

LOG NO:	RD
ACTION:	
FILE NO:	

SUB-RECORDER	
RECEIVED	
NOV 22 1969	
M.R. #	\$
VANCOUVER, B.C.	

GEOLOGICAL AND GEOCHEMICAL SURVEY

ON THE PEG & BO GROUP OF CLAIMS

VICTORIA MINING DIVISION

N.T.S. 92B/12 & 92C/9

BPEX-8 (0670), BPEX-10 (0495), FRS 10 (1470), PEG 1 (0077)
 PEG 2 (0090), PEG 3 (0091), PEG 4 (0092), PEG 5 (0144)
 PEG 6 (0145), BO-1 (0188), BO-2 (0189), BO-3 (0190),
 BO-4 (0191)

Latitude 48°30'30" Longitude 123°58'30"

Owner : Beau Pre Explorations Limited
 Valentine Gold Corporation

Operator : Noranda Exploration Company, Limited (no personal
 liability)

Authors : Terence J. McIntyre
 R.G. Wilson

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

19,558

TABLE OF CONTENTS

	<u>PAGE</u>
SUMMARY.....	1
1.0 INTRODUCTION.....	3
1.1 Location and Access.....	3
1.2 Physiography.....	3
1.3 Claims and Ownership.....	6
1.4 Previous Work.....	6
1.5 Work Performed.....	8
1.6 Personnel.....	8
2.0 METHODS.....	8
2.1 Prospecting.....	8
2.2 Geological Mapping.....	9
2.3 Geochemical Sampling.....	9
3.0 GEOLOGY.....	10
3.1 Regional Geology.....	10
3.2 Property Geology.....	12
3.3 Mineralization and Alteration.....	14
4.0 PROSPECTING REPORT.....	15
5.0 GEOCHEMICAL RESULTS.....	16
6.0 CONCLUSION.....	17
7.0 REFERENCES.....	18

LIST OF FIGURES

Figure 1 :	Property Location Map	1:2,500,000
Figure 2 :	Property Location Map	1:250,000
Figure 3 :	Mineral Claim Location	1:50,000
Figure 4 :	Regional Geology	1:100,000
Figure 4a:	Legend for Regional Geology	
Figure 5a:	Property Geology & Sample Locations - West Half	1:5,000
Figure 5b:	Property Geology & Sample Locations - East Half	
Figure 6a:	Geochemistry Au & As - West Half	1:5,000
Figure 6b:	Geochemistry Au & As - East Half	
Figure 7a:	Geochemistry Cu, Pb, Zn, Ag - West Half	1:5,000
Figure 7b:	Geochemistry Cu, Pb, Zn, Ag - East Half	

LIST OF APPENDICES

Appendix I:	Analytical Method Descriptions for Geochemical Assessment Reports
Appendix II:	Rock Sample Descriptions
Appendix III:	Analysis Certificates
Appendix IV:	Statement of Costs
Appendix V:	Author's Qualifications

SUMMARY

The Peg & Bo group of claims lie approximately 25 km northwest of the township of Sooke, B.C. The group, comprising 55 units, is accessed via the Butler Main and Walker Main logging roads.

A reconnaissance style exploration programme was carried out from April 27 to June 21, 1989 and comprised geological mapping, prospecting and geochemical rock, soil, and stream sediment sampling.

The geology of the claim group consists of metasandstone, metapelites, and amphibolites of the Leech River Formation. These units have been subsequently intruded by a large quartz diorite sill and by small pegmatite dykes and sills both of Tertiary Age.

Geological mapping, at a scale of 1:5,000 and coincident with geochemical sampling, was carried out along north-south compassed traverses and along creeks.

Quartz veins, quartz stringers, and quartz sweats are pervasive throughout the metasedimentary rocks. Visible sulfides within the quartz veins is a rare occurrence, although they generally exhibit limonitic or hematitic staining, and they contain minor amounts of chlorite and sericite.

A few hydrothermal alteration zones were noted on the claim group and these consisted of a narrow quartz rich vein, with or without sulfides, surrounded by an argillic envelope.

Sulfide mineralization found on the claim group consists of pyrite, chalcopyrite, and bornite and is largely confined to siliceous alteration zones, brecciated zones, and rusty seep zones within the amphibolite unit. With the exception of a few localized areas sulfide mineralization was found to be sparse.

Continuous rock chip sampling produced values of 0.67% Cu (R.59346) and 0.28% Cu (R.59350) in narrow sulphide zones that do not appear continuous over an observable strike length.

Other rock and soil samples, taken in the vicinity of the BS Zone, managed to produce only slightly elevated Au values above those of background levels.

Pan concentrate samples obtained from the base of Walker Creek (H.44548) and from further up creek (H.44540) returned values of 1900 ppb and 500 ppb Au respectively. The source of this Au mineralization may be a unit located north or northeast of the claim group at the headwaters of Walker Creek.

1.0 INTRODUCTION

1.1 Location and Access

The Peg & Bo group of claims lie approximately 25 km northwest of the township of Sooke, B.C. (Figures 1 & 2). The claim group is accessed from Sooke via the Butler Main logging road as far as the Jordan River, and from this point via the Walker Main logging road. Access from here is via numerous branches off the Walker Main, most of which are in fair condition.

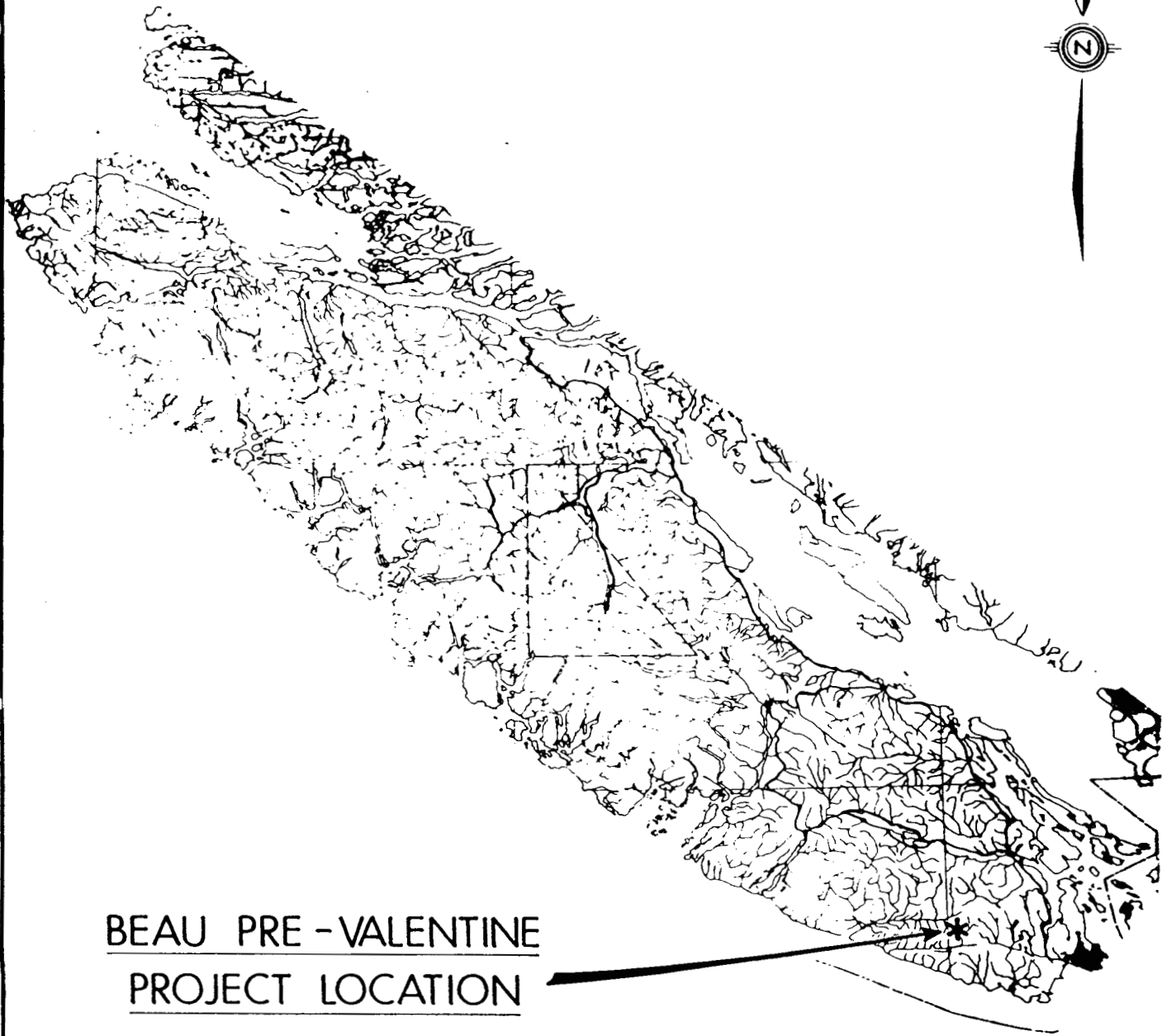
1.2 Physiography

The Peg & Bo group lies within the Vancouver Island Ranges in the southern portion of the Insular Mountains.

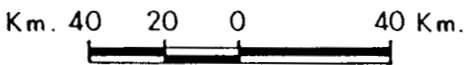
The physiography is composed of a gently rolling plateau at the north edge of the claim group which drops steeply, towards south, either into Walker Creek at the centre of the claim, or into the Diversion Reservoir on either side of Walker Creek. Elevations range from 853 metres at the northern limit of the claim group to 372 metres at the reservoir.

The climate of the southern Vancouver Island is quite mild. The fall, winter and spring months are typified by heavy precipitation which can result in a considerable snow pack at elevations greater than 600 metres. Below this elevation work can proceed almost year round, however, above this elevation the snow pack remains until May and June. The summer months are hot and dry with up to six weeks of forest closure annually due to forest fire hazard.

Most of the claim group has been clear cut logged and there is a profusion of second growth in various stages of maturation. Above the 800 metre elevation there are stands of mature timber interspaced with huckleberry bushes.

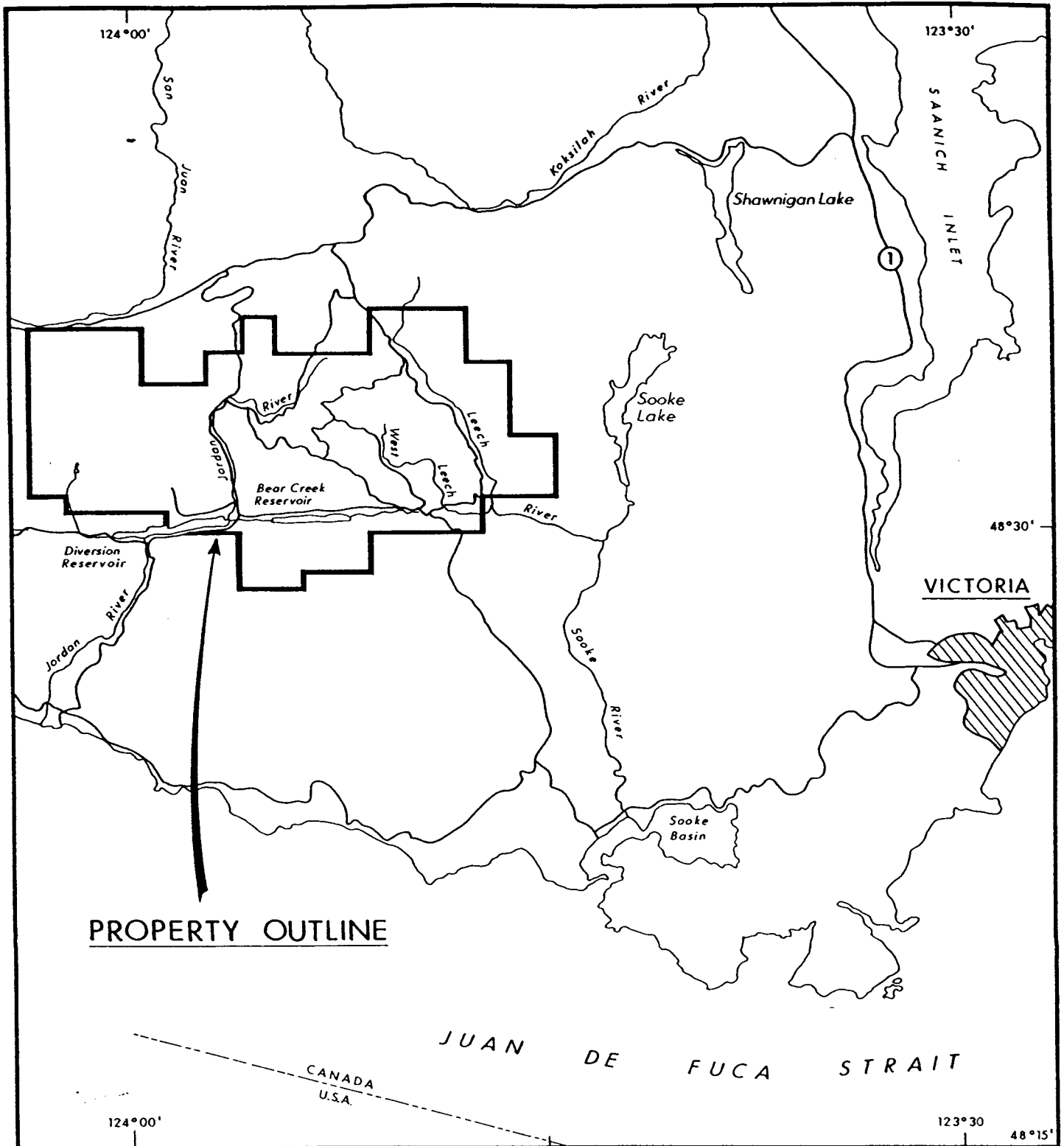


BEAU PRE - VALENTINE
PROJECT LOCATION



REVISED	BEAU PRE - VALENTINE	
	PROJECT LOCATION	
PROJ No <u>120</u>	SURVEY BY <u>R.W.</u>	DATE <u>JULY 1989</u>
N.T.S. <u>92B/C</u>	DRAWN BY <u>J.S.</u>	SCALE <u>1:2,000,000</u>
DWG No	NORANDA EXPLORATION	
<u>1</u>	OFFICE <u>VANCOUVER</u>	

NO 774



PROPERTY OUTLINE

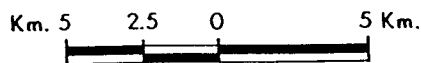
JUAN DE FUCA STRAIT

CANADA
U.S.A.

