



TYPE OF REPORT/SURVEY(S) PHYSICAL; GEOCHEMICAL	TOTAL COST \$ 28,575.54
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AUTHOR(S) BRADFORD J. COOKE SIGNATURE(S) Brad Cooke

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED April 25, 1986 YEAR OF WORK 1985

PROPERTY NAME(S) MINTO MINE

COMMODITIES PRESENT Au, Ag, Cu, Pb, Zn, Sb

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 92 J/NE-75

MINING DIVISION LILLOOET NTS 92 J/15E, 15W

LATITUDE 50° 53.9' LONGITUDE 122° 45.1'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]: Hillside Ext. 1-2 (Lots 3661, 3662), Minto Fr. (Lot 3664), Prince (Lot 3665), Frank Fr. (Lot 3666), Ex Fr. (Lot 3670) Om Fr. (Lot 5718) Omega (Lot 5600), Omega 1-4 (Lots 5601, 5602, 5603, 5604), Alph. Fr. (Lot 5719), Jack Fr. (Lot 7078), Golden Girl (Lot 3660)

OWNER(S) (1) ANIMO MINES AND RESOURCES LTD (2)

MAILING ADDRESS 100-455 GRANVILLE ST. VANCOUVER BC V6C 1T1

OPERATOR(S) (that is, Company paying for the work) (1) SAME (2)

MAILING ADDRESS as above

FILMED

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude): The claims are underlain by north striking, steeply dipping basaltic dykes and cherty sediments of the Middle Tertiary Bridge River Group which are intruded by tertiary age porphyry dikes. Mineralization consists of arsenopyrite, pyrite, stibnite, tetrahedrite, sphalerite and galena and occur in unusual and stratigraphic contacts along shear zones near

REFERENCES TO PREVIOUS WORK A.R. 5364

SUMMARY

The purpose of this document is to report on assessment work carried out on the Minto property between November 1 and December 15, 1985 as recommended by the writer in his qualifying report (Cooke, 1985). Included in this report are the results of talus sampling and excavator trenching, but not line cutting, geological mapping, soil sampling and VLF-EM surveying, which were covered in an earlier report (Symonds, 1985).

The Minto property occurs in the Bridge River district east of the main Bralorne-Pioneer belt of Triassic volcanic and sedimentary rocks. It is underlain by basaltic volcanics and cherty sediments of the Triassic Bridge River Group, intruded by porphyry dikes of Tertiary age, and mineralized with gold and silver along narrow shears near intrusive and stratigraphic contacts.

Some 57 talus samples were collected over 1.5 kilometres at 25 metre intervals along the main road to evaluate the less accessible cliffs above the road. A total of 24 trenches and 1.5 kilometres of road were dug to follow up geological and geochemical anomalies.

Virtually all of the talus samples are anomalous in Au, Ag, As, Sb, Pb and Zn due to downhill dispersion and sidehill contamination from known veins. However, at least one anomaly may reflect a hidden vein in the cliffs some 600 metres east of the Main adit.

Three new gold-bearing shear zones were discovered (Ponderosa, Winter, Rainbow), one old mineralized vein was extended (Dauntless) and two other areas (Minto, View) were tested. A best intersection of 0.23 oz/ton gold over 1.0 metres width was obtained on the Rainbow zone.

All six mineralized zones (Minto, Dauntless, View, Ponderosa, Winter, Rainbow) require more trenching, especially where the Winter and Rainbow zones intersect, where the Minto and Dauntless zones intersect and northwest of the View zones where three gullies contain porphyry dike fragments. The cliffs over the road also need more detailed mapping and sampling to explain the talus anomalies and evaluate the low grade, bulk tonnage potential of the porphyry dikes.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,740

A two phase, CA \$200,000 program is recommended to explore the Minto property. Phase 1, a continuation of surface work started in 1985, includes geological mapping, excavator trenching, underground sampling and sonic drilling, at a cost of CA \$50,000 over a one month period. Phase 2, contingent upon the successful completion of Phase 1, involves diamond drilling from surface, at a cost of CA \$150,000 over a two month period.

Phase 1 surface exploration calls for 5 kilometres of geological mapping to evaluate the cliffs above the road, 2 kilometres of excavator trenching to extend the known veins and discover new veins, 1 kilometre of underground sampling in the Main and Winter adits to identify potential ore shoots, and 500 feet of sonic drilling to test the old tailings for their gold content.

Phase 2 diamond drilling encompasses 6,000 feet in 20 holes to explore the Minto, Dauntless, Winter and Rainbow zones at 165 foot intervals along strike and down dip.

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INTRODUCTION

Purpose and Scope

The purpose of this document is to report on assessment work carried out on the Minto property between November 1 and December 15, 1985 as recommended by the writer in his qualifying report (Cooke, 1985). Included in this report are the results of talus sampling and excavator trenching, but not line cutting, geological mapping, soil sampling and VLF-EM surveying, which were covered in an earlier report (Symonds, 1985).

Location and Access

Minto property is located approximately 9 kilometres northeast of Goldbridge and 180 kilometres north-northeast of Vancouver in southwestern British Columbia (Figure 1). Access to the property is by automobile from Vancouver, 145 kilometres east on Highway 1 to Hope, 225 kilometres north on Highways 1 and 12 to Lillooet, and 100 kilometres west on gravel road towards Goldbridge, where several old logging and powerline roads cross the claims.

Physiography and Climate

The claims lie north of Carpenter Lake and south of Mowson Pond, at elevations of 655 metres along the lake to 1,020 metres on top of the hill southwest of the pond. Vegetation cover is typical coniferous forest that was selectively logged in the past, and the climate is characterized by hot, dry summers and cool, snowy winters.

Accommodation and Labour

Goldbridge Hotel is convenient for room and board, self-contained suites are available for rent in Goldbridge, and there is a recreational campsite at Gun Creek. Cooke Geological Consultants Ltd. supervised the exploration program and contracted Hoedown Creek Resources Ltd. to carry out road building and excavator trenching.

Claims Description

The Minto property consists of eight (8) crown grants, two of which are not contiguous with the others, and eight (8) reverted crown grants, totalling sixteen (16) units and covering 204 hectares in the Lillooet Mining Division (Figure 2). Total annual assessment on the claims is \$869.22 for the whole group, rising to \$1,669.22 after three years of filing (Table 1).

Mining History

Exploration and mining history is summarized from the reports of many workers on the Minto property, with emphasis on British Columbia Minister of Mines Annual Reports and Company Reports (see References).

First staked around 1910, the claims were worked intermittently until 1930, when Consolidated Mining and Smelting Company of Canada Ltd. optioned the property and drove the River (400), Hagmo (200) and Warren (100) adits in 1931 and 1932. Minto Gold Mines Ltd. acquired the claims in 1933, extended the existing tunnels and drove the Main (300) adit, an internal shaft, and the 500 and 700 levels, producing 50 tons per day in 1934 and 125 tons per day between 1935 and 1937.

Some broken ore and underground pillars were extracted in 1940 and Pioneer Gold Mines Ltd. took an option on the property in 1941, but dropped it in 1942. Total production from the Minto mine amounted to 88,902 tons ore grading 0.20 oz/ton gold and 0.58 oz/ton silver.

The Winter zone was discovered in 1943 and an adit was driven 145 metres on the vein. Surface trenching and diamond drilling, totalling 514 metres in seven (7) holes, were undertaken in 1944, followed by 691 metres of diamond drilling in seven (7) holes underground in 1945. The property fell dormant thereafter until Avino Mines and Resources Ltd. acquired the claims in 1985 and carried out surface surveys, in preparation for the trenching and sampling program reported herein.

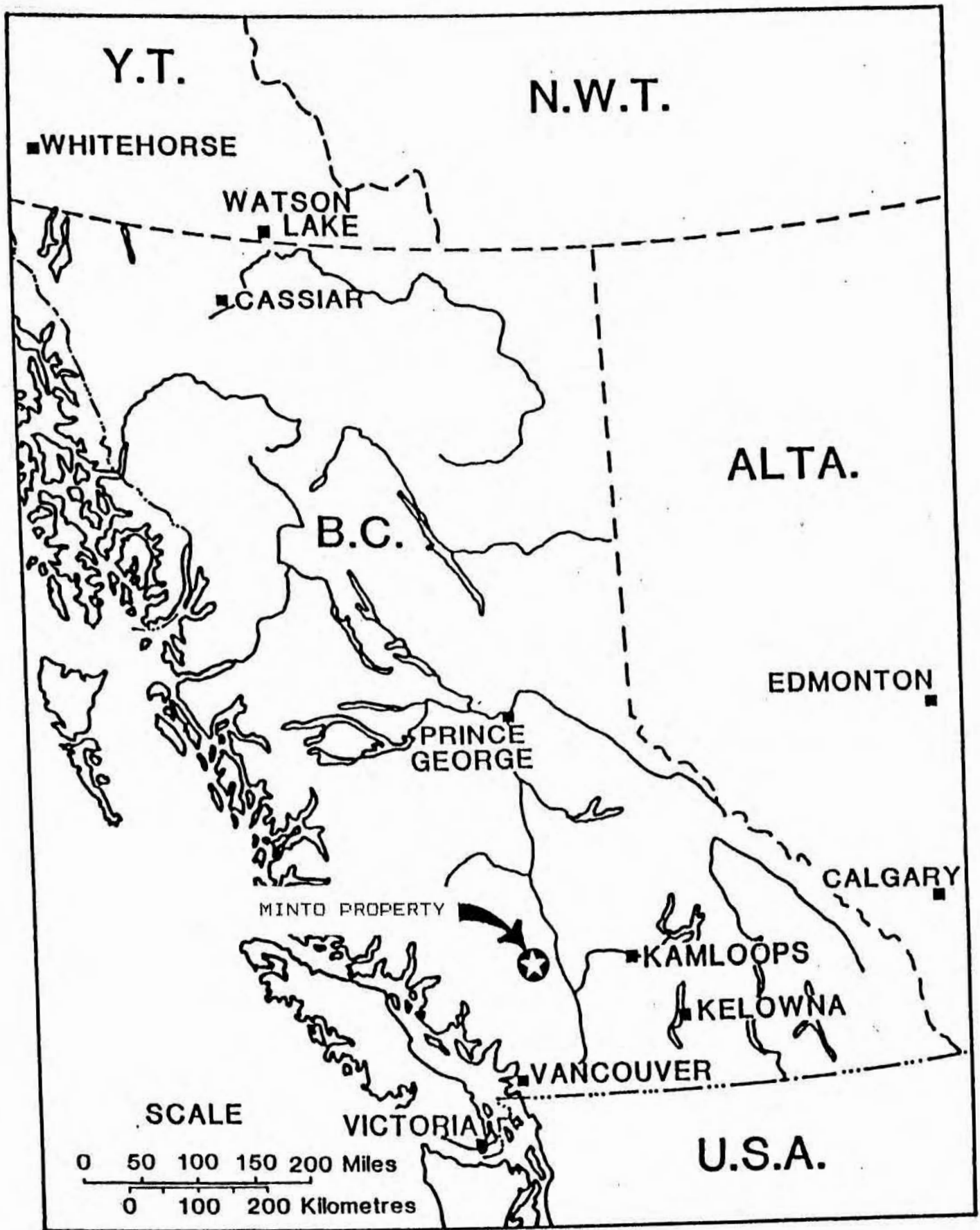


Figure 1. Location map.

