

80-#412-# 8180

GEOCHEMICAL REPORT

on the

POISON CLAIM GROUPS

for

MAHOGANY MINING COMPANY LTD

920/2E

July 26, 1980
Vancouver, B.C.

E.D. CRUZ, P. Eng
Consulting Engineer

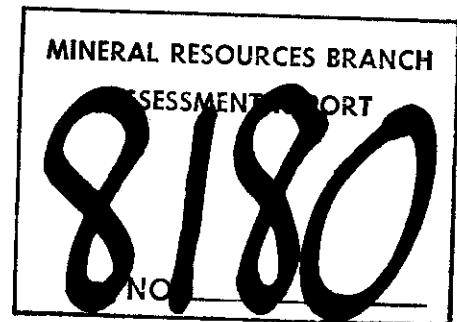
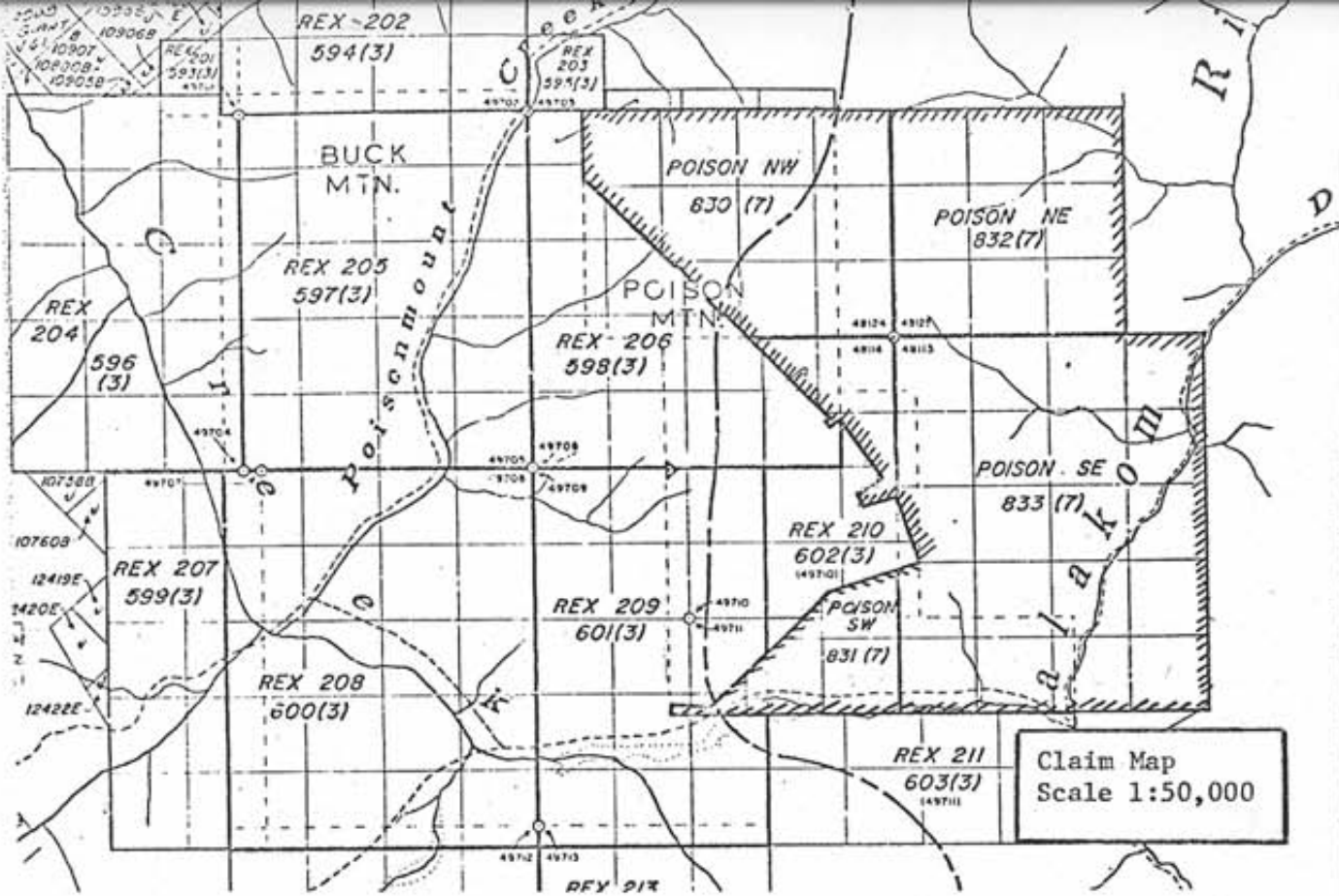
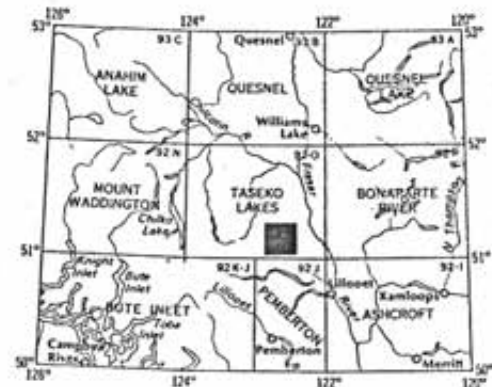


