
S79 39543	J 33	24	21	57	<.4	10	2	2	3
S79 39544	J 34	15	10	26	<.4	<20	2	2	<2
S79 39545	J 35	14	6	9	<.4	<20	2	2	1
S79 39546	J 36	10	5	7	<.4	<10	2	2	2
S79 39547	J 37	15	16	32	0.5	<50	2	2	<2
S79 39548	J 38	10	7	9	<.4	<50	2	2	<2
S79 39549	J 39	12	7	30	<.4	<10	2	2	2
S79 39550	J 40	15	7	39	<.4	12	2	2	2
S79 39551	J 41	20	7	54	<.4	<10	2	2	1
S79 39552	J 42	23	8	54	<.4	<10	2	2	2
S79 39553	J 43	24	10	46	<.4	18	2	2	3
S79 39554	J 44	26	20	67	.7	<50	2	2	<2
S79 39555	J 45	16	10	43	<.4	<10	2	2	<2
S79 39556	J 46	10	10	20	<.4	<10	3	2	<2
S79 39557	J 47	19	13	18	.7	<50	2	2	<2
S79 39558	J 48	13	11	18	<.4	<20	3	2	<2
S79 39559	J 49(1)	13	10	15	<.4	<20	3	2	<2
S79 39560	J 49(2)	10	9	10	<.4		2	2	<2

Where analysis requested but no values shown, results are to follow  
i - insufficient or missing sample