



GEOLOGICAL AND GEOCHEMICAL REPORT ON THE
CLIP GROUP OF MINERAL CLAIMS SITUATED AT
140°25' LONGITUDE; 64°14' LATITUDE
DAWSON M.D., YUKON TERRITORY
Work Performed: June 9-18, 1979



090491

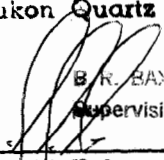
JULY 1979

E.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 \$ 4,000.00

A/ J A Morin
Resident Geologist or
Resident Mining Engineer

Considered as representation work under
Section 52 (4) Yukon Quartz Mining Act.


B. R. BAXTER
Supervising Mining Recorder

Per Commissioner of Yukon Territory

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COMINCO LTD.

EXPLORATION
NTS: 116/C-1

WESTERN DISTRICT
25 JULY 1979

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CLIP GROUP OF MINERAL CLAIMS SITUATED AT
140°25' LONGITUDE; 64°14' LATITUDE
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Located claims on which assessment credit are requested:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>	<u>ASSESSMENT CREDIT</u>	<u>AMOUNT</u>
Clip 1	YA 31481	July 31/78	4	\$ 400
Clip 2	YA 31482	July 31/78	4	400
Clip 3	YA 31483	July 31/78	4	400
Clip 4	YA 31484	July 31/78	4	400
Clip 5	YA 31485	July 31/78	4	400
Clip 6	YA 31486	July 31/78	4	400
Clip 7	YA 31487	July 31/78	4	400
Clip 8	YA 31488	July 31/78	4	400
Clip 9	YA 31489	July 31/78	4	400
Clip 10	YA 31490	July 31/78	4	400
			<u>40 credit yrs.</u>	<u>\$4,000</u>

Work was done on these claims between June 9 - June 18th, 1979.

Report by: 

E.G. OLFERT
B.Sc. Hon.

under the supervision of Roy Y. Watanabe, Senior Geologist.

COMINCO LTD.

EXPLORATION
NTS: 116/C-1

WESTERN DISTRICT
25 JULY 1979

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CLIP GROUP OF MINERAL CLAIMS SITUATED AT
140°25' LONGITUDE; 64°14' LATITUDE
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INTRODUCTION

The Clip claims were staked in July 1978 to cover an area containing stratiform sphalerite mineralization in talus float. The region contains a package of graphitic quartzites and phyllites of probable Ordovician/Silurian age.

This report is based mainly on field studies made between June 9-18, 1979 however some field work was conducted by Cominco personnel during August of 1978. The aim of this program was to define the size of the mineralized area by detailed prospecting and soil geochemistry.

Personnel employed during the course of this study include:

E.G. Olfert - June 12-18, 1979 - 409 Granville St., Vancouver, B.C.
A. Wilkins - June 12-18, 1979 - 409 Granville St., Vancouver, B.C.

LOCATION AND ACCESS

The Clip claims are located 55 km northwest of Dawson City, Yukon at the head of Brun Creek.

The claims lie within the Dawson Mining Division and are located at 140°25' west longitude and 64°14' north latitude.

Access is by helicopter from Dawson City. The claims are situated approximately 3 km southwest of the gravel road to Clinton Creek.

SUMMARY

Assessment work conducted on the claim group includes: linecutting, soil sampling, mapping and prospecting. The main area of interest has been soil sampled at 25 metre sample intervals and mapped on a scale of 1:2,500. Mapping and prospecting has outlined two areas of talus slope mineralization: Zone A contains float occurrences of thin banded sphalerite, barite and minor pyrite, Zone B occurs approximately 300 metres west of Zone A and contains thin bands and stringers of galena in quartzite talus float. Geochemistry has outlined a significant Zn anomalous area approximately 500-600 m long and 50-100 m wide which includes the areas where visible Pb/Zn mineralization were found. The Pb geochemical results indicate a number of anomalies coinciding with the Zn anomalous area.