124°00'

123°30'

48°15'



VANICAL 11827

REVISED	BEAU PRE - VALENTINE	
	<u>PROPERTY LOCATION</u>	
PROJ. No. 120	SURVEY BY: R.W.	DATE: JUNE 1989
N.T.S. 928/5,12	DRAWN BY: J. Serwin	SCALE: 1:250,000
DWG. No. 2	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

1.3 Claims and Ownership

The Peg & Bo group is made up of the following claims (Figure 3):

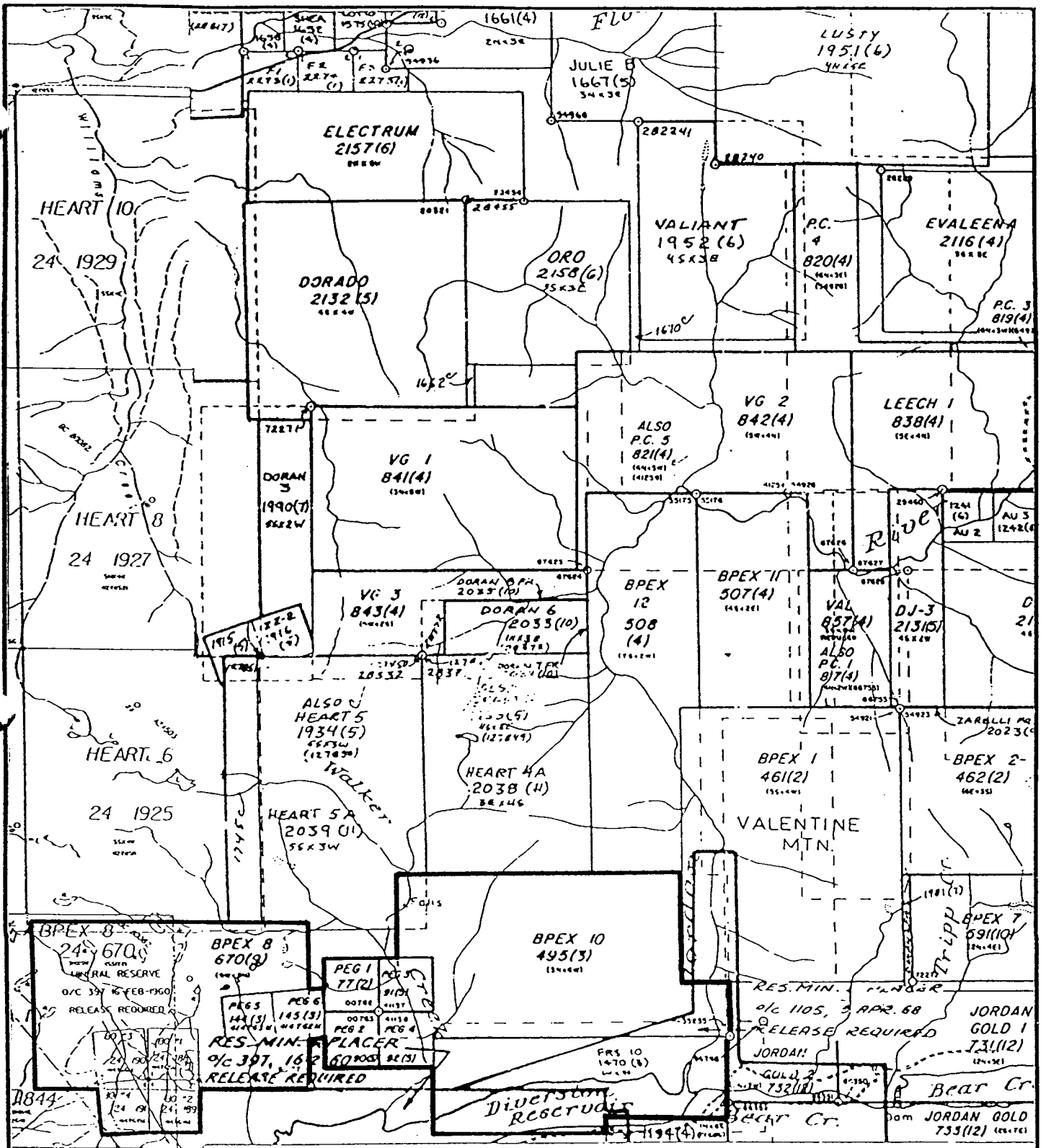
Name	Record #	Units	Previous Due Date	New Expiry Due Date
BPEX 8	0670	15	Sept. 21, 1990	Sept.21/91
BPEX 10	0495	18	March 6, 1990	Mar. 6/91
FRS 10	1470	12	March 19, 1990	Mar. 19/91
PEG 1	0077	1	Feb. 23, 1990	Feb. 23/91
PEG 2	0090	1	May 24, 1990	May 24/91
PEG 3	0091	1	May 24, 1990	May 24/91
PEG 4	0092	1	May 24, 1990	May 24/91
PEG 5	0144	1	March 20, 1990	Mar. 20/91
PEG 6	0145	1	March 20, 1990	Mar. 20/91
BO-1	0188	1	Sept. 14, 1989	Sept.14/91
BO-2	0189	1	Sept. 18, 1989	Sept.18/91
BO-3	0190	1	Sept. 18, 1989	Sept.18/91
BO-4	0191	1	Sept. 18, 1989	Sept.18/91

=====
All interest in the Peg & Bo group of claims have been transferred for administrative purposes to Noranda Exploration Company, Limited (no personal liability), as stated in an option agreement between Noranda, Beau-Pre Explorations Ltd., and Valentine Gold Corporation.

1.4 Previous Work

Discovery of placer gold in the Leech river gave rise to a gold rush in 1864 to 1865. A tent city with a population of upwards of 4,000 people sprang up at the confluence of the Leech and Sooke Rivers. Placer gold and nuggets ranging from ½ to 1 ounce were reported, however, a bedrock source was not found. Total value of the placer gold recovered in this area, in 1866 dollars, is estimated between \$100,000 and \$200,000.

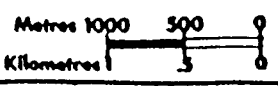
In 1966 Mr. Fred Zorelli discovered native gold in a piece of quartz float on Valentine Mountain. In 1976 Bob Beaupre discovered native gold in a narrow quartz vein called the "A" Vein and began an exploration programme from 1976 to 1983. The programme, centred on Valentine Mountain, involved soil geochemical surveys,



124° 00'

REVISED	BEAU PRE-VALENTINE	
	PEG & BO CLAIM GROUP CLAIMS LOCATION	
PROJ. No. 120	SURVEY BY: T. McIntyre	DATE: Sept. 8/89
N.T.S. 92B/12	DRAWN BY: T. McIntyre	SCALE: 1:50,000
DWG. No.	NORANDA EXPLORATION	
3	OFFICE: Vancouver	

VICTORIA MINING DIVISION



VANCAL 11927

trenching, bulk sampling, geological mapping, and drilling. In 1985 Falconbridge Limited conducted a trenching and sampling programme. In 1987 Valentine Gold Corporation conducted bulk sampling and a regional exploration programme on the property.

Previous work performed on the Peg & Bo group consists of a 1984 programme of geological mapping and sampling by G.A. Wingert, and a 1987 Valentine Gold Corporation programme of regional rock sample and stream sediment sampling.

1.5 Work Performed

A total of 41 mandays were spent on a reconnaissance style exploration programme from April 27 to June 21, 1989 on the Peg & Bo claim group.

The programme comprised geological mapping, prospecting, and geochemical rock, soil, and stream sediment sampling. A total of 41 rocks 54 soils, 11 silts and 13 pan concentrate samples were taken. Of this total, 25 mandays were spent and 16 rock samples were taken on a prospecting survey from April 27 to May 09, 1989. The costs of this survey are included in the reconnaissance programme. The soil samples were analyzed by Acme Analytical Laboratories and by Noranda's Vancouver laboratory. The rock samples were analyzed entirely by Acme Analytical Laboratories.

1.6 Personnel

The work was carried out on the claim group by T. McIntyre (Regional Property Crew Chief), D. Sharpe (Geologist), B. Singh (Geological Assistant), I. Saunders (Fieldmen), K. Lovang, and J. Lovang (Prospectors).

2.0 METHODS

2.1 Prospecting

Prospecting of the Met group was carried out in the initial part of the programme. Grab rock samples were obtained by the prospectors of gossanous outcrops, and of sulfide mineralization, in outcrop and in float. Rock sample locations were then plotted on a 1:5,000 scale topographic map (Figure 5).

The results of this initial survey produced Cu anomalies in the vicinity of a quartz diorite sill. These areas became the focus of attention during the reconnaissance exploration programme.

2.2 Geological Mapping

Geological mapping coincident with geochemical sampling was carried out along north-south compassed traverses, and up creeks. The mapping, at a scale of 1:5,000, was carried out with a view to identifying lithology, metamorphism, structure, mineralization, quartz veining and alteration.

2.3 Geochemical Sampling

Continuous rock chip samples were taken along the strike of quartz veins, and across the width of mineralized zones and hydrothermal alteration zones. To sample zones of sulfide mineralization continuous rock chip sampling was employed in order to produce a more representative geochemical result. Sample widths varied from 0.20 m to 1.0 m with one 5.0 metre sample taken across a hydrothermal alteration zone.

Rock samples collected on the Peg & Bo group, each weighing approximately 2 kg, were placed in 6 ml plastic bags and shipped to Acme Analytical Laboratories Limited in Vancouver for analysis.

The samples were dried, sieved to -80 mesh, and subjected to a 95°C solution of 3:1:2 - HCl:HNO₃:H₂O for a period of 1 hour. The samples were analyzed using the 30-element ICP (inductively coupled argon plasma) method and geochemically analyzed for Au by Atomic Absorption determination.

Soil samples were taken along north-south compassed traverse lines, placed perpendicular to the strike of a quartz diorite sill. Each line is approximately 500 metres apart and 1000 metres in length with soil stations established every 50 metres. Samples, weighing approximately 1 kg each, were taken in the B Horizon at an approximate depth of 30 cm, placed into Kraft paper bags, and partially air dried prior to shipment to Noranda's Vancouver laboratory.

Analysis was carried out by Acme Analytical Laboratories Limited using the 30-element ICP method used for rock samples. Noranda's Vancouver laboratory conducted the analysis of Au in soil samples using Atomic Absorption determination. See Appendix I for Noranda's and Acme's laboratory analytical techniques.

Pan and coincident silt samples were taken at selected locations along creeks on the claim group. The creeks run predominantly north-south and drain into the Diversion Reservoir. The pan samples were obtained by sieving stream sediment down to - 6 mesh and subsequently panning this down to a final volume of approximately 20 ml. Silt samples weighing approximately 1 kg were obtained from the same location as the pan sample and placed into Kraft paper bags. Both were given a sample number and partially air dried prior to shipment to Noranda's Vancouver laboratory.

Analysis was carried out by Acme Analytical Laboratories Limited using the 30 element ICP method used for rock samples. Noranda's Vancouver laboratory conducted the analysis of Au in pan and silt samples using Atomic Absorption determination.

Sample type and location, designated by symbol, and sample numbers are displayed on Figure 5.

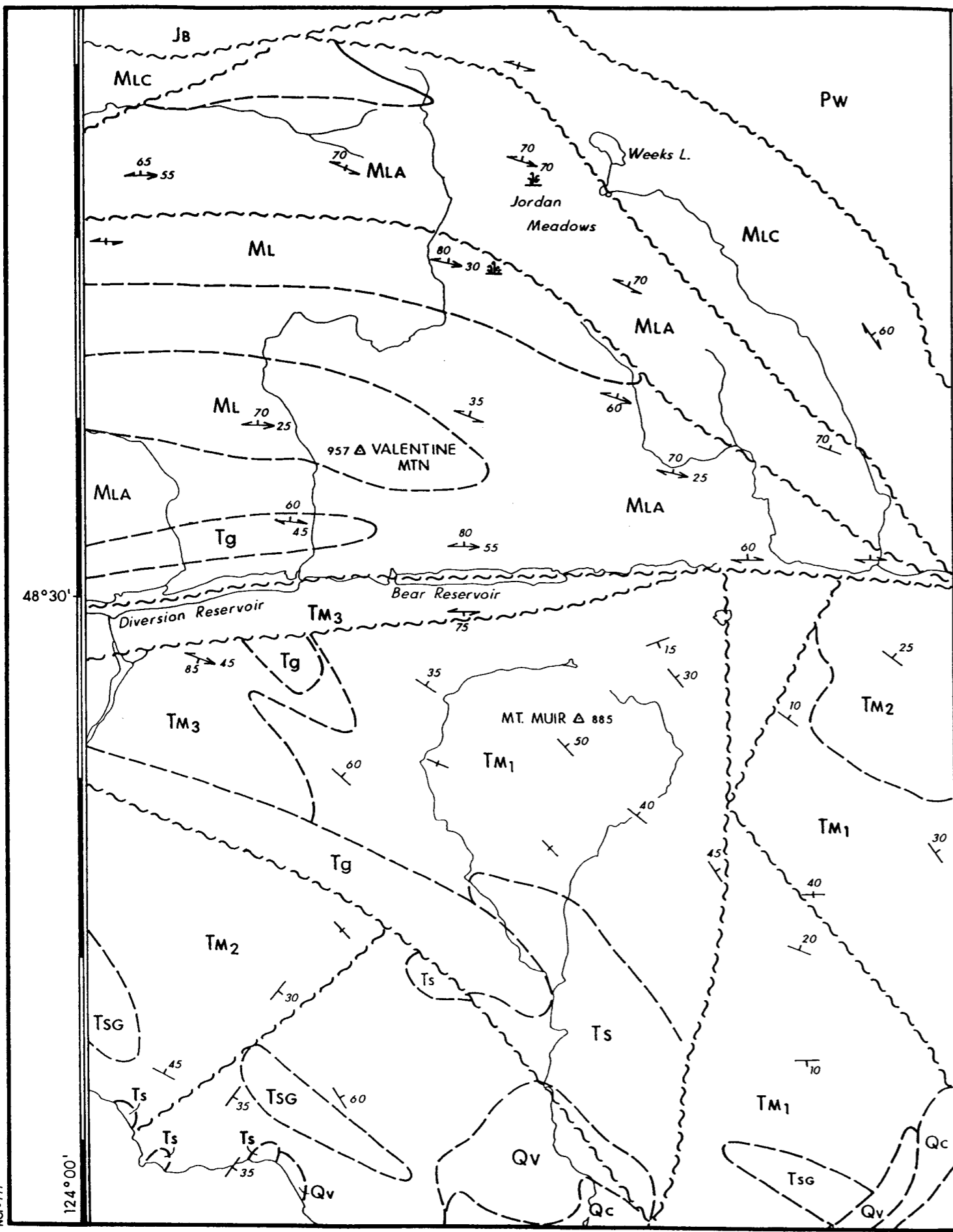
3.0 GEOLOGY

3.1 Regional Geology

The southern portion of Vancouver Island is composed of a series of volcanics and sediments, of Mesozoic to Cenozoic Age, which have subsequently been deformed and faulted into a structurally complex stratigraphic sequence (Figure 4).