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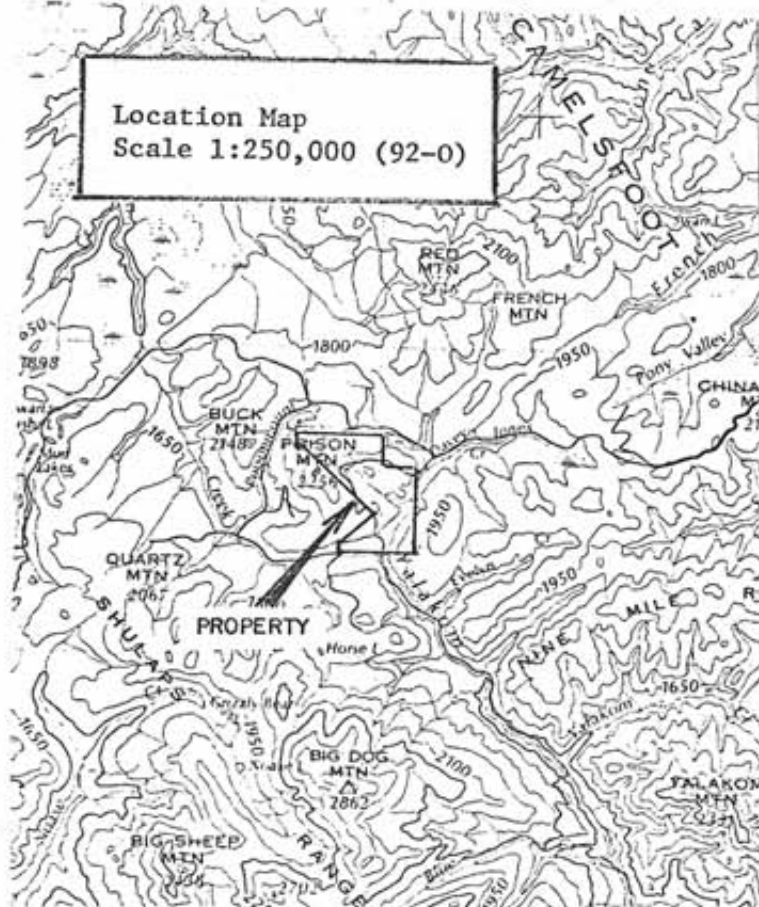
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TASEKO LAKES, B. C.
MAP 92-0
 THIRD STATUS EDITION—
 JULY 1979



MAHOGANY MINING COMPANY LTD.

LOCATION AND CLAIM MAP

**POISON NORTH & SOUTH
 MINERAL CLAIM GROUPS**
 Lillooet M.D.

JULY 20, 1980

INTRODUCTION:

This report describes the geochemical exploration programme performed on the Poison Mineral Claim groups on June 15 to June 24, 1980 and July 1-12, 1980. Fieldwork was conducted by a crew of two men under the direct supervision of the writer.

This report was written in compliance with the British Columbia Department of Mines and Petroleum Resources requirement for assessment purposes.

LOCATION AND ACCESS:

The Poison claim groups are on Poison Mountain situated near the headwaters of Churn Creek and Yalakom river, about 68 kilometers northwest of Lillooet. Approximate coordinate is: $50^{\circ} 08'$ North Latitude and $122^{\circ} 35'$ East Longitude.

Access from Lillooet is via the Yalakom river road with a total distance of approximately 75 kilometers.

PHYSIOGRAPHY:

Topography is moderate with elevations ranging from 1700 meters on Churn Creek rising to about 2200 meters on the summit of Poison Mountain. Trees abound along valleys and slopes below 2000 meters elevation. The hills are bare and rock outcrops are abundant.

The area is drained by the Yalakom river and its tributaries on the east, by Churn Creek and Poisonmount Creek on the south and west respectively.