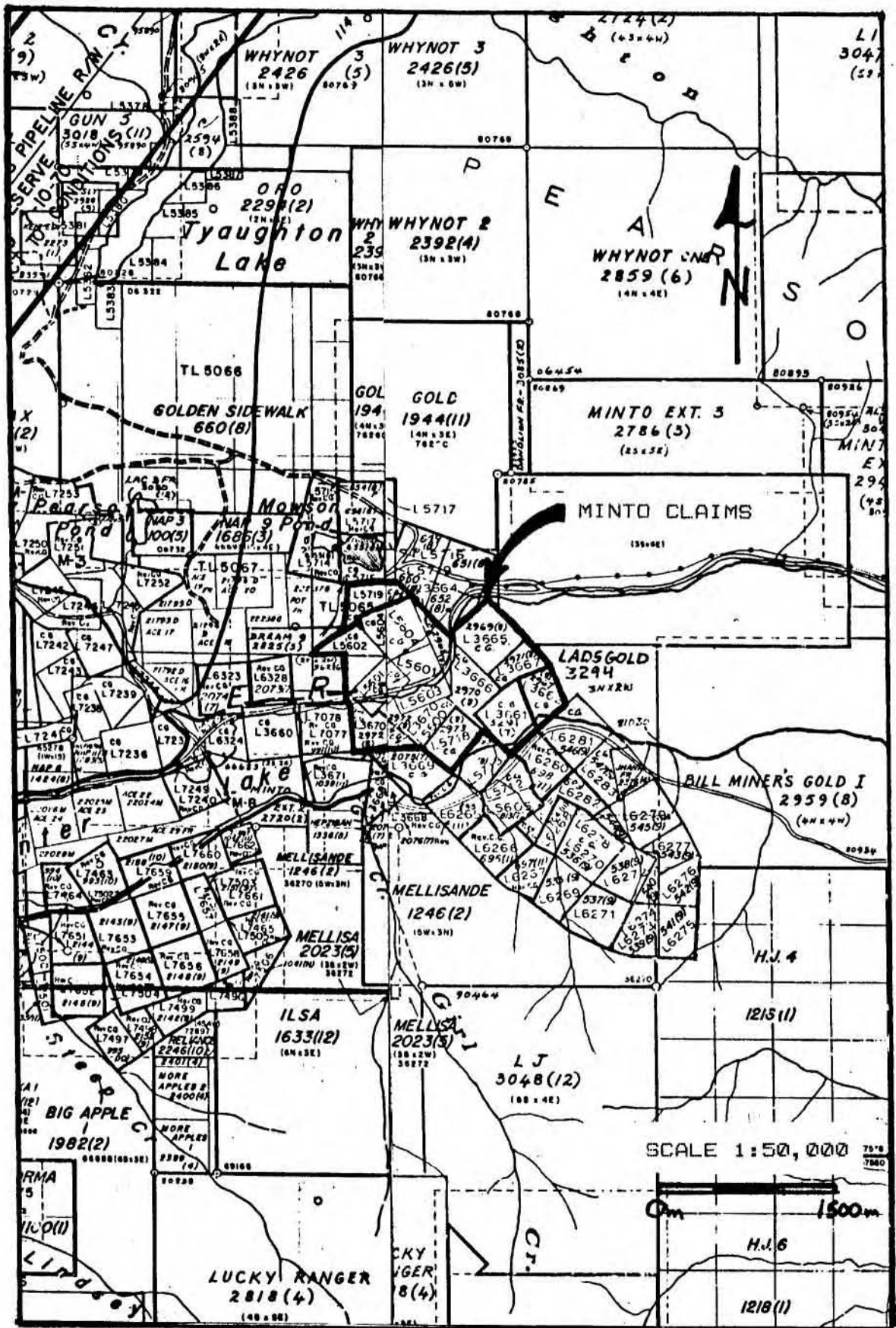


FIGURE 2: Claim map.

<u>Name</u>	<u>Record</u>	<u>Lot</u>	<u>Assess.</u>	<u>Expiry</u>
Omega		5600	56.26	31Dec85
Omega 1		5601		"
Omega 2		5602		"
Omega 3		5603		"
Omega 4		5604		"
Alph Fr.		5719		"
Jack Fr.		7078	12.96	"
Golden Girl		3660		"
Hillside Ext. 1	2933	3661	100.00	26Jul85
Hillside Ext. 2	2967	3662	"	27Aug85
Minto Fr.	2968	3664	"	"
Prince	2969	3665	"	"
Frank Fr.	2970	3666	"	"
Hagmo	2971	3667	"	"
Ex Fr.	2972	3670	"	"
Om Fr.	2973	5718	"	"

TABLE 1: Claim list.

GEOLOGY

Regional

Regional geology and tectonics are summarized from the reports of many workers in the Bridge River district, with emphasis on Geological Survey of Canada Reports and University of British Columbia Reports (see References).

The Bridge River district lies at the western margin of the Intermontaine Belt of volcanic and sedimentary rocks where it abuts against the Coast Plutonic Complex of plutonic and metamorphic rocks (Figure 3). Triassic arc volcanics and backarc sediments (Cadwallader and Bridge River Groups) are intruded by synvolcanic, intermediate plutons (Bralorne Intrusions) and faulted against ophiolitic, ultramafic intrusions (President Intrusions) (Table 2).

Jurassic and Cretaceous basinal sediments and rift volcanics (unnamed, Taylor Creek and Kingsvale Groups) are sequentially intruded by Cretaceous and Tertiary plutons of felsic composition (Coast, porphyry and Bendor Intrusions). Relatively flat-lying Tertiary intermediate and mafic volcanics (Rexmount porphyry and plateau basalt) cap the lithological sequence.

Triassic rocks probably formed a discrete plate, the Bridge River terrane, prior to collision with the North American plate to the northeast in Jurassic time. That collision thrust arc volcanics, backarc sediments and oceanic crust onto the already assembled exotic terranes of the Intermontaine Belt and prompted uplift and erosion that produced the Jurassic and Cretaceous sediments.

Bridge River terrane then got sandwiched by the arrival of eastward-drifting Insular belt rocks from the west in Cretaceous time. This collision probably remobilized old faults and sparked several periods of intrusive activity that resulted in Cretaceous and Tertiary plutons and volcanics.

Old breaks such as the Fergusson and Cadwallader faults were probably mobilized again as Tertiary dextral strike-slip faults, followed by extrusion of plateau basalts in response to extensional tectonics. Finally, Pleistocene glaciation and Recent uplift and erosion sculpted the existing mountainous terrain.

Bralorne and Pioneer mines comprise the largest and richest lode gold mining camp in British Columbia. Between 1899 and 1971, they produced 4.16 million ounces gold and 0.95 million ounces silver from 8.23 million tons ore grading 0.51 oz/ton gold and 0.12 oz/ton silver. Gold-bearing quartz veins follow two sets of narrow fissures in Pioneer andesite and Bralorne diorite near Bralorne granite and albitite dikes. Mining stopped in ore some 2,000 metres down because of the ventilation problem and high mining costs.

Many other gold prospects in the region, such as the Minto mine on the Minto property, are gold-bearing sulfide replacements along narrow shears in Bridge River basalts and cherts, often near Tertiary porphyry dikes. A significant new discovery on the Congress property of Levon Resources Ltd., some 2.5 kilometres west of Avino's Minto claims, assays up to 0.37 oz/ton Au, 0.32 oz/ton Ag and 1.7% Sb over 6.9 metres true width. Thus, the exploration and mining potential of old prospects such as the Minto mine needs to be re-evaluated.

Property

The Minto property is underlain by north-striking, steeply west-dipping basaltic volcanics and cherty sediments of the Triassic Bridge River Group, intruded by north-trending, steeply east-dipping porphyry dikes of Tertiary age (Figure 4). Other lithologies include sheared argillite, altered serpentinite and andesite dikes.

Early tectonic deformation has shattered the cherts and sheared the argillites, but the more competent basalts are only mildly deformed. Gold-mineralized shear zones often follow the intrusive contacts of porphyry dikes or the stratigraphic contacts of sediments and volcanics and late, strike-slip faults offset the strata, dikes and veins.

In the Minto mine, the Minto dike, a dark coloured, fine grained feldspar porphyry up to 6 metres wide, intrudes obliquely along a contact between basalt to the west and chert to the east, with the main vein striking north, dipping 75 degrees east, and averaging 1.2 metres wide along the dike footwall.

The vein has been explored for 460 metres along strike and 230 metres down dip by over 2,130 metres of underground workings, including 4 adits, 3 lower levels, a shaft and a winze. A main fault strikes north 75 west, dips 50 north, and offsets the south extension of the dike and vein some 75 metres to the east.

Mineralization

Mineralization consists of quartz, calcite and mariposite veins and replacements containing disseminated to massive pyrite, arsenopyrite and stibnite, minor pyrrotite, sphalerite and galena, and rare tetrahedrite, jamesonite, bismuth and gold. Silicification, carbonatization and pyritization also permeate sheared porphyry dike, footwall basalt and hangingwall chert and serpentinite.

Three new gold-bearing shear zones (Ponderosa, Winter, Rainbow) were discovered, one old mineralized vein (Dauntless) was extended, and two other areas (Minto, View) were tested by excavator trenching. It is apparent that the mineralized shears follow two intersecting trends; earlier, north-striking arsenopyrite rich veins (Minto, Winter) and later, east-northeast striking stibnite-rich veins (Dauntless, Rainbow).