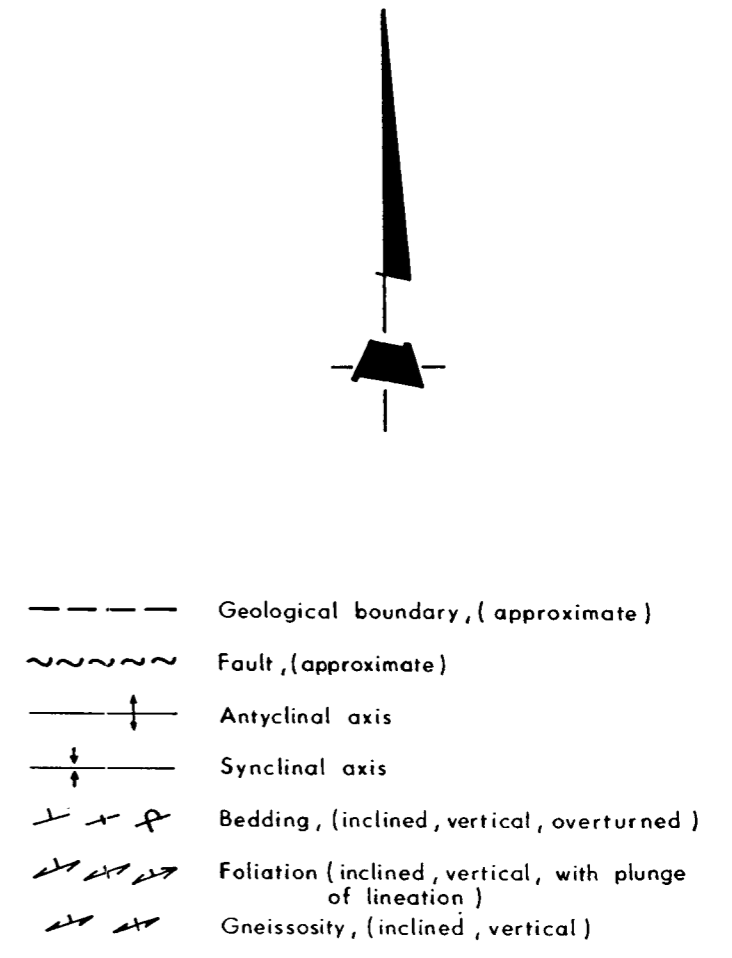
This stratigraphic sequence is represented by the Bonanza Volcanics, Leech River Formation, Metchosin Volcanics, and the Colquitz Gneiss and Wark Diorite.

At the centre of this sequence is the discrete geotectonic Leech River Formation (Grove, 1984). It is a fault bounded complex package of sediments and volcanics which have undergone regional metamorphism to produce metasandstones, metapelites and amphibolites. The metapelites range from phyllite, to biotite



LEGEND

- QUATERNARY RECENT**
- Q** Recent sediments
 - Qc** CAPILANO SEDIMENTS: sand, gravel, silt, clay
 - Qv** VASHON DRIFT: gravel, sand, till
- CENOZOIC**
- TERTIARY**
- OLIGOCENE AND/OR MIOCENE**
- Ts** SOOKE FORMATION: conglomerate, sandstone, shale
- EOCENE (AND OLDER ?)**
- Tg** CATFACE INTRUSIONS: quartz, diorite, agmatite
 - TM** METCHOSIN VOLCANICS:
 - TM₁ pillow basalt, breccia, tuff;
 - TM₂ mainly basaltic lava;
 - TM₃ schistose metavolcanic rock
 - TSG** SOOKE GABBRO: mainly gabbro
- JURASSIC AND CRETACEOUS**
- UPPER JURASSIC AND LOWER CRETACEOUS**
- JKs** SPIEDEN FORMATION: conglomerate, sandstone, siltstone
- TRIASSIC TO CRETACEOUS**
- LEECH RIVER FORMATION (MLc to ML)**
- ML** METAGREYWACKE UNIT: metagreywacke, meta-arkose, quartz - feldspar - biotite schist
 - MLA** ARGILLITE - METAGREYWACKE UNIT: thinly bedded greywacke and argillite, slate, phyllite, quartz - biotite schist
 - MLc** CHERT - ARGILLITE - VOLCANIC UNIT: ribbon chert, cherty argillite, metarhyolite, metabasalt, chlorite schist
 - Mc** CONSTITUTION FORMATION (San Juan Island): thinly bedded greywacke, argillite and chert.
- JURASSIC**
- LOWER TO MIDDLE JURASSIC**
- BONANZA GROUP**
- JB** Basaltic to rhyolitic tuff, breccia, flows, minor argillite, greywacke
- PENNSYLVANIAN AND MISSISSIPPIAN**
- LOWER PALEOZOIC (OR YOUNGER ?)**
- Pc** COLQUITZ GNEISS: quartz - feldspar gneiss
 - Pw** WARK GNEISS: massive and gneissic metadiorite, metagabbro, amphibolite.



SCALE
1: 100,000



19358

REVISED	BEAU PRE - VALENTINE	
	REGIONAL GEOLOGY	
PROJ. No. 120	SURVEY BY: J. Serwin	DATE: October 89
N.T.S. 92E/12	DRAWN BY: J. Serwin	SCALE: 1: 100,000
DWG. No. 4	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

schist through to biotite-garnet-staurolite-andalusite-schist depending upon metamorphic grade. These units have been subsequently intruded by Tertiary granitic and quartz diorite sills.

The age of the Leech River Formation is somewhere between Late Jurassic to Early Cretaceous (Fairchild, 1982). It is thought originally to have been sediments from a Pacific rim trench which have subsequently been deformed and faulted to produce a major, east-west trending, east plunging anticline centred on Valentine Mountain.

South of the Leech River Formation, separated by the Leech River Fault, lie the Metchosin Volcanics a sequence of basaltic lavas, aquagene breccia, and pyroclastics of Eocene age.

North of the Leech River Formation, separated by the San Juan Fault lie the Karmutsen and Bonanza volcanics. These are represented by massive andesite and dacite tuffs, and flows, and are Paleozoic to Jurassic in age.

To the east, separated by the Survey Mountain Fault, lie the Colquitz Gneiss, Wark Diorite and metavolcanic units. These are considered to be Paleozoic to Mesozoic in age.

3.2 Property Geology

The geology of the Peg & Bo group is composed of metasandstone, metapelites and amphibolite units of the Leech River Formation which have been subsequently intruded by a large quartz diorite sill and by small pegmatite dykes and sills (Figures 5a/5b).

The metasandstone is a fine to medium grained quartz-feldspathic sandstone. In fresh surface it is medium to light grey, weathering to a buff brown colour. The unit is massive and often forms prominent cliffs. In some locations it exhibits minor schistosity and occurs as minor laminations within the phyllite.

The metapelites are represented by the phyllite, and by the biotite-garnet-schist to biotite-garnet-staurolite-andalusite-schist. The mineralogical composition of the metapelites is dependent upon metamorphic grade.

There are two types of phyllite present on the property. One formed from low grade metamorphism and second from retrograde metamorphism (Wingert, 1984). The latter, a retrograde phyllite is found along the Leech River Fault.

The phyllite unit is a very fine grained biotitic phyllite. It is strongly fissile, grey-black in colour and exhibits a micaceous sheen along cleavage planes.

The schists are fine to medium grained with biotite, and quartz segregated layers 1-3 mm in width. In fresh and weathered surfaces they are medium to dark grey in colour.

The highest metamorphic grade of the schists is the biotite-garnet-staurolite-andalusite-schist. These schists are found predominantly on Valentine Mountain and west across the Jordan River. Biotite-garnet-schists occur in zones between the biotite-garnet-staurolite-andalusite-schist and the lower metamorphic grade phyllites.

The main constitute minerals of the schists are biotite, garnet, staurolite, andalusite, and quartz with minor amounts of chlorite, muscovite and tourmaline. Garnet is common in the mineralogical composition of the schists, and occurs as porphyroblasts of euhedral almandine garnet ranging in size from <1 mm to 1 cm and averaging 2-3 mm.

Staurolite is also porphyroblastic as is the andalusite. The staurolite, dark brown to black in colour, is euhedral cruciform in shape and ranges in size from <1 mm to 1.5 cm and averages 7-9 mm. Andalusite (chiastolite) occurs as subhedral to anhedral crystals 2 cm to 8 cm in length and in colour light pink in fresh surface weathering to medium to dark grey.

The order of constitute minerals of the schists is not meant to imply the relative abundance of each mineral, but rather they are intended to act as an indicator of regional metamorphic grade.

The amphibolite unit occurs as layers or lamina within the metapelites and metasandstone units. Originally intercalated porphyritic basalt and crystal tuff (Grove, 1984) the amphibolite unit varies dependent upon metamorphic grade from upper green schist facies to amphibolite facies (Wingert, 1984).

The lower grade amphibolite is a fine grained schistose rock with fine grained actinolite crystals apparent on foliation surfaces. The higher grade amphibolite is composed of alternating bands of fine grained acicular actinolite, hornblende, and quartz-feldspar-epidote. The amphibolite unit varies from a chloritic green colour to alternating bands of dark green and white minerals.

The intrusive is a moderately crystalline, equigranular, quartz diorite sill. It's strike is roughly east-west and it dips approximately 75° to the north. The sill is 2800 metres in length achieving a maximum width of 600 metres before pinching out at both ends.

The Leech River Fault, which is an east-west trending thrust fault, cuts through the Peg & Bo group approximately through the Diversion Reservoir.

3.3 Mineralization and Alteration

Quartz veins, quartz stringers, and quartz sweats occur throughout the metasedimentary rocks. The quartz veins range in size from 5 mm to 0.30 m and are composed of a white bull quartz to semi-translucent quartz with subhedral to anhedral crystals. Sulfide mineralization is a rare occurrence although the quartz veins generally show limonitic or hematitic staining. Visible sulfides within quartz veins consist of a trace of pyrite and/or pyrrhotite.

Alteration within the quartz veins generally takes the form of chlorite and sericite.

Three major alteration zones occur on the claim group. The first was originally discovered by B. Beaupre and referred to by him as an epithermal zone. The hydrothermal alteration zone, named the BS Zone by Noranda personnel, is located 20 m northwest of Station 750N on traverse line BS1. The BS Zone occurs in the amphibolite in a road cut alongside a logging road. It is approximately 5.0 metres in width and consists of a 0.20 metre vein composed of quartz, druse quartz and pyritic stringers surrounded by an argillic envelope with minor propylitic alteration at the fringe. Within the envelope there is a central core of fracturing and silicification with pyrite veinlets grading outward into a zone characterized by chlorite, montmorillonite and amorphous clay.

The second is a hydrothermal alteration zone which occurs in the quartz diorite sill. It is located in a quarry off WA6A logging road and outcrops again 250 metres to the southwest in Strathallan Creek. It is 5.7 metres in width in the quarry narrowing to 1.5 metres in Strathallan Creek. It is composed of a 5 cm wide quartz vein enclosed in an intermediate argillic assemblage characterized by kaolin, illite, and pervasive clay mineral alteration.

A third hydrothermal alteration zone occurs in the amphibolite and is found in a quarry 50 metres west of Station 800N on Traverse DS1. It is similar to the BS Zone discussed above. The zone is 1½ metres in width and consists of a narrow zone of quartz cemented breccia surrounded by an argillic envelope.

Sulfide mineralization which takes the form of pyrite, chalcopyrite and bornite is largely confined to siliceous alteration zones, brecciated zones and rusty seep zones within the amphibolite unit. With the exception of a few localized areas sulfide mineralization is sparse.

4.0 PROSPECTING REPORT

A total of 25 mandays were spent prospecting the Peg & Bo group from April 27 to June 21, 1989. Sixteen rock samples were collected and analyzed for 30 element ICP plus Atomic Absorption Au.

Prospecting consisted of foot traverses along logging roads and prominent rock ridges. Mineralized float and/or road fill was sampled and the source outcrop in some cases was located. The majority of rock samples were collected directly from outcrop.

Mineralization consisted of pyrite, chalcopyrite, pyrrhotite, magnetite and minor bornite. No arsenopyrite was found.

There is a good correlation between the occurrence of rhodochrosite and mineralization. One source of the copper mineralization is a quarry located 50 metres west of Station 800N on traverse line DS1.

Good mineralization and rhodochrosite was found above Walker Main logging road west of Walker Creek. It was traced 250 metres along strike but did not occur over any considerable width. Sample numbers R.59223, R.59225 and R.59184 were collected in this area.

5.0 GEOCHEMICAL RESULTS

Sample location and type, designated by symbol, and sample numbers are displayed on Figure 5a/5b. Results for Au and As are displayed on Figures 6a/6b, and results for Cu, Zn, Pb and Ag are displayed on Figures 7a/7b. Analysis certificates for all elements are contained within Appendices IV.

Grab samples collected during the initial prospecting survey produced values of 0.44% Cu and 118 ppb Au (R.59192), 0.19% Cu and 38 ppb Au (R.59193), and 0.48% Cu and 29 ppb Au (R.58652). In the case of R.59192 and R.59193 the samples were found to be rock float and no immediate bedrock source was found.