PROPERTY:

The mineral property comprised of two claim groups namely Poison North and Poison South of 21 and 35 units respectively. Details of the claims are as follows:

<u>Name of Claims</u>	<u>Record Nos.</u>	<u>Expiry Dates</u>
A. Poison North Group		
Poison NE	832	June 29, 1980
Poison NW	830	June 29, 1980
B. Poison South Group		
Poison SE	833	June 29, 1980
Poison SW	831	June 29, 1980

GENERAL GEOLOGY:

The claim area and vicinity is underlain predominantly by a sedimentary sequence of interbedded grewacke, siltstone, argillite and conglomerate of Jurassic - Cretaceous age. This sequence is intruded by feldspar porphyry stock of monzonitic composition. The biotite quartz monzonite phase of this stock is reportedly the host rock of the adjacent porphyry copper deposit of Long Lac Minerals Exploration Ltd.

SURVEY SPECIFICATIONS:

(a) Survey Grid:

The survey grid consist of two centrally located E.W. baselines, 1200 meters apart, from which N-S crosslines were established at 200 - meter intervals. Stations were marked every 50 and 100 meters where soil samples

were collected. The entire grid, which cover most of the claims, consisted of a total of 43 line kilometers from which a total 594 soil samples were collected.

(b) Geochemistry:

Soil samples from the enriched B - horizon, when present, were obtained by mattock and placed in soil bags. Samples were delivered to Min - En Laboratories in N. Vancouver where they were seived to minus 80 mesh, digested by nitric perchloric acid and analysed for copper and lead by atomic absorption.

DISCUSSION OF RESULTS:

The geochemical data are presented on the accompanying geochemical map.

Statistical analysis of the sample data using arithmetic probability plot showed background of 40 ppm. copper. Background population represent about 96 percent of the total samples and the remaining 4 percent are considered anomalous.

Several discrete anomalous areas of limited size were delineated. They appear to be confined in the lower areas forming an annular trend possibly reflecting windows or near surface mineralized intrusive underneath sedimentary capping.

CONCLUSION AND RECOMMENDATIONS:

The potential of this property for porphyry type copper deposit lie on the possible occurrence of mineralized intrusive stock underneath the sedimentary capping. The presence of abundant coarse feldspar porphyry dykings, referred to at the Long Lac's property as East prophyry, in the Poison Claim group suggest the possibility that somewhere underneath the sediments, a mineralized phase of this intrusive may exist.

The discontinuous strings of anomalous areas forming an annular trends is quite significant, possibly reflecting near surface or windows of mineralized intrusive the cappings of which had been partly eroded away.

Induced polarization survey of at least ten line kilometers to cover the southern one third of the grid is recommended.

EXPENSES

June 15 - 24

Wages

R. Kregoski, Geologist	
10 days @ 150.00/day	\$1,500.00
K. Sky, Helper	
10 days @ 85.00/day	850.00
E.D. Cruz, P. Eng	
6 days @ 200.00/day	1,200.00
Transportation - Rental plus gas	600.00
Meals & Accomodations	600.00
Supplies	75.00
Geochem Analyses 250 Samples @ 3.10/Sample	<u>775.00</u>
	\$5,600.00

EXPENSES

July 1 - 10, 1980

Wages

R. Kregoski, Geologist

10 days @ \$150.00/day \$1,500.00

K. Sky, Helper

10 days @ \$85.00/day 850.00

Transportation - Vehicle Rental plus gas 600.00

Meals & Accomodations 600.00

Supplies 50.00

Geochem Analyses - 344 Samples @ 3.10/Sample 1,066.40

Report Preparation 1,200.00

\$5,866.40

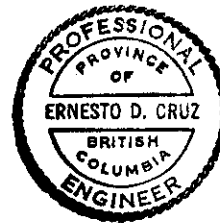
CERTIFICATE

I, Ernesto D. Cruz, DO HEREBY CERTIFY AS FOLLOWS:

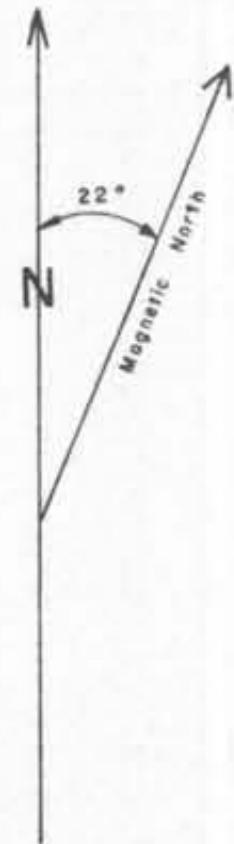
1. That I am a consulting mining engineer-geologist and reside at 7734 Garrett Drive, Delta, B.C.
2. That I am a graduate mining engineer of Mapua Institute of Technology, Philippines (BSEM), Missouri School of Mines and University of Washington (MSEM).
3. That I have been engaged in mineral exploration for the past nineteen years (6 years in the Philippines, 13 years in North America).
4. That I am registered with the Association of Professional Engineers of British Columbia.

