

LOG NO: <i>May 21/91</i>	RD.
ACTION:	
FILE NO:	

GEOLOGICAL, AND GEOCHEMICAL

ASSESSMENT REPORT

ON

THE MISTY GROUP I AND II

(MISTY 1 TO 11 CLAIMS)

DUCKLING CREEK AREA  
OMINECA MINING DIVISION  
BRITISH COLUMBIA

125 32 W / 55 55 N

N.T.S. 93N / 13E

SUB-RECORDER  
RECEIVED  
  
MAY - 9 1991  
  
M.R.# \_\_\_\_\_ \$ \_\_\_\_\_  
VANCOUVER B.C.

FOR

ARANLEE RESOURCES LTD.  
548 Beatty street  
Vancouver, B.C.  
V6B 2L3

By

NOEL F. O' KEEFFE , B.Sc.

KOENRAAD M. VERBRUGGEN , M.Sc.

BURMIN RESOURCES LTD.  
548 Beatty Street  
Vancouver, B.C.  
V6B 2L3

November 14, 1990  
Vancouver, B.C.

Field work between August 2 and August 11, 1990

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,307

## TABLE OF CONTENTS

	Page
List of Maps and Tables	i
Summary	ii
Introduction	1
Location and Access	2
Physiography	3
Property status and ownership	4
Exploration History	6
Regional Geological Setting	8
Property Geology	9
Mineralisation	10
Field procedures	11
Discussion of results	12
a) Rock sampling	12
b) Soil sampling	14
Conclusions and Reccomendations	16
Proposed Budget	17
References	18

## APPENDICES

- 1 Statements of Qualification.
- 2 Statement of Costs of 1990 Exploration Programme.
- 3 Exploration Personnel and Dates worked.
- 4 Rock Sample Descriptions.
5. Assay Certificates and Analytical Procedures.

## LIST OF MAPS AND TABLES

<u>Figure</u>	<u>Title</u>	<u>Scale</u>	<u>Following Page</u>
1	General Location Map	1:10,000,000	1
2	Regional Location Map	1: 250,000	2
3	Claim Map	1: 50,000	4
4	Regional Geological Setting	1: 500,000	8
5	Soil Geochem. Frequency Histogram		14
6	Soil Geochem. Correlation Plot of Au. versus Cu Pb Zn.		15
7	Property Geology	1: 10,000	Backpocket
8	Rock , Soil and Stream Geochemistry	1: 10,000	Backpocket

## Tables

<u>Table</u>	<u>Title</u>	<u>Page</u>
1	Claim status	4

SUMMARY

1. The Misty claims are located approximately 165 km's northeast of Smithers, B.C.
2. The property consists of 11 claims held wholly by Aranlee Resources Ltd. of Vancouver.
3. Access to the property is by highway and logging road from Prince George. Access within the property is by helicopter available from Fort St. James or Mackenzie.
4. The claims are underlain by alkali intrusives of the Duckling Syenite Complex. A 3 million ton copper deposit grading 0.63% Cu outlined by El Paso Mining and Milling Company in the early seventies occurs within the property.
5. During August 1990, an eight day geological, lithogeochemical and prospecting program was carried out over parts of the property, to ascertain the precious metal potential of the area. This was a follow up to a similar type program in 1989.
6. Significant results obtained include values up to 6.8 g/t (0.19 oz/t) Au, 7.34 oz/t Ag and 22.3% Cu in float samples. Maximum values in outcrop were from a showing discovered during last years program, with one sample assaying 0.119 oz/t Au, 7.79 oz/t Ag, >1% Pb and >1% Zn.
7. A follow up program of mapping, rock and soil sampling and geophysical surveys is proposed.

## INTRODUCTION.

This report details the 1990 exploration programme on Aranlee's Misty mineral claims in the Omineca Mining Division, B.C.. The program was a development of that outlined by O'Keefe and Shearer, 1990 (Assessment Report) and sought to further evaluate the precious metal potential of the property.

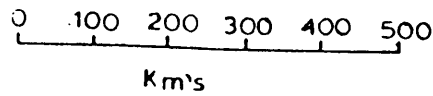
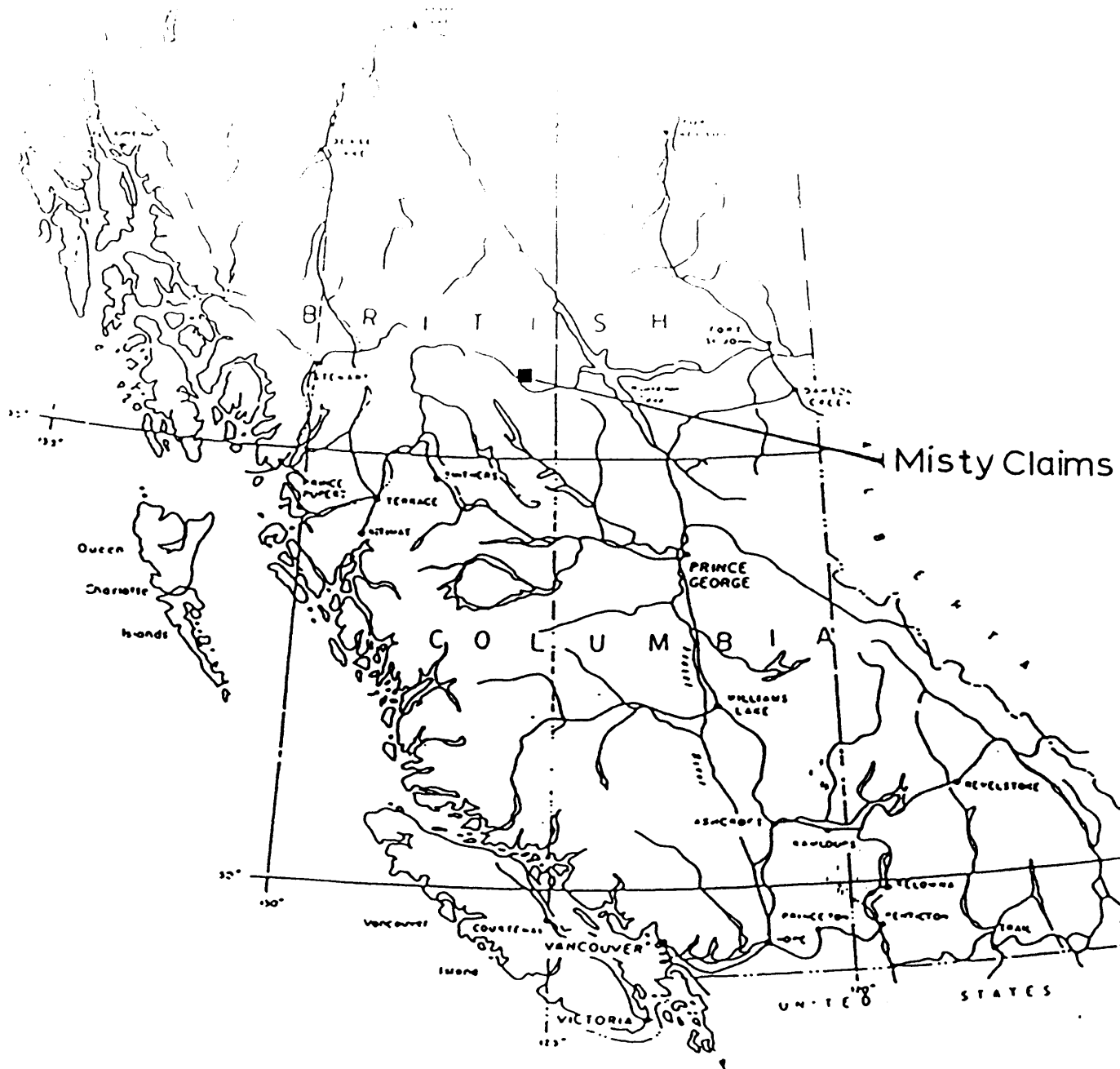
Whilst the Omineca area received considerable attention for its porphyry copper potential in the early seventies, it is only in recent years that the gold potential of the area has been recognised. The impetus for this renewed interest in the region has come mainly from the Mt. Milligan discovery 115 km southeast of the Misty claims. Mt. Milligan contains a large low grade alkali-porphyry copper-gold orebody grading 0.22% Cu and 0.016 oz/ton Au. Mineralisation occurs within potassic and propylitically altered zones surrounding a small porphyritic monzonite stock.

In September 1990, Placer Dome inc. offered \$180 million to shareholders of Continental Gold for their controlling interest in the property, and it seems likely that the deposit will be put into production within the next two-three years.

Within the Misty property a 3 million ton deposit with an average grade of 0.63% Cu, was outlined by El Paso Mining and Milling Company in the early seventies, in the southern part of the claims. In the same period, immediately adjacent to the northern claim boundary, Union Miniere Exploration Company (UMEX) outlined a 7.7 million ton deposit (Boundary deposit) grading 0.56% Cu and 0.12 oz/ton Ag. The area of the Boundary deposit has been acquired as the Tam Claims by Major General Resources who have optioned the property to Varitech Resources. The Lorraine deposit, immediately east of the Misty claims, contains a multi million ton ore inventory averaging 0.67% Cu and 0.006 oz/t Au. The property is still held by the original operator Kennco Exploration.

Exploration by Aranlee during 1989 and 1990 has attempted to investigate the possibility of enriched precious metal values occurring both within and peripheral to these known deposits. A number of targets have been outlined for detailed follow up work in 1991.

The exploration program detailed in this report, was carried out between August 2 and 11, 1990 and consisted of a prospecting, geological, and soil, rock and stream sediment geochemical survey. A total of 60 rocks, 181 soils and 5 stream sediment samples were submitted for Au, Ag, Cu, Pb and Zn analysis.



<b>ARANLEE RESOURCES LTD.</b>		
MISTY CLAIMS Omineca MD; BC.		
GENERAL LOCATION MAP		
BURMIN Resources Ltd.	Scale: 1:10,000,000	N1593N13E
	Date: Nov 1990	Figure: 1
	Drawn by: NOK	

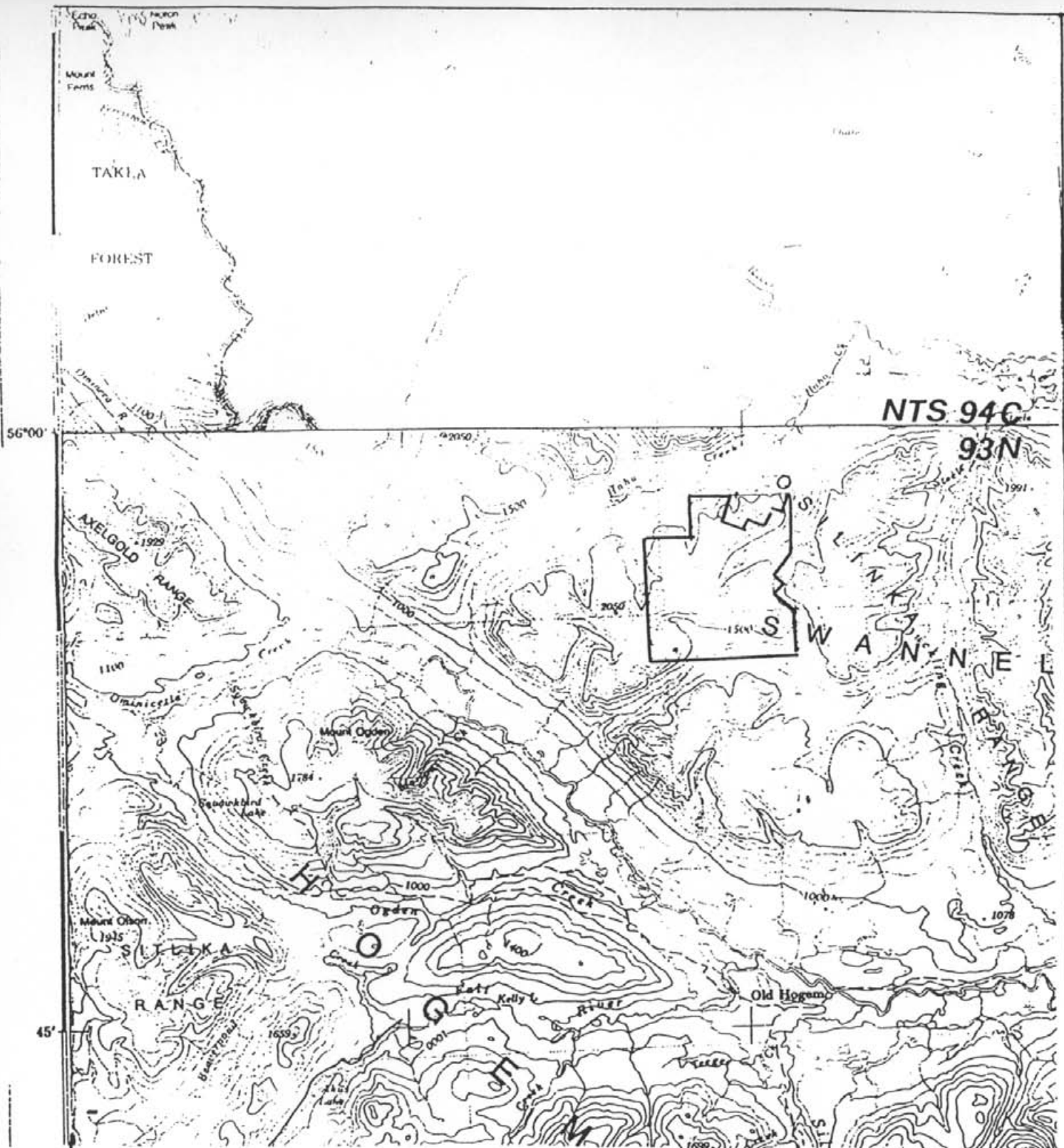
## LOCATION AND ACCESS

The Misty 1 to 11 claims are situated at 125 32W Longitude and 55 55N Latitude in the Omineca Mining Division, B.C., approximately 55 Km's west north west of Germansen landing and 165 Km's northeast of Smithers. (Figure 1 , Figure 2).