In following up the initial prospecting survey continuous rock chip sampling was employed across sulfide zones and this produced values of 0.67% Cu and 15 ppb Au (R.59346) over 0.20 metres, and 0.28% Cu and 11 ppb Au (R.59350) over a width of 0.30 metres.

The former sample (R.59346) was taken on the side of a logging road and forms part of the road bed. The zone, occurring in amphibolite, consists of pyrite, chalcopyrite and rhodenite. The latter (R.59350) was taken from a rusty seep zone in the amphibolite unit. It occurs at the intersection of a foliation and joint plane and is 0.10 metre in width.

Soil samples taken along traverse lines failed to produce values significantly above background levels. The exception to this is the BS1 Traverse which produced an anomaly, over a distance of 100 metres, consisting of 129 ppb and 10 ppb Au in the vicinity of the BS Zone.

The pan concentrate samples produced the most significant anomalies. In particular pan sample H.44548 and silt sample S.44549, taken from the base of Walker Creek, yielded values of 1900 ppb and 30 ppb Au respectively. Pan sample H.44544 and silt sample S.44545 taken from Suicide Creek, a tributary leading into Walker Creek from the east, produced values of 210 ppb and 2 ppb Au respectively. Further up the creek pan sample H.44540 and silt sample S.44541 produced values of 500 ppb and 1 ppb Au.

The results of the rock sampling indicates that there are localized areas of Cu mineralization but that these do not seem to be continuous. However, the results of the stream sediment sampling seems to point to the premise that the Au is originating at the headwaters of Walker Creek. More specifically, the Au mineralization may occur in a unit located near the northern

boundary of the claim group, or that it is originating north or northeast of the claim group.

6.0 CONCLUSIONS

The geology of the Peg & Bo group consists of metasediments, metapelites and amphibolites of the Leech River Formation which have been subsequently intruded by a large quartz diorite sill, and by small pegmatite dykes and sills.

Quartz veins, quartz stringers, and quartz sweats occur throughout the metasedimentary rocks. Sulfide mineralization within the quartz veins is a rare occurrence although they generally exhibit limonitic or hematitic staining. They also contain minor amounts of alteration products such as chlorite and sericite.

A few hydrothermal alteration zones were noted on the property and generally consisted of a narrow quartz rich vein enclosed in an argillic envelope.

A continuous rock chip sample taken across a small sulfide zone in amphibolite produced 0.67% Cu and 15 ppb Au (R.59346) over 0.20 metres. Another sample of a rusty seep zone in amphibolite, 0.10 metres in width, produced 0.28% Cu and 11 ppb Au (R.59350). These zones did not appear to be continuous over an observable strike length.

Other rock and soil samples taken on the claim group failed to produce Au or Cu values significantly above background. Samples taken in the vicinity of the BS Zone produced Au values only slightly elevated above background levels.

Pan concentrate samples taken from Walker Creek returned anomalous Au values. Pan samples H.44548, taken at the base of Walker Creek, yielded 1900 ppb Au, and H.44540 taken from a tributary leading into Walker Creek from the north, produced a value of 500 ppb Au. A possible source of the Au mineralization may be a unit located north or northeast of the claim group at the headwaters of Walker Creek.

7.0 REFERENCES

- Fairchild, L.H. (1979): The Leech River Unit and Leech River Fault, Southern Vancouver, Island, B.C., University of Washington, M.Sc. Thesis.
- Grove, E.W. (1984) : Geological Report and Work Proposal on the Valentine Mountain Property for Beau-Pre Explorations Ltd., N.T.S. 92B/12W, Victoria Mining Division.
- Muller, J.E. (1975) : Victoria Map Area, British Columbia, G.S.C., in Report of Activities, Paper 75-1, Part A, p.21-26.
- Peatfield, G.R. (1987): Geology and Geochemistry on the Valentine Mountain Property, Victoria Mining Division, N.T.S. 92B/5W, 12W, Assessment Report.
- Wingert, G.A. (1984) : Structure and Metamorphism of the Valentine Mountain Area, Southwestern Vancouver Island, British Columbia, the University of British Columbia, B.Sc. Thesis.

APPENDIX I
ANALYTICAL METHOD DESCRIPTIONS FOR
GEOCHEMICAL ASSESSMENT REPORTS

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applied to analyses geological materials by the Noranda Geochemical Laboratory at Vancouver.

Preparation of Samples:

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for geochemical analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples * from constant volume), are analysed in its entirety, when it is to be determined for gold without further sample preparation.

Analysis of Samples:

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.4 g and chemical quantities are doubled relative to the above noted method for digestion.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn can be determined directly from the digest (dissolution) with a conventional atomic absorption spectrometric procedure. A Varian-Techtron, Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method:

Antimony - Sb: 0.2 g sample is attacked with 3.3 ml of 6% tartaric acid, 1.5 ml conc. hydrochloric acid and 0.5 ml of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the dissolution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.3 g sample is digested with 1.5 ml of perchloric 70% and 0.5 ml of conc. nitric acid. A Varian AA-475 equipped with an As-EDL is used to measure arsenic content in the digest.

Barium - Ba: 0.1 g sample digested overnight with conc. perchloric, nitric and hydrofluoric acid; Potassium chloride added to prevent ionization. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest with an AA-475 complete with EDL.

Gold - Au: 10.0 g sample is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with MLBK from the aqueous solution. AA is used to determine Au.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with the use of a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot from a perchloric-nitric decomposition, usually from the multi-element digestion, is buffered. The aqueous solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

N.B.: If additional elemental determinations are required on panned samples, state this at the time of sample submission. Requests after gold determinations would be futile.

LOWEST VALUES REPORTED IN PPM:

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

EJvL/ie



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

GEOCHEMICAL LABORATORY METHODOLOGY & PRICES - 1989

Sample Preparation

S80	Soils or silts up to 2 lbs drying at 60 deg.C and sieving 30 gms -80 mesh (other size on request)	\$.85
SJ	Saving part or all reject	.45
S20R	Soils or silts - drying at 60 deg.C and sieving -20 mesh & pulverizing (other mesh size on request.)	2.00
SP	Soils or silts - drying at 60 deg.C pulverizing (approx . 100 gms)	1.50
RP100	Rocks or cores - crushing to -3/16" up to 10 lbs, then pulverizing 1/2 lb to -100 mesh (98%)	3.00
Cr	Surcharge crushing over 10 lbs	.25/lb
2PX	Surcharge for pulverizing over 1/2 lb	1.00/lb
RPS100	Same as RP100 except sieving to -100 mesh and saving +100 mesh (200gms)	3.75
RPS100 1/2	Same as above except pulverizing 1/2 the reject - additional	1.00/lb
RPS100 A	Same as above except pulverizing all the reject - additional	1.00/lb
OP	Compositing pulps - each pulp Mixing & pulverizing composite.	.50 1.50
HM	Heavy mineral separation - S.G.2.96 + wash -20 mesh	12.00
V1	Drying vegetation and pulverizing 50 gms to -80 mesh	3.00
V2	Ashing up to 1 lb wet vegetation at 475 deg.C	2.00
H1	Special Handling	17.00/hr

Sample Storage

Rejects - Approx. 2 lbs of rock or total core are stored for three months and discarded unless claimed.

Pulps are retained for one year and discarded unless claimed.

Additional storage - for 3 years \$10.00/1.2 cu.ft. box
or 15 cents/sample pulp
or 5 cents/sample soil

Supplies

Soil Envelopes	4" x 6"	\$125.00/thousand
Soil Envelopes	4" x 6" with gusset	\$140.00/thousand Plastic
Bags	7" x 13" 4 ml	\$10.00/hundred
Plastic Bags	12" x 20" 6 ml	\$20.00/hundred
Ties		\$2.00/hundred
Assay Tags		N/C
10% HCl		\$5.00/liter
Dropping bottles		\$1.00/each
Zn Test	A & B	\$12.00/each liter

Conversion Factors

1 Troy oz = 31.10 g
 1 oz/ton = 34.3 ppm = 34.3 g/tonne = 34,300 ppb
 1 % = 10,000 ppm



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

GEOCHEMICAL ANALYSES - Rocks and Soils

Group 1 Digestion

.50 gram sample is digested with 3 mls 3-1-2 HCl-HNO3-H2O at 95 deg.C for one hour and is diluted to 10 ml with water. This leach is near total for base metals, partial for rock forming elements and very slight for refractory elements. Solubility limits Ag, Pb, Sb, Bi, W for high grade samples.

Group 1A - Analysis by Atomic Absorption.

Element	Detection	Element	Detection	Element	Detection
Antimony*	2 ppm	Copper	1 ppm	Molybdenum	1 ppm
Bismuth*	2 ppm	Iron	0.01 %	Nickel	1 ppm
Cadmium*	0.1 ppm	Lead	2 ppm	Silver	0.1 ppm
Chromium	1 ppm	Lithium	2 ppm	Vanadium	2 ppm
Cobalt	1 ppm	Manganese	5 ppm	Zinc	2 ppm

First Element \$2.25 Subsequent Element \$1.00

Group 1B - Hydride generation of volatile elements and analysis by ICP.
This technique is unsuitable for sample grading over .5% Ni or Cu.
Cu Massive Sulphide.

Element	Detection	Price
Arsenic	0.1 ppm	First Element \$4.75 All Elements \$5.50
Antimony	0.1 ppm	
Bismuth	0.1 ppm	
Germanium	0.1 ppm	
Selenium	0.1 ppm	
Tellurium	0.1 ppm	

Group 1C - Hg Detection limit - 5 ppb Price \$2.50

Hg in the solutions are determined by cold vapour AA using a F & J scientific Hg assembly. The aliquots of the extract are added to a stannous chloride/hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

Group 1D - ICP Analysis

Element	Detection	Price
Ag	0.1 ppm	Any 2 elements \$3.25 5 elements 4.50 10 elements 5.50 All 30 elements 6.25
Cd, Co, Cr, Cu, Mn, Mo, Ni, Sr, Zn	1 ppm	
As, Au, B, Ba, Bi, La, Pb, Sb, Th, V, W	2 ppm	
U	5 ppm	
Al, Ca, Fe, K, Mg, Na, P, Ti	0.01 %	

Group 1E - Analysis by ICP/MS

Element	Detection	Price
Ga, Ge	1 ppm	All Elements 15.00 (minimum 20 samples per batch or \$15.00 surcharge)
Au, Bi, Cd, Hg, In, Ir, Os, Re, Rh, Sb, Te, Th, Tl, U	0.1 ppm	

Hydro Geochemical Analysis

Natural water for mineral exploration

26 element ICP - Mo, Cu, Pb, Zn, Ag, Co, Ni, Mn, Fe, As, Sr, Cd, V, Ca, P, Li, Cr, Mg, Ti, B, Al, Na, K, Ce, Be, Si \$8.00

F by Specific Ion Electrode	- detection	20 ppb	\$3.75
U by UA3	- detection	.01 ppb	5.00
pH	-	.1 pH	1.50
Au	- detection	.001 ppb	4.00

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS. All prices are in Canadian Dollars

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

Group 2 - Geochemical Analysis by Specific Extraction and Instrumental Techniques

Element	Method	Detection	Price
Barium	0.100 gram samples are fused with .6 gm LiBO2 dissolved in 50 mls 5% HNO3 and analysed by ICP. (other whole rock elements are also determined)	10 ppm	\$4.00
Boron	.5 g/Na2O2 fusion - 50ml in 20% HCl	2 ppm	4.00
Carbon	LECO (total as C or CO2)	.01 %	5.75
Carbon+Sulfur	Both by LECO	.01 %	6.50
Carbon (Graphite)	HCl leach before LECO	.01 %	8.00
Chromium	0.50 gram samples are fused with 1 gm Na2O2 dissolved in 50 ml 20% HCl, analysed ICP.	5 ppm	4.00
Fluorine	0.25 gram samples are fused with NaOH; leached solution is adjusted for pH and analysed by specific ion electrode.	10 ppm	4.50
Sulphur	LECO (Total as S)	.01 %	5.50
Sulphur insoluble	LECO (After 5% HCl leach)	.01 %	8.00
Tin	1.00 gram samples are fused with NH4I. The sublimed Iodine is leached with 5 ml 10% HCl, and analysed by Atomic Absorption.	1 ppm	4.00
Tl	.50 gram digested with 50% HNO3 - Dilute to 10 ml - graphite AA	.1 ppm	4.00
Tungsten	.50 gram samples are fused with Na2O2 dissolved in 20 ml H2O, analysed by ICP.	1 ppm	4.00

Group 3 - Geochemical Noble Metals

Element	Method	Detection	Price
Au*	10.0 gram samples are ignited at 600 deg.C, digested with hot aqua regia, extracted by MIBK, analysed by graphite furnace AA.	1 ppb	\$ 4.50
Au** Pd,Pt,Rh	10.0 gram samples are fused with a Ag inquart with fire assay fluxes. After cupulation, the dore bead is dissolved and analysed by AA or ICP/MS.	1 ppb 2 ppb	6.00 - first element 2.50 - per additional 10.00 - for All 4
	Larger samples - 20 gms add \$1.50 30 gms add \$2.50		

Group 4A - Geochemical Whole Rock Assay

0.200 gram samples are fused with LiBO2 and are dissolved in 100 mls 5% HNO3. SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O5, LOI + Ba by ICP.

Price: \$3.75 first metal \$1.00 each additional \$9.00 for All.

Group 4B - Trace elements

Element	Detection	Analysis	Price
Co, Cu, Ni, Zn, Sr	10 ppm	ICP	\$3.75 first element or
Ce, Nb, Ta, Y, Zr	20 ppm	ICP	\$1.00 additional to 4A
			\$6.00 for All.

Group 4C - analysis by ICP/MS.

Be, Rb, Y, Zr, Nb, Sn, Cs, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, W, Th, U

Detection: 1 to 5 ppm Price : \$20.00 for All.