Vancouver, B.C.

July 25, 1980

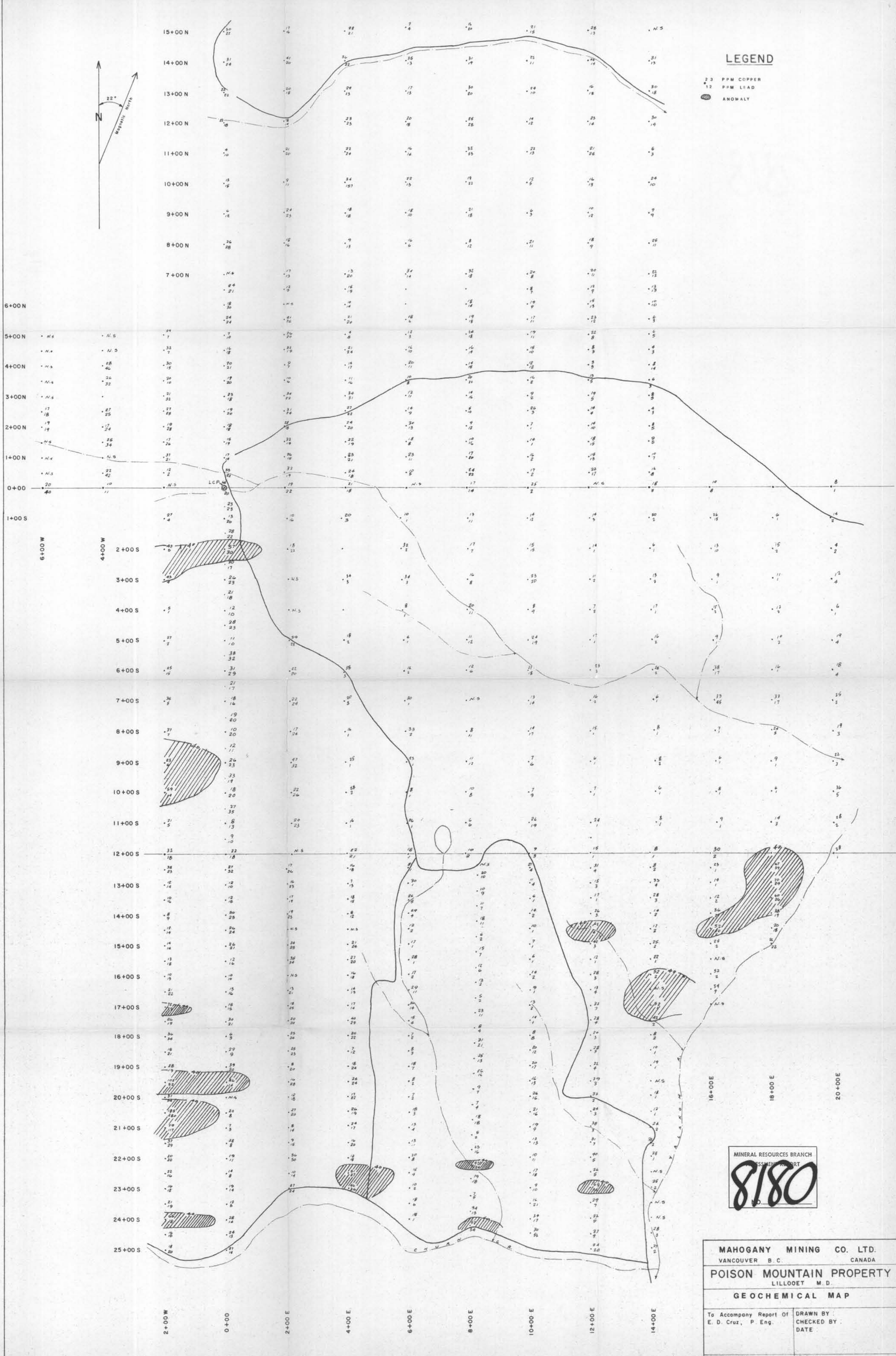


E. D. Cruz
E.D. CRUZ, P.Eng.
Consulting Engineer



LEGEND

- 23 PPM COPPER
- 12 PPM LEAD
- ANOMALY



MINERAL RESOURCES BRANCH
 ESSMONT REPORT
8180

MAHOGANY MINING CO. LTD. VANCOUVER B.C. CANADA	
POISON MOUNTAIN PROPERTY LILLOOET M.D.	
GEOCHEMICAL MAP	
To Accompany Report Of E. D. Cruz, P. Eng.	DRAWN BY : CHECKED BY : DATE :
SCALE: 1:5000	FIG. No.