GEOLOGY

The claims are underlain by a thick sequence of highly deformed carbonaceous quartzites and phyllites of the Nasina group. The stratigraphic sequence is not clearly understood because of the structural complexities, lack of fossils and lack of outcrop.

A massive micaceous marble, which is overlain by a sequence of slates, quartz-biotite-muscovite-quartzites and a greenstone unit (amphibolite-garnet-schist) is thought to form the lowest member of the Nasina, and occurs approximately 2 km downstream from the northwest end of the claim group.

The rock units on the grid section of the claim group are thought to occur in the mid-section of the Nasina group. The units on the west half of the grid consists of a banded white and grey marble, a siliceous white quartzite, garnet schist and grey micaceous quartzites. The overlying units on the east half of the grid appear to be distinctly different consisting of grey and buff micaceous quartzites, which host the known mineralization.

Structurally this region has been intensely folded (up to 3 stages). The first phase is predominant and consists of northwest trending recumbent anticlines and synclines that are overturned to the northeast. The rock units on the claim group generally strike 120-150° with steep dips to the west. Minor folds indicate plunges to the southeast. A linear trend along the main stream channel is indicative of a fault. The contrast in stratigraphy between the east and west ends of the grid area indicate a block fault along line 2+00E.

MINERALIZATION

The mineralization consists predominantly of thin stratiform bands of dark brown sphalerite hosted in a buff micaceous quartzite interbedded with dark grey carbonaceous quartzite. Minor sphalerite was also found hosted in the dark quartzite. The main area of mineralization, Zone A, consists of a slumped talus zone on the south side of the creek covering an area approximately 50 m x 120 m. Other types of mineralization in this talus zone include samples containing minor barite lenses, disseminated pale coloured sphalerite and pyrite, and disseminated galena.

Several samples from this zone were submitted for analysis:

- (a) white buff micaceous quartzite with streaks of sphalerite
4.5% Zn, 1.15% Ba
- (b) buff siliceous quartzite with pale coloured sphalerite
2.0% Zn, 11.41% Ba
- (c) dark grey quartzite with dark brown sphalerite
9.2% Zn, 1.17% Ba

At one location above Zone A a 6" band of buff micaceous mineralized quartzite was found in outcrop. Rock geochemistry of this quartzite returned 325 ppm Pb and 3,450 ppm Zn.

Thin banded stringers of galena mineralization hosted in buff micaceous quartzites was found about 300 m west of Zone A (Zone B). The mineralized float occurs as scattered individual samples in a slumped talus slide. Elsewhere only a few pieces of the same buff micaceous host rock quartzite was found between Zone A and B and to the east of Zone B. In addition one outcrop sample of disseminated Po in a dark micaceous quartzite located in the creek near line 0+00 returned 900 ppm Pb and 40 ppm Zn.

A large portion of the rest of the claim group is moss and bush covered except for minor talus patches and outcrops along the creek. No other sulphide mineralization has been found to date on the claim group.

GEOCHEMISTRY

Approximately 220 soil samples, 5 silt samples and 15 rock samples were collected and analysed for Pb, Zn. In addition some of the results of the 1978 soil sampling program have been shown on the maps.

The silt sample taken at the downstream end of the main area of interest is weakly anomalous in Zn compared to the other stream silts. The soil sample results indicate a broadly anomalous area in Zn, which corresponds to the area where visible Pb/Zn sulphides were found in talus float. This zone extends approximately 500-600 metres along the strike of the rocks and is variable in width up to 150 m. Values above 150 ppm Zn have been defined as anomalous. The Pb values in the soils indicate a number of smaller anomalies which correspond to the Zn anomalous area. Values above 50 ppm Pb have been defined as anomalous. The highest Pb value occurs on line 3+00E containing 3,140 ppm Pb.

INTERPRETATION OF RESULTS

The main area of interest is between line 3+00E and line 8+00E north of the baseline containing: Pb/Zn barite mineralized float, a continuous Zn geochemical anomaly and a number of more localized Pb geochemical anomalies. The angular nature of the talus and the outcrop of the host rock quartzite at 7+10E, 0+10S indicate that the mineralization is nearly in place. The most favourable location to find subcrop sulphides would be along the southern up-slope margin of the Zn geochemical anomaly.