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS. All prices are in Canadian Dollars

APPENDIX II
ROCK SAMPLE DESCRIPTIONS

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 120

N.T.S. 92B/12&C/9

LAB REPORT # _____

DATE May, 1989

PROJECT BEAU PRE VALENTINE (PEG & BO GROUP)

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)	Cu	Pb	Zn	Ag	As	Au		SAMPLED BY
					ppm	ppm	ppm	ppm	ppm	ppb		
R59187	Po & Cpy in amphibolite.				3996	11	22	1.8	5	1		K & J Lovang
R59188	Cpy in somewhat silicified amphibolite.				3510	5	27	4.6	7	3		K & J Lovang
R59189	Heavy Po & slight Cpy in amphibolite.				1038	18	19	0.8	2	6		K & J Lovang
R59190	Nice pyrite in quartz.				72	2	5	1.9	170	15		K & J Lovang
R59191	Silicified zone possibly dyke. Some pyrite.				31	11	36	0.4	61	1		K & J Lovang
R59192	Po & Cpy in amphibolite. Some rhodochrosite.				4365	11	30	2.3	2	118		K & J Lovang
R59193	Po, Py & Cpy in amphibolite. Some rhodochrosite.				1916	4	15	1.2	2	38		K & J Lovang
R59194	Po in silicified rock.				611	12	13	0.3	2	9		K & J Lovang
R59195	Cpy & Po in silicified rock.				686	8	17	0.6	2	1		K & J Lovang
R59196	Py in quartz stringer.				177	8	42	0.2	2	1		K & J Lovang
R59197	Py & Po in amphibolite.				513	13	42	0.9	2	3		K & J Lovang
R59198	Heavy Po in amphibolite.				2483	2	38	1.3	2	21		K & J Lovang
R59199	Some Py & Cpy in amphibolite. Some rhodochrosite.				2756	7	23	1.3	2	1		K & J Lovang

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 120

N.T.S. 92B/12

LAB REPORT # _____

DATE June/89

PROJECT BEAU PRE VALENTINE (PEG & BO GROUP)

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)	Cu	Pb	Zn	Ag	As	Au	SAMPLED BY
					ppm	ppm	ppm	ppm	ppm	ppb	
R59333	Strathallan Cr; Discontinuous qtz veining parallel to Schist/ Amph contact. Sugar qtz with some limonite <5%.	-	Chip	1.0	13	2	10	0.1	3	9	McIntyre
R59334	Strathallan Creek; Limonitic Qtz vein, with a trace of muscovite, host Amphibolite 1.0m x 0.30m.	-	Chip	0.30	30	3	26	0.1	13	4	McIntyre
R59335	Lochaber Creek; White, sugar texture, Bull qtz vein, with a trace of Bornite? occurring in Amphibolite.	Tr	Chip	1.0	6	2	6	0.1	2	6	McIntyre
R59336	WA6A; Shear zone 1 1/2m wide 5% limonite, 1% bornite.	1	Chip	1.0	106	8	62	0.2	2	6	McIntyre
R59337	Lomond Creek; 8% Qtz, 5% Limonite + Clays, alteration/ shear zone.	-	Chip	0.43	40	6	63	0.1	6	5	McIntyre
R59338	Strathallan Cr; Qtz vein, 5cm swells to 15cm, TrPy, + limonite 1.0 x 0.05.	Tr	Chip	0.05	10	2	2	0.2	2	2	McIntyre
R59339	Strathallan Cr; Qtz stringer Sugar Qtz with tr limonite.	-	Chip	0.03	184	2	11	0.1	2	6	McIntyre
R59340	Strathallan Cr; Qtz vein, Tr limonite <1% Py (Tr AsPy?).	<1	Chip	0.28	8	3	26	0.1	3	3	McIntyre
R59341	WA6A; Hydrothermal Alteration Zone 5-10% Kaolinite, 5% lim,	-	Chip	3.2	15	9	82	0.1	2	6	McIntyre

NORANDA EXPLORATION COMPANY, LIMITED

PROJECT # 120

N.T.S. 92B/12

LAB REPORT # _____

DATE June/89

PROJECT BEAU PRE VALENTINE (PEG & BO GROUP)

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% Sulph.	TYPE	WIDTH (m)	Cu	Pb	Zn	Ag	As	Au	SAMPLED BY
					ppm	ppm	ppm	ppm	ppm	ppm	
R59349	Lomond Cr Upper Rd; Rusty Seep Zone, limonitic with vuggy Qtz + a Tr of Po + Mn.	Tr	Chip	0.25	589	6	50	0.3	2	5	McIntyre
R59350	Waterfall Sightseeing Rd. Rusty Seep Zone, 1-2% Po minor Qtz, limonitic + clays. Width 0.10m	2	Chip	0.30	2813	2	38	0.4	2	11	McIntyre
R59351	WA6J. Qtz vein composed of whitebull Qtz + vitreous Qtz & limonite 1.0m x 0.15m.	-	Chip	0.15	49	4	63	0.2	2	7	McIntyre
R59352	WA6J. Shear Zone within Bio, Gar Schist. Limonitic gouge material.	-	Chip	0.12	109	9	112	0.2	6	2	McIntyre
R50631	Peg & Bo, Walker Creek. Siliceous clastic lense within Amphibolite. Tr Py + <1% mm pyritic Qtz veining. Wall rock is strongly limonitic and Qtz is grey.	<1	Chip	0.50	153	4	82	0.4	4	6	Singh
R50632	Peg & Bo, Suicide Creek. Qtz vein 3-4cm wide. Pure bull Qtz very slightly hematitic.	-	Chip	0.25	21	2	31	0.1	5	7	Singh
R50633	Peg & Bo, Trav 1 750N 0+33E. Brecciated Amphibolite with clasts of Sugar Qtz. Up to 1% bornite in veins and fracture fillings. Strongly chloritic. Tr Py.	1	Panel Chip	0.25 x 0.50	77	4	31	0.2	2	19	Singh

APPENDIX III
ANALYSIS CERTIFICATES

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: BEAUPRE-VALENTINE

CODE : 8905-013

Project No. : 120 Sheet: 1 of 2 Date rec'd: MAY. 09
 Material : 4 PANS, Geol.: R.W. Date compl: MAY. 16
 Remarks : 50 SOILS & 3 SILTS.

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	wt. (g)	PPB Au	Cu	Zn	Pb	Ag
5	H 80427	47.1	10	24	81	2	0.3
6	H 80429	71.1	520	34	114	4	0.2
7	H 80431	93.3	10	28	111	4	0.4
8	H 80432	61.4	10	27	97	2	0.2

N.B. Pan-con: entire sample used for Au determination.
 *Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

T. T. No.	SAMPLE No.	PPB Au
52	59601 SOIL	5
53	59602	5
54	59603	5
55	59604	5
56	59605	5
57	59606	5
58	59607	5
59	59608	5
60	59609	5
61	59610	5
62	59611	5
63	59612	5
64	59613	5
65	59614	5
66	59615	5
67	59616	5
68	44577	5
69	44578	5
70	44579	5
71	44580	5
72	44581	5
73	44582	5
74	44583	5
75	44584	5
76	44585	5
77	44586	5
78	80398	5
79	80399	5
80	80400	5
81	55594	5
82	55595	5
83	55596	5
84	55593	80
85	55594	55
86	55596 SOIL	5

23 May 71 Mr RK RW AD

T. T.
No.

SAMPLE
No.

PPB
Au

8905-013
Pg. 2 of 2

87	55597 SOIL	160
88	55599	30
89	55600	5
90	59618	5
91	59619	5
92	59620	5
93	59621	5
94	59622	5
95	59623	5
96	59624	5
97	59625	5
98	59600	5
99	59498	5
100	59499	5
1	55125 SOIL	5
2	80426 SILT	5
3	80428 SILT	5
4	80430 SILT	5

Valentic Key (Bo) (TMe)

8906-097

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604)253-3158 FAX (604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SA CA P LA CR MG BA TI B V AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1 SOIL P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLES.

DATE RECEIVED: JUN 26 1989 DATE REPORT MAILED: July 5/89 SIGNED BY: C. Long D. TOTE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-097 120 File # 89-1731 Page 1

Table with columns: SAMPLE#, NO, CU, PD, Zn, Ag, NI, Co, Mn, Fe, AS, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, TI, B, Al, Na, K, W, Au*. Rows list sample numbers and their corresponding element concentrations in PPM.

8906-097

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
RI58347	1	51	4	48	.1	52	17	661	3.30	38	5	ND	1	3	1	9	2	18	.04	.031	6	31	.15	20	.01	3	1.04	.01	.17	1	4
RI58423	1	31	5	45	.6	32	8	558	4.42	79	5	ND	1	43	1	14	3	15	1.46	.015	4	17	.42	14	.01	7	.33	.01	.15	1	14

Valente Reg & Iso (JMc)

8906-067

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B V AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 19 1989 DATE REPORT MAILED: June 22/89 SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-067 120 File # 89-1590

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	V	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
R 50631	1	153	4	82	.4	38	25	1479	7.53	4	5	ND	1	231	1	2	2	51	7.59	.037	3	23	2.42	24	.01	2	.51	.01	.18	1	6
R 50632	4	21	2	31	.1	11	1	30	.30	5	5	ND	1	2	1	2	2	1	.08	.013	2	9	.02	3	.01	23	.05	.01	.01	2	7
R 50633	1	77	4	31	.2	46	11	191	2.26	2	5	ND	1	25	1	2	2	59	.50	.062	2	34	1.00	26	.18	12	1.61	.07	.04	1	19
R 59333	3	13	2	10	.1	13	3	44	.39	3	5	ND	1	2	1	2	2	4	.01	.001	2	11	.06	2	.01	13	.11	.01	.01	2	9
R 59334	3	30	3	26	.1	37	13	615	.75	13	5	ND	1	3	1	2	2	12	.25	.073	6	13	.20	22	.03	17	.39	.02	.07	1	4
R 59335	3	6	2	6	.1	11	1	45	.39	2	5	ND	1	2	1	2	2	3	.10	.036	2	11	.06	1	.01	17	.12	.01	.01	1	6
R 59336	1	106	8	62	.2	117	29	2314	6.03	2	5	ND	1	17	1	2	2	116	.51	.048	2	157	2.26	134	.10	2	3.76	.02	.15	1	6
R 59337	1	40	6	63	.1	51	15	438	3.36	6	5	ND	1	77	1	2	2	87	1.33	.110	8	68	1.17	289	.18	4	3.72	.10	.68	1	5
R 59338	3	10	2	2	.2	10	1	57	.33	2	5	ND	1	1	1	2	2	2	.06	.013	2	10	.03	2	.01	17	.08	.01	.01	2	2
R 59339	2	184	2	11	.1	41	8	160	1.11	2	5	ND	1	137	1	2	2	23	1.76	.038	2	25	.21	26	.09	6	1.95	.10	.02	1	6
R 59340	2	8	3	26	.1	30	9	232	1.87	3	5	ND	1	59	1	2	2	64	1.29	.048	2	65	.74	11	.10	9	1.53	.05	.10	1	3
R 59341	1	15	9	82	.1	9	3	239	1.66	2	5	ND	4	3	1	2	2	9	.04	.022	18	10	.10	28	.01	2	1.01	.02	.14	1	6
R 59342	1	6	9	83	.1	2	1	158	1.13	2	5	ND	4	2	1	2	2	2	.01	.006	13	2	.02	16	.01	3	.43	.03	.10	2	7
R 59343	1	15	9	75	.1	9	4	255	1.68	2	5	ND	3	5	1	2	2	16	.03	.010	9	10	.23	73	.05	3	2.17	.03	.27	2	6
R 59344	1	5	9	57	.1	4	1	73	.69	2	5	ND	1	3	1	2	2	1	.02	.002	6	4	.02	10	.01	2	.30	.03	.07	4	8
R 59345	1	50	22	91	.2	62	21	748	4.46	5	5	ND	5	4	1	2	2	81	.06	.045	14	100	1.55	44	.01	2	2.95	.02	.13	1	3
R 59346	1	6797	5	52	1.4	59	21	2275	6.73	2	5	ND	1	72	1	2	4	94	2.45	.344	4	49	.70	24	.08	3	2.30	.12	.05	1	15
R 59347	5	137	15	95	.1	58	31	2614	5.57	4	5	ND	4	15	1	2	2	112	.22	.074	17	76	1.24	235	.18	2	4.01	.02	.56	1	7
R 59348	1	306	6	67	.4	80	15	3194	5.81	2	5	ND	1	27	1	2	2	121	.92	.182	3	108	1.67	51	.11	2	2.96	.04	.02	1	6
R 59349	8	589	6	50	.3	98	19	6639	6.94	2	5	ND	1	92	1	2	2	132	2.20	.346	12	11	.19	107	.06	2	1.58	.05	.13	1	5
R 59350	1	2813	2	38	.4	34	13	307	5.29	2	5	ND	1	75	1	2	3	112	2.00	.076	2	21	.36	21	.25	2	1.93	.15	.04	1	11
R 59351	2	49	4	63	.2	32	9	382	3.14	2	5	ND	2	3	1	2	2	86	.08	.024	5	57	.94	271	.17	10	1.94	.03	.94	1	7
R 59352	1	109	9	112	.2	91	23	198	4.87	6	5	ND	3	28	1	3	2	151	.56	.107	13	151	2.20	267	.18	2	6.41	.06	.86	1	2
STD C/AU-R	17	59	40	132	6.7	68	30	956	4.14	43	18	7	37	50	18	15	21	59	.48	.090	39	52	.81	179	.07	37	1.95	.06	.13	12	520

8906-067

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 1-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLER TYPE: Soil -80 Mesh AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 26 1989 DATE REPORT MAILED: *June 27/89* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-067 120 File # 89-1727