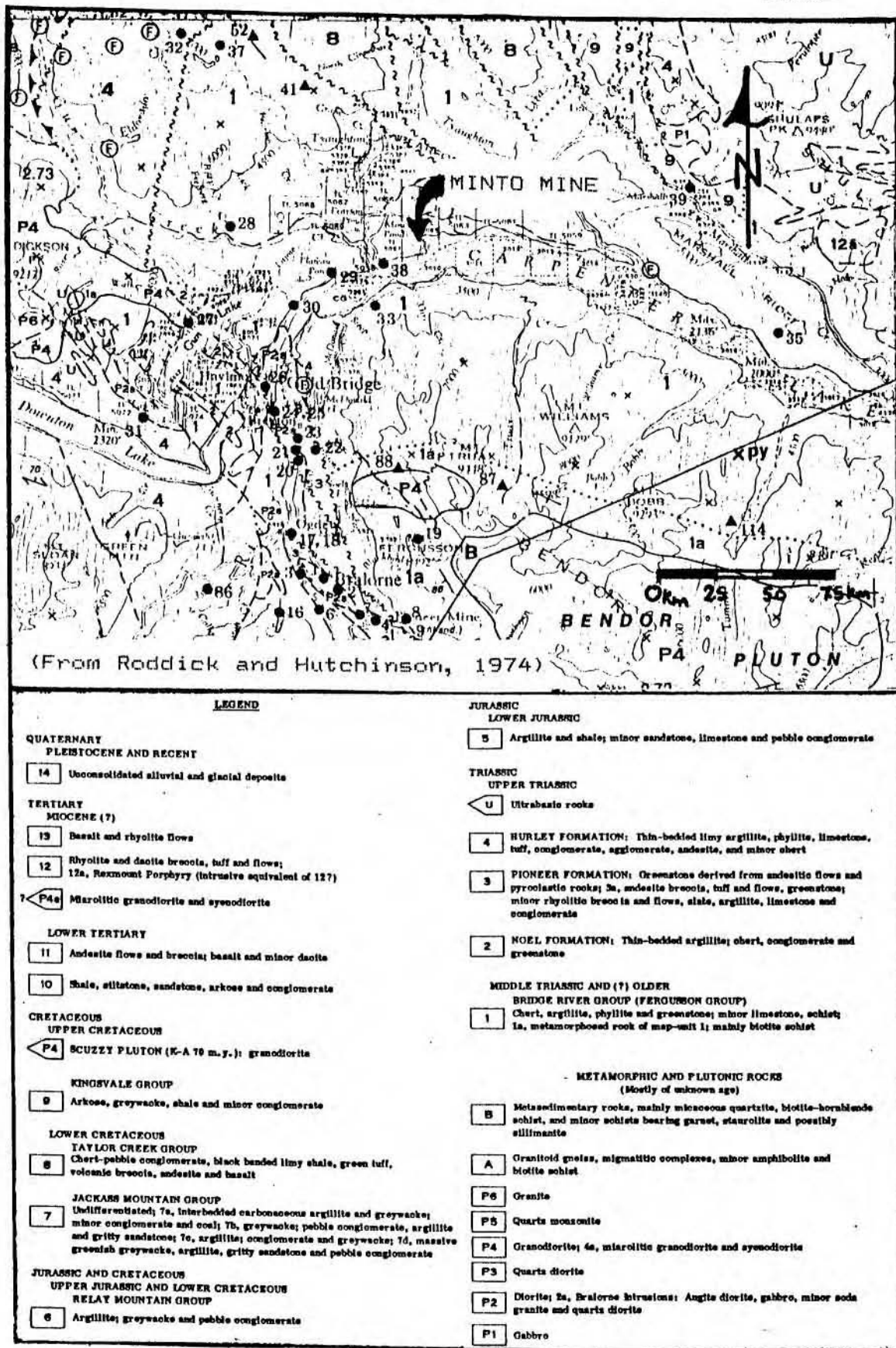
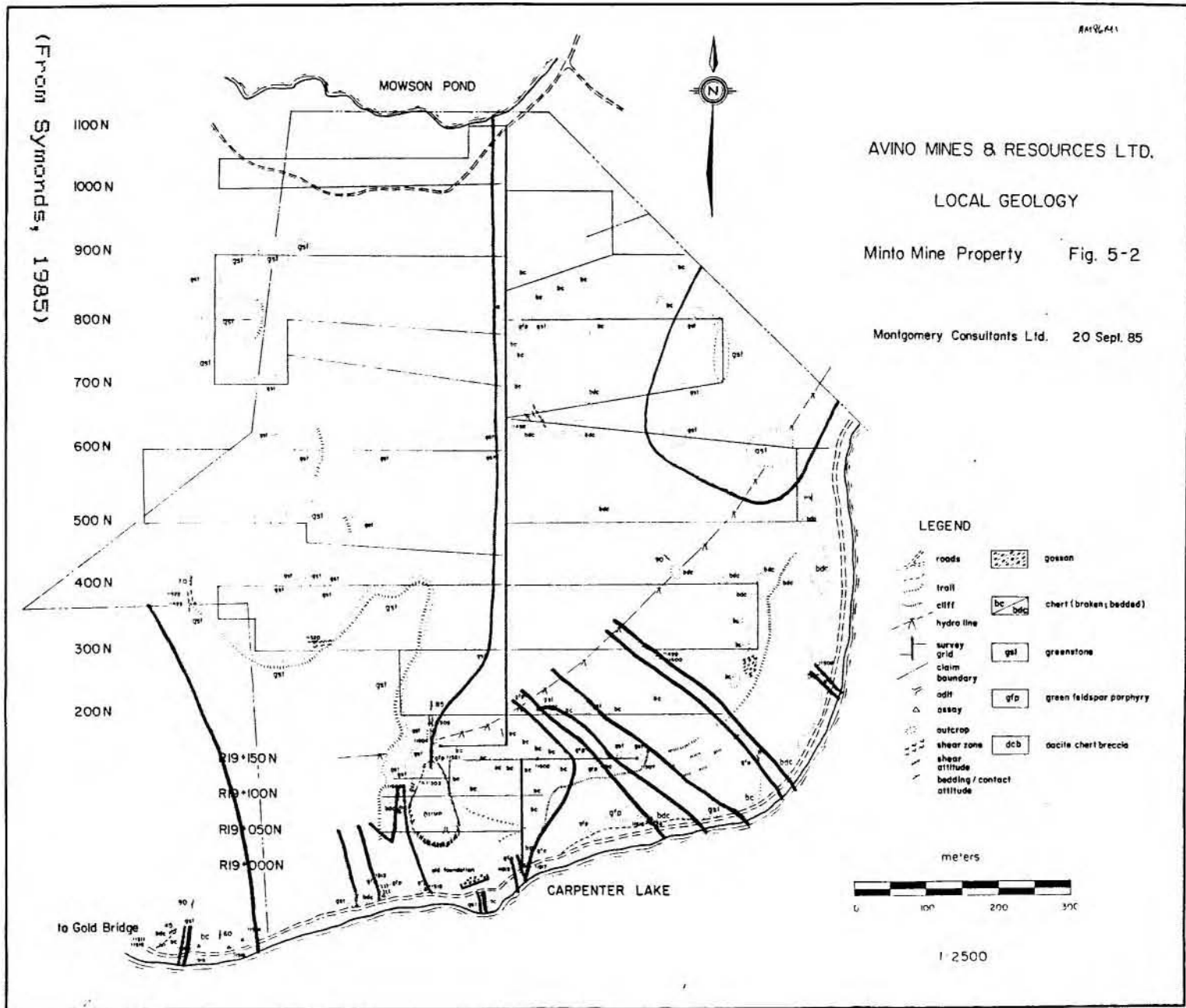


Figure 3: Regional geology map.

PERIOD	UNIT	LITHOLOGY
upper Tertiary	Plateau basalt	basalt, rhyolite flows, breccias
		unconformable contact
lower Tertiary	Rexmount porphyry	rhyolite, dacite, andesite tuffs, breccias, flows, plugs
		unconformable contact
upper Cretaceous	Porphyry dikes	quartz, feldspar, hornblende porphyry dikes
		intrusive contact
	Coast Range intrusions	quartz diorite, diorite, granodiorite
		intrusive contact
	Kingsvale group	arkose, greywacke, shale, conglomerate
		unconformable contact
lower Cretaceous	Taylor Creek group	conglomerate, shale, tuff, breccia
		unconformable contact
lower Jurassic	Unnamed sediments	argillite, shale, sandstone, limestone, conglomerate
		unconformable contact
upper Triassic	Bralorne intrusions	augite diorite, soda granite, albitite dikes
		intrusive contact
	President intrusions	serpentinite, peridotite, pyroxenite, dunite, gabbro
		fault contact
	Cadwallader Hurley formation	group limy argillite, phyllite, limestone, tuff, conglomerate, greenstone, chert
	Pioneer formation	greenstone, basalt, andesite, flows, tuffs
	Noel formation	argillite, chert, conglomerate, greenstone
		conformable contact?
middle Triassic	Bridge River group	chert, argillite, phyllite, limestone, greenstone, metamorphic equivalents

Table 2: Formation names, ages and lithologies.

FIGURE 4: Property geology map.



GEOCHEMISTRY

Soils

Visual inspection of the soil geochemistry maps, (Symonds, 1985) suggests that gold and arsenic occur together in two discrete anomalies east of the baseline, whereas silver and antimony form at least two anomalies west of the baseline, and lead and zinc form spot highs that in general do not conform with the other elements.

Talus

A total of 57 talus fine samples were collected over 1.5 kilometres at 25 metre intervals along the main road to evaluate the more inaccessible cliffs above the road. Unfortunately, a bulldozer trench has been cut above the road over the Minto mine, introducing the possibility of contamination in this area.

Nevertheless, virtually all of the samples are anomalous in Au, Ag, As, Sb, Pb, and Zn, indicating strong downhill dispersion and concentration of metals from known zones and possibly hidden veins (Figure 5). In particular, gold highs occur downslope from the Hagmo adit, east of the Main adit, downslope from the Winter trenches and downslope from a hidden vein? some 600 metres east of the Main adit.

TRENCHING

General Program

Some 24 trenches and 1.5 kilometres of road were dug with a Caterpillar 215 excavator to follow-up geological and geochemical anomalies (Symonds, 1985). Three new gold-bearing shear zones were discovered, (Ponderosa, Winter, Rainbow), one old mineralized vein was extended (Dauntless), and two other areas were tested (Minto, View).

Minto mine (TR23) and View zone (TR22) were not exposed in two trenches on surface due to deep overburden. The surface trace of the Minto vein is covered by deep talus above the open stope, and the View zone geochemical anomaly appears to be a dip-face of an unexposed, south-dipping dike and/or shear.

New Discoveries

Dauntless adit actually penetrates onto the Minto claims where the vein pinches down to 10 cm wide. The Dauntless zone (TR1 and TR2) was extended by two trenches for 25 metres onto the Minto claims, running up to 0.038 oz/ton gold over 0.5 metres width (Table 3).

Ponderosa zone is a wide area of mineralized cherts, carrying small arsenopyrite-pyrite veins and lenses. The best intersection from two trenches (TR13 and TR14) assays 0.024 oz/ton gold over 12.0 metres width.

Rainbow zone is a narrow shear containing stibnite-arsenopyrite-pyrite veins in seven (7) trenches (TR15 to TR21) over 200 metres along strike. Values up to 0.227 oz/ton gold over 1.0 metres width were obtained.

Winter zone was previously explored by a 145 metre adit in 1943, with galena-sphalerite-stibnite-arsenopyrite-pyrite veins occurring in a narrow shear in ten (10) trenches over a 200 metre strike length. Assays up to 0.122 oz/ton gold over 1.5 metres width were received.

Zone	Trench	Width (metres)	Gold (oz/ton)	Width (metres)	Silver (oz/ton)	
Dauntless	TR1	0.50	0.029	0.50	0.130	
	TR2	0.50	0.038	0.50	0.194	
Winter	TR3	1.25	0.101	1.75	1.720	
	TR4	1.50	0.122	1.60	0.343	
	TR5	0.37	0.038	0.75	0.590	
	TR6	0.25	0.021	0.50	0.320	
	TR7	0.50	0.048	0.75	0.395	
	TR8	no significant assays				
	TR9	0.25	0.047	1.50	0.173	
	TR10	0.50	0.134			
	TR11	0.25	0.033	1.00	0.278	
	TR12	overburden no bedrock				
	Ponderosa	TR13	4.50	0.029		
			12.00	0.024		
TR14		0.75	0.018			
		0.20	0.064			
Rainbow	TR15	1.00	0.0227	1.50	0.101	
	TR16	no significant assays				
	TR17	0.25	0.073	0.25	0.255	
	TR18	0.50	0.020	2.25	0.160	
	TR19	0.25	0.064	0.25	0.281	
	TR20	0.50	0.025	0.25	0.059	
	TR21	overburden no bedrock				
View	TR22	overburden no bedrock				
Minto	TR23	overburden no bedrock				

TABLE 3: Trench list.

CONCLUSION

Conclusions

1) The Minto property occurs in the Bridge River district east of the main Bralorne-Pioneer belt of Triassic volcanic and sedimentary rocks. It is underlain by basaltic volcanics and cherty sediments of the Triassic Bridge River Group, intruded by porphyry dikes of Tertiary age, and mineralized along narrow shears near intrusive and stratigraphic contacts.