Access to the property is via Highway 97 north from Prince George for a distance of 160 Km's to the small settlement of Windy Point. From here access is via the Finlay Forest Service road north along the west side of Williston Lake, then northeast following the Omineca arm and then west and southwest in a circular fashion to Uslika Lake. Approximately 6 km's past Uslika Lake, a logging road branches west and follows Ha Ha creek for 13.5 km's and terminates at 4 km's from the Misty property. Further access is by Helicopter available from Fort St. James or Mackenzie. The total road distance from Prince George to Ha Ha creek is approx. 370 kms which equates to a driving time of about 7 hours.

A four wheel drive road constructed during previous exploration in the area (1970's) accesses the southern part of the property. Access via this road is from Germansen Landing for 26 miles along the Germansen Landing - Aiken Lake road and then westerly for 19 miles along the 4WD tote road to the Misty property. This route was not used during the 1989 and 1990 exploration programmes so the condition of the tote road is not known. However, from an aerial inspection in 1989 it appears to be in relatively good repair and given the amount of exploration in the general area it has possibly been improved during the 1990 field season. Travel from the end of this road to the central and northern parts of the property, would still require a helicopter however.

Osilinka logging camp is situated 15 km's east of the claims with accommodation, fuel and radio telephone available by prior arrangement. There is a dry weather gravel airstrip beside Uslika lake.



NTS 94C  
93N



**ARANLEE RESOURCES LTD.**

MISTY CLAIMS  
Omineca MD, B.C.

REGIONAL LOCATION MAP

**BURMIN**  
Resources Ltd.

Scale: 1: 250,000  
Date: Nov 1990  
Drawn by: NOK

Nts:  
Figure: 2.



**PHYSIOGRAPHY**

Elevations on the property range from 1,300m a.m.s.l. in the broad valley bottoms, up to 2000m on the ridges. The valley areas below tree line are swampy with dense coniferous tree cover. Above tree line at approximately 1,600m, vegetation thins to sparse stunted conifers with extensive steep scree slopes and cirques which commonly contain small lakes.

Snow falls begin in the area in mid September, and snow cover persists to early June. This leaves a three to four month summer window during which exploration can be carried out.

## PROPERTY STATUS AND OWNERSHIP

The Misty property comprises eleven Modified Grid System mineral claims held wholly by the company (Table 1, Figure 3), in part through a bill of sale dated February, 1990.

TABLE 1

<u>Claim name</u>	<u>Record No.</u>	<u>No. of units</u>	<u>Record date</u>	<u>Expiry date</u> *
Misty 1	10112	16	Feb 18/89	Feb18/93
Misty 2	10113	16	Feb 18/89	Feb18/93
Misty 3	10114	16	Feb 18/89	Feb18/93
Misty 4	10115	16	Feb 18/89	Feb18/93
Misty 5	10279	16	Apr 1/89	Apr 1/93
Misty 6	10280	16	Apr 1/89	Apr 1/93
Misty 7	10281	20	Apr 1/89	Apr 1/93
Misty 8	10282	20	Apr 1/89	Apr 1/93
Misty 9	10283	20	Apr 2/89	Apr 2/93
Misty 10	10284	15	Apr 2/89	Apr 2/93
Misty 11	10285	12	Apr 2/89	Apr 2/93
=====				
Total		183		
=====				

\* With application of assessment documented in this report.



**ARANLEE RESOURCES LTD.**

**MISTY CLAIMS**  
Omineca MD, BC

**CLAIMS LOCATION MAP**

**BURMIN**  
Resources Ltd.

Scale: 150,000  
Date: Nov 1990  
Drawn by: NOK

N193N13E  
Figure: 3

..Property status and ownership cont'd

The claim group abuts two 2-post claim blocks; the Tam claims on it's northern boundary and the Lorraine Claims on it's eastern boundary. These two 2 post claim blocks have been in good standing since the early seventies and so reduce the area covered by the Misty claims to approximately 170 units.

The Tam, 2 post claim block is currently incorrectly plotted on the government claim map and has been since the claim group was recorded by Umex. It actually occurs 2 km's to the south of where it is drawn and so overlaps part of the Misty Nine and Misty Ten claims. As this error has only recently come to the company's (Aranlee's) attention, some prospecting, mapping and sampling was carried out over the Tam claims in both the 1989 and 1990 field seasons, and 1989 assessment work (filed Feb 90) was applied to the overlapping units.

## EXPLORATION HISTORY

( The exploration history, geology and mineralisation within and adjacent to the property has been outlined in the 1990 Assessment Report by O' Keeffe and Shearer. It is included again here and updated, for completion ).

The ground covered by the Misty claims was first staked in 1948 by G.T. Warren for Kennco Explorations Ltd. The property was mapped and sampled in 1949 and then allowed to lapse. The property was restaked in 1960 by A.D. Wilmot and G.T. Warren for Fort Reliance Minerals Limited. They carried out a ground magnetometer survey, a soil geochemical survey and some surface trenching in 1962 and 1963; subsequently they allowed the claims to lapse.

In 1968, the claims were restaked by A.D. Wilmot for EL Paso Mining and Milling Company. El Paso carried out an extensive exploration programme from 1970 to 1973 consisting of diamond drilling, trenching and geophysics leading to the delineation of a 3 million ton copper deposit grading 0.63%. The elements of the El paso work program are listed below in chronological order (Jones and Francis, 1971, Jones, 1972 and 1973).

- |      |   |
|------|---|
| 1970 | Limited geological mapping, magnetometer surveying and geochemical soil sampling.   |
| 1971 | Extensive geological mapping, soil sampling, magnetometer surveying and bulldozer trenching.  |
| 1972 | Further bulldozer trenching, detailed mapping and sampling.   |
| 1973 | Induced Polarisation survey, diamond (5,053 feet) and rotary percussion (1,600 feet ) drilling and an airborne magnetic and radiometric survey. |

El Paso staked additional contiguous claims in both 1971 and 1973, giving a total of 52 (2-post) claims in all.

.. Exploration History cont'd

The northeastern part of the property was partially covered by the Tam claims which were explored by Umex from 1968 to 1974 (Garnet, 1978). After completion of soil geochemical and IP surveys, over 7,000 feet of drilling was undertaken. A 7 million ton deposit grading 0.56% Cu was defined 500m north of the Misty claims.

The Tam claims were more recently acquired by Major General Resources, who optioned the property to Varitech Resources in 1990. In 1990 a \$150,000 program consisting of line cutting, mapping, soil and rock sampling, magnetic, EM and IP surveys, was carried out on the property. In addition a \$75,000 follow up program was also completed over four newly outlined prospects (Major General Press Release, October 17, 1990).

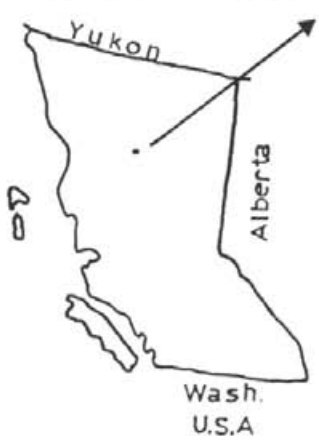
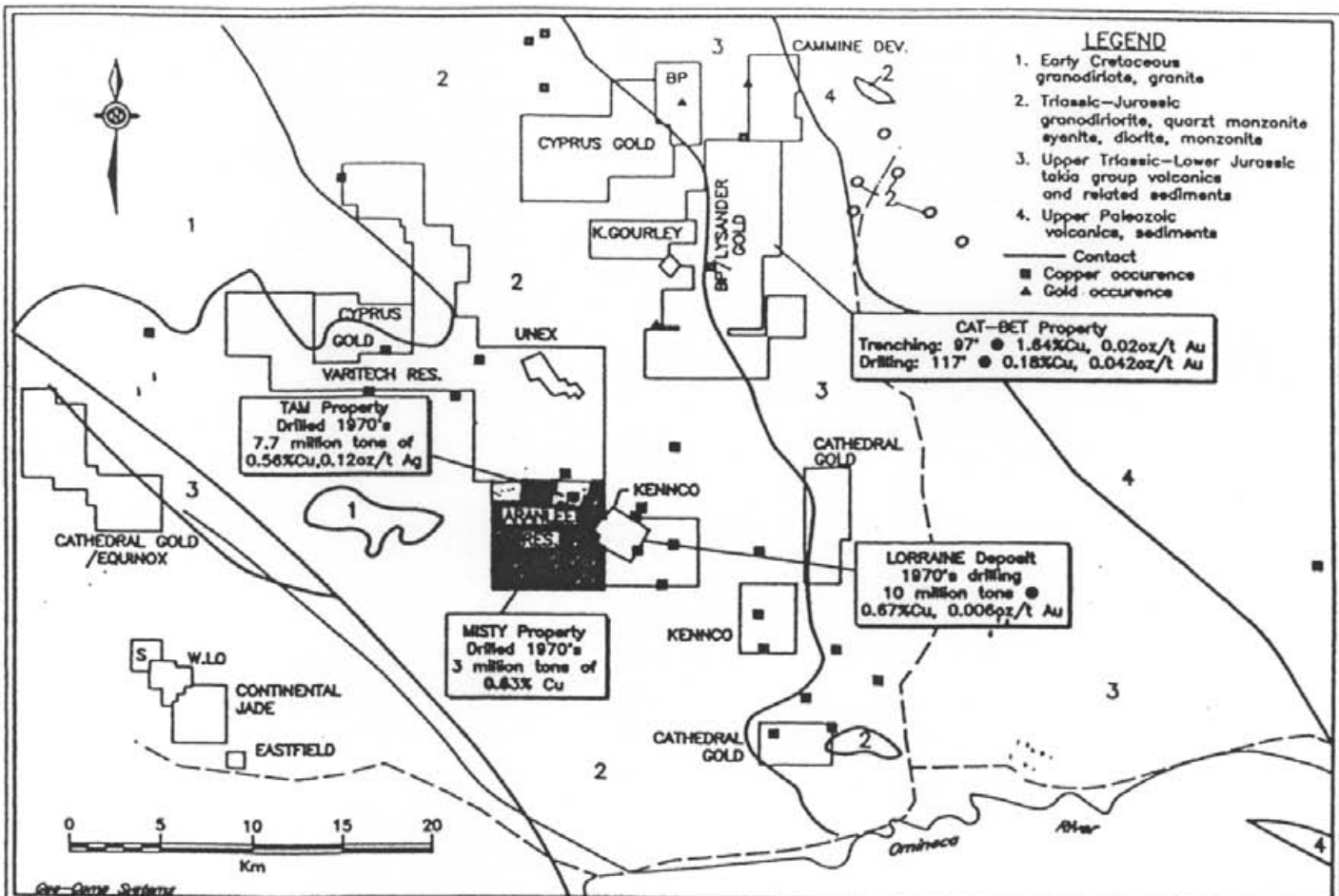
The Lorraine property, which occurs immediately to the east of the Misty claims, contains two Cu deposits in a similarly altered structural setting, having published drill indicated reserves of 4,500,000 tons of 0.75% Cu and 0.34 g/t Au in the upper zone and 5,500,000 tons grading 0.60% Cu and 0.10 g/t Au in the lower zone (Garnet, 1978).

Until recently, the main target of all exploration within and adjacent to the property has been for porphyry copper mineralisation. Precious metals have not previously been targeted in any detailed or systematic way.

## REGIONAL GEOLOGICAL SETTING

The Misty property occurs within strongly foliated rocks of the Duckling Syenite complex, (Figure 4). This complex forms part of one intrusive phase of the southern Hogem Batholith, a Late Triassic to Early Jurassic composite granitic intrusive (Garnet, 1978). The Southern Hogem Batholith extends in a NNW direction within a narrow belt of Lower Mesozoic rocks. It is bounded to the east by highly deformed Proterozoic and Palaeozoic strata, and to the west by deformed Upper Palaeozoic strata. A major fault structure, the Pinchi Fault Zone, bounds the Batholith on its western margin.

The Duckling Syenite Complex is elongated in a northwesterly direction and contains both intrusive and migmatized rock units showing considerable compositional diversity. The greatest intensity of faulting within the Hogem Batholith occurs in this Complex.



<b>ARANLEE RESOURCES LTD.</b>		
<b>MISTY CLAIMS</b> Omineca MD; B.C.		
<b>REGIONAL GEOLOGICAL SETTING</b>		
<b>BURMIN</b> Resources Ltd.	Scale: 1: 500,000	NtS93N13E
	Date: Nov 1990	Figure: 4.
	Drawn by: NOK	



## PROPERTY GEOLOGY.

Three main rock types are recognised within the property: hornblende monzonite, orthosyenite and pegmatite. These rock types show much variation in texture and are gradational from one to the other.

The hornblende monzonite is the most common lithology and comprises hornblende, biotite, plagioclase and k-feldspar, with wide variations in the content of the mafics and k-feldspar. Texturally the unit grades from medium grained to pegmatitic and foliation varies from moderate to intense. The development of gneissic banding is very common. In some areas the hornblende monzonite shows evidence of magma cumulate differentiation with the development of basic to ultrabasic fractions. The presence of minor blue asbestos has been noted within these more basic fractions at some localities ( Figure 7).

The orthosyenite varies from fine grained to pegmatitic in texture and is composed predominantly of k-feldspar with few mafic elements. The orthosyenite frequently occurs as dykes cross-cutting the hornblende monzonite.