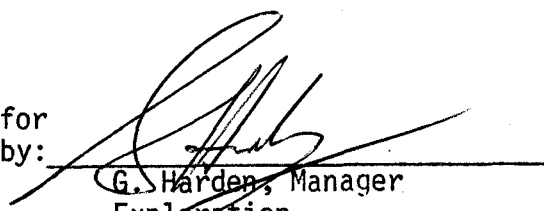
The area of interest is bounded geographically on three sides by creeks which are thought to represent linears along which block faulting has occurred, cutting off the mineralized zone. A southeast plunging fold may also explain the termination of the anomalous area at the east end.

Report by: E.G. Olfert
Geologist

EGO/gk

Attachments:

1. Location Map
2. Claim Map 1"=½ mile
3. Geology Map 1:2,500
4. Pb Geochemistry 1:2,500
5. Zn Geochemistry 1:2,500

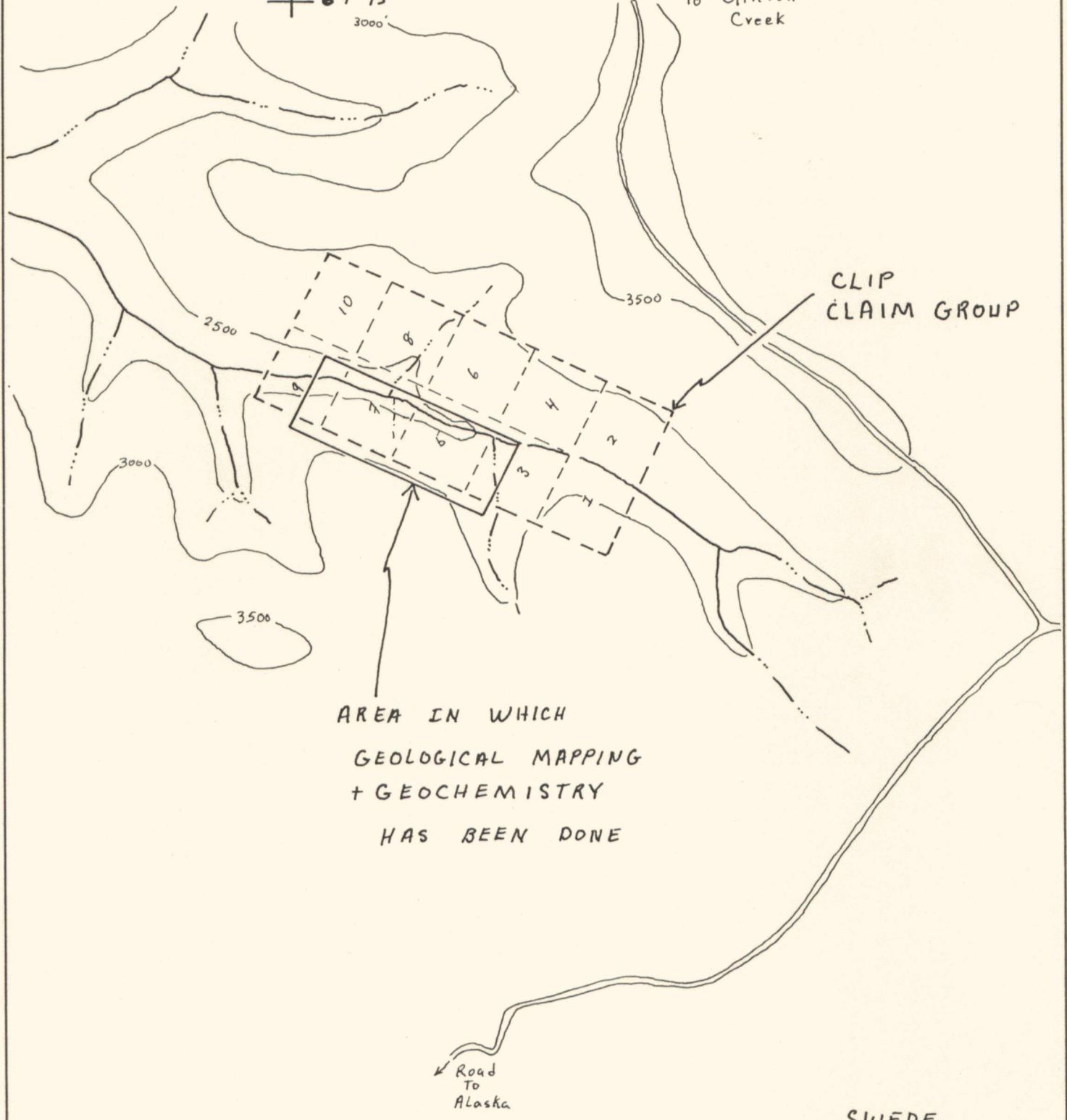
Endorsed by: R.Y. Watanabe
Senior GeologistApproved for
Release by: G. Harden, Manager
Exploration
Western District