2) Some 57 talus samples were collected over 1.5 kilometres at 25 metre intervals along the main road to evaluate the less accessible cliffs above the road. A total of 24 trenches and 1.5 kilometres of road were dug to follow up geological and geochemical anomalies.

3) Virtually all of the talus samples are anomalous in Au, Ag, As, Sb, Pb and Zn due to downhill dispersion and sidehill contamination from known veins. However, at least one anomaly may reflect a hidden vein in the cliffs some 600 metres east of the Main adit.

4) Three new gold-bearing shear zones were discovered (Ponderosa, Winter, Rainbow), one old mineralized vein was extended (Dauntless) and two other areas (Minto, View) were tested. A best intersection of 0.23 oz/ton gold over 1.0 metres width was obtained on the Rainbow zone.

5) All six mineralized zones (Minto, Dauntless, View, Ponderosa, Winter, Rainbow) require more trenching, especially where the Winter and Rainbow zones intersect, where the Minto and Dauntless zones intersect and northwest of the View zones where three gullies contain porphyry dike fragments. The cliffs over the road also need more detailed mapping and sampling to explain the talus anomalies and evaluate the low grade, bulk tonnage potential of the porphyry dikes.

Recommendations

- 1) A two phase, CA \$200,000 program is recommended to explore the Minto property. Phase 1, a continuation of surface work started in 1985, includes geological mapping, excavator trenching, underground sampling and sonic drilling, at a cost of CA \$50,000 over a one month period. Phase 2, contingent upon the successful completion of Phase 1, involves diamond drilling from surface, at a cost of CA \$150,000 over a two month period.
- 2) Phase 1 surface exploration calls for 5 kilometres of geological mapping to evaluate the cliffs above the road, 2 kilometres of excavator trenching to extend the known veins and discover new veins, 1 kilometre of underground sampling in the Main and Winter adits to identify potential ore shoots, and 500 feet of sonic drilling to test the old tailings for their gold content.
- 3) Phase 2 diamond drilling encompasses 6,000 feet in 20 holes to explore the Minto, Dauntless, Winter and Rainbow zones at 165 foot intervals along strike and down dip.

EXPENDITURES

Item

Labour and supervision	
56 person days x \$100	5,600.00
2 person days x \$130	260.00
4 person days x \$120	480.00
6 person days x \$250	1,500.00
Room and board	
56 days x \$43.79	1,702.68
Transportation and fuel	2,452.19
Equipment and supplies	358.67
Backhoe contract	
89 hrs x \$85	7,565.00
Drafting and reproductions	665.57
Assays and analyses	5,387.40
Miscellaneous	6.25
<u>Administration</u>	<u>2,597.78</u>
Subtotal	\$28,575.54
To be applied to PAC	\$15,775.54
TOTAL	\$13,000.00

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QUALIFICATIONS

I, Bradford J. Cooke, am a professional geologist with a consulting business, Cooke Geological Consultants Ltd., located at 100-455 Granville St., Vancouver, B.C., V6C 1T1.

I was awarded a B.Sc. Honours Geology degree at Queen's University, Kingston, Ontario in 1976 and completed a M.Sc. Geology degree at the University of British Columbia, Vancouver, B.C. in 1984.

I have worked in mineral exploration, both seasonally and full-time, since 1975 and have performed geological field work since 1973.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and a member of the British Columbia-Yukon Chamber of Mines.

I personally reviewed the literature on Minto and supervised the work on the claims.

I have no interest, nor do I expect to receive any interest, in the securities or properties of Avino Mines and Resources Ltd.

I consent to the inclusion of this report in a Prospectus, or other qualifying documents, for the purpose of raising funds through the Vancouver Stock Exchange, or other financial institutions.

Bradford J. Cooke
Cooke Geological Consultants Ltd.
March 21, 1986

APPENDIX 1

Assay Sheets.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: LEVON
ATTENTION: BRAD COOKE

FILE: 5-506
DATE: AUGUST 19/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
ORD-AD	.20	0.006
ORD-RD	.02	0.001
ORD-SH	.31	0.009
ORD-SV	.24	0.007
ORD-TR	11.85	0.346

GREYROCK-MS	1.78	0.052
GREYROCK-QV	1.78	0.052
<u>MINTO-SH</u>	<u>.13</u>	<u>0.004</u>

Minto shear

*Dave Williams
Jordan's Reef
(604) 733-1174.*

Certified by



MIN-EN LABORATORIES LTD.

(PPM)	ORD AD	ORD RD	ORD SH	ORD SV	ORD TR	GREY ROC K MS	GREY ROC K QV	MINTO SH	TYAX AV
AB	16.5	4.5	9.7	13.6	97.4	36.7	1167.0	35.7	380.6
AS	16	1	1	148	28	806	1435	3819	448
PB	24	9	33	8	562	177	66790	984	158
SB	106	38	24	168844	2574	1305	5665	466	2542
ZN	45	60	59	440	22	23	4279	114	326

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS

FILE: 5-544A

PROJECT:

DATE: AUGUST 29/85.

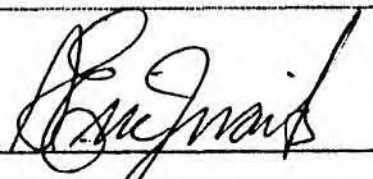
ATTENTION: BRAD COOKE

TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
TG-1	290.0	8.46	3.16	0.092
TG-2	17.5	0.51	.10	0.003
TG-3	54.4	1.59	2.29	0.067
TG-4	840.0	24.50	6.75	0.197
TG-5	76.5	2.23	.01	0.001
TG-6	213.0	6.21	.75	0.022
TG-7	32.0	0.93	.42	0.012
TG-8	22.4	0.65	.04	0.001
TG-10	172.0	5.02	2.46	0.072
R-1	9.0	0.26	.23	0.007
R-2	24.2	0.71	15.60	0.455
R-3	610.0	17.79	3.60	0.105
R-4	11.0	0.32	.45	0.013
R-5	6.2	0.18	.08	0.002
ORD-400B	0.3	0.01	.01	0.001
ORD-450E-900N	1.2	0.03	.16	0.005
ORD#LCP	2.4	0.07	.04	0.001
MOWSON-ADIT (A)	2.0	0.06	7.62	0.222
MOWSON-ADIT (B)	6.5	0.19	25.50	0.744

Certified by



MIN-EN LABORATORIES LTD.

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 5-544A

ATTENTION: BRAD COOKE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * DATE: SEPT 4, 1985

(VALUES IN PPM)	AG	AS	PB	SB	ZN
1G1	260.4	6948	60720	46696	1591
1G2	14.3	2721	759	316	102
1G3	48.8	25991	6488	3020	97
1G4	724.1	34977	41649	35099	4476
1G5	69.1	4575	13558	7208	108
1G6	192.7	14509	24545	1113	1267
1G7	28.7	5906	4156	875	230
1G8	20.5	89	314	148926	21
1B10	145.8	31222	79017	37642	172
R1	8.1	11615	1110	724	16
R2	22.5	151591	721	994	38
R3	531.4	33776	8509	450	1174
R4	10.3	6418	3631	280	3863
R5	5.9	18105	274	370	50
OR0400B	.5	441	64	46	52
OR0450E900N	.2	100	46	77	72
OR04LCP	.4	8	78	60	21
MOWSONADIT(A)	1.1	4737	36	2527	180
MOWSONADIT(B)	5.3	5035	80	28162	23

PROJECT NO: CONGRESS (MINTO)

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 5-8579/P1+2

ATTENTION: BRAD COOKE

(604)980-5814 DR (604)988-4524

* TYPE SOIL GEOCHEM * DATE: OCT 31, 1985

(VALUES IN PPM)	AG	AS	PR	SB	ZN	AU-PPR
CONGRESS RD SAMP	1.9	3	28	16	43	10
L1R0+00 N/S						
L1R0+50S	1.7	308	59	14	120	115
L1R0+75S	1.3	1066	42	37	126	270
L1R1+00S	2.1	916	70	47	147	550
L1R1+25S	5.8	1816	246	91	304	2550
L1R1+50S	1.5	309	35	14	89	225
L1R1+75S	2.1	278	47	17	114	585
L1R2+00S	2.0	204	45	18	110	340
L1R2+25S	3.9	118	58	35	130	2100
L1R2+50S	2.3	158	41	19	120	165
L1R2+75S	2.1	115	47	16	139	1360
L1R3+00S N/S						
L1R3+25S N/S						
L1R3+50S	2.4	50	31	19	173	50
L1R3+75S	2.1	148	49	22	194	145
L1R4+00S	2.0	193	54	20	219	130
L1R0+25N	2.0	522	73	26	159	790
L1R0+50N	3.1	550	74	29	543	3450
L1R0+75N	4.8	689	101	51	538	1120
L1R1+00N	4.0	181	98	29	267	1350
L1R1+25N	5.0	352	238	37	943	1650
L1R1+50N	7.8	474	271	54	854	710
L1R1+75N	9.2	466	555	95	1094	660
L1R2+00N	6.5	307	233	76	701	635
L1R2+25N	12.7	821	1184	288	2319	1100
L1R2+50N	6.2	416	223	150	1149	1100
L1R2+75N	7.8	929	421	88	1357	920
L1R3+00N	4.4	396	167	62	551	430
L1R3+25N	8.5	1004	288	57	1261	1050
L1R0+25S	2.3	307	77	26	188	245
L1R3+50N	5.3	1237	282	63	1111	1865
L1R3+75N	3.1	1308	165	81	862	585
L1R4+00N	3.1	1726	144	62	484	1115
L1R4+25N	2.5	949	134	55	421	375
L1R4+50N	3.2	2102	291	152	446	960
L1R4+75N	2.2	1157	167	66	348	330
L1R5+00N	2.0	946	145	61	283	315
L1R5+25N	2.3	999	109	49	273	350
L1R5+50N	3.9	2801	279	113	542	660
L1R5+75N	9.3	6334	1226	610	1852	2000
L1R6+00N	10.3	4794	787	212	1483	1050
L1R6+25N	2.9	1654	177	58	491	880
L1R6+50N	4.4	2056	208	70	1234	800
L1R6+75N	3.4	1584	90	29	616	425
L1R7+00N	2.5	838	72	21	300	275
L1R7+25N 40M	1.9	2307	66	30	394	540
L1R7+50N	1.9	523	52	88	206	185
L1R7+75N	1.4	372	59	20	174	110
L1R8+00N	1.8	25	31	9	65	15
L1R8+25N	1.6	104	41	9	104	65
L1R8+50N	1.8	57	41	10	91	10
L1R8+75N	2.1	45	37	12	83	5
L1R9+00N	1.9	66	38	12	78	60
L1R9+25N	2.0	47	44	10	82	75
L1R9+50N	2.0	18	34	11	69	5
L1R9+75N	1.4	60	35	6	77	115
L1R10+00N	2.0	35	34	13	70	20

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

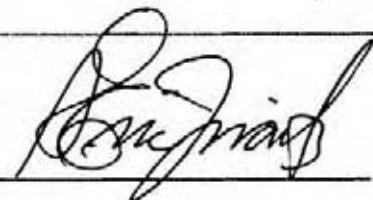
COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-869
DATE: NOV. 1/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON	
MSX#1	.60	0.017	} Massive sulfide Quartz vein Feldspar porphyry
QZ#2	1.00	0.029	
FP#3	.29	0.008	

Certified by



MIN-EN LABORATORIES LTD.