The pegmatite consists of feldspar (85%) and hornblende (15%) and mainly occurs as dykes, cutting the two other main lithologies.

The southwest of the property appears, from limited geological mapping, to be composed of more quartz rich rocks of granitic and granodioritic composition (Figure 7). The rocks in this area appear poorly foliated and relatively unaltered.

Disseminated chalcopyrite, pyrite and minor bornite occur in small amounts through most of the foliated rocks. The better copper mineralised sections occur in the stronger foliated rocks showing chlorite and k-feldspar alteration together with strong foliation, fracturing and faulting (refer to next section).

## MINERALISATION

The documented copper mineralisation within the property consists of that discovered by El Paso Mining and Milling Company (Jones and Francis, 1971; Jones 1972 and 1973) and Umex (Garnet, 1978) in the early seventies.

The preliminary copper inventory outlined by El Paso occurs within a northwesterly trending fault zone. The mineralised zone is 500m long averaging 11m wide and extending to at least 170m in depth. Rough reserves were calculated at 3 million tons grading 0.63% Cu (Jones, 1989). Mineralisation occurs in strongly chloritised, k-feldspar altered, hornblende biotite gneiss within hornblende monzonite. The best mineralised sections within the hornblende biotite gneiss are associated with cross-cutting syenite dykes, orthoclase veins, k-feldspar and chlorite alteration and strong foliation, faulting and fracturing. These more intensely altered and mineralised sections show an enriched magnetite content relative to the less altered, less foliated surrounding rock.

Mineralisation consists of disseminated sulfide phases, principally chalcopyrite and pyrite, with veinlets of chalcopyrite and pyrite common along the contact margins of cross-cutting dykes and orthoclase veins.

On the Tam Claims (Boundary Deposit), immediately to the north, mineralisation occurs as chalcopyrite disseminations within lenticular lenses of foliated fine grained syenite (Garnet, 1978). The chalcopyrite occurs along northwesterly trending foliation planes within the syenite. The syenite is cut by quartz veins containing chalcopyrite which is thought to represent a second minor mineralising stage.

Similarly on the Lorraine Claim Group, mineralisation occurs in a structurally controlled setting.

Garnet (1978) concludes that the mineralisation within the Duckling Syenite Complex differs from other alkaline porphyries in that the standard alteration patterns, high level fault control and breccia pipe development is noticeably absent.

## FIELD PROCEDURES

A three man exploration team spent 8 full field days on the property between August 2 and 11 1990. A helicopter fly camp was set up beside the small cirque lake in the southern part of Misty Two, close to the site of the 1989 camp location. This served as a base for exploration in the southern part of the property. Following four days at this site the fly camp was moved, by helicopter, to the northern part of the claims and set up in the southwestern part of Misty Ten. Four days were spent here during which the northern part of the property was explored.

A 1:10,000 enlargement of part of the relevant NTS topographic sheets (95N/13E) was used as a base for recording sample locations and geology. Hip chains, compasses, altimeters and air photos were used for orientation. Sample locations were marked on the ground with flagging tape.

Soil sampling was carried out in two areas;

- 1) In the mid southern part of Misty 2 above the cirque lake, on a 20m by 200m grid (six lines).
- 2) Along the 1650 and 1700 foot contours, at 150 foot (50m) spacings, in the northern part of the property.

Samples were taken, where possible of B-horizon material, using a mattock. All samples were flagged on the ground with grid coordinates and sample number

A total of 60 rock, 188 soil and 5 stream sediment samples from the exploration programme were submitted to Chemex Labs in North Vancouver for Au, Ag, Cu, Pb and Zn analysis. Several samples which exceeded threshold limits of original analysis, were re-assayed for definitive determinations or for analysis for further elements. Sample locations and results are plotted on Figure 8, on a scale of 1:10,000. Assay certificates are appended (Appendix 4).

## DISCUSSION OF RESULTS

a) ROCK SAMPLING

Prospecting and rock sampling was carried out both as a continuation of and follow up to the 1989 programme to confirm the best of last years results and to investigate as much of the property as possible on a reconnaissance basis.

## (i) Perretts Cliff Showing

The location of the 1989 samples MD-89 R14 and MD-89 R15 were relocated. These samples were from a shear zone within gneissic hornblende monzonite and returned assay values of 1670 ppb Au, 11.4 ppm Ag for R14 and 0.754 oz/t Au, 7100 ppm Ag, 6.7% Pb and 1.22% Zn for R15.

Three chip sampling sections, at 0.5 m intervals were taken across the exposed 10m section of the shear zone (Figure 8). Results were as follows;

		Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
St 1	MD-90-R08	140	9.5	760	600	1000
	MD-90-R09	100	6.8	670	350	670
	MD-90-R10	25	1.4	209	65	150
St 2	MD-90-R01	215	6.9	78	770	830
	MD-90-R02	35	0.9	190	40	160
	MD-90-R03	380	37.0	770	820	1900
	MD-90-R04	55	0.9	500	36	140
St 3	MD-90-R05	130	12.4	370	610	470
	MD-90-R06	505	41.0	430	1300	1200
	* MD-90-R07	2370	>100	1500	>10000	>10000
	Re-assay	0.119oz/t	7.79oz/t			

\* Grab sample of quartz veined pyrite and galena rich rock from within shear zone.

Whilst last years high grade grab sample results were not repeated, the zone is nevertheless strongly geochemically anomalous in all elements analyzed for. The prospect is located on a very steep and dangerous cliff and further evaluation will require climbing equipment.

## Discussion of Results cont'd

The presence of galena and chalcopyrite in a shear zone with anomalous Au, Ag and base metal geochemistry, is interpreted as a being due to the fault structure acting as a pathway for mineralising fluids. The relationship of these structures to the development of the known copper deposits is not clearly defined, however this zone is sub-parallel and on strike with the Misty Deposit and probably represents a peripheral section of the same deformation zone. It differs considerably in its enriched gold and lead/zinc values and these structures represent valid exploration targets. In particular the contact of these structures with either cross structures (potential dilation zones), or "receptive" lithologies (geochemically reactive or structurally prepared), should be sought as potential sites of mineral accumulations.

## (ii) Northern Area

In the north central part of the Misty Four claim, float samples returning high copper values with associated high Au and Ag values have been discovered (Figure 8). All samples are of strongly malachite stained boulders, and were located on scree slopes below cliff outcrop. The significant sample results are;

	Au(ppb)	Ag	Cu(%)	Pb(%)	Zn(%)
BM 505512 R	4380	7.34oz/t	22.3	0.02	0.01
BM 505513 R	5020	3.61oz/t	9.48	0.03	0.01
BM 505514 R	6830	7.09oz/t	18.6	0.01	0.01
BM 505515 R	5850	8.09ppm	19.70	0.01	0.01
BM 505516 R	3010	84.0 ppm	4.6	0.01	0.01

Samples BM 505512-15 R are from the same scree patch while sample BM 505516 R was taken 500m further north. The samples are all medium grained, leucocratic syenite with pervasive malachite staining, Fe-staining, sericite, epidote and k-feldspar alteration. Further work, including cliff outcrop sampling and detailed geological mapping will be required to evaluate the significance of this discovery.

However it is worth noting that the samples taken differ from both the Misty deposit and Perretts Cliff Showing, in the strong gold-copper mineralisation without lead or zinc associated. They therefore represent another style of mineralisation, possibly a higher grade, late stage accumulation peripheral to a porphyry body (Boundary Deposit ?).

.. Discussion of Results cond't

As the occurrence has not yet been found in outcrop it is difficult to draw further conclusions, but the location of the float samples (north facing slope) and their appearance (large angular blocks) indicates they are unlikely to have undergone glacial transport and are probably from within the claim group.

b) SOIL SAMPLING

A frequency histogram for all Au soil sample results is presented as Figure 5. Whilst the graph combines data from two separate parts of the property it is clear that values for Au greater than 5 ppb are anomalous.

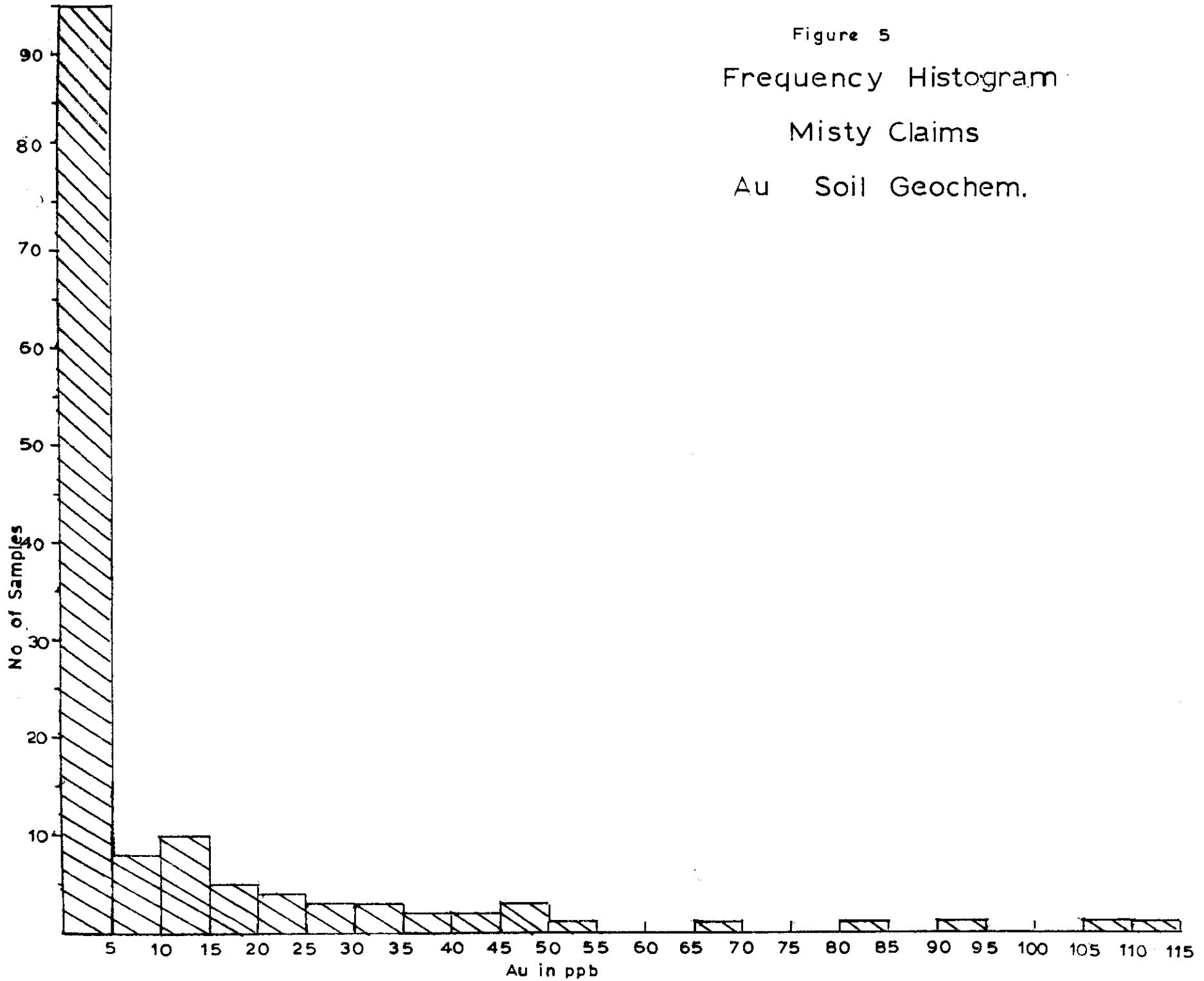
(i) Misty Two Grid

The soil sampling grid in Misty Two was positioned to investigate the possibility of Au bearing shear zones, along strike or parallel to the shear zone at " Perrets cliff showing ". Two anomalous areas were discovered, one at the north end of Line A with a max. value of 70 ppb Au and the other at the north end of line G with a max value of 40 ppb Au (Figure 8).

Gold values show strong correlation with copper on Line A. The anomalies are readily explainable by the foliated, altered and patchily Cu mineralised zone, on the cliffs immediately north of the soil sampled area. Rock sampling in this area has not however returned any elevated Au values (>1ppm), apart from those obtained at " Perrets Cliff Showing".

The poor soil geochemical values in both precious and base metals over the remainder of the grid area, indicate that the northwesterly trending sheared and altered mineralised zone has it's southwestern termination close to the cirque rim. This is consistent with the observed geology in the area.

Figure 5  
Frequency Histogram  
Misty Claims  
Au Soil Geochem.