140° 25'
+ 64° 15'
3000'

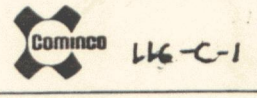
Road
To Clinton
Creek

CLIP
CLAIM GROUP



AREA IN WHICH
GEOLOGICAL MAPPING
+ GEOCHEMISTRY
HAS BEEN DONE

SWEDE
DOME
Δ
4157
4000



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

CLIP CLAIM GROUP

Scale: 1" = 1/2 mi

Date: July 1979

Plate:

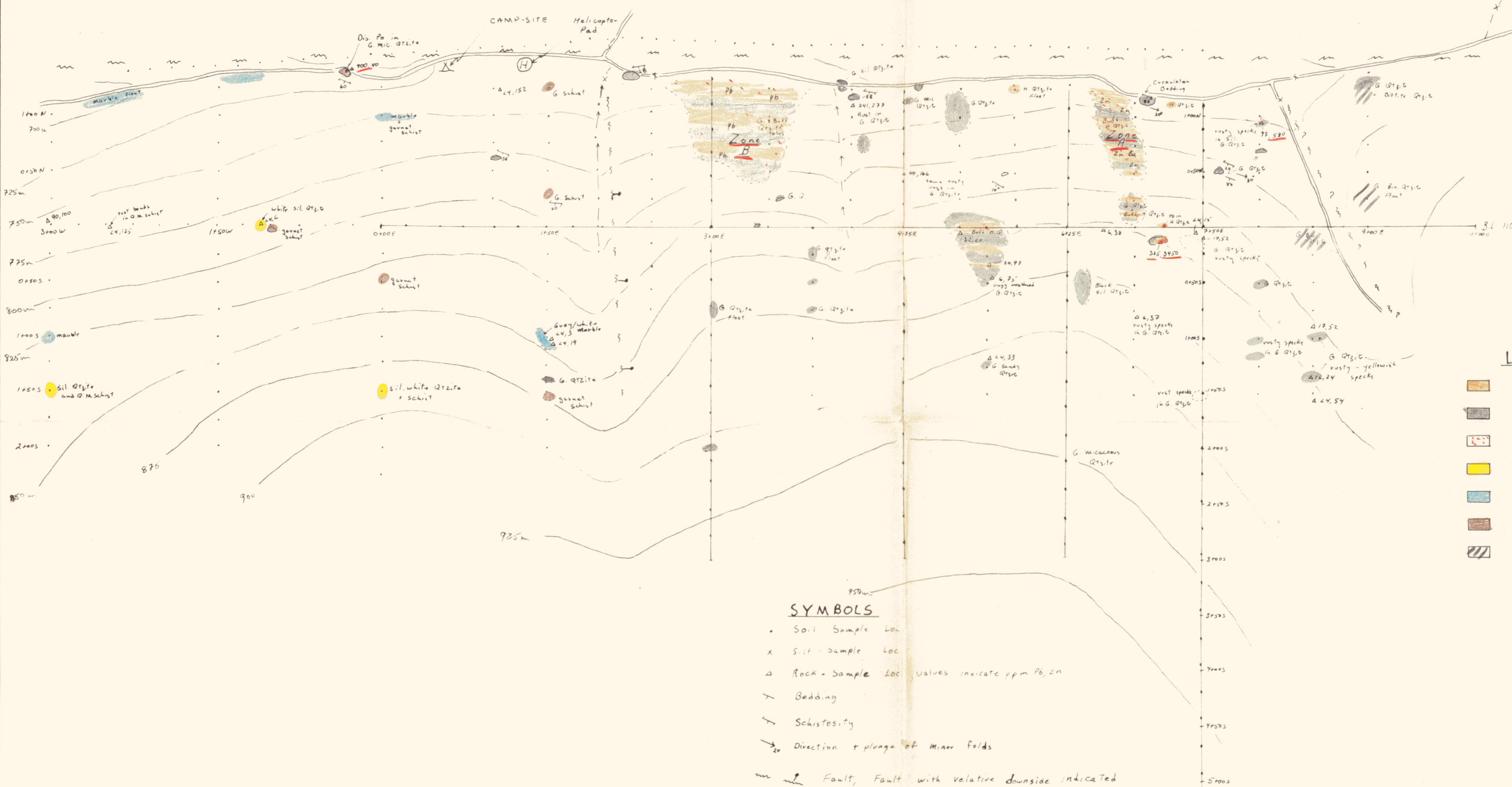
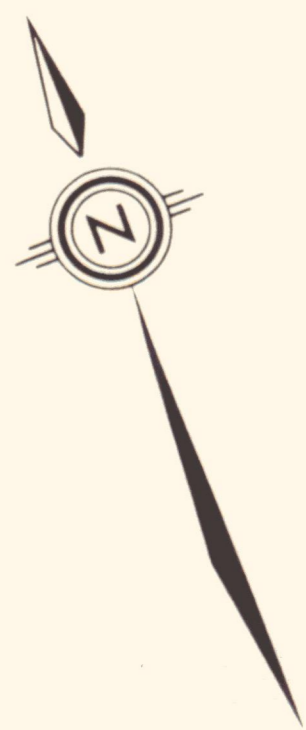


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Revised by	Date	Revised by	Date

LOCATION MAP

CLIP CLAIMS

Scale: 1" = 32 Miles Date: Plate:



LEGEND

	Buff-micaceous Host-rock Quartzite
	Grey-Quartzite - sometimes Mineralized
	Pb/Zn & Galena, Sphalerite, Barite
	Siliceous Barren white Quartzite
	Grey and white Marble
	Garnet Schist
	Grey-Biotite Quartzite

- SYMBOLS**
- Soil Sample Loc
 - x Sit - Sample Loc
 - △ Rock - Sample Loc values indicate ppm Pb, Zn
 - Bedding
 - ↗ Schistosity
 - ↘ Direction + plunge of minor folds
 - Fault, Fault with relative downside indicated
 - Talus patch, outcrop

N.T.S. 116-C-1

CLIP CLAIMS		
Drawn by:	Traced by:	GEOLOGY
Revised by:	Revised by: _____ Date: _____	
		Scale: 1:2,500
		Date: July 1979
		Plate: _____



LEGEND

- Red shaded area — >150 ppm Zn
- Green shaded area — 100-50 ppm Zn

Samples Taken in 1978

- 100-50 ppm Zn
- + <100 ppm Zn

--- Cut-Line

x - S/L - sample location

N.T.S. 116-C-1



Drawn by: <i>[Signature]</i>	Traced by:	Clip Clams - Soil Geochemistry Zn (ppm)	Scale: 1:2500	Date: July 14/79	Plate:
Revised by:	Revised by Date				