COMPANY: COOKE GEOLOGICAL CONSULTANTS

MIN-EN LABS ICP REPORT

(ACT:GEO27) PAGE 1 OF 1

PROJECT NO: MINTO

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 50869

ATTENTION: BRAD COOKE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * DATE: NOV 1, 1985

(VALUES IN PPM)	AG	AS	PB	SR	ZN
MSX#1	4.8	1	54	71	37
QZ#2	3.2	1	41	34	69
FP#3	1.2	12	28	9	84

MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAYCOMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKEFILE: 5-915/P1
DATE: NOV.21/85.
TYPE: ROCK ASSAYWe hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-001	1.30	0.038
MT-002	.28	0.008
MT-003	.01	0.001
MT-004	.24	0.007
MT-005	.03	0.001
MT-006	.73	0.021
MT-007	4.91	0.143
MT-008A	.42	0.012
MT-009	.25	0.007
MT-010	.60	0.017
MT-011	.44	0.013
MT-012	.62	0.018
MT-013	1.68	0.049
MT-014	.94	0.027
MT-015	.62	0.018
MT-016	1.48	0.043
MT-017	.61	0.018
MT-018	.18	0.005
MT-019	2.01	0.059
MT-020	.60	0.017
MT-021	.33	0.010
MT-022	.06	0.002
MT-023	.03	0.001
MT-024	.05	0.001
MT-025	.19	0.006
MT-026	.38	0.011
MT-027	.85	0.025
MT-028	.23	0.007
MT-029	3.23	0.094
MT-030	.02	0.001

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

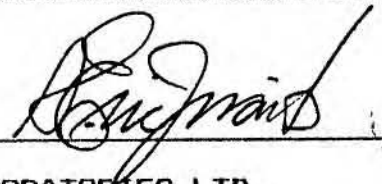
COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-915/P2
DATE: NOV. 21/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-031	.03	0.001
MT-032	.04	0.001
MT-033	.01	0.001
MT-034	.01	0.001
MT-035	.20	0.006
MT-036	.54	0.016
MT-037	1.69	0.049
MT-038	1.49	0.043
MT-039	.12	0.003
MT-040	2.58	0.075
MT-041	.40	0.012
MT-042	.71	0.021
MT-043	.10	0.003
MT-044	.27	0.008
MT-045	.42	0.012
MT-046	.02	0.001
MT-047	.03	0.001
MT-048	.08	0.002
MT-049	.12	0.003
MT-050	.13	0.004
MT-051	.61	0.018
MT-052	.09	0.003
MT-053	.04	0.001
MT-054	2.08	0.061
MT-055	.30	0.009
MT-056	.37	0.011
MT-057	.22	0.006
MT-058	.24	0.007
MT-059	.10	0.003
MT-060	.06	0.002

Certified by



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705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352028

CERTIFICATE OF ASSAYCOMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKEFILE: 5-915/P3
DATE: NOV. 21/85.
TYPE: ROCK ASSAYWe hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-061	.55	0.016
MT-062	2.59	0.076
MT-063	12.35	0.360
MT-064	2.42	0.071
MT-065	.99	0.029
MT-066	.01	0.001
MT-067	.01	0.001
MT-068	.01	0.001
MT-069	.02	0.001
MT-070	.01	0.001
MT-071	.01	0.001
MT-072	.02	0.001
MT-073	.01	0.001
MT-074	.01	0.001
MT-075	.01	0.001
MT-076	.40	0.012
MT-077	.43	0.013
MT-078	.61	0.018
MT-079	8.81	0.257
MT-080	5.42	0.158
MT-081	.25	0.007
MT-082	.03	0.001
MT-083	15.25	0.445
MT-084	13.10	0.382
MT-085	17.10	0.499
MT-086	2.05	0.060
MT-087	1.52	0.044
MT-088	9.30	0.271
MT-089	5.77	0.168
MT-090	.46	0.013

Certified by



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Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-915/P4
DATE: NOV. 21/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-091	1.18	0.034
MT-092	.32	0.009
MT-093	.14	0.004
MT-094	1.83	0.053
MT-095	.03	0.001
MT-096	.10	0.003
MT-097	.06	0.002
MT-098	.18	0.005
MT-099	5.08	0.148
MT-100	.56	0.016
MT-101	.61	0.018
MT-102	5.10	0.149
MT-103	1.78	0.052
MT-104	.31	0.009
MT-105	.12	0.003
MT-106	2.93	0.085
MT-107	.39	0.011
MT-108	.20	0.006
MT-109	.03	0.001
MT-110	.69	0.020
MT-111	.01	0.001
MT-112	.03	0.001
MT-113	.16	0.005
MT-114	.05	0.001
MT-115	.78	0.023
MT-116	2.40	0.070
MT-117	.27	0.008
MT-118	.10	0.003
MT-119	.14	0.004
MT-120	.20	0.006

Certified by 

MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7K 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828


CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-915/P5
DATE: NOV. 21/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-121	.96	0.028
MT-122	.17	0.005
MT-123	.28	0.008
MT-124	.39	0.011
MT-125	.10	0.003
MT-126	.26	0.008
MT-127	.42	0.012
MT-128	.53	0.015
MT-129	.15	0.004
MT-130	.33	0.010
MT-131	.42	0.012
MT-132	.21	0.006
MT-133	.33	0.010
MT-134	.67	0.020
MT-135	.36	0.010
MT-136	.03	0.001
MT-137	.01	0.001
MT-138	.51	0.015
MT-139	.05	0.001
MT-140	.23	0.007
MT-141	.07	0.002
MT-142	.10	0.003
MT-143	.35	0.010
MT-144	.23	0.007
MT-145	3.76	0.110
MT-146	4.80	0.140
MT-147	5.56	0.162
MT-148	.55	0.016
MT-149	2.32	0.068
MT-150	.18	0.005

Certified by 

MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAYCOMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKEFILE: 5-915/P6
DATE: NOV. 21/85.
TYPE: ROCK ASSAYWe hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
HT-151	.02	0.001
HT-152	.16	0.005
HT-153	.21	0.006
HT-154	.10	0.003
HT-155	.56	0.016
HT-156	.06	0.002
HT-157	7.79	0.227
HT-158	6.42	0.187
HT-159	1.60	0.047
HT-160	.12	0.003
HT-161	.05	0.001
HT-162	.04	0.001
HT-163	.20	0.006
HT-164	.10	0.003
HT-165	.16	0.005
HT-166	.05	0.001
HT-167	.06	0.002
HT-168	.05	0.001
HT-169	.71	0.021
HT-170	.21	0.006
HT-171	.10	0.003
HT-172	.04	0.001
HT-173	.03	0.001
HT-174	.85	0.025
HT-175	.52	0.015
HT-176	.16	0.005
HT-177	.18	0.005
HT-178	.14	0.004
HT-179	.04	0.001
HT-180	1.04	0.030

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 980-4524

TELEY: 04-352828

CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-915/P7
DATE: NOV. 21/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
HI-181	3.52	0.103
HI-182	.51	0.015
HI-183	.57	0.017
HI-184	.02	0.001
HI-185	.01	0.001
HI-186	.03	0.001
HI-187	9.09	0.265
HI-188	.40	0.012
HI-189	.19	0.006
HI-190	.46	0.013
HI-191	2.37	0.069
HI-192	.51	0.015
HI-193	.71	0.021
HI-194	.84	0.024
HI-195	.93	0.027
HI-196	.73	0.021
HI-197	.03	0.001
HI-198	.01	0.001
HI-199	1.42	0.041
HI-200	.21	0.006

Certified by



MIN-EN LABORATORIES LTD.

(VALUES IN PPM)	AR	AS	FR	SR	ZN
HT 001	6.7	3659	202	164	219
HT 002	2.9	1305	21	204	75
HT 003	.6	360	23	93	59
HT 004	2.6	1296	171	147	120
HT 005	.6	242	16	32	56
HT 006	5.0	904	76	49	94
HT 007	4.7	85976	70	215	67
HT 008	3.6	2112	29	24	93
HT 009	3.4	4886	34	31	738
HT 010	2.6	2319	53	46	466
HT 011	2.3	2317	35	25	121
HT 012	1.8	2481	35	22	211
HT 013	2.5	2210	34	23	167
HT 014	2.5	3671	55	40	608
HT 015	1.9	2142	36	28	132
HT 016	2.2	5192	46	31	86
HT 017	1.4	1160	48	32	49
HT 018	1.5	456	49	33	116
HT 019	3.4	1796	77	66	174
HT 020	2.0	357	61	43	159
HT 021	1.7	100	41	30	276
HT 022	1.6	157	49	20	332
HT 023	1.7	230	48	23	526
HT 024	1.3	109	39	13	1169
HT 025	1.8	2552	47	22	266
HT 026	.8	973	14	2	77
HT 027	4.8	6923	65	62	261
HT 028	2.5	1135	38	24	1993
HT 029	4.1	1093	45	34	1041
HT 030	1.1	332	18	12	292
HT 031	1.0	141	18	5	110
HT 032	.6	84	12	2	93
HT 033	.7	190	14	6	95
HT 034	1.1	480	27	6	180
HT 035	1.7	630	47	27	504
HT 036	1.9	3093	55	31	513
HT 037	2.7	70064	65	86	310
HT 038	2.7	74408	62	110	115
HT 039	27.1	2212	34	25	316
HT 040	4.2	8713	56	42	7857
HT 041	2.6	1370	23	17	313
HT 042	2.1	58157	39	41	254
HT 043	2.4	1461	40	34	98
HT 044	1.6	3895	36	28	101
HT 045	3.3	12867	85	52	214
HT 046	2.7	623	70	33	458
HT 047	2.2	605	40	21	224
HT 048	1.2	206	25	9	165
HT 049	1.9	360	45	19	312
HT 050	.8	698	16	1	72
HT 051	1.3	48819	31	38	97
HT 052	2.1	1736	54	20	229
HT 053	3.1	3628	44	27	383
HT 054	3.3	78430	95	177	201
HT 055	2.7	7065	62	50	509
HT 056	2.5	16303	56	70	259
HT 057	1.4	1555	29	40	403
HT 058	1.8	2022	40	32	439
HT 059	1.2	771	41	16	301
HT 060	1.3	987	35	13	186

PROJECT NO: MINTO

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2

FILE NO: 5-915A/P314

ATTENTION: BRAD COOKE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * DATE: NOV 21, 1985