..Discussion of Results cond't

(ii) Northern Area

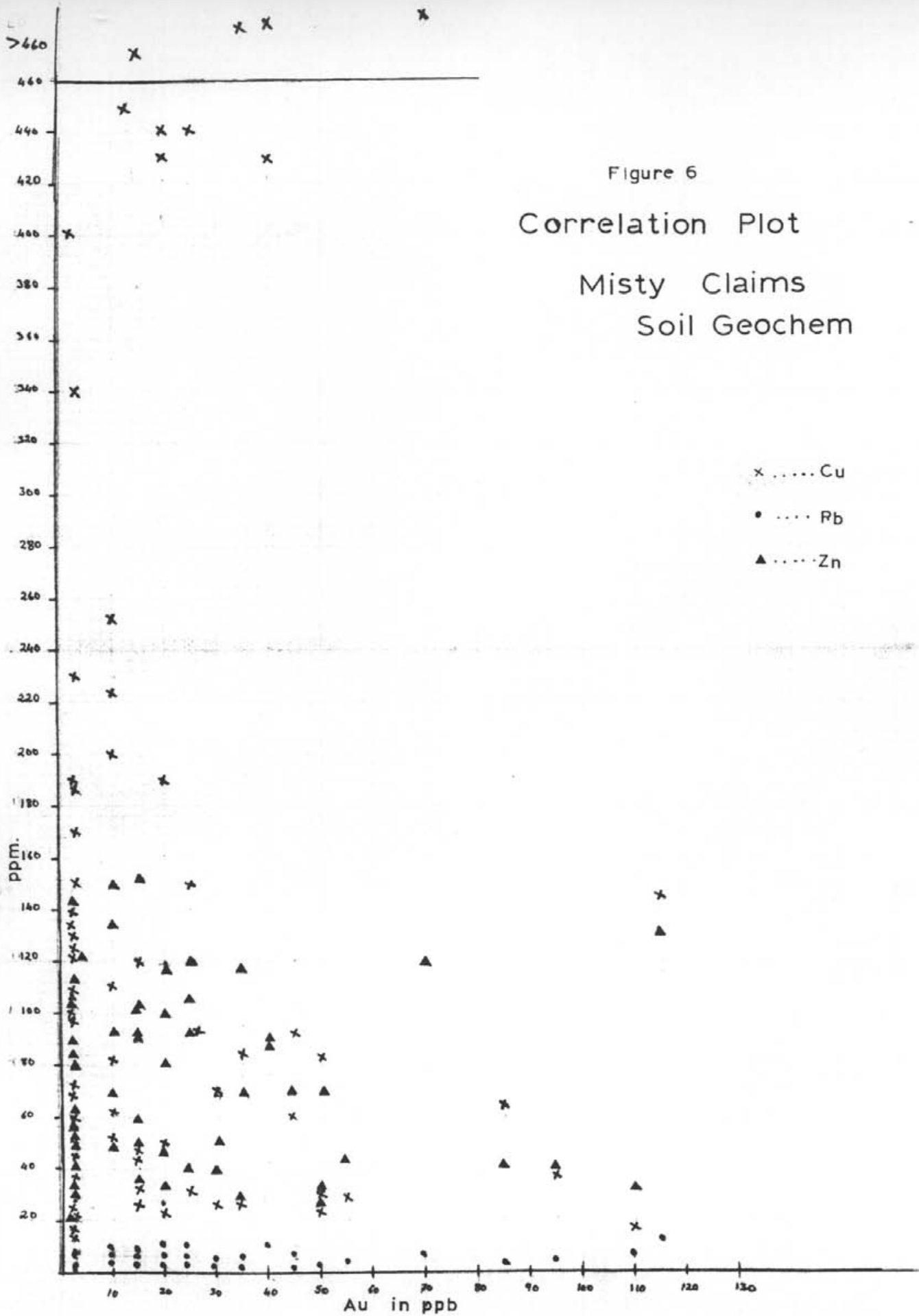
Contour soil sampling in the northern portion of the property discovered two areas anomalous in Au. On line H, an anomalous area over 11 samples, with a max. value 110 ppb occurs 1 km south-southwest of the mineralised Cu- Au scree boulders (refer to rock sampling section above ). On line I an anomalous area, consisting of 21 samples with a max value of 115 ppb, occurs 400 m south of the hydrothermally altered zone exposed on the cirque rim within the Tam claims. Further infill soil sampling is required in these areas to delimit the extent of the anomalies.

A correlation plot of Au versus Cu, Pb, and Zn is presented as Figure 6. This plot combines data from the two soil sampled areas, and while based on a limited data set a few interesting trends are apparent:

1. Pb values are extremely low and show no correlation with gold.
2. Cu correlation with Au on the whole is surprisingly low. The only exception to this is grid line A, from which 5 of the 9 samples in the very strongly anomalous and distinct Cu population (at the top of the graph), are taken,



Figure 6  
Correlation Plot  
Misty Claims  
Soil Geochem



## CONCLUSIONS AND RECOMMENDATIONS

The 1990 exploration program has returned sufficiently encouraging results to warrant a longer and more detailed phase of exploration in 1991. This program is recommended to comprise mapping, prospecting, detailed soil sampling and geophysics. Areas within the property requiring follow up are prioritised as follows:

1. Area of high grade Cu- Au boulders in Misty Four and Eleven. This area should be mapped and prospected in detail. The scree boulders should be traced upslope to their source on the cliff outcrop and any mineralised showings encountered fully evaluated. The cliff exposures to the northwest and down to the valley bottom (Misty Eleven ) should be carefully prospected. Given the disseminated nature of the mineralization seen to date, an Induced Polarisation survey may be useful in locating and delimiting a bedrock source of the mineralisation.

2. Soil geochemical sampling should be expanded out from the contour soil sample anomalies generated during 1990, over the timbered area in the central part of Misty Four, northwest of Misty Nine and southeast of Misty Ten. Vlf and magnetometer survey lines should be conducted over the area concurrently on a reconnaissance basis. In addition to possible mineralization this geophysical data may be useful in detecting the presence of any major structures or radical changes in lithology (magnetite bearing intrusives etc.).

3. " Perrets Cliff Showing" and it's immediate vicinity should be more thoroughly prospected with the aid of rock climbing equipment. Prior to this, very careful study should be made of air photographs to detect any similar trending structures or possible offset extensions of the known mineralised structure.

An itemised recommended budget for the 1991 exploration program is presented overleaf.

## PROPOSED BUDGET 1991

Field Preparation	
Air Photo study of structural trends	2,000
1 month field program.	
Two geologists, 1 prospector, 2 field hands	25,000
Camp and food supplies	4,000
Assay: 200 rocks @ \$ 17 per sample	3,400
600 soils @ \$ 14 per sample	8,400
Geophysical surveys	10,000
Helicopter support	10,000
Vehicle rental and fuel	5,000
Drafting and report preparation	4,000
	=====
	71,000
Contingencies 10%	7,100
	=====
Total	78,100

## REFERENCES.

Garnet, J.A. (1978) - Geology and Mineral Occurrences of the Southern Hogem Batholith, B.C. Min. of Mines and Petroleum Resources, Bulletin 70.

Jones, H.M and Francis, D .(1971) - Report on the Field Program, Misty property, Duckling Creek Area, Omineca Mining Division, B.C., private report for El Paso Mining and Milling Company.

Jones, H.M. (1972) - Report on the 1972 Trenching Program, Misty Property, Duckling Creek Area, Private report for El Paso Mining and Milling Company.

Jones, H.M. (1973) - Report on the 1973 Exploration Program, Misty Property, Duckling Creek area, Omineca Mining Division, B.C., report filed with B.C. Dept. of Mines re: Reclamation Permit.

Jones, H.M. (1989) - Report on the Misty Property, Duckling Creek Area, Omineca Mining Division, British Columbia - Private report for Aranlee Resources Ltd.

Major General Resources, October 17th, 1990. News Release #21-90. "Varitech/Major General discover four extensive copper-gold and copper anomalies on the Tam property.

O'Keeffe, N and Shearer, J.T. (1990) - Geological, Prospecting and Geochemical Assessment report on The Misty Group 1 and 11 claims, Duckling Creek Area, Omineca Mining Division, British Columbia, - report filed with B.C. Dept. of Mines.

APPENDIX 1

STATEMENTS OF QUALIFICATION

STATEMENT OF QUALIFICATION.

I, Noel Flannan O'Keeffe of Kilmaley Ennis, Co. Clare, Republic of Ireland do hereby certify:

1. I graduated in Honours Geology, (B.Sc. 1985) from University College Galway, Ireland.
2. I have practised my profession as an Exploration Geologist continuously since graduation. I am employed by Burmin Exploration and Development P.L.C., Clifton House, Lower Fitzwilliam Street, Dublin 2, Ireland.
3. I am presently on secondment from Burmin to Burmin Resources Ltd of 548 Beatty St, Vancouver, B.C., Canada.
4. I have carried out prospecting, mapping and sampling on the area referred to in this report, and have supervised all other exploration activities outlined herein.

Dated at Vancouver, British Columbia.

  
Noel F.O'Keeffe, B.Sc.

November 15th, 1990

## STATEMENT OF QUALIFICATION

I Koenraad M. Verbruggen of White Rock in the Province of British Columbia do hereby certify:

1. I graduated in Honours Geology, B.Sc. 1984 and M.Sc. 1985 from the National University of Ireland, at University college Dublin, Republic of Ireland.
2. I have practised my profession as an Exploration Geologist continuously since graduation. I have formerly been employed by Britoil Plc., of Glasgow, Scotland, Burmin Exploration and Development Plc., in Ireland and Ashling Resources N.L. in Western Australia.
3. I am presently employed as Exploration Director by Burmin Resources Ltd. Vancouver.

Dated at Vancouver, British Columbia,



K.M Verbruggen

November 14, 1990

**APPENDIX 2**

**STATEMENT OF COSTS OF 1990 PROGRAM.**



STATEMENT OF COSTS, 1990 PROGRAM, MISTY CLAIMS.

	<u>\$C TOTAL</u>	<u>\$C GROUP 1</u>	<u>\$C GROUP 2</u>
K. Verbruggen.			
6 days @ \$ 350 per day	2,100	1,050	1,050
N. O' Keeffe			
18 days @ \$ 350 per day	6,300	3,150	3,150
B. Murphy			
13 days @ \$ 300 per day	3,900	1,950	1,950
D. Perret			
12 days @ \$200 per day	2,400	1,200	1,300
	=====	=====	=====
Sub Total	14,700	7,350	7,350
	=====	=====	=====
Helicopter, mob/demob			
6 hrs @ 650 + fuel	4,610	3,270	1,340
Truck rental			
12 days @ \$ 80 per day			
+10c a mile +repairs	2,500	1,250	1,250
Fuel and Propane	370	185	185
Radio rental + accessories			
14 days @ \$ 170 per week	300	150	150
Camp/Equipment rental	200	100	100
Food and Accom.			
33 man days @ \$ 30 per day	990	500	490
Motels/Meals	400	250	150
Air photos	150	75	75
Geological supplies	400	200	200
Analytical:			
60 rocks @ \$ 17.25 per rock	1,035	828	207
181 soils @ \$ 14.25 per soil	2,579	2,066	513
5 stream seds. 14.75 per sed.	74	44	30
Re Assays/Ore Assays of Geochem	532	332	200
Report preparation and drafting	3,000	1,500	1,500
Word processing and reproduction	600	300	300
	=====	=====	=====
Grand Total	32,440	18,400	14,040
	=====	=====	=====

APPENDIX 3.

STATEMENT OF FIELD DAYS WORKED BY EXPLORATION PERSONNEL

STATEMENT OF FIELD DAYS WORKED BY EXPLORATION PERSONNEL

<u>Name</u>	<u>Position</u>	<u>Address</u>	<u>Dates worked</u>
N. O'Keefe	Geologist	548 Beatty St. Vancouver B.C. V6B 2L3	Aug. 1 to 12
B. Murphy	Geologist	Apt #105, 2263 Queen St E., Toronto, Ont. M4E 1G3	Aug. 1 to 12
D. Perrett	Prospector	1531, 17 Ave; South Surrey, B.C. V4A 1T8	Aug. 1 to 12

**APPENDIX 4.**  
**ROCK SAMPLE DESCRIPTIONS**

CODE: M90-N

- R1 Float sample, fine grained monzonite, altered strongly foliated much malachite staining.
- R2 Altered monzonite, malachite stained with minor disseminated chalcopyrite and pyrite.
- F3 Float, fine grained microsyenite-trachyte with approx. 5% coarse disseminated pyrite, partly silicified with strongly sheared areas, minor chalcopyrite.
- R4 Shear zone 0.75m wide, fine disseminated pyrite and chalcopyrite, also includes carbonate veinlets.
- F5 Monzonite float boulder, much magnetite also chalcopyrite patches/disseminations, azurite staining.
- F6 Float, patchily rusty altered monzonite with minor disseminated pyrite.
- R7 Pink coarsely crystalline syenite, strong foliation, moderate sericitisation.
- R8 Altered syenite, brown Fe-stained, k-feldspar and sericite altered with much malachite staining and minor chalcopyrite and pyrite.
- F9 Float, fine grained homogenous light pink syenite with 3-5% disseminated silver pyrite
- F10 Float, milky vein quartz boulder, unremarkable.
- F11 Float, milky vein quartz, unremarkable.
- R12 Vein quartz o/c, unremarkable.
- R13 Wall rock to vein quartz in R12, brown grey weathered crumbly chloritic sericite altered syenite.
- R14 Vein quartz outcrop, limonite stained, otherwise milky textured and unremarkable.
- R15 Strongly gossanous, sericite-clay altered syenite.
- R16 Hydrothermally altered (much sericite) brown stained scree from small cliff outcrop area.
- R17 Fine silicified grey fault rock, minor disseminated pyrite cubes and patches.

CODE: BM

Diamond Drill Hole M9 (El Paso)

- 505501 R Medium grained syenite with hornblende and biotite veinlets.
- 505502 R Syenite, with hornblende and biotite veinlets.
- 505503 R Syenite, with minor hornblende veinlets.

Rock grab samples.

- 505504 R O/c, strongly altered syenite, sericitised with limonite vugs and blebs. Weak carbonate and manganese staining.
- 505507 R O/c, fine grained to medium carbonate altered porphyry. Moderately magnetic matrix with altered plagioclase-hornblende-feldspar-quartz groundmass. Disseminated euhedral weathered pyrite, 1-2%. Epidote in fractures.
- 505508 R: Float, altered coarse grained monzonite with malachite stained fractures.
- 505509 R: Float, fine to medium grained monzonite with disseminated chalcopyrite and abundant malachite staining.
- 505510 R Float, medium grained malachite stained altered monzonite. Moderate foliation with occasional feldspar phenocrysts. Trace chalcocite and magnetite.
- 505511 R O/c, Medium grained malachite stained altered monzonite.
- 505512 R O/c, Malachite stained leuco syenite with minor chalcocite (< 1%).
- 505513 R O/c, Malachite stained leuco syenite with minor chalcocite
- 505514 R Float, Malachite stained leuco syenite with minor chalcocite (< 1%).
- 505515 R Float, Malachite stained leuco syenite with minor chalcocite.