SAMPLE#	NO	CU	PD	Zn	AG	NI	CO	MC	FE	AS	U	AU	TH	SR	CD	SD	BI	V	CA	P	LA	CR	Mg	EA	TI	B	AL	NA	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	PPM	PPM	
P50634	1	5	11	12	.1	3	1	97	1.22	2	5	ND	2	3	1	2	2	64	.06	.009	7	13	.12	3	.21	2	.68	.01	.02	1	1
P50635	1	20	10	37	.2	18	5	162	4.00	2	5	ND	3	3	1	2	2	71	.11	.056	7	73	.49	40	.15	2	4.15	.01	.12	1	1
P50636	1	18	14	24	.1	11	3	109	4.55	2	5	ND	2	2	1	2	2	115	.08	.055	5	59	.27	17	.22	2	2.56	.01	.05	1	1
P50637	1	25	12	34	.4	16	5	170	5.50	2	5	ND	3	3	1	2	2	106	.11	.051	5	77	.39	25	.21	4	3.50	.01	.07	1	1
P50638	1	12	8	20	.2	5	3	104	3.55	2	5	ND	2	2	1	2	2	110	.06	.042	5	36	.21	12	.21	4	1.50	.01	.03	1	1
P50639	1	22	9	25	.1	10	3	82	3.30	2	5	ND	1	4	1	2	2	74	.15	.051	3	73	.20	11	.19	3	3.85	.01	.02	1	1
P50640	1	13	3	26	.1	12	4	137	1.95	2	5	ND	1	3	1	2	2	55	.12	.024	4	34	.30	20	.12	2	1.06	.01	.04	1	2
P50641	1	34	9	50	.1	13	6	181	4.38	4	5	ND	1	4	1	2	2	115	.09	.034	4	65	.57	53	.23	2	3.01	.01	.13	1	1
P50642	1	59	8	58	.5	27	7	172	4.79	5	5	ND	3	8	1	2	2	107	.10	.042	6	72	.61	48	.24	7	3.41	.01	.11	1	129
P50643	1	13	3	19	.1	70	7	30	2.59	2	5	ND	1	1	1	2	2	66	.09	.027	2	127	.83	2	.12	6	1.02	.01	.01	1	10
P50644	1	17	7	27	.1	12	4	105	2.51	2	5	ND	1	5	1	2	2	98	.20	.025	3	36	.38	25	.22	3	1.36	.01	.05	1	3
P50645	1	2	3	7	.1	1	1	53	.71	2	5	ND	2	2	1	2	2	45	.04	.005	10	7	.06	4	.11	2	.25	.01	.01	1	2
P50646	1	11	9	20	.1	9	3	86	3.48	2	5	ND	1	3	1	2	2	77	.08	.039	5	41	.20	14	.18	2	2.52	.01	.03	1	1
P50647	1	18	10	24	.1	13	4	102	3.23	3	5	ND	1	2	1	2	2	78	.07	.047	6	41	.30	27	.16	2	2.47	.01	.07	2	2
P50648	1	39	7	50	.3	22	6	137	3.98	4	5	ND	2	4	1	2	2	88	.08	.084	5	69	.60	60	.17	6	4.21	.01	.16	1	2
P50649	1	27	11	40	.5	14	4	99	5.60	6	6	ND	3	3	1	4	3	115	.07	.111	4	87	.32	23	.21	5	4.26	.01	.06	1	3
P50650	1	16	12	28	.2	12	4	261	4.23	2	5	ND	2	3	1	2	2	104	.08	.081	5	49	.31	25	.22	4	2.38	.01	.06	1	1
P58326	1	33	8	30	.1	21	6	202	2.34	2	5	ND	1	5	1	2	2	58	.14	.039	6	42	.49	63	.12	4	2.23	.01	.15	2	3
STD C/AU-5	17	59	40	132	6.5	68	30	1034	4.16	41	18	7	37	48	18	18	58	.50	.082	37	52	.88	176	.07	34	1.94	.06	.13	11	48	

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 1-1-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SILT AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 19 1989 DATE REPORT MAILED: June 22/89 SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8906-065 120 File # 89-1587

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
44527	1	25	5	31	.1	22	7	212	2.02	2	5	ND	1	8	1	2	2	50	.15	.032	4	39	.50	74	.10	2	1.80	.01	.18	1	1
44529	1	16	8	34	.1	16	22	1286	2.09	2	5	ND	1	10	1	2	3	54	.17	.028	4	32	.39	52	.09	3	1.29	.01	.11	1	1
44531	1	44	4	64	.1	38	13	424	2.51	2	5	ND	1	9	1	2	2	62	.22	.053	6	57	.81	151	.12	2	2.10	.01	.36	1	1
44533	1	23	7	34	.1	18	6	156	1.80	2	5	ND	1	4	1	2	2	50	.11	.031	6	48	.34	41	.09	2	2.85	.01	.08	1	1
44535	1	26	2	30	.1	22	6	201	1.67	2	5	ND	1	6	1	2	2	42	.14	.027	4	36	.49	76	.09	2	1.38	.01	.19	2	8
44539	1	38	3	46	.1	31	9	221	2.16	2	5	ND	1	9	1	2	2	55	.19	.043	5	42	.71	128	.11	2	1.94	.01	.31	1	2
44541	1	39	3	37	.1	27	11	284	2.20	3	5	ND	2	7	1	2	2	51	.17	.036	5	43	.66	106	.11	2	1.82	.01	.29	1	1
44543	1	59	6	60	.2	45	13	309	2.54	2	5	ND	2	8	1	2	2	64	.18	.038	6	57	.92	158	.13	2	2.12	.01	.39	1	2
44545	1	66	6	70	.1	47	14	331	3.19	3	5	ND	3	7	1	2	2	77	.14	.052	8	61	1.01	144	.13	2	2.67	.01	.41	1	2
44547	1	28	3	34	.1	23	8	275	1.72	2	5	ND	1	6	1	2	2	41	.16	.036	6	34	.48	81	.09	2	1.48	.01	.20	2	1
44549	1	20	2	23	.1	17	6	161	1.59	2	5	ND	2	4	1	2	2	38	.17	.031	6	31	.47	72	.09	2	1.07	.01	.21	5	30

8906-065

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: VALENTINE

CODE : 8906-065

Project No. : 120 Sheet: 1 of 1 Date rec'd: JUN 19
 Material : 13 PANS Geol.: J.M. Date compl: JUL 12
 Remarks :

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	Wt (g)	PPB Au	Cu	Zn	Pb	Ag
1	44526	36.9	10	18	18	1	0.1
2	44528	21.9	10	10	12	1	0.1
3	44530	26.0	40	20	18	1	0.1
4	44532	21.6	30	8	12	1	0.1
5	44534	22.8	100	12	10	1	0.1
6	44536	15.3	10	8	36	1	0.1
7	44537	33.7	10	10	14	1	0.1
8	44538	30.4	50	18	12	2	0.1
9	44540	14.9	500	12	12	1	0.2
10	44542	17.5	10	18	14	2	0.1
11	44544	18.5	210	18	16	1	0.1
12	44546	17.7	180	10	12	1	0.2
13	44548	17.9	1900	10	12	1	0.2

N. B. Pan-con: entire sample used for Au determination.

*Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Tl %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
55589	1	11	12	31	.1	7	1	88	.78	2	5	ND	1	5	1	2	2	20	.06	.021	2	31	.26	38	.02	8	.46	.02	.22	1	2
55590	2	5	10	18	.3	5	1	65	.55	5	5	ND	3	5	1	4	2	13	.03	.004	2	9	.15	55	.03	8	.35	.02	.14	2	1
55591	1	7	4	7	.1	7	1	34	.43	2	5	ND	1	1	1	2	3	6	.01	.001	2	34	.04	21	.02	6	.11	.01	.05	1	1
55592	2	38	5	73	.1	16	10	632	2.97	2	5	ND	2	11	1	2	2	75	.17	.057	6	35	1.00	326	.20	2	1.68	.05	1.09	1	1
55595	1	20	15	57	.3	10	5	256	2.73	53	5	ND	4	12	1	2	2	54	.09	.037	7	35	.94	141	.14	9	1.42	.04	.78	2	2
55598	1	7	20	31	.2	10	6	276	2.02	4913	5	ND	4	12	1	3	2	47	.14	.043	6	24	.64	155	.12	2	.94	.03	.55	2	1480
59187	1	3996	11	22	1.9	136	38	5804	6.24	5	5	ND	2	10	1	2	4	41	1.50	.296	6	32	.21	4	.07	2	.68	.01	.01	1	1
59188	1	3510	5	27	4.6	25	14	279	4.92	7	5	ND	1	65	1	2	2	104	1.22	.067	2	12	.24	13	.13	2	1.04	.09	.05	2	3
59189	2	1038	18	19	.8	347	100	2358	12.46	2	5	ND	2	26	1	2	12	49	1.90	.368	13	13	.15	6	.02	5	.89	.02	.01	1	6
59190	1	72	2	5	1.9	13	5	55	3.73	170	5	ND	1	2	1	46	4	14	.09	.039	2	26	.02	27	.01	8	.26	.01	.19	1	15
59191	1	31	11	36	.4	37	17	1686	6.23	61	5	ND	4	300	1	16	2	19	11.64	.013	3	16	2.94	11	.01	4	.17	.01	.12	1	1
59192	4	4365	11	30	2.3	202	40	1675	4.17	2	5	ND	1	96	1	2	5	45	2.48	.304	3	17	.32	5	.09	2	2.07	.07	.01	1	118
59193	4	1916	4	15	1.2	130	28	5378	4.59	2	5	ND	3	68	1	4	5	56	3.11	.520	5	26	.32	3	.06	7	1.39	.03	.01	2	36
59194	1	611	12	13	.3	52	23	197	2.45	2	5	ND	1	494	1	2	2	17	4.09	.087	2	12	.11	18	.16	5	5.10	.22	.01	24	9
59195	1	686	8	17	.6	38	22	257	3.08	2	5	ND	2	376	1	2	2	22	2.05	.083	2	19	.27	37	.16	12	3.96	.13	.01	8	1
59196	1	177	8	42	.2	31	18	280	3.24	2	5	ND	1	16	1	3	3	45	1.05	.061	2	78	.64	15	.20	10	1.31	.09	.35	1	1
59197	2	513	13	42	.9	106	114	647	10.33	2	5	ND	2	4	1	3	2	53	1.05	.014	2	31	.34	19	.06	2	1.16	.09	.09	1	3
59198	1	2483	2	38	1.3	183	94	455	10.92	2	5	ND	1	13	1	2	4	74	1.13	.041	2	45	.35	21	.09	2	1.19	.09	.12	1	21
59199	4	2756	7	23	1.3	96	16	4679	4.09	2	5	ND	1	91	1	2	3	92	3.53	.705	7	20	.26	8	.02	2	2.17	.07	.01	2	1
59200	2	3513	16	15	3.5	178	38	11102	4.86	2	5	ND	1	20	1	2	15	96	2.15	.439	15	4	.08	1	.01	2	1.24	.01	.01	2	36
58651	3	1893	7	19	1.3	105	22	1718	3.73	4	5	ND	1	64	1	2	16	30	1.91	.186	3	23	.24	5	.07	8	1.36	.05	.01	2	5
58652	1	4817	10	34	1.9	525	106	3803	15.05	2	5	ND	1	35	1	2	2	32	2.00	.600	8	10	.09	4	.03	2	.49	.01	.01	1	29
58751	1	49	3	42	.1	12	13	330	3.65	12427	5	ND	1	98	1	2	2	44	.74	.027	2	25	1.06	206	.12	4	2.65	.15	.58	1	15
58752	2	53	12	40	.3	13	8	420	2.24	231	5	ND	3	17	1	2	2	51	.20	.039	6	28	.83	188	.13	5	1.36	.06	.65	2	18
58753	1	30	3	31	.1	7	3	296	1.87	374	5	ND	3	6	1	2	2	49	.12	.030	5	47	.65	175	.13	2	.89	.04	.52	1	7
59235	2	12	6	28	.1	10	3	229	1.57	24	6	ND	2	7	1	3	2	29	.09	.028	3	19	.46	134	.08	7	.74	.04	.38	1	1
59236	1	3	2	1	.1	5	1	41	.23	7	5	ND	1	1	1	3	2	2	.01	.001	2	30	.01	3	.01	2	.03	.01	.01	1	1
59237	3	35	2	11	.2	5	2	68	1.95	3	6	ND	1	8	1	2	3	17	.06	.026	2	19	.10	11	.04	2	.29	.02	.11	11	1
59238	1	34	7	74	.1	18	8	283	3.67	82	5	ND	3	6	1	2	2	71	.09	.044	9	50	1.24	218	.11	16	2.16	.04	.84	2	1
59597	2	14	2	11	.1	9	2	101	1.28	5	5	ND	1	1	1	3	3	5	.01	.012	2	8	.03	6	.01	9	.18	.01	.01	1	1
59598	1	5	2	11	.1	4	1	47	.55	3	5	ND	2	3	1	3	4	5	.02	.006	2	36	.13	6	.01	8	.17	.01	.02	1	1
59599	3	6	2	7	.1	6	1	69	.70	6	5	ND	1	3	1	2	3	4	.01	.004	2	8	.05	10	.01	26	.09	.01	.03	1	1
STD C/AU-R	17	63	43	132	7.1	70	31	957	3.77	38	17	7	37	50	18	14	23	58	.46	.087	38	55	.84	177	.07	33	1.80	.06	.13	11	480

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
55559	1	6	7	29	.1	6	8	159	1.54	23	5	ND	2	3	1	2	2	36	.03	.010	9	14	.19	30	.07	2	1.29	.01	.07	1
55600	1	8	8	38	.1	8	8	249	2.30	114	5	ND	1	5	1	2	2	52	.06	.018	5	16	.40	44	.16	2	1.29	.01	.10	1
59618	1	42	16	108	.1	336	23	357	4.12	7	5	ND	2	14	1	2	2	67	.25	.042	6	109	.91	48	.12	2	3.14	.01	.10	1
59619	1	26	11	57	.2	46	10	283	4.14	6	5	ND	2	12	1	2	2	85	.26	.020	4	52	.82	33	.16	2	2.83	.01	.09	1
59620	1	13	8	33	.1	10	4	483	3.03	4	5	ND	3	16	1	2	2	83	.32	.031	4	25	.32	23	.11	2	1.73	.01	.12	1
59621	1	17	11	52	.3	17	6	221	3.67	10	5	ND	3	19	1	2	2	83	.35	.034	4	31	.45	32	.14	3	2.44	.01	.13	1
59622	1	58	13	128	.1	56	38	605	5.65	4	5	ND	1	16	1	2	2	76	.33	.033	6	61	1.65	71	.32	2	4.01	.01	.30	1
59623	1	29	15	135	.3	60	13	581	4.42	10	9	ND	7	9	1	2	2	50	.15	.020	7	49	1.36	53	.10	2	2.83	.01	.26	1
59624	1	28	13	67	.1	22	6	387	3.11	12	5	ND	3	8	1	3	2	68	.18	.029	5	43	.77	20	.13	2	2.50	.01	.12	1
59625	1	26	22	71	.1	23	5	389	4.39	10	6	ND	7	7	1	2	2	57	.13	.033	6	48	.80	40	.05	2	3.11	.01	.19	1
59600	1	34	15	70	.1	26	10	395	3.98	10	5	ND	2	22	1	2	2	80	.43	.087	5	45	.66	43	.10	3	3.43	.01	.11	1
59493	1	25	12	54	.1	24	8	1017	3.70	8	5	ND	6	19	1	2	2	82	.41	.049	5	42	.76	23	.10	4	2.46	.01	.16	2
59499	1	47	15	80	.1	36	13	465	4.67	6	6	ND	6	17	1	3	2	89	.36	.050	6	55	1.04	50	.11	5	4.06	.01	.20	1
55125	1	25	12	77	.2	25	7	327	5.21	10	7	ND	7	6	1	3	2	73	.08	.072	4	52	.95	26	.07	2	3.95	.01	.17	2
80426	1	31	14	105	.1	37	13	589	3.72	15	5	ND	5	30	1	2	2	52	.30	.042	11	36	.86	62	.06	4	2.47	.01	.13	1
80428	1	31	17	94	.4	33	17	793	3.64	13	5	ND	7	23	1	2	2	53	.26	.038	10	34	.92	63	.08	2	2.39	.01	.18	1
80430	1	36	17	103	.1	35	15	612	4.17	18	9	ND	8	19	1	2	2	64	.23	.051	9	38	1.05	52	.11	3	2.97	.01	.22	2
STD C	17	59	41	132	7.0	73	29	948	3.92	35	21	6	36	51	17	16	19	58	.49	.085	36	55	.89	174	.07	34	1.92	.06	.15	12