(VALUES IN PPM)	AG	AS	PB	SB	ZH
MT 061	9.0	5244	150	197	382
MT 062	14.7	5435	723	482	882
MT 063	71.3	12176	9290	6756	26366
MT 064	33.4	5442	716	509	1476
MT 065	5.5	2593	424	313	2060
MT 066	3.7	2871	266	300	1688
MT 067	3.3	2013	248	282	1738
MT 068	2.6	741	42	46	1197
MT 069	2.0	1059	61	43	887
MT 070	2.6	636	76	52	1373
MT 071	34.7	387	807	382	530
MT 072	1.3	1061	42	30	571
MT 073	1.9	282	46	28	290
MT 074	.6	145	22	5	154
MT 075	1.1	578	33	14	187
MT 076	9.0	2709	111	118	1776
MT 077	12.4	3317	412	212	2484
MT 078	8.7	3749	327	161	2427
MT 079	529.4	7880	37676	37830	4294
MT 080	32.6	8430	2216	1418	4495
MT 081	7.9	3878	134	112	1266
MT 082	24.9	792	658	288	985
MT 083	76.2	15528	17032	10475	42807
MT 084	118.8	9116	21647	12589	45475
MT 085	15.8	7378	254	222	779
MT 086	7.3	3045	756	423	1474
MT 087	5.9	2728	394	228	799
MT 088	8.7	6828	217	244	379
MT 089	10.9	5689	214	314	1079
MT 090	12.9	3016	337	248	900
MT 091	13.3	2858	311	173	640
MT 092	5.4	505	117	48	211
MT 093	1.1	639	43	15	181
MT 094	2.7	531	47	67	185
MT 095	.5	388	24	11	351
MT 096	1.1	519	45	19	520
MT 097	.9	452	29	35	467
MT 098	2.1	1312	40	87	198
MT 099	5.6	4508	203	119	777
MT 100	21.6	3305	171	212	1819
MT 101	25.1	5408	199	272	818
MT 102	15.5	6606	141	161	326
MT 103	5.6	3181	321	176	464
MT 104	3.3	846	76	26	211
MT 105	.9	429	38	11	136
MT 106	6.1	2696	372	141	120
MT 107	5.2	2749	26	120	47
MT 108	2.0	186	9	1	142
MT 109	2.1	237	8	2	93
MT 110	2.7	4	5	1	187
MT 111	1.3	271	23	38	40
MT 112	.3	164	7	16	28
MT 113	.4	232	19	20	56
MT 114	.4	387	6	9	444
MT 115	6.5	1022	56	216	1177
MT 116	100.3	1320	789	4966	1103
MT 117	10.2	1680	87	172	263
MT 118	1.1	860	23	56	179
MT 119	.4	223	16	22	174
MT 120	7.9	1219	75	153	35

PROJECT NO: NINTO

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2

FILE NO: 5-915A/P5+6

ATTENTION: BRAD COOKE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * DATE: NOV 21, 1985

(VALUES IN PPM)	AG	AS	PR	SR	ZN
HT 121	1.5	200	34	163	70
HT 122	1.5	105	34	24	47
HT 123	2.2	143	30	139	53
HT 124	3.1	98	26	184	75
HT 125	2.7	87	17	13	69
HT 126	2.7	83	31	16	70
HT 127	2.1	79	37	20	142
HT 128	3.8	12	15	21	92
HT 129	2.5	117	47	38	99
HT 130	2.2	232	47	33	110
HT 131	2.6	163	63	39	100
HT 132	1.6	99	53	26	78
HT 133	1.4	124	40	23	60
HT 134	1.2	102	33	23	44
HT 135	1.3	479	34	51	80
HT 136	.7	423	12	28	40
HT 137	.8	709	21	40	90
HT 138	1.1	992	13	40	66
HT 139	.7	545	16	38	57
HT 140	.8	91	14	24	48
HT 141	.4	183	13	23	39
HT 142	.8	268	12	35	56
HT 143	.7	183	16	11	64
HT 144	.6	408	13	60	107
HT 145	1.5	6574	16	152	74
HT 146	1.9	6894	17	15120	86
HT 147	2.0	3894	13	7265	102
HT 148	.9	1689	15	395	39
HT 149	3.5	1440	19	16365	34
HT 150	.9	791	24	853	126
HT 151	.7	271	19	177	98
HT 152	.6	80	15	97	47
HT 153	1.0	91	37	87	132
HT 154	.8	34	21	33	84
HT 155	1.2	3531	26	24	122
HT 156	.8	216	27	12	175
HT 157	2.0	1444	43	148	235
HT 158	.9	9834	10	3748	46
HT 159	2.4	80	9	68107	32
HT 160	2.3	96	5	931	126
HT 161	2.1	168	7	253	201
HT 162	1.2	351	15	180	223
HT 163	5.7	666	75	107	259
HT 164	13.7	1679	106	162	270
HT 165	2.5	1478	35	91	281
HT 166	.5	450	15	28	193
HT 167	.5	188	21	23	106
HT 168	1.1	929	14	47	201
HT 169	16.6	1166	184	150	303
HT 170	8.7	793	133	99	159
HT 171	1.4	461	5	54	96
HT 172	1.3	462	8	32	115
HT 173	.6	292	18	1942	127
HT 174	1.8	782	9	36	455
HT 175	1.4	1304	16	37	383
HT 176	.6	565	11	1	1782
HT 177	1.4	1052	19	16	1781
HT 178	2.3	578	19	21	282
HT 179	2.7	358	13	26	315
HT 180	7.4	3314	212	263	2417

PROJECT NO: NINTO

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 5-915A/P5+6

ATTENTION: BRAD COOKE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM * DATE: NOV 21, 1985

(VALUES IN PPM)	AG	AS	PR	SR	ZN
NT 121	1.5	200	34	163	70
NT 122	1.5	105	34	24	47
NT 123	2.2	143	30	139	53
NT 124	3.1	98	26	184	75
NT 125	2.7	87	17	13	69
NT 126	2.7	83	31	16	70
NT 127	2.1	79	37	20	142
NT 128	3.8	12	15	21	92
NT 129	2.5	117	47	38	99
NT 130	2.2	232	47	33	110
NT 131	2.6	163	63	39	100
NT 132	1.6	99	53	26	78
NT 133	1.4	124	40	23	60
NT 134	1.2	182	33	23	44
NT 135	1.3	479	34	51	80
NT 136	.7	923	12	28	40
NT 137	.8	709	21	40	90
NT 138	1.1	992	13	40	66
NT 139	.7	545	16	38	57
NT 140	.8	91	14	24	48
NT 141	.4	183	13	23	39
NT 142	.8	268	12	35	56
NT 143	.7	183	16	11	64
NT 144	.6	408	13	60	107
NT 145	1.5	6574	16	152	74
NT 146	1.9	6894	17	15120	86
NT 147	2.0	3894	13	7265	102
NT 148	.9	1689	15	395	39
NT 149	3.5	1440	19	16365	34
NT 150	.9	791	24	853	126
NT 151	.7	271	19	177	98
NT 152	.6	80	15	97	47
NT 153	1.0	91	37	87	132
NT 154	.8	34	21	33	84
NT 155	1.2	3531	26	24	122
NT 156	.8	216	27	17	175
NT 157	2.0	1444	43	148	235
NT 158	.9	9834	10	3748	46
NT 159	2.4	80	9	68107	32
NT 160	2.3	96	5	931	126
NT 161	2.1	168	7	253	201
NT 162	1.2	351	15	180	223
NT 163	5.7	666	75	107	259
NT 164	13.7	1679	106	162	270
NT 165	2.5	1478	35	91	281
NT 166	.5	450	15	28	193
NT 167	.5	188	21	23	106
NT 168	1.1	929	14	47	201
NT 169	16.6	1166	184	150	303
NT 170	8.7	793	133	99	159
NT 171	1.4	461	5	54	96
NT 172	1.3	462	8	32	115
NT 173	.6	292	18	1942	127
NT 174	1.8	782	9	36	455
NT 175	1.4	1304	16	37	383
NT 176	.6	565	11	1	1782
NT 177	1.4	1052	19	16	1781
NT 178	2.3	578	19	21	282
NT 179	2.7	358	13	26	315
NT 180	7.4	3314	212	263	2417

VALUES IN PPM I	AG	AS	PB	SB	ZN
MT 181	19.8	4686	177	161	1342
MT 182	4.1	2109	44	76	260
MT 183	7.0	2312	56	83	208
MT 184	2.0	152	17	6	140
MT 185	2.0	144	15	5	178
MT 186	7.1	504	18	8	502
MT 187	8.3	2934	646	45	3251
MT 188	2.2	1094	62	24	2196
MT 189	1.6	650	17	14	102
MT 190	3.0	2160	30	29	442
MT 191	17.2	6978	169	118	697
MT 192	4.7	2312	47	84	143
MT 193	2.2	1842	41	25	147
MT 194	4.1	2390	38	37	152
MT 195	26.3	1538	41	28	137
MT 196	11.5	4388	76	161	176
MT 197	4.3	955	51	45	206
MT 198	3.3	190	17	9	136
MT 199	161.7	3063	3978	3504	2394
MT 200	4.4	3976	100	94	619

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

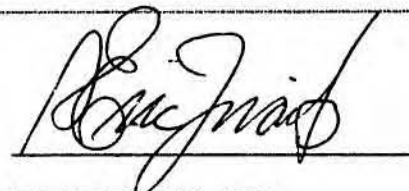
COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-931/P1
DATE: NOV.28/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-201	.02	0.001
MT-202	.01	0.001
MT-203	.26	0.008
MT-204	.03	0.001
MT-205	.01	0.001
MT-206	.20	0.006
MT-207	2.80	0.082
MT-208	.49	0.014
MT-209	.14	0.004
MT-210	.02	0.001
MT-211	.04	0.001
MT-212	.01	0.001
MT-213	.02	0.001
MT-214	.06	0.002
MT-215	.01	0.001
MT-216	.05	0.001
MT-217	.03	0.001
MT-218	.06	0.002
MT-219	.04	0.001
MT-220	.09	0.003
MT-221	.04	0.001
MT-222	.01	0.001
MT-223	.01	0.001
MT-224	.07	0.002
MT-225	.01	0.001
MT-226	.01	0.001
MT-227	.13	0.004
MT-228	.09	0.003
MT-229	.04	0.001
MT-230	.01	0.001

Certified by



MIN-EN LABORATORIES LTD.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAY

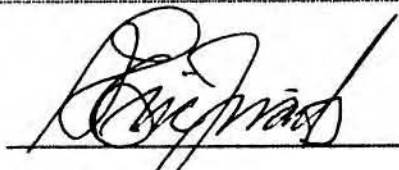
COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-931/P2
DATE: NOV. 28/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-231	.22	0.006
MT-232	.15	0.004
MT-233	1.60	0.047
MT-234	.10	0.003
MT-235	.01	0.001
MT-236	.01	0.001
MT-237	.01	0.001
MT-238	.01	0.001
MT-239	.01	0.001
MT-240	.02	0.001
MT-241	.01	0.001
MT-242	.01	0.001
MT-243	.01	0.001
MT-244	.01	0.001
MT-245	.01	0.001
MT-246	.02	0.001
MT-247	.16	0.005
MT-248	.02	0.001
MT-249	.01	0.001
MT-250	.01	0.001
MT-251	.02	0.001
MT-252	.01	0.001
MT-253	.01	0.001
MT-254	.02	0.001
MT-255	.03	0.001
MT-256	.01	0.001
MT-257	.06	0.002
MT-258	.01	0.001
MT-259	.01	0.001
MT-260	.01	0.001

Certified by



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MIN-EN Laboratories Ltd.*Specialists in Mineral Environments*