- 505516 R Float, Malachite stained syenite with trace chalcocite.
- 505517 R O/c, Strongly foliated hornblende monzonite with large aligned feldspar phenocrysts, pyrite (1%), limonite on fractures.
- 505518 R O/c, Strongly foliated hornblende monzonite with large aligned feldspar phenocrysts, sheared and altered. Approx 1% pyrite on fractures.
- 505519 R O/c, Highly fractured and limonite stained hornblende monzonite, trace pyrite on fractures.

MISTY 90

ROCK SAMPLE DESCRIPTIONS

CODE MD-90

- R1 - R10      Rock chip samples from "Perrets cliff showing"
- R11            Siliceous rusty weathering rock with disseminated pyrite, some chalcopyrite and trace galena.
- R12            Altered gneiss with chalcopyrite, malachite magnetite and pyrite.
- R13            Rusty weathering sheared intrusive rock.
- R14            Disseminated chalcopyrite and malachite in altered intrusive.
- R16            Rock from sheared area with possible trace galena; weathers rusty (limonite staining)
- R17            Altered intrusive rock with much chalcopyrite and minor malachite stain.
- R18            Similar to R17, much malachite stain ,minor chalcopyrite.
- F19            Quartz vein in syenite with malachite and azurite staining.
- R20            Dark fine grained altered intrusive, moderately magnetic.
- R21            Silicified altered rock with moderate pyrite.
- R22            Malachite and minor chalcopyrite in sheared syenite, much limonite staining.
- F23            Strongly weathered diorite intrusive float with moderate malachite staining.
- R24            Just below F23, malachite stained diorite.



**APPENDIX 5**

**ASSAY RESULTS AND ANALYTICAL PROCEDURES**

## SAMPLE PREPARATION

We emphasize the importance of properly preparing a sample for analysis. For most types of analytical determinations only a small fraction of the sample is utilized. The analytical result must be valid for the entire sample and not just for this subsample. In effect, a poorly prepared sample is not worth analyzing.

Routine sample preparation procedures are listed below. Sample preparation procedures can be customized for any project. Please call for details.

### ROCK AND DRILL SAMPLES

Note : codes in parentheses refer to procedures for geochem (trace level) samples rather than ore-grade material. Separate facilities are used to avoid contamination.

Chemex code	Procedure	Price per sample
208 (205)	Multiple stage crushing of up to 10 pounds of sample; riffle split and pulverize to approximately -150 mesh.	\$ 3.50
207 (212)	For samples with suspected nugget or free gold effects. Procedure as per 208, then sieve pulp through a -150 mesh screen. Examine + 150 mesh fraction for metallics. If present, save + 150 mesh fraction; if not, + 150 mesh fraction is hand pulverized and homogenized with original sample.	\$ 5.00
219	Drying charge Applied to samples too wet to be crushed.	\$ 2.00
251	Overweight charge Charged on samples over 10 pounds.	\$ 0.35/lb

## PRECIOUS METAL ANALYSIS

### ORE-GRADE ANALYSIS

If metric units (g/tonne) are preferred, use the codes in parentheses.

Chemex code	Element(s)	Sample weight	Method	Detection limit	Price per sample
398 (399)	Gold	1/2 A.T.	Fire assay, A.A. finish	0.002 oz/t	8.75
998 (999)	Gold	1 A.T.	Fire assay, A.A. finish	0.002 oz/t	9.75
396 (397)	Gold	1/2 A.T.	Fire assay, grav. finish	0.003 oz/t	10.00
996 (997)	Gold	1 A.T.	Fire assay, grav. finish	0.002 oz/t	11.00
385 (386)	Silver		Aqua regia, A.A. finish	0.01 oz/t	8.75
383 (384)	Silver		Fire assay, grav. finish	0.01 oz/t	8.75
	Gold + Silver	1/2 A.T.	Fire assay / A.A.		11.75
	Gold + Silver	1 A.T.	Fire assay / A.A.		12.75
	Gold + Silver	1/2 A.T.	Fire assay - grav. finish		13.00
	Gold + Silver	1 A.T.	Fire assay - grav. finish		14.00
479 (133)	Gold	10 grams	Cyanide leach, A.A. finish	0.003 oz/t	8.75
414 (415)	Platinum	1/2 A.T.	Fire assay, A.A. finish	0.003 oz/t	20.00
420 (421)	Palladium	1/2 A.T.	Fire assay, A.A. finish	0.003 oz/t	20.00
	Pt + Pd	1/2 A.T.	Fire assay, A.A. finish		30.00

## ORE-GRADE ANALYSIS — ASSAYING

High precision analytical procedures are used to determine the following elements and physical parameters in ore and ore-grade materials. All assays are supervised and certified by government registered assayers.

Chemex code	Element	Price
366	Aluminum	\$ 10.00
347	Antimony	9.50
330	Arsenic	9.50
352	Barium	9.50
364	Beryllium	11.00
349	Bismuth	9.00
871	Boron	18.00
441	Bulk density	7.00
320	Cadmium	7.00
355	Calcium	7.00
367	Carbon	7.00
368	Carbon dioxide	7.00
369	Cerium	24.00
155	Chlorine	15.00
305	Chromium	10.00
323	Cobalt	7.00
301	Copper	6.00
346	Fluorine	10.00
370	Gallium	20.00
872	Germanium	20.00
325	Iron (total)	10.00
327	Iron (acid soluble)	8.00
451	Iron (ferrous)	7.00
372	Lanthanum	24.00
312	Lead	6.00
356	Lithium	10.00
442	Loss on ignition	5.00
357	Magnesium	9.00
328	Manganese	9.50

Chemex code	Element	Price
344	Mercury	10.00
443	Moisture	6.00
306	Molybdenum	6.00
373	Neodymium	24.00
321	Nickel	7.00
374	Niobium	24.00
338	Phosphorus	10.00
358	Potassium	10.00
359	Rubidium	9.50
365	Selenium	9.50
377	Silica (insoluble)	7.00
378	Silica (fusion)	10.00
360	Sodium	10.00
444	Specific gravity	7.00
362	Strontium	10.00
379	Sulfur (gravimetric)	9.00
380	Sulfur (induction)	7.00
93	Sulfur (elemental)	15.00
381	Tantalum	9.50
350	Tellurium	20.00
332	Thorium	12.00
343	Tin	8.00
382	Titanium	12.00
340	Tungsten	9.50
335	Uranium	12.00
363	Vanadium	10.00
873	Yttrium	24.00
316	Zinc	6.00
874	Zirconium	24.00

## SAMPLE PREPARATION

We emphasize the importance of properly preparing a sample for analysis. For most types of analytical determinations only a small fraction of the sample is utilized. The analytical result must be valid for the entire sample and not just for this subsample. In effect, a poorly prepared sample is not worth analyzing.

Routine sample preparation procedures are listed below. Sample preparation procedures can be customized for any project. Please call for details.

### SOIL, HUMUS OR SEDIMENT SAMPLES

201	Dry, sieve through a -80 mesh screen.
202	Dry, sieve through a -80 mesh screen and save the + 80 mesh fraction.
203	Dry, sieve through a -35 mesh screen and pulverize to approximately -150 mesh.
217	Dry and pulverize entire sample (up to 200 grams) to approximately -150 mesh.
243	Same as code 203, but using a ceramic (ZrO <sub>2</sub> ) pulverizer which eliminates Fe, Al, Si and Cr contamination.

## PRECIOUS METAL ANALYSIS

### TRACE LEVEL ANALYSIS

Maximum value reported for all elements is 10,000 ppb.

Chemex code	Element(s)	Sample weight	Method	Detection limit	Price per sample
100	Gold	10 grams	Fire assay, A.A. finish	5 ppb	
983	Gold	30 grams	Fire assay, A.A. finish	5 ppb	
101	Gold	10 grams	Fire assay, N.A.A. finish	1 ppb	
G-15	Platinum	30 grams	Fire assay, ICP-AFS	5 ppb	
	Palladium			2 ppb	
	Gold			2 ppb	
472	Rhodium	10 grams	Fire assay, A.A. finish	5 ppb	

## TRACE LEVEL GEOCHEMISTRY

The methods specified below were designed to give you the best possible detection limits for individual elements. MULTIELEMENT PACKAGES are available using a variety of analytical techniques. See page 6.

Digestion charge description		Price			
N/C	Digestion or fusion included in price				
AO	Nitric-aqua regia digestion				
HF	Perchloric-nitric-hydrofluoric digestion				
EXT	Special digestion with an organic extraction				
NAA	Neutron activation encapsulation and irradiation charge				
XRF	X-ray analysis pellet preparation charge				

Chemex code	Element	Detection limit	Upper limit	Digestion* charge code	Price
22	Antimony	0.2 ppm	0.1%	EXT	
13	Arsenic	1 ppm	1%	N/C	
25	Barium	10 ppm	1%	HF	
34	Beryllium	0.1 ppm	0.1%	HF	
23	Bismuth	0.1 ppm	0.1%	EXT	
40	Boron	10 ppm	1%	N/C	
154	Bromine	1 ppm	1%	NAA	
7	Cadmium	0.1 ppm	0.02%	AO	
158	Cesium	2 ppm	1%	NAA	
155	Chlorine	100 ppm	1%	N/C	
12	Chromium	5 ppm	1%	HF	
9	Cobalt	1 ppm	1%	AO	
2	Copper	1 ppm	1%	AO	
21	Fluorine	20 ppm	1%	N/C	
31	Gallium	1 ppm	0.1%	N/C	
41	Germanium	5 ppm	0.1%	N/C	
107	Hafnium	2 ppm	1%	NAA	
543	Indium	1 ppm	0.1%	AO	
188	Iodine	20 ppm	1%	N/C	
10	Iron	0.05 %	20%	AO	
4	Lead	1 ppm	1%	AO	
27	Lithium	1 ppm	1%	HF	
35	L.O.I. @ 550°C	0.1 %	100%	N/C	
11	Manganese	5 ppm	1%	AO	
20	Mercury	5 ppb	0.01%	N/C	
3	Molybdenum	1 ppm	0.1%	AO	
8	Nickel	1 ppm	1%	AO	
191	Niobium	5 ppm	1%	XRF	
15	Phosphorus	5 ppm	1%	N/C	
376	Rhenium	1 ppm	1%	NAA	
30	Rubidium	1 ppm	1%	HF	
103	Scandium	1 ppm	1%	NAA	
16	Selenium	0.2 ppm	0.1%	N/C	
6	Silver	0.2 ppm	0.02%	AO	
32	Strontium	1 ppm	1%	HF	
380	Sulfur	0.001 %	100%	N/C	
151	Tantalum	2 ppm	1%	NAA	
24	Tellurium	0.05 ppm	0.1%	N/C	
39	Thallium	0.1 ppm	0.1%	N/C	
150	Thorium	1 ppm	1%	NAA	
19	Tin	2 ppm	0.1%	N/C	
42	Titanium	10 ppm	1%	N/C	
18	Tungsten	2 ppm	0.1%	N/C	
152	Uranium	0.2 ppm	1%	N/C	
33	Vanadium	5 ppm	1%	HF	
801	Yttrium	5 ppm	1%	XRF	
5	Zinc	1 ppm	1%	AO	
914	Zirconium	5 ppm	1%	XRF	



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

**INVOICE NUMBER** **I 9 0 2 0 9 2 2**

BILLING INFORMATION	
Date:	20-AUG-90
Project:	M90
P.O. No.:	
Account:	IHH
Comments:	
Billing:	For analysis performed on Certificate I9020922
Terms:	Payment due on receipt of invoice 1.5% per month (18% per annum) charged on overdue accounts
Please Remit Payments to:	
<p><b>CHEMEX LABS LTD.</b> 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J-2C1</p>	

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
100	- Au ppb FA+AA			
2	- Cu ppm			
6	- Ag ppm Aqua R			
238	- AQ digestion	12	11.25	135.00
100	- Au ppb FA+AA			
5	- Zn ppm			
6	- Ag ppm Aqua R			
238	- AQ digestion	3	11.25	33.75
100	- Au ppb FA+AA			
6	- Ag ppm Aqua R			
238	- AQ digestion	4	10.25	41.00
Sample preparation and other charges.				
205	- Geochem - RING	19	1.75	33.25
294	- Crush and split	19	2.25	42.75
Total Cost \$				285.75
<b>TOTAL PAYABLE (CDN) \$</b>				<b>285.75</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9020922

Comments: ATTN: K.M. VERBRUGGEN

CERTIFICATE

A9020922

BURMIN RESOURCES LTD.