APPENDIX IV
STATEMENT OF COSTS

PEG & BO GROUP

COST STATEMENT

WAGES: April 27 - May 9, 1989

T. McI.	6 mandays	x	\$140.00	
B.S.	4 manday	x	\$112.00	
I.S.	5 manday	x	\$190.00	
D.S.	1 manday	x	\$117.00	
K.L.	13 mandays	x	\$200.00	
J.L.	12 mandays	x	\$ 75.00	

				\$5,855.00
				=====

ACCOMMODATIONS:

April 27 - May 9, 1989	(13 days @ \$ 9.96/day)	
June 11 - 21	(11 days @ \$12.33/day)	\$ 265.19
		=====

GROCERIES:

April 27 - May 9, 1989	(13 days @ \$12.51/day)	
June 11 - 21	(11 days @ \$21.61/day)	\$ 379.07
		=====

TRUCK:

April 27 - May 9, 1989	(13 days x \$39/00/day)	
June 11 - 21	(11 days x \$26.45/day)	\$ 797.95
		=====

GAS:

April 27 - May 9, 1989	(13 days @ \$ 7.11/day)	
June 11 - 21	(11 days @ \$ 8.09/day)	\$ 181.42
		=====

OFFICE SUPPLIES: \$ 9.14
=====

TRUCK/TIRE REPAIR \$ 6.62
=====

MISCELLANEOUS: \$ 22.54
=====

SHIPPING: June 11 - 21, 1989 (5 boxes @ \$6.33) \$ 31.65
=====

GEOCHEMICAL ANALYSIS: \$1,785.10
=====

REPORT WRITE-UP AND PREPARATION

Author	\$600.00	
Drafting	\$600.00	
Typing	\$200.00	\$ 1,400.00
		=====

TOTAL COSTS: \$10,754.95
=====

GEOCHEMICAL ANALYSIS

COSTS FOR THE PEG & BO GROUP

* Rocks

41 samples @ \$6.25/sample analysis for 30 elements by ICP
41 samples @ \$4.50/sample analysis for Au by AA
41 samples @ \$2.40/sample handling & preparation
41 samples @ \$3.00/sample crushing & pulverizing
41 samples @ \$1.50/sample data processing & entry

41 samples @ \$17.65 sample \$ 723.65
=====

* Soils

54 samples @ \$6.25/sample analysis for 30 element by ICP
54 samples @ \$4.50/sample analysis for Au by AA
54 samples @ \$2.40/sample handling & preparation
54 samples @ \$1.50/sample data processing & entry

54 samples @ \$14.65/sample \$ 791.10
=====

* Silts

11 samples @ \$6.25/sample analysis for 30 elements by ICP
11 samples @ \$4.50/sample analysis for Au by AA
11 samples @ \$2.00/sample handling & preparation
11 samples @ \$1.50/sample data processing & entry

11 samples @ \$14.65/sample \$ 161.15
=====

Pan Concentrate

13 samples @ \$1.60/sample analysis for Cu
13 samples @ \$1.80/sample analysis for Zn, Pb & Ag
13 samples @ \$5.00/sample analysis for Au by AA

13 samples @ \$8.40/sample \$ 109.20
=====

TOTAL COST OF ANALYSIS: \$1,785.10
=====

* Analysis by 30 element ICP: Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W.

APPENDIX V
AUTHORS QUALIFICATIONS

STATEMENT OF QUALIFICATIONS


I, Kolbjorn Lovang, of the City of Vancouver, in the Province of British Columbia, do hereby certify that:

1. I am a prospector residing at 3235 School Avenue, Vancouver, British Columbia, V5R 5N4.
2. I am a graduate (1954) of the Prospector's and Developers Association prospecting course.
3. I have been a prospector and geophysical operator since 1955 with the following companies:

1955-57: Asarco - Highland Valley, B.C., Prospecting, Mag, E.M.
1957-62: Hans Lundbertg Geophysics - B.C.; E.M. and Mag.
1963-69: Plateau Metals - B.C.; Prospecting
1970-73: El Paso Mining - B.C.; Prospecting
1974-75: Domage Campbell - Sask., Ont.; Prospecting
1976-89: Noranda Exploration - B.C., Man., N.W.T.; Prospecting.
4. I have no direct interest or indirect interest in the property which is the subject of this report.

Dated at Vancouver

this 25th day of September, 1989


Kol Lovang, Prospector

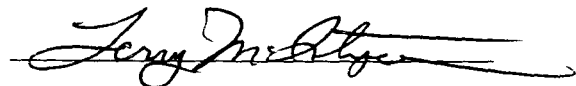
AUTHORS QUALIFICATIONS

I, Terence J. McIntyre of 894 Pacific Drive, Delta, Province of British Columbia, do hereby certify that:

- I have been employed as a Geologist for Noranda Exploration Company, Limited (no personal liability) from the spring of 1987 to the present.

- I graduated from the Montana College of Mineral Science and Technology in 1986 with a BSc degree in geological engineering.

- I have worked in mineral exploration and in mines since 1983.



Terence J. McIntyre

AUTHORS QUALIFICATIONS

I, Robert G. Wilson of the City of Vancouver, Province of British Columbia, do hereby certify that:

- I am a geologist residing at 3328 West 15th. Avenue, Vancouver B.C.
- I graduated from the University of British Columbia in 1976 with a BSc degree in Geology.
- I have worked in mineral exploration since 1973 and have practiced my profession as a geologist since 1976.
- I am presently a Project Geologist with Noranda Exploration Company, Limited (no personal liability).
- I am a member of the Geological Association of Canada (Cordillera Division).
- I supervised this project and have reviewed the findings presented within this report.



Rob Wilson
Project Geologist

LEGEND

**Eocene (and older?)
CATAFACE INTRUSIONS**

- 6 PEGMATITE - Leucocratic with calc feldspar, sericite, and quartz occurring as dikes and sills average width 1.5m.
- 5 INTRUSIVES
 - 5a - Quartz Diorite - Equigranular medium grained weathers to a buff colour, fresh surface light to medium grey

METCHOSIN VOLCANICS

- 4 BASALTIC VOLCANICS
 - 4a - Lapilli tuff - Medium to light green, fine grained matrix with sub angular clasts averaging 2-3mm across
 - 4b - Agglomerate - Medium to light green, medium to coarse grained matrix with large angular clasts 7cm-0.5m, averaging 8-10cm.
 - 4c - Flow - Medium to light green fine grained with quartz and carbonate filled vesicles 1-2mm in width.

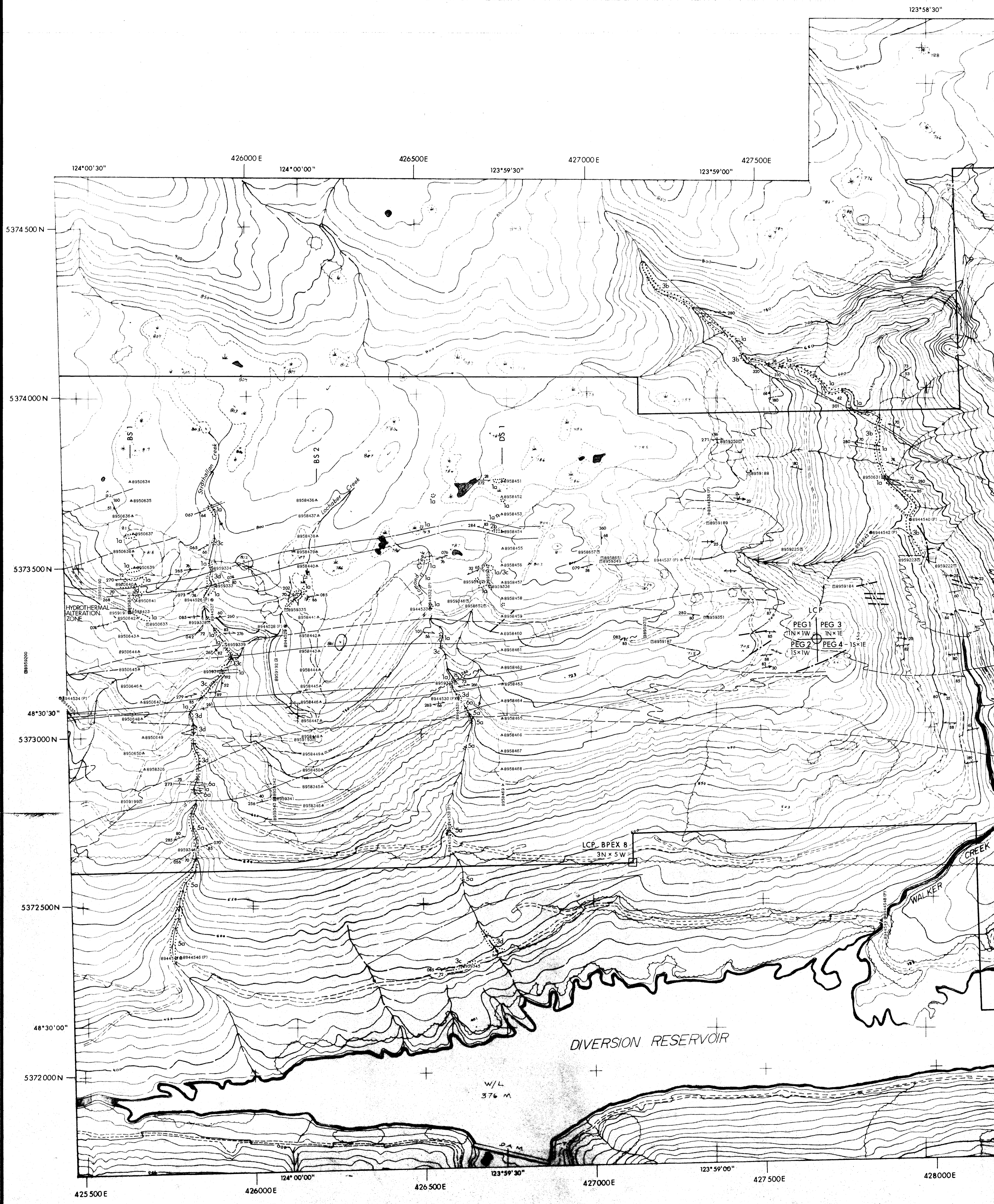
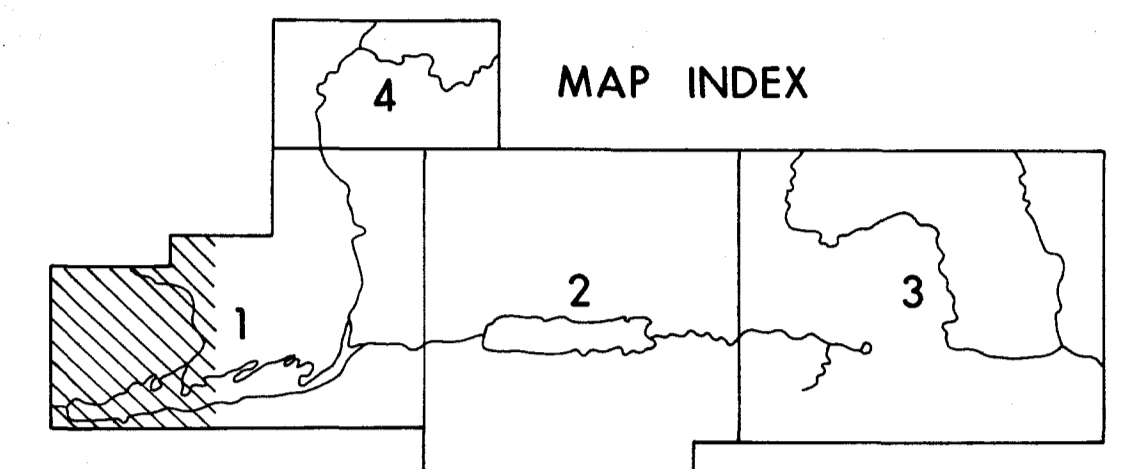
**TRIASSIC TO CRETACEOUS
LEECH RIVER FORMATION**

- 3 METAPELITE
 - 3a - Biotitic phyllite - Very fine grained grey black strongly fissile with a sheen along cleavage planes.
 - 3b - Biotite Schist - Medium grained, biotite, quartz segregated layers 1-3mm wide, fresh and weathered surfaces are medium to dark grey.
 - 3c - Biotite - Garnet schist - same as 3b with porphyroblasts of subhedral almandine garnet, ranging in size from 0.1mm to 1cm, averaging 2-3mm.
 - 3d - Biotite - Garnet - staurolite schist (order does not imply relative modal occurrence) same as 3c with porphyroblasts of subhedral staurolite often quadriform, dark brown to black, ranging in size from 0.1mm-1.5cm, averaging 7-8mm.
 - 3e - Biotite - Garnet - staurolite - andalusite schist (order does not imply relative modal occurrence) same as 3d with porphyroblasts of subhedral to anhedral andalusite (chiastolite), 2-8cm in length, weathers medium to dark grey fresh surface light pink.