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828

CERTIFICATE OF ASSAYCOMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKEFILE: 5-931/P3
DATE: NOV.28/85.
TYPE: ROCK ASSAYWe hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-261	2.49	0.073
MT-262	.05	0.001
MT-263	.01	0.001
MT-264	.01	0.001
MT-265	.01	0.001
MT-266	.01	0.001
MT-267	.01	0.001
MT-268	.55	0.016
MT-269	.87	0.025
MT-270	.22	0.006
MT-271	.04	0.001
MT-272	.02	0.001
MT-273	.06	0.002
MT-274	.01	0.001
MT-275	.01	0.001
MT-276	.01	0.001
MT-277	.01	0.001
MT-278	.21	0.006
MT-279	.01	0.001
MT-280	.02	0.001
MT-281	.01	0.001
MT-282	.01	0.001
MT-283	2.18	0.064
MT-284	.02	0.001
MT-285	.01	0.001
MT-286	.01	0.001
MT-287	.01	0.001
MT-288	.01	0.001
MT-289	.01	0.001
MT-290	.15	0.004

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Specialists in Mineral Environments
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

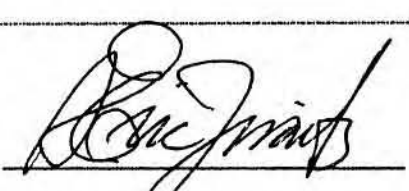
CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONSULTANTS
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-931/P4
DATE: NOV. 28/85.
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
MT-291	.01	0.001
MT-292	.01	0.001
MT-293	.01	0.001
MT-294	.01	0.001
MT-295	.01	0.001
MT-296	.01	0.001
MT-297	.01	0.001
MT-298	.22	0.006
MT-299	.01	0.001
MT-300	.23	0.007
MT-301	.05	0.001
MT-302	.78	0.023
MT-303	.18	0.005
MT-304	.01	0.001
MT-305	.01	0.001
MT-306	.62	0.018
MT-307	2.01	0.059
MT-308	.01	0.001
MT-309	.01	0.001
MT-310	.02	0.001
MT-311	.01	0.001
MT-312	.01	0.001
MT-313	.01	0.001
MT-314	.01	0.001

Certified by 

MIN-EN LABORATORIES LTD.

(VALUES IN PPM)	AG	AS	PB	SB	ZN
MT 201	1.2	73	19	3	145
MT 202	1.2	245	30	10	229
MT 203	3.9	724	60	20	283
MT 204	1.1	497	29	15	350
MT 205	1.2	401	35	29	334
MT 206	16.0	1162	652	136	652
MT 207	19.0	3016	701	238	4900
MT 208	5.9	1004	65	47	1574
MT 209	1.2	119	14	6	398
MT 210	2.0	65	11	4	90
MT 211	2.8	66	11	4	77
MT 212	.6	44	18	2	43
MT 213	1.8	1	2	6	29
MT 214	.3	154	15	16	164
MT 215	1.3	98	26	18	101
MT 216	1.1	70	28	12	72
MT 217	1.4	81	24	13	75
MT 218	2.6	36	7	5	32
MT 219	1.6	7	5	1	85
MT 220	.1	19	8	1	151
MT 221	1.2	318	27	9	195
MT 222	1.1	230	36	17	360
MT 223	1.0	101	35	15	110
MT 224	1.5	421	38	32	84
MT 225	.8	129	34	10	72
MT 226	1.0	149	37	15	79
MT 227	3.0	713	55	36	242
MT 228	2.5	302	59	20	272
MT 229	7.1	629	58	33	203
MT 230	3.7	411	50	26	306
MT 231	6.4	3288	49	54	241
MT 232	4.5	2158	48	36	343
MT 233	7.0	1792	65	31	1061
MT 234	2.2	553	52	15	998
MT 235	1.9	180	34	6	665
MT 236	3.8	143	8	4	193
MT 237	5.4	71	19	12	208
MT 238	1.4	266	22	11	69
MT 239	.8	189	26	14	34
MT 240	2.6	202	33	23	80
MT 241	1.4	170	20	22	49
MT 242	1.1	114	10	15	33
MT 243	1.3	231	15	37	62
MT 244	1.5	208	17	27	35
MT 245	2.2	196	20	27	37
MT 246	.9	89	17	7	71
MT 247	.1	115	18	13	78
MT 248	.7	159	18	25	61
MT 249	.2	220	18	29	62
MT 250	.3	109	13	16	55
MT 251	.3	92	12	11	46
MT 252	.9	47	21	12	44
MT 253	.3	25	19	2	49
MT 254	.4	26	20	6	44
MT 255	.5	46	19	10	47
MT 256	2.0	122	29	35	116
MT 257	.8	154	20	50	80
MT 258	.5	152	20	35	72
MT 259	.8	95	32	16	67
MT 260	.8	123	32	19	80

(VALUES IN PPM)	AG	AS	PB	SB	ZN
MT 261	8.8	3303	134	88	399
MT 262	.5	226	29	5	103
MT 263	.5	327	22	11	264
MT 264	.3	191	19	8	78
MT 265	1.0	186	43	16	83
MT 266	6.1	75	14	14	108
MT 267	5.1	51	24	15	108
MT 268	2.9	807	55	55	144
MT 269	3.5	783	73	70	130
MT 270	4.8	405	53	35	154
MT 271	7.9	300	18	24	147
MT 272	7.4	532	37	24	174
MT 273	5.7	294	41	24	154
MT 274	.5	103	31	4	68
MT 275	1.1	247	44	17	90
MT 276	1.9	460	53	27	96
MT 277	1.7	172	45	16	78
MT 278	1.7	571	52	40	96
MT 279	2.6	163	49	32	92
MT 280	3.1	208	61	43	111
MT 281	1.8	185	38	42	84
MT 282	2.1	346	50	76	94
MT 283	9.7	16997	38	2442	63
MT 284	3.3	3423	32	341	44
MT 285	1.7	829	53	226	74
MT 286	1.4	468	38	111	66
MT 287	2.3	788	59	147	106
MT 288	2.0	464	58	71	185
MT 289	3.8	498	80	93	195
MT 290	3.9	691	85	65	173
MT 291	2.2	665	43	103	97
MT 292	2.9	27	21	9	75
MT 293	4.9	1	28	1	66
MT 294	1.4	135	30	38	65
MT 295	1.7	127	32	60	100
MT 296	1.8	241	34	87	105
MT 297	1.6	663	34	140	140
MT 298	3.6	2671	34	197	72
MT 299	1.3	818	26	135	93
MT 301	.9	375	27	118	104
MT 302	1.2	1848	33	131	90
MT 303	1.4	472	25	51	67
MT 304	1.4	210	21	27	46
MT 305	.8	428	24	35	39
MT 306	2.0	2882	34	30	273
MT 307	4.3	3747	226	102	199
MT 308	1.5	379	32	64	118
MT 309	2.7	471	70	86	201
MT 310	2.3	169	46	28	125
MT 311	2.3	121	32	13	103
MT 312	2.6	85	31	17	97
MT 313	2.2	94	54	16	112
MT 314	1.5	83	48	9	67
MT 300	1.5	1337	31	179	69

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: 04-352828


CERTIFICATE OF ASSAY

COMPANY: COOKE GEOLOGICAL CONS.LTD.
PROJECT: MINTO
ATTENTION: BRAD COOKE

FILE: 5-948
DATE: DEC.2/85
TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
CT-06	.06	0.002
CT-07	.10	0.003
CT-08	.08	0.002
CT-09	.05	0.001
CT-10	.10	0.003
MT-315	.02	0.001
MT-316	.01	0.001
MT-317	.02	0.001
MT-318	1.00	0.029
MT-319	.99	0.029
MT-320	.02	0.001
MT-321	.02	0.001
MT-322	.36	0.010
MT-323	.51	0.015
MT-324	.69	0.020
MT-325	.05	0.001
MT-326	.02	0.001
MT-327	.10	0.003
TG-147	.06	0.002

Certified by 

MIN-EN LABORATORIES LTD.

(VALUES IN PPM)	AG	AS	FB	SB	ZN
CT-06	3.0	1	19	2	78
CT-07	3.1	1	19	3	69
CT-08	3.0	1	24	5	89
CT-09	4.0	1	14	3	89
CT-10	1.8	1	25	1	59
MT 315	1.0	197	90	10	164
MT 316	.8	267	47	5	105
MT 317	.9	644	33	35	250
MT 318	5.4	1940	657	94	1652
MT 319	3.6	2684	544	155	663
MT 320	1.3	1307	62	87	430
MT 321	.7	1028	24	124	42
MT 322	1.9	3736	25	156	76
MT 323	2.2	4914	35	183	32
MT 324	5.0	1078	33	1060	300
MT 325	.9	101	19	30	55
MT 326	1.7	145	49	38	112
MT 327	1.6	138	53	50	100
T6-147	3.9	2247	357	175	107

APPENDIX 2

Analytical Procedures.

Routine Gold-Assay Procedures
Used by Min-En Labs. Ltd.

1. Samples are received, cataloged and dried at 105^oC if necessary.
2. Whole sample is passed through a primary crusher which reduces sample to - $\frac{1}{2}$ inch.
3. Whole sample is further passed through a secondary crusher which further reduces the sample to -10 mesh.
4. The whole sample is riffled through a $\frac{1}{2}$ inch riffle to obtain a subsample of approx 300-400 grams. The remaining reject is bagged and stored.
5. The above 300-400 gram split is then pulverized to obtain -100 mesh using an iron plate rotary mill pulverizer.
6. Sample pulp is now rolled and analysed.
7. The sample pulp is assayed for gold using a 1 assay ton fire assay preconcentration and atomic absorption finishing techniques.
8. The remaining sample pulp is retained and stored.

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Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95^oC soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

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Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl ~~Ketone~~ ~~...~~ ~~...~~

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.005 ppm (5ppb).

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Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT
WORK - 26 ELEMENT ICP