Project: M90  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 20-AUG-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
294	19	Crush and split (0-10 pounds)
238	19	NITRIC-AQUA REGIA DIGESTION

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	19	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2	12	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
5	3	Zn ppm: HNO3-aqua regia digest	AAS	1	10000
6	19	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	100.0



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Project : M90  
 Comments: ATTN: K.M. VERBRUGGEN

Page Number : 1  
 Total Pages : 1  
 Invoice Date: 20-AUG-90  
 Invoice No. : I-9020922  
 P.O. Number :

## CERTIFICATE OF ANALYSIS A9020922

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
BM 505501 R	205 294	< 5	-----	83	< 0.2						
BM 505502 R	205 294	25	-----	96	1.5						
BM 505503 R	205 294	< 5	-----	68	< 0.2						
BM 505504 R	205 294	< 5	-----	-----	< 0.2						
BM 505505 R	205 294	20	-----	-----	< 0.2						
BM 505506 R	205 294	< 5	-----	-----	< 0.2						
BM 505507 R	205 294	35	-----	-----	< 0.2						
BM 505508 R	205 294	< 5	3300	-----	0.7						
BM 505509 R	205 294	5	>10000	-----	25.0						
BM 505510 R	205 294	10	>10000	-----	24.0						
BM 505511 R	205 294	< 5	>10000	-----	22.0						
BM 505512 R	205 294	4380	>10000	-----	>100.0						
BM 505513 R	205 294	5020	>10000	-----	>100.0						
BM 505514 R	205 294	6830	>10000	-----	>100.0						
BM 505515 R	205 294	5850	>10000	-----	>100.0						
BM 505516 R	205 294	3010	>10000	-----	84.0						
BM 505517 R	205 294	185	2600	-----	3.7						
BM 505518 R	205 294	235	600	-----	1.7						
BM 505519 R	205 294	625	430	-----	3.2						

CERTIFICATION: Hart Buchler





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD. \*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 0 9 2 3

## BILLING INFORMATION

Date: 27-AUG-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9020923

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
100	- Au ppb FA+AA			
2	- Cu ppm			
6	- Ag ppm Aqua R			
238	- AQ digestion	40	11.25	450.00
100	- Au ppb FA+AA			
2	- Cu ppm			
238	- AQ digestion	1	10.25	10.25
100	- Au ppb FA+AA	1	7.50	7.50
Sample preparation and other charges.				
205	- Geochem - RING	42	1.75	73.50
294	- Crush and split	42	2.25	94.50
Total Cost \$				635.75
<b>TOTAL PAYABLE (CDN) \$</b>				<b>635.75</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9020923

Comments: ATTN; K.M. VERBRUGGEN

CERTIFICATE

A9020923

BURMIN RESOURCES LTD.

Project: M90  
P.O. # :

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 27-AUG-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	42	Geochem ring to approx 150 mesh
294	42	Crush and split (0-10 pounds)
238	42	NITRIC-AQUA REGIA DIGESTION

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	42	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2	41	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
6	40	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	100.0



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Page Number : 1  
 Total Pages : 2  
 Invoice Date: 27-AUG-90  
 Invoice No. : I-9020923  
 P.O. Number :

Project : M90  
 Comments: ATTN; K.M. VERBRUGEN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9020923</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Ag ppm Aqua R							
M90N-R01	205 294	320	2350	3.0							
M90N-R02	205 294	800	3400	2.1							
M90N-R04	205 294	20	650	1.1							
M90N-R08	205 294	2250	>10000	31.0							
M90N-R12	205 294	240	320	4.6							
M90N-R13	205 294	15	154	0.4							
M90N-R14	205 294	210	32	3.4							
M90N-R15	205 294	25	780	1.1							
M90N-R16	205 294	45	210	1.4							
M90N-R17	205 294	100	14	2.1							
M90N-F03	205 294	910	710	-----							
M90N-F05	205 294	40	550	0.4							
M90N-F06	205 294	15	84	< 0.2							
M90N-F07	205 294	10	70	< 0.2							
M90N-F09	205 294	430	44	2.6							
M90N-F10	205 294	80	20	2.2							
M90N-F11	205 294	100	16	2.4							
M90N-F18	205 294	< 5	64	< 0.2							
MD-90-R01	205 294	215	78	6.9							
MD-90-R02	205 294	35	190	0.9							
MD-90-R03	205 294	380	770	37.0							
MD-90-R04	205 294	55	500	0.9							
MD-90-R05	205 294	130	370	12.4							
MD-90-R06	205 294	505	430	41.0							
MD-90-R07	205 294	2730	1500	>100.0							
MD-90-R08	205 294	140	760	9.5							
MD-90-R09	205 294	100	670	6.8							
MD-90-R10	205 294	25	200	1.4							
MD-90-R11	205 294	30	2300	1.4							
MD-90-R12	205 294	15	4400	0.2							
MD-90-R13	205 294	30	320	0.6							
MD-90-R14	205 294	345	>10000	22.0							
MD-90-R15	205 294	20	not/##	not/##							
MD-90-R16	205 294	75	2500	1.1							
MD-90-R17	205 294	215	>10000	9.4							
MD-90-R18	205 294	125	6300	4.2							
MD-90-R19	205 294	585	>10000	39.0							
MD-90-R20	205 294	160	6100	3.0							
MD-90-R21	205 294	430	180	2.3							
MD-90-R22	205 294	20	2000	0.3							

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

Project : M90  
Comments: ATTN; K.M. VERBRUGGEN

Page Number : 2  
Total Pages : 2  
Invoice Date : 27-AUG-90  
Invoice No. : I-9020923  
P.O. Number :

## CERTIFICATE OF ANALYSIS A9020923

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Ag ppm Aqua R							
MD-90-R23	205 294	80	>10000	1.8							
MD-90-R24	205 294	40	>10000	31.0							

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 3

## BILLING INFORMATION

Date: 7-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9021963

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
301	- Cu %			
383	- Ag FA oz/T	4	15.75	63.00
301	- Cu %	4	7.00	28.00
Sample preparation and other charges.				
214	- Received as pulp	8	0.00	0.00
				Total Cost \$ 91.00
				<b>TOTAL PAYABLE (CDN) \$ 91.00</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 3

## BILLING INFORMATION

Date: 7-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9021963

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
301 -	Cu %			
383 -	Ag FA oz/T	4	15.75	63.00
301 -	Cu %	4	7.00	28.00
Sample preparation and other charges.				
214 -	Received as pulp	8	0.00	0.00
Total Cost \$				91.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>91.00</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9021963

Comments: ATTN: K. M. VERBRUGGEN

**CERTIFICATE**                      **A9021963**

BURMIN RESOURCES LTD.

Project: M90  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 7-SEP-90.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	8	Received sample as pulp

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	8	Cu %: HClO4-HNO3 digestion	AAS	0.01	100.0
383	4	Ag oz/T	FA-GRAVIMETRIC	0.01	20.00



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

Page Number : 1  
Total Pages : 1  
Invoice Date : 7-SEP-90  
Invoice No. : I-9021963  
P.O. Number :

Project : M90  
Comments : ATTN: K. M. VERBRUGGEN

## CERTIFICATE OF ANALYSIS A9021963

SAMPLE DESCRIPTION	PREP CODE	Cu %	Ag FA oz/T								
BM 505509 R	214 --	2.40	-----								
BM 505510 R	214 --	2.24	-----								
BM 505511 R	214 --	2.22	-----								
BM 505512 R	214 --	22.5	7.47								
BM 505513 R	214 --	9.67	3.79								
BM 505514 R	214 --	19.00	7.32								
BM 505515 R	214 --	19.70	8.41								
BM 505516 R	214 --	4.53	-----								

CERTIFICATION: *W. Verbruggen*





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 5

## BILLING INFORMATION

Date: 7-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9021965

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
301	- Cu %	6	7.00	42.00
383	- Ag FA oz/T	1	8.75	8.75
Sample preparation and other charges.				
214	- Received as pulp	7	0.00	0.00
			Total Cost \$	50.75
			<b>TOTAL PAYABLE (CDN) \$</b>	<b>50.75</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD. \*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 5

## BILLING INFORMATION

Date: 7-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate 19021965

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
301	- Cu %	6	7.00	42.00
383	- Ag FA oz/T	1	8.75	8.75
Sample preparation and other charges.				
214	- Received as pulp	7	0.00	0.00
			Total Cost \$	50.75
			<b>TOTAL PAYABLE (CDN) \$</b>	<b>50.75</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A902196

Comments: ATTN: K. M. VERBRUGGEN

CERTIFICATE

A9021965

BURMIN RESOURCES LTD.

Project: M90  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 7-SEP-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	7	Received sample as pulp

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	6	Cu %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
383	1	Ag oz/T	FA-GRAVIMETRIC	0.01	20.00



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

Page Number : 1  
Total Pages : 1  
Invoice Date : 07-SEP-90  
Invoice No. : I-9021965  
P.O. Number :

Project : M90  
Comments: ATTN: K. M. VERBRUGEN

## CERTIFICATE OF ANALYSIS

A9021965

SAMPLE DESCRIPTION	PREP CODE	Cu %	Ag FA oz/T									
M90N-R08	214 --	2.56	-----									
MD-90-R07	214 --	-----	7.79									
MD-90-R14	214 --	3.11	-----									
MD-90-R17	214 --	3.30	-----									
MD-90-R19	214 --	1.91	-----									
MD-90-R23	214 --	1.89	-----									
MD-90-R24	214 --	3.18	-----									

CERTIFICATION:

*W. Bertolini*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 6

## BILLING INFORMATION

Date: 6-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9021966

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
238	- AQ digestion			
4	- Pb ppm			
5	- Zn ppm	40	3.75	150.00
Sample preparation and other charges.				
214	- Received as pulp	41	0.00	0.00
Total Cost \$				150.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>150.00</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD. \*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 1 9 6 6

## BILLING INFORMATION

Date: 6-SEP-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9021966

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
238	- AQ digestion			
4	- Pb ppm			
5	- Zn ppm	40	3.75	150.00
Sample preparation and other charges.				
214	- Received as pulp	41	0.00	0.00
				Total Cost \$ 150.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>150.00</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9021966

Comments: ATTN: K. M. VERBRUGGEN

CERTIFICATE

A9021966

BURMIN RESOURCES LTD.

Project: M90  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 6-SEP-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	41	Received sample as pulp
238	41	NITRIC-AQUA REGIA DIGESTION

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
4	40	Pb ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
5	40	Zn ppm: HNO3-aqua regia digest	AAS	1	10000



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

Project : M90  
Comments: ATTN: K. M. VERBRUGGEN

Page Number : 1  
Total Pages : 2  
Invoice Date : 6-SEP-90  
Invoice No. : I-9021966  
P.O. Number :

## CERTIFICATE OF ANALYSIS

A9021966

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm								
M90N-R01	214 238	92	250								
M90N-R02	214 238	29	104								
M90N-R04	214 238	50	134								
M90N-R08	214 238	51	126								
M90N-R12	214 238	122	86								
M90N-R13	214 238	21	120								
M90N-R14	214 238	213	22								
M90N-R15	214 238	16	22								
M90N-R16	214 238	15	42								
M90N-R17	214 238	8	72								
M90N-F03	214 238	10	58								
M90N-F05	214 238	3	130								
M90N-F06	214 238	6	38								
M90N-F07	214 238	7	30								
M90N-F09	214 238	120	10								
M90N-F10	214 238	79	10								
M90N-F11	214 238	48	72								
M90N-F18	214 238	30	82								
MD-90-R01	214 238	770	830								
MD-90-R02	214 238	40	160								
MD-90-R03	214 238	820	1900								
MD-90-R04	214 238	36	140								
MD-90-R05	214 238	610	470								
MD-90-R06	214 238	1300	1200								
MD-90-R07	214 238	>10000	>10000								
MD-90-R08	214 238	600	1000								
MD-90-R09	214 238	350	670								
MD-90-R10	214 238	65	150								
MD-90-R11	214 238	48	80								
MD-90-R12	214 238	12	80								
MD-90-R13	214 238	11	28								
MD-90-R14	214 238	30	186								
MD-90-R15	214 238	not/ss	not/ss								
MD-90-R16	214 238	9	86								
MD-90-R17	214 238	8	90								
MD-90-R18	214 238	4	100								
MD-90-R19	214 238	41	38								
MD-90-R20	214 238	4	100								
MD-90-R21	214 238	7	26								
MD-90-R22	214 238	9	24								

CERTIFICATION:

*Hart Bickler*





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

Page Number : 2  
Total Pages : 2  
Invoice Date: 6-SEP-90  
Invoice No. : I-9021966  
P.O. Number :

Project : M90  
Comments: ATTN: K. M. VERBRUGGEN

## CERTIFICATE OF ANALYSIS

A9021966

SAMPLE DESCRIPTION	PREP CODE		Pb ppm	Zn ppm								
MD-90-R23	214	238	23	46								

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD. \*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 3 6 9 6

## BILLING INFORMATION

Date: 4-OCT-90  
Project: M90  
P.O. No.: NONE  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9023696

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
396 -	Au FA oz/T			
385 -	Ag oz/T			
G3 -	Cu, Pb, Zn PKG	8	27.75	222.00
396 -	Au FA oz/T	16	9.25	148.00
Sample preparation and other charges.				
214 -	Received as pulp	25	0.00	0.00
Total Cost \$				370.00
<b>TOTAL PAYABLE (CDN) \$</b>				<b>370.00</b>



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9023696

Comments: ATTN: KONRAD VERBRUGGEN

CERTIFICATE

A9023696

BURMIN RESOURCES LTD.