- 2 METASANDSTONE
 - 2a - Greywacke - Medium to dark grey, fine to medium grained with illitic fragments and less than 20% quartz.
 - 2b - Massive metasediments - Medium grained equigranular locally feldspathic. Weathers buff brown, fresh surface medium to light grey. Often forming prominent cliffs.
- 1 AMPHIBOLITE
 - 1a - Tuff - Medium to dark green. Matrix is fine grained and extensively chloritized. The clasts are sub angular ranging 0.5-2cm in width.
 - 1b - Flow - Medium green chloritized amphiboles seen along cleavage planes. Vesicles are filled with quartz and carbonate.
 - 1c - Chloritic phyllite - very fine grained, strongly fissile, and displays a sheen along cleavage planes. The fresh and weathered surfaces are light green.

SYMBOLS

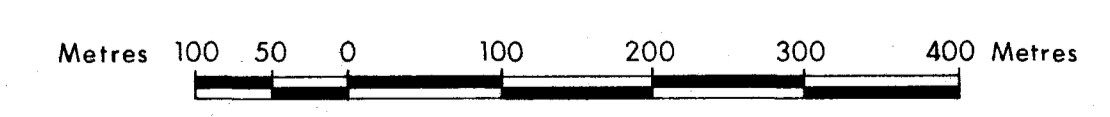
- Bedding (Strike+Dip)
 - Bedding (Strike+Vertical Dip)
 - Foliation (Strike+Vertical Dip)
 - Foliation (Strike+Dip)
 - Vein (Strike+Dip)
 - Vein (Strike+Vertical Dip)
 - Fracture (Strike+Vertical Dip)
 - Fracture (Strike+Dip)
 - Fault (Approximate)
 - Fault (Defined, Showing Dip)
 - Geologic Contact (Approximate)
- LEGAL CORNER POSTS**
- Location Known
 - Location Approximate



GEOLOGICAL BRANCH
ASSESSMENT REPORT

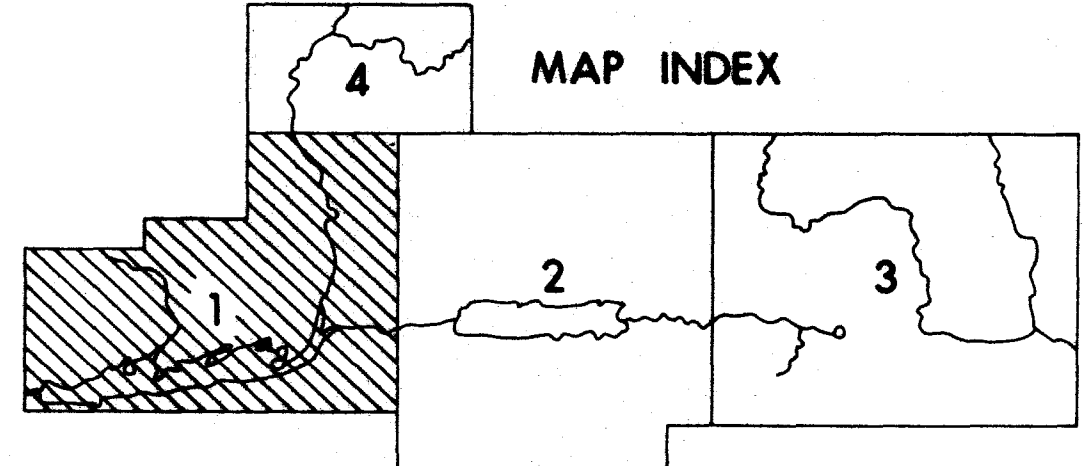
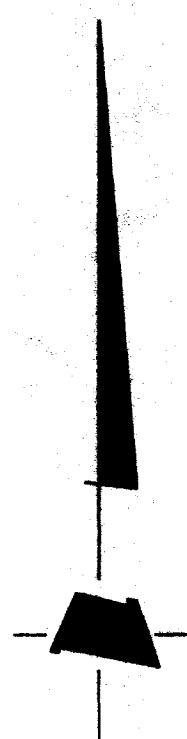
19,358

SCALE
1:5000



REVISED	BEAU PRE-VALENTINE	
	PEG & BO GROUP	
	PROPERTY GEOLOGY	
	AND SAMPLE LOCATIONS	
	WEST HALF	
PROJ. No. 120	SURVEY BY: T. McIntyre	DATE: March 1989
N.T.S. 928/12	DRAWN BY: E.M.S., J.S.	SCALE: 1:5000
DWG. No.	NORANDA EXPLORATION	
5a	OFFICE: Vancouver	

429500E 430000E 431000E 431500E



5376000N
48°32'00"
5375500N

5376000N
48°32'00"
5375500N

428500E 429000E 123°58'00" 123°57'30"

5375000N
48°31'30"

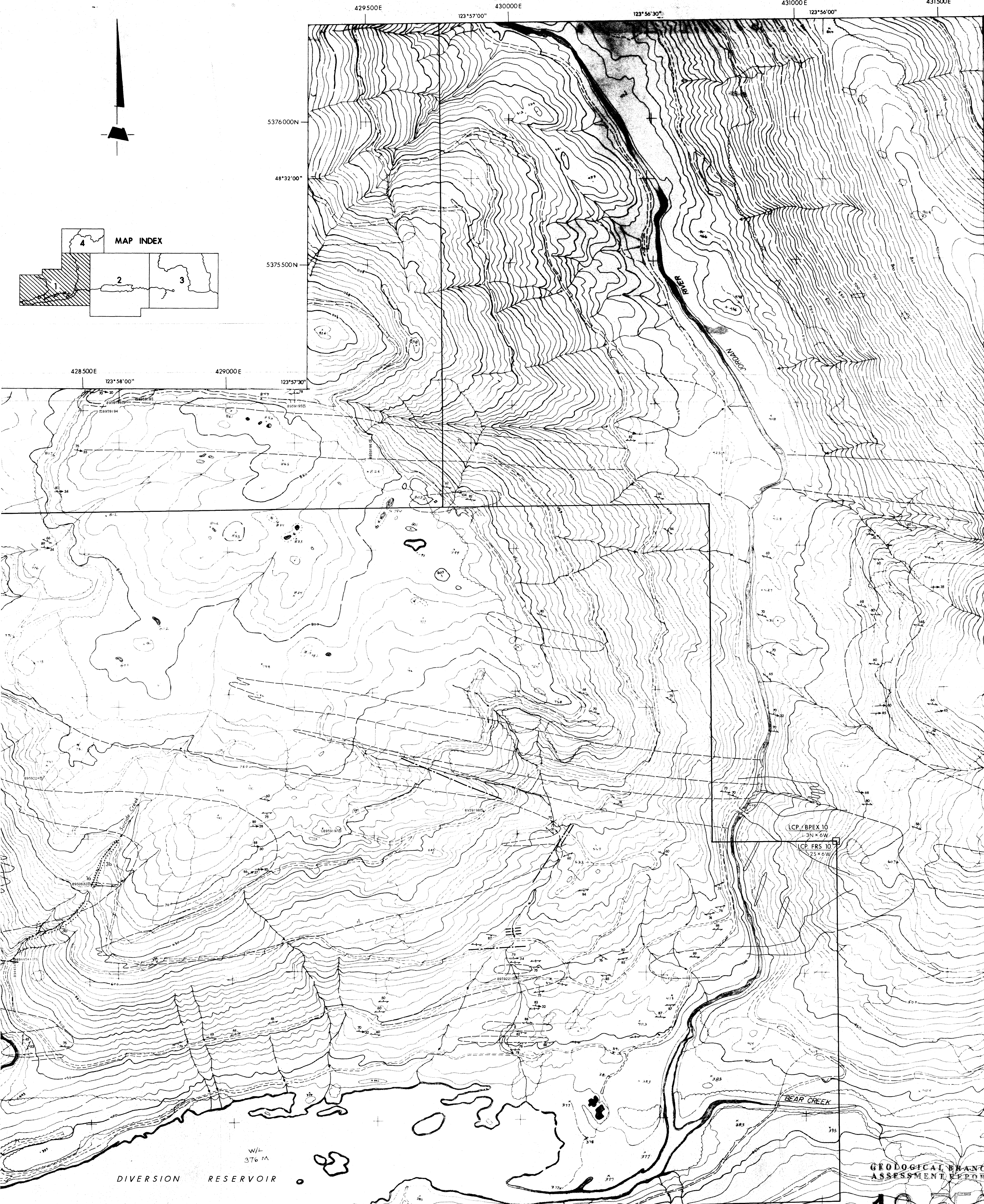
5374500N
48°31'00"

5374000N
48°30'30"

5373500N
48°30'00"

5373000N
48°29'30"

5372500N



LCP BPEX 10
3N x 6W
LCP FRS 10
25 x 6W

DIVERSION RESERVOIR

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,558

SCALE
1:5000

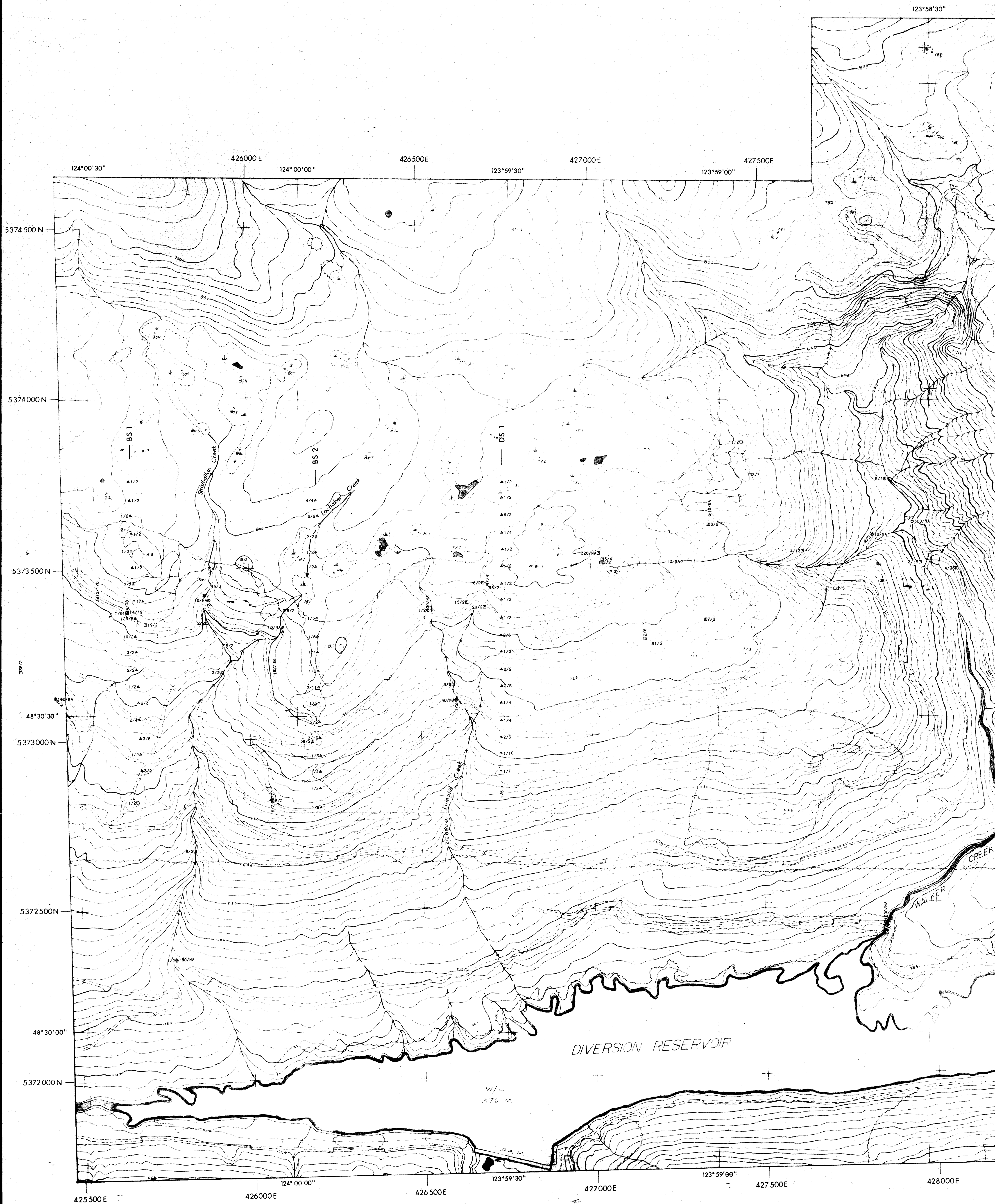
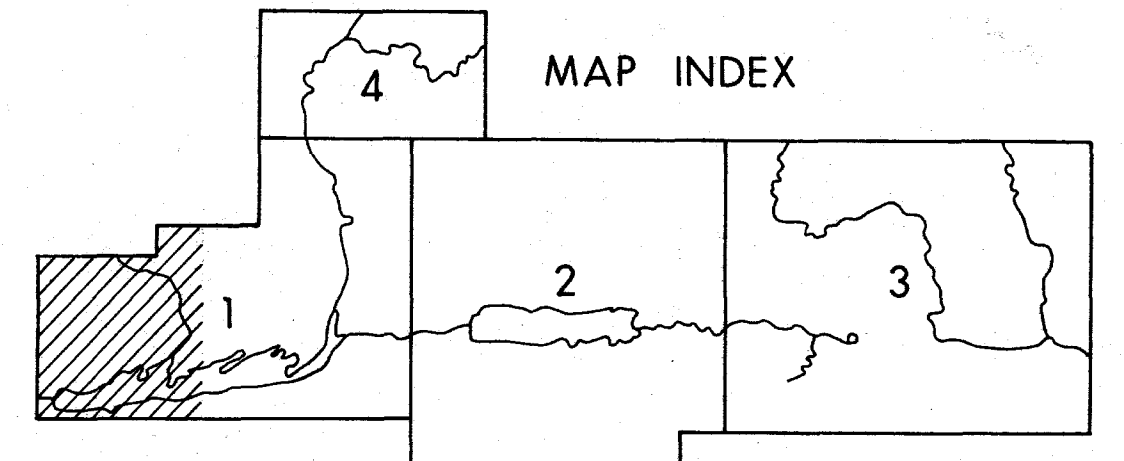