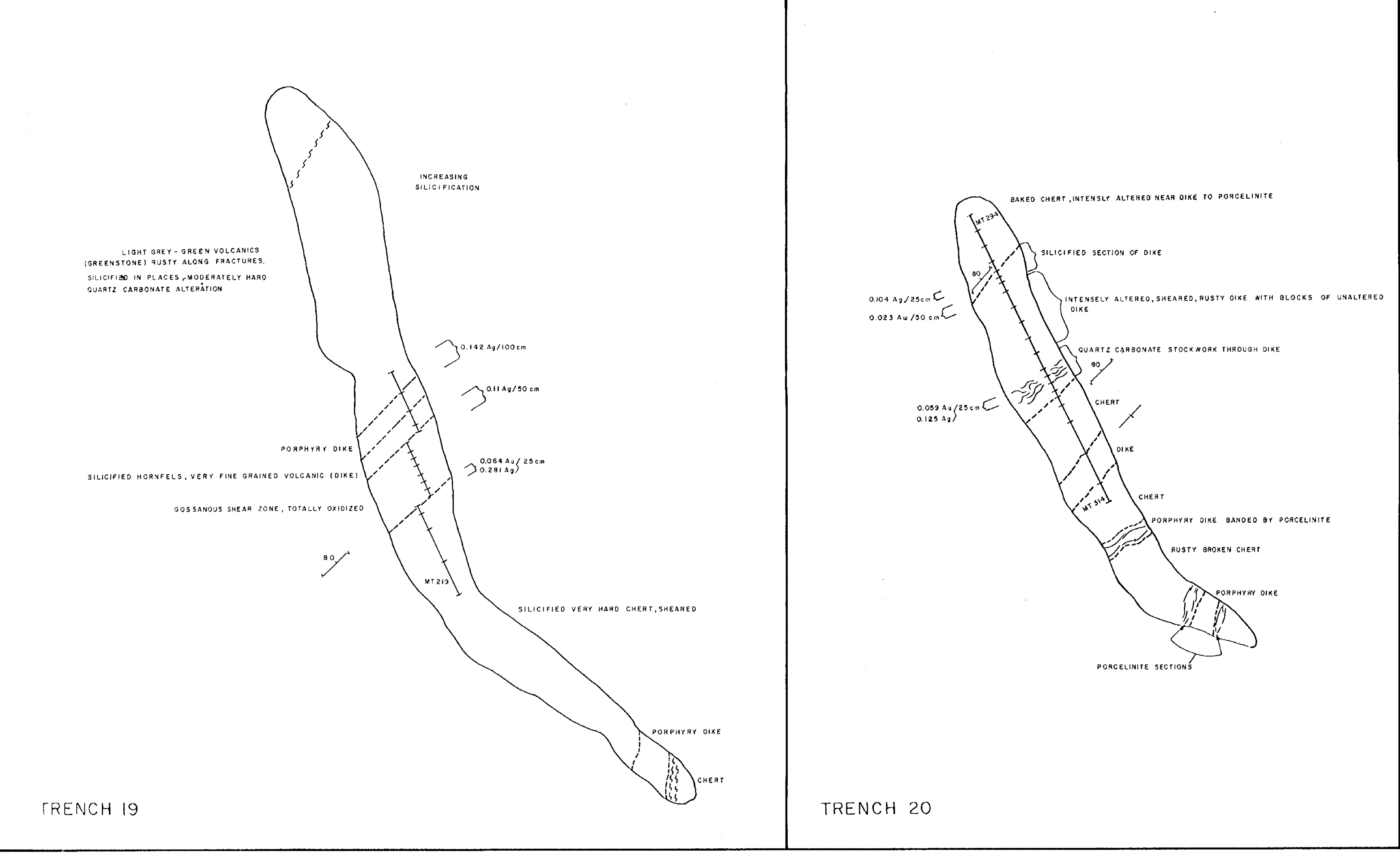
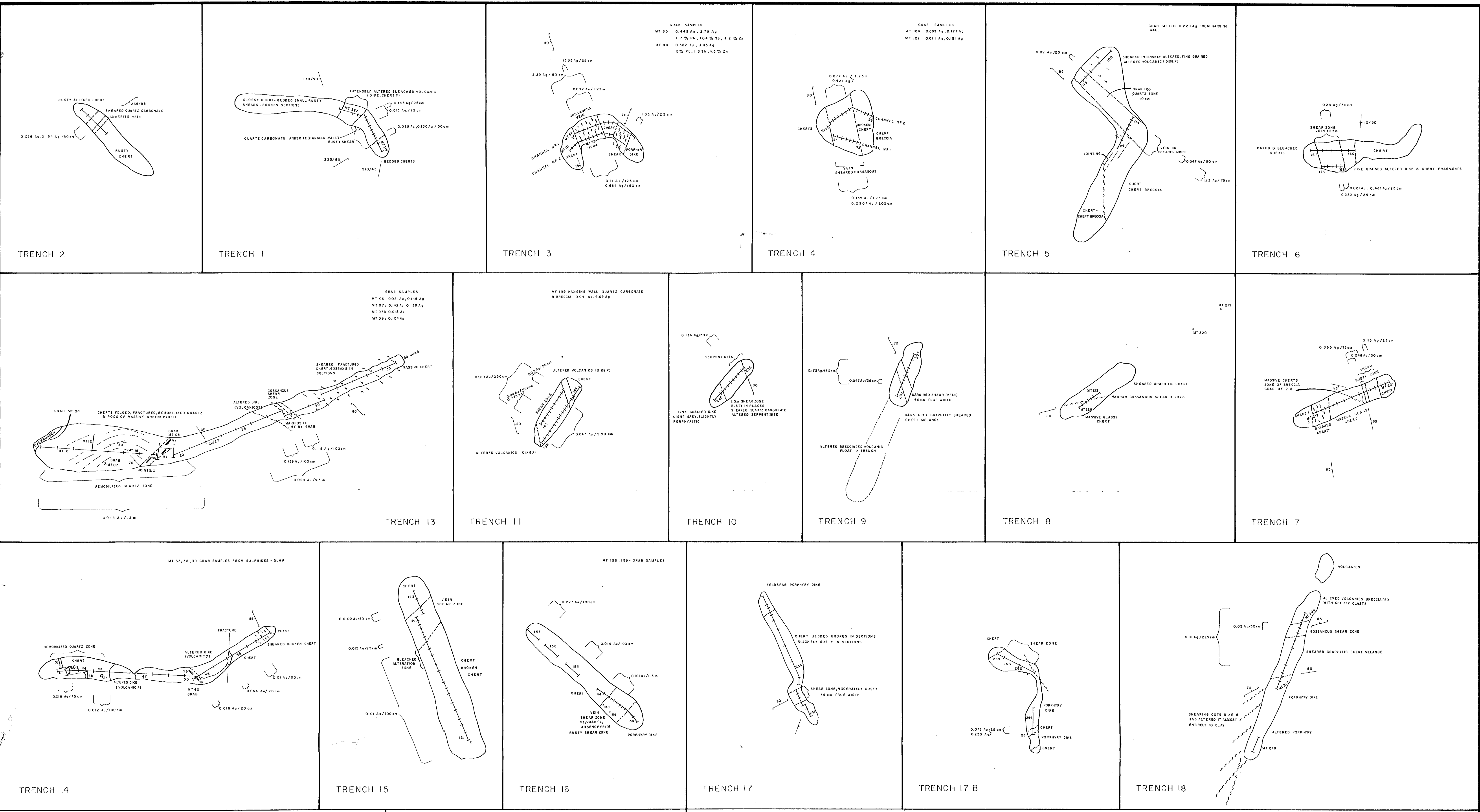
Ag, Al, As, B, Bi, Ca, Cd, Co, Cu, Fe, K, Mg, Mn, Mo,
Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

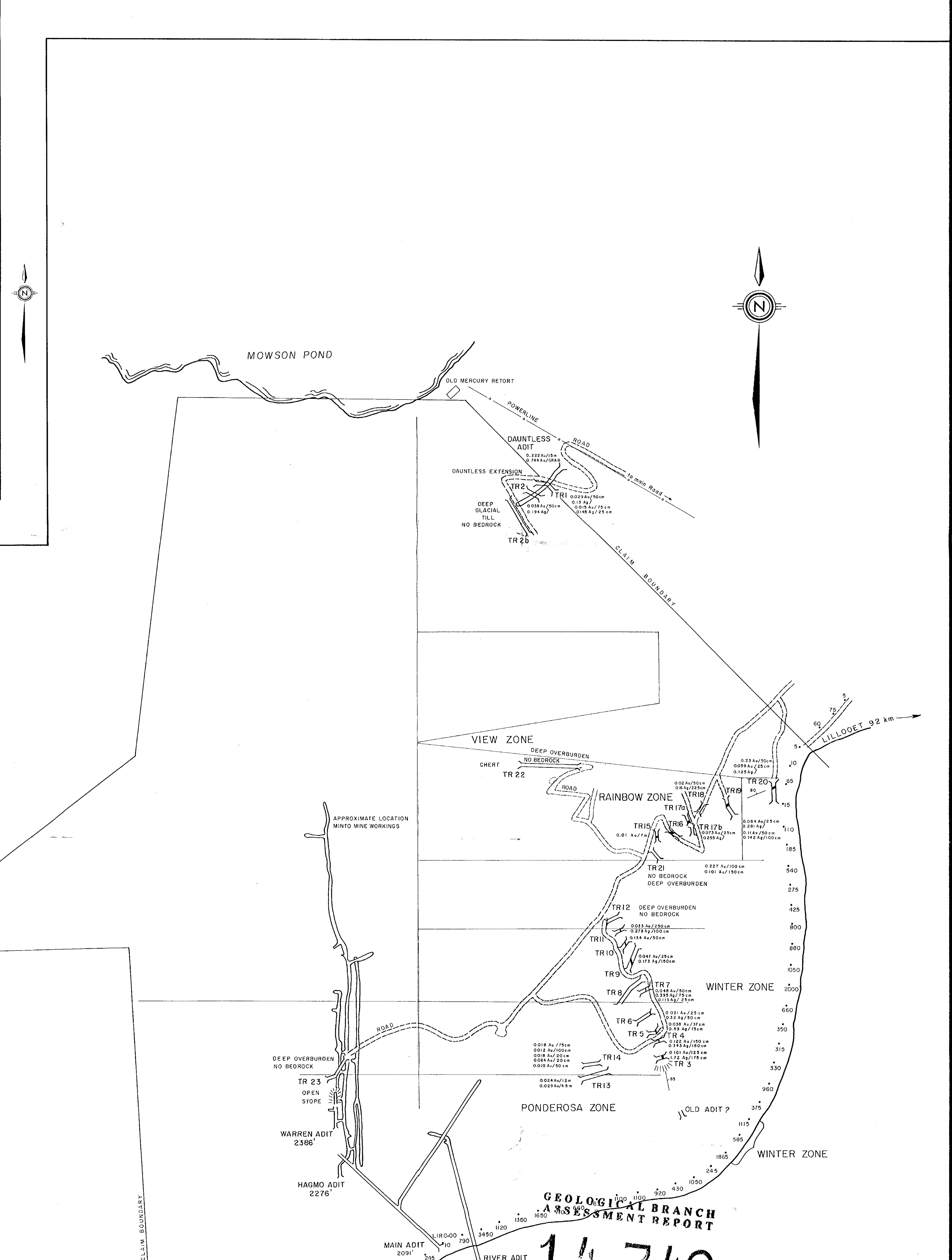
After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO₃ and HClO₄ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by Computer operated Jarrell Ash 9000ICP. Inductively coupled Plasma Analyser. Reports are formatted by routing computer dotline print out.

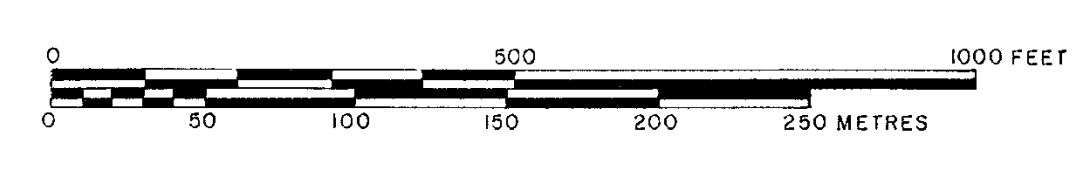


DETAIL OF TRENCHES SCALE 1:100



1:1,740

- LEGEND**
- SHEAR
 - BEDDING ORIENTATION
 - SHEARING ORIENTATION
 - TRENCH
 - ADIT
- ASSAY RESULTS**
- GOLD ASSAY IN OUNCES PER TON / WIDTH OF SAMPLE
 - SILVER ASSAY IN OUNCES PER TON / WIDTH OF SAMPLE
 - TALUS GEOCHEMICAL SAMPLE, GOLD PLOTTED IN P.P.B.



MINTO MINES & RESOURCES LTD.
 MINTO MINE PROPERTY
EXCAVATOR TRENCHING AND TALUS SAMPLING
 COOKE GEOLOGICAL CONSULTANTS LTD.
 BY: J. ROBINS SCALE 1:2,500
 DATE: DEC. 1985 DRAWN: J.R.J.W. FIG. 5