Project: M90  
P.O. #: NONE

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 4-OCT-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	25	Received sample as pulp

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
396	24	Au oz/T: 1/2 assay ton	FA-GRAVIMETRIC	0.003	20.000
385	8	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0
301	8	Cu %: HClO4-HNO3 digestion	AAS	0.01	100.0
312	8	Pb %: HClO4-HNO3 digestion	AAS	0.01	100.0
316	8	Zn %: HClO4-HNO3 digestion	AAS	0.01	100.0



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Page Number : 1  
 Total Pages : 1  
 Invoice Date : 4-OCT-90  
 Invoice No. : I-9023696  
 P.O. Number : NONE

Project : M90  
 Comments : ATTN: KONRAD VERBRUGGEN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9023696</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au FA oz/T	Ag oz/T	Cu %	Pb %	Zn %				
BM 505509 R	214 --	< 0.003	0.82	2.46	0.01	0.01				
BM 505510 R	214 --	< 0.003	0.74	2.25	< 0.01	0.01				
BM 505511 R	214 --	< 0.003	0.67	2.25	0.01	0.01				
BM 505512 R	214 --	0.142	7.34	22.3	0.02	0.01				
BM 505513 R	214 --	0.269	3.61	9.48	0.03	0.01				
BM 505514 R	214 --	0.138	7.09	18.60	0.01	0.01				
BM 505515 R	214 --	0.155	8.09	19.70	0.01	0.01				
BM 505516 R	214 --	0.084	2.55	4.61	0.01	0.01				
M90N-R08	214 --	0.068	-----	-----	-----	-----				
MD-90-R07	214 --	0.119	-----	-----	-----	-----				
MD-90-R14	214 --	0.014	-----	-----	-----	-----				
MD-90-R17	214 --	0.012	-----	-----	-----	-----				
MD-90-R19	214 --	0.010	-----	-----	-----	-----				
MD-90-R23	214 --	< 0.003	-----	-----	-----	-----				
MD-90-R24	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-03	214 --	0.012	-----	-----	-----	-----				
MD-90R-04	214 --	0.004	-----	-----	-----	-----				
MD-90R-05	214 --	0.008	-----	-----	-----	-----				
MD-90R-06	214 --	0.022	-----	-----	-----	-----				
MD-90R-08	214 --	0.012	-----	-----	-----	-----				
MD-90R-09	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-10	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-11	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-12	214 --	0.010	-----	-----	-----	-----				
MD-90R-15	214 --	not/ass	-----	-----	-----	-----				

CERTIFICATION: *W. J. Burmin*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Project: M90  
 Comments: ATTN: KONRAD VERBRUGGEN

Page Number: 1  
 Total Pages: 1  
 Invoice Date: 4-OCT-90  
 Invoice No.: I-9023696  
 P.O. Number: NONE

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9023696</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au FA oz/T	Ag oz/T	Cu %	Pb %	Zn %				
BM 505509 R	214 --	< 0.003	0.82	2.46	0.01	0.01				
BM 505510 R	214 --	< 0.003	0.74	2.25	< 0.01	0.01				
BM 505511 R	214 --	< 0.003	0.67	2.25	0.01	0.01				
BM 505512 R	214 --	0.142	7.34	22.3	0.02	0.01				
BM 505513 R	214 --	0.269	3.61	9.48	0.03	0.01				
BM 505514 R	214 --	0.138	7.09	18.60	0.01	0.01				
BM 505515 R	214 --	0.155	8.09	19.70	0.01	0.01				
BM 505516 R	214 --	0.084	2.55	4.61	0.01	0.01				
M90N-R08	214 --	0.068	-----	-----	-----	-----				
MD-90-R07	214 --	0.119	-----	-----	-----	-----				
MD-90-R14	214 --	0.014	-----	-----	-----	-----				
MD-90-R17	214 --	0.012	-----	-----	-----	-----				
MD-90-R19	214 --	0.010	-----	-----	-----	-----				
MD-90-R23	214 --	< 0.003	-----	-----	-----	-----				
MD-90-R24	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-03	214 --	0.012	-----	-----	-----	-----				
MD-90R-04	214 --	0.004	-----	-----	-----	-----				
MD-90R-05	214 --	0.008	-----	-----	-----	-----				
MD-90R-06	214 --	0.022	-----	-----	-----	-----				
MD-90R-08	214 --	0.012	-----	-----	-----	-----				
MD-90R-09	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-10	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-11	214 --	< 0.003	-----	-----	-----	-----				
MD-90R-12	214 --	0.010	-----	-----	-----	-----				
MD-90R-15	214 --	not/##	-----	-----	-----	-----				

CERTIFICATION: *W. Verbruggen*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

\*

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

INVOICE NUMBER

I 9 0 2 0 9 2 1

## BILLING INFORMATION

Date: 21-AUG-90  
Project: M90  
P.O. No.:  
Account: IHH

Comments:

Billing: For analysis performed on  
Certificate I9020921

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
100	- Au ppb FA+AA			
2	- Cu ppm			
4	- Pb ppm			
5	- Zn ppm			
6	- Ag ppm Aqua R			
238	- AQ digestion	181	13.25	2398.25
Sample preparation and other charges.				
201	- -80 mesh sieve	180	1.00	180.00
203	- -35 mesh sieve	1	0.75	0.75
205	- Geochem - RING	1	1.75	1.75
Total Cost \$				2580.75
TOTAL PAYABLE (CDN) \$				2580.75



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
VANCOUVER, BC  
V6B 2L3

A9020921

Comments: ATTN: K.M. VERBRUGGEN

CERTIFICATE

A9020921

BURMIN RESOURCES LTD.

Project: M90  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 21-AUG-90.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	180	Dry, sieve to -80 mesh
203	1	Dry, sieve to -35 mesh
205	1	Geochem ring to approx 150 mesh
238	181	NITRIC-AQUA REGIA DIGESTION

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	181	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2	181	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
4	181	Pb ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
5	181	Zn ppm: HNO3-aqua regia digest	AAS	1	10000
6	181	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	100.0



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Project : M90  
 Comments: ATTN: K.M. VERBRUGGEN

Page Number : 1  
 Total Pages : 5  
 Invoice Date : 21-AUG-90  
 Invoice No. : I-9020921  
 P.O. Number :

## CERTIFICATE OF ANALYSIS A9020921

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
A000S	201 238	25	440	8	120	< 0.2					
A020S	201 238	40	550	10	92	< 0.2					
A040S	201 238	70	950	6	120	< 0.2					
A060S	201 238	35	690	6	118	< 0.2					
A080S	201 238	15	520	6	90	< 0.2					
A100S	201 238	10	200	5	70	< 0.2					
A120S	201 238	< 5	170	5	82	< 0.2					
A140S	201 238	< 5	170	6	108	< 0.2					
A160S	201 238	10	225	10	136	< 0.2					
A180S	201 238	20	190	6	100	< 0.2					
A200S	201 238	< 5	74	4	146	< 0.2					
A220S	201 238	< 5	60	6	104	< 0.2					
A240S	201 238	25	90	8	106	< 0.2					
A260S	201 238	< 5	80	6	104	< 0.2					
A280S	201 238	< 5	190	6	120	< 0.2					
A300S	201 238	< 5	82	6	90	< 0.2					
B000S	201 238	< 5	128	6	114	< 0.2					
B020S	201 238	< 5	140	6	114	< 0.2					
B040S	201 238	< 5	60	5	78	< 0.2					
B060S	201 238	< 5	46	5	64	< 0.2					
B080S	201 238	< 5	66	4	78	0.2					
B100S	201 238	< 5	48	4	100	0.3					
B120S	201 238	< 5	44	4	106	< 0.2					
B140S	201 238	< 5	50	2	90	< 0.2					
B160S	201 238	< 5	26	2	68	< 0.2					
B180S	201 238	< 5	48	2	72	< 0.2					
B200S	201 238	< 5	28	4	50	< 0.2					
B220S	201 238	< 5	26	4	76	< 0.2					
B240S	201 238	< 5	58	6	138	< 0.2					
B260S	201 238	< 5	76	4	134	< 0.2					
B280S	201 238	< 5	40	6	90	< 0.2					
B300S	201 238	< 5	20	2	88	< 0.2					
C040S	201 238	< 5	14	6	80	< 0.2					
C060S	201 238	< 5	10	4	64	< 0.2					
C080S	201 238	< 5	9	4	76	< 0.2					
C100S	201 238	< 5	8	2	46	< 0.2					
C120S	201 238	< 5	14	4	84	< 0.2					
C140S	201 238	< 5	10	4	74	< 0.2					
C160S	201 238	< 5	8	4	50	< 0.2					
C180S	201 238	< 5	8	3	42	< 0.2					

CERTIFICATION: Hart Buchler





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

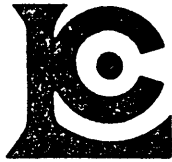
Project : M90  
 Comments: ATTN: K.M. VERBRUGGEN

Page Number : 2  
 Total Pages : 5  
 Invoice Date: 21-AUG-90  
 Invoice No. : I-9020921  
 P.O. Number :

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9020921</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R				
D000S	201 238	< 5	72	2	90	< 0.2				
D020S	201 238	< 5	48	2	80	< 0.2				
D040S	201 238	< 5	22	2	68	< 0.2				
D060S	201 238	< 5	26	4	74	< 0.2				
D080S	201 238	< 5	22	4	74	< 0.2				
D100S	201 238	< 5	14	2	106	< 0.2				
D120S	201 238	< 5	14	2	90	< 0.2				
D140S	201 238	< 5	14	< 2	94	< 0.2				
D160S	201 238	< 5	12	6	62	< 0.2				
D180S	201 238	< 5	15	4	80	< 0.2				
D200S	201 238	< 5	12	4	78	< 0.2				
D220S	201 238	< 5	14	2	110	< 0.2				
D240S	201 238	< 5	13	2	80	< 0.2				
D260S	201 238	< 5	13	2	94	< 0.2				
D280S	201 238	< 5	12	2	74	< 0.2				
D300S	201 238	< 5	12	2	90	< 0.2				
E000S	201 238	< 5	32	2	88	< 0.2				
E020S	201 238	< 5	28	2	88	< 0.2				
E040S	201 238	< 5	30	2	74	< 0.2				
E060S	201 238	< 5	31	2	80	< 0.2				
E080S	201 238	< 5	35	2	78	< 0.2				
E100S	201 238	< 5	48	2	82	< 0.2				
E120S	201 238	< 5	26	2	80	< 0.2				
E140S	201 238	< 5	30	2	84	< 0.2				
E160S	201 238	< 5	28	2	70	< 0.2				
E180S	201 238	< 5	30	2	70	< 0.2				
E200S	201 238	< 5	22	2	72	< 0.2				
E220S	201 238	< 5	27	2	72	< 0.2				
E240S	201 238	< 5	18	2	70	< 0.2				
E260S	201 238	< 5	16	4	60	0.2				
E280S	201 238	< 5	12	2	50	< 0.2				
E300S	201 238	< 5	40	3	56	< 0.2				
F000S	201 238	< 5	28	2	80	< 0.2				
F020S	201 238	< 5	20	2	80	< 0.2				
F040S	201 238	< 5	28	2	88	< 0.2				
F060S	201 238	< 5	30	2	86	< 0.2				
F080S	201 238	< 5	70	2	84	< 0.2				
F100S	201 238	< 5	36	2	78	< 0.2				
F120S	201 238	< 5	30	2	74	< 0.2				
F160S A	201 238	10	30	4	80	< 0.2				

CERTIFICATION: Hart Buehler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Project: M90  
 Comments: ATTN: K.M. VERBRUGGEN

Page Number: 3  
 Total Pages: 5  
 Invoice Date: 21-AUG-90  
 Invoice No.: I-9020921  
 P.O. Number:

## CERTIFICATE OF ANALYSIS A9020921

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
F160S B	201 238	< 5	32	4	80	< 0.2					
F180S	201 238	< 5	26	3	56	< 0.2					
F200S	201 238	< 5	26	4	82	< 0.2					
F220S	201 238	< 5	24	4	54	0.3					
F240S	201 238	< 5	58	2	76	< 0.2					
F260S	201 238	< 5	42	2	76	< 0.2					
F280S	201 238	< 5	35	2	76	< 0.2					
F300S	201 238	< 5	30	2	70	< 0.2					
G000S	201 238	20	440	6	118	0.3					
G020S	201 238	40	430	10	88	< 0.2					
G040S	201 238	10	255	8	90	0.2					
G060S	201 238	20	430	26	80	< 0.2					
G080S	201 238	< 5	186	8	100	< 0.2					
G100S	201 238	15	450	6	104	0.2					
G120S	201 238	< 5	230	6	90	0.4					
G140S	201 238	< 5	340	6	116	< 0.2					
G160S	201 238	< 5	74	8	90	< 0.2					
G180S	201 238	< 5	96	6	80	< 0.2					
G200S	201 238	< 5	122	6	94	< 0.2					
G220S	201 238	< 5	44	6	74	< 0.2					
G240S	201 238	< 5	150	4	84	< 0.2					
G260S	201 238	< 5	96	2	70	< 0.2					
G280S	201 238	< 5	90	4	70	< 0.2					
G300S	201 238	< 5	130	6	80	< 0.2					
H0000S	201 238	< 5	110	4	110	< 0.2					
H0050S	201 238	< 5	50	10	78	< 0.2					
H0100S	201 238	< 5	34	6	28	< 0.2					
H0150S	201 238	< 5	22	6	28	< 0.2					
H0200S	201 238	< 5	136	6	96	< 0.2					
H0250S	201 238	< 5	58	5	34	< 0.2					
H0300S	201 238	< 5	56	6	36	< 0.2					
H0350S	201 238	< 5	30	4	16	< 0.2					
H0400S	201 238	< 5	34	4	26	< 0.2					
H0450S	201 238	< 5	38	4	30	< 0.2					
H0500S	201 238	< 5	46	8	34	0.3					
H0550S	201 238	< 5	20	4	16	< 0.2					
H0600S	201 238	< 5	50	10	46	< 0.2					
H0650S	201 238	< 5	60	4	56	< 0.2					
H0700S	201 238	< 5	20	4	30	< 0.2					
H0750S	201 238	< 5	40	6	50	< 0.2					

CERTIFICATION:

*Hart Buchler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

Page Number : 4  
 Total Pages : 5  
 Invoice Date: 21-AUG-90  
 Invoice No. : I-9020921  
 P.O. Number :

Project : M90  
 Comments: ATTN: K.M. VERBRUGGEN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9020921</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
H0800S	201	238	< 5	20	8	30	< 0.2				
H0850S	201	238	< 5	28	6	44	< 0.2				
H0900S	201	238	< 5	28	6	44	< 0.2				
H0950S	201	238	< 5	28	4	42	0.2				
H1000S	201	238	< 5	22	4	34	< 0.2				
H1050S	201	238	< 5	16	6	34	< 0.2				
H1100S	201	238	< 5	38	8	54	< 0.2				
H1150S	201	238	< 5	34	6	52	< 0.2				
H1200S	201	238	< 5	20	6	34	0.2				
H1250S	201	238	< 5	18	6	38	< 0.2				
H1300S	201	238	< 5	30	6	66	< 0.2				
H1350S	201	238	< 5	28	6	48	< 0.2				
H1400S	201	238	< 5	18	4	36	< 0.2				
H1450S	201	238	< 5	32	8	44	0.3				
H1500S	201	238	110	19	6	34	< 0.2				
H1550S	201	238	30	26	6	40	< 0.2				
H1600S	201	238	20	54	5	50	< 0.2				
H1650S	201	238	10	84	6	70	< 0.2				
H1700S	201	238	15	48	6	60	< 0.2				
H1750S	201	238	50	30	4	34	< 0.2				
H1800S	201	238	< 5	11	4	20	0.6				
H1850S	201	238	< 5	32	4	54	0.6				
H1900S	201	238	25	32	6	40	0.2				
H1950S	201	238	10	112	4	96	0.2				
H2000S	201	238	45	60	2	68	0.5				
I0000S	201	238	15	34	3	60	< 0.2				
I0050S	201	238	55	30	3	44	0.4				
I0100S	201	238	30	28	3	42	0.5				
I0150S	201	238	50	26	3	28	0.6				
I0200S	201	238	85	66	2	40	0.3				
I0250S	201	238	35	86	6	70	< 0.2				
I0300S	201	238	50	84	4	74	< 0.2				
I0350S	201	238	15	32	3	36	< 0.2				
I0400S	201	238	15	30	2	34	0.2				
I0450S	201	238	20	24	2	36	0.2				
I0500S	201	238	30	72	3	50	0.8				
I0550S	201	238	35	28	3	32	0.2				
I0600S	201	238	15	25	2	32	0.2				
I0650S	201	238	115	146	12	134	0.4				
I0700S	201	238	10	56	9	150	< 0.2				

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: BURMIN RESOURCES LTD.

548 BEATTY ST.  
 VANCOUVER, BC  
 V6B 2L3

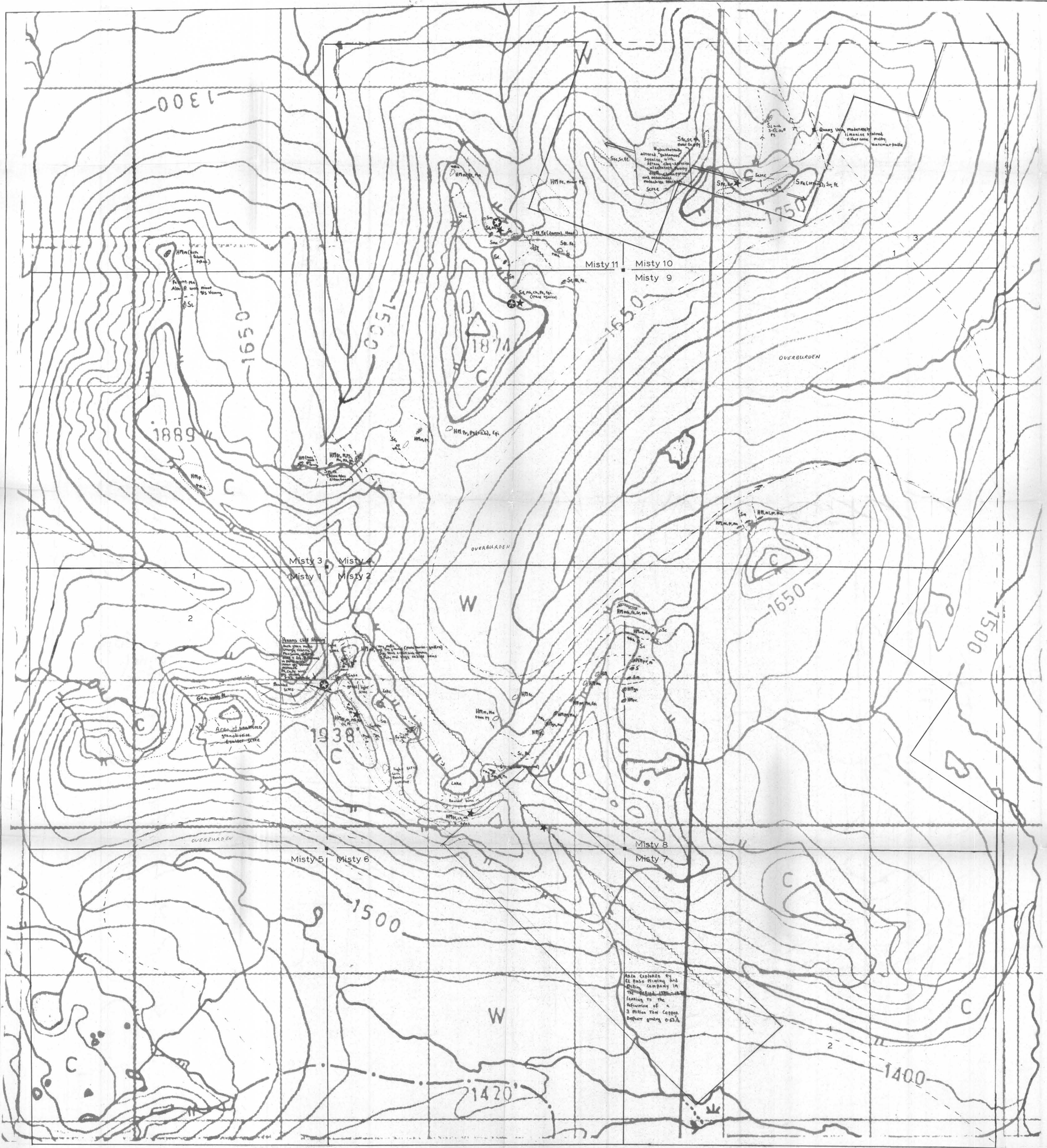
Page Number : 5  
 Total Pages : 5  
 Invoice Date : 21-AUG-90  
 Invoice No. : I-9020921  
 P.O. Number :

Project : M90  
 Comments : ATTN: K.M. VERBRUGGEN

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9020921</b>
--------------------------------	-----------------

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R				
I0750S	201 238	45	96	8	70	0.2				
I0800S	201 238	15	120	9	134	0.3				
I0850S	201 238	95	38	5	40	0.2				
I0900S	201 238	25	150	5	94	< 0.2				
I0950S	201 238	15	46	4	50	< 0.2				
I1000S	201 238	10	62	5	50	0.2				
I1050S	201 238	< 5	98	4	54	< 0.2				
I1100S	201 238	< 5	400	4	80	< 0.2				
I1150S	201 238	< 5	76	5	58	< 0.2				
I1200S	201 238	< 5	100	3	60	0.3				
I1250S	201 238	< 5	58	4	50	< 0.2				
I1300S	201 238	< 5	68	3	60	0.2				
I1350S	201 238	< 5	44	4	46	0.4				
I1400S	201 238	< 5	66	3	56	< 0.2				
I1450S	201 238	< 5	126	4	70	< 0.2				
I1500S	201 238	< 5	26	3	32	0.3				
NL1	203 205	< 5	56	7	72	< 0.2				
NL2	201 238	< 5	200	2	84	< 0.2				
NL3	201 238	15	410	14	140	< 0.2				
NL4	201 238	< 5	190	10	180	< 0.2				
NL5	201 238	50	160	8	120	0.2				

CERTIFICATION: Hart Buchler



LEGEND

Regional Geology (After Garnet 1978)

- 1 Mainly foliated migmatitic syenite (Part of Duckling Creek Syenite Complex)
- 2 Granodiorite, quartz monzoniorite (Minor tonalite, quartz diorite, quartz monzonite, granite)
- 3 Monzoniorite, quartz monzoniorite

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,307  
1990 Geology

- HM — Hornblende Monzonite
- S — Syenite
- G — Granodiorite

Mineralised Showing  
★ Cu  
☆ Au

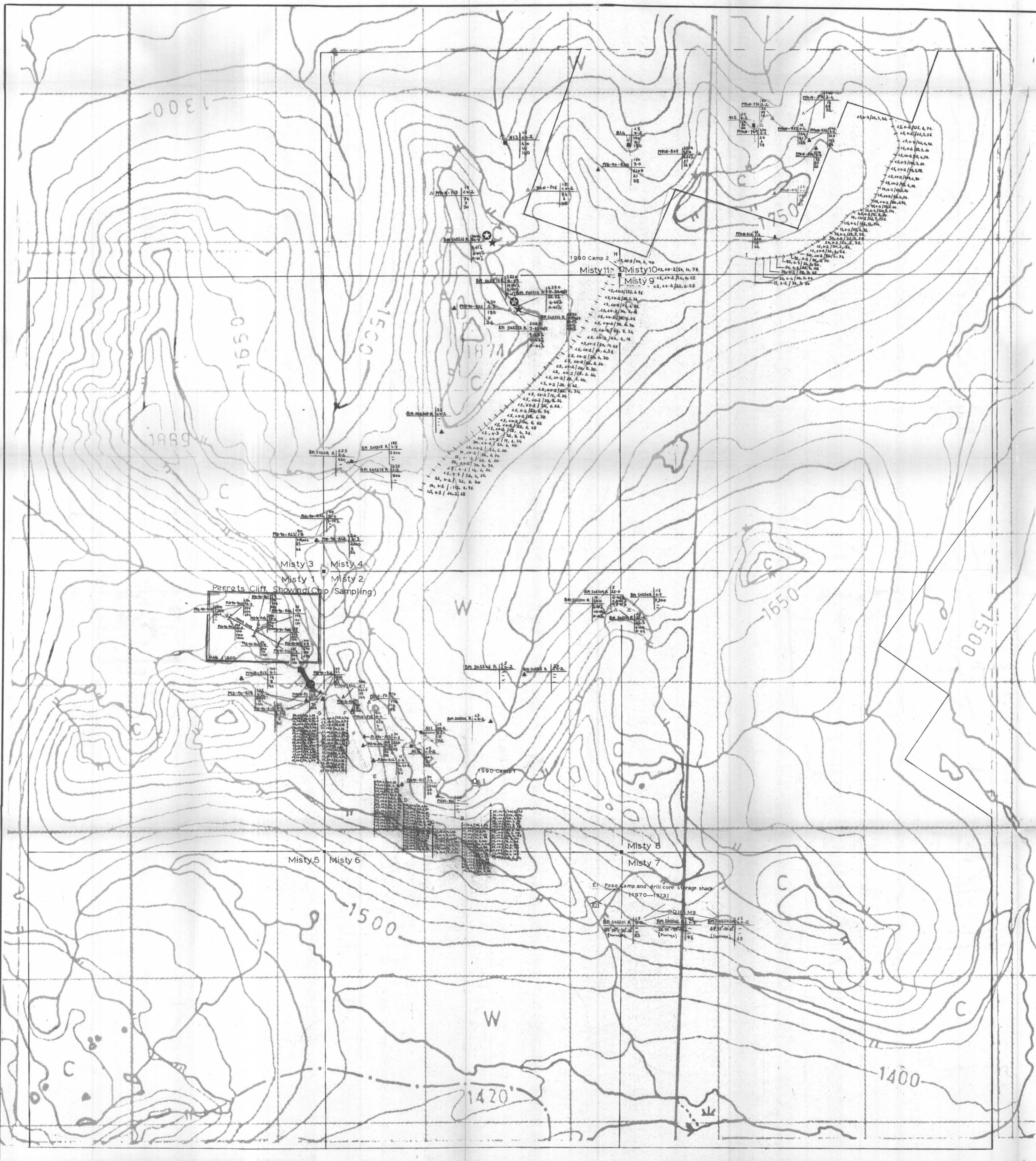
- P Pegmatitic
- l Leucocratic
- m Mesocratic
- ml Melanocratic
- fl Foliated
- gn Gneissic
- pr Porphyritic
- Mn Magnetic
- Fe Limonitic
- Cu Chalcopryite
- mal Malachite
- Py Pyrite
- Pb Galena
- ch Chloritised
- Sr Sericitised
- Epi Epidotised
- A Asbestos (minor)

- OUTCROP
- SCREE
- GEOLOGICAL CONTACT INFERRED
- FAULT/SHEAR ZONE
- FOLIATION/FOLIATION VERTICAL
- JOINTS/FRACTURES
- QUARTZ VEIN
- DYKE
- STREAM

0 200 500 750 Metres

ARANLEE RESOURCES LTD		
MISTY CLAIMS		
GEOLOGY		
BURMIN Resources Ltd Geology: NOK B.D.M.	Scale: 1:10,000 Date: Nov 1990 Drawn by: NOK	NTS: 93N 13E Figure: 7

Area outlined by El Paso Mining and Refining Company in the regional map showing the location of a 2 Million Ton Copper Definite grade area.



LEGEND

- ▲ ROCK GRAB SAMPLE—OUTCROP
- △ " " " "—FLOAT
- STREAM SEDIMENT SAMPLE

Au, Ag in oz/t; Cu, Pb, Zn, in % where stated.  
 — No Analysis

▲ Au(ppb), Ag(ppm), Cu(ppm), Pb(ppm), Zn(ppm)—SOIL SAMPLE

Stream  
 (Contours in metres)

Mineralised Showing

- ★ Cu
- ⊙ Au

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

21,307

0 200 500 750 Metres

ARANLEE RESOURCES LTD  
 MISTY CLAIMS  
 Omineca M.D., B.C.

Rock Soil and Stream  
 Geochemistry

BURMIN Resources Ltd Scale 1:10,000 NTS 83N 13E  
 Date Nov 1990 Figure 8  
 drawn by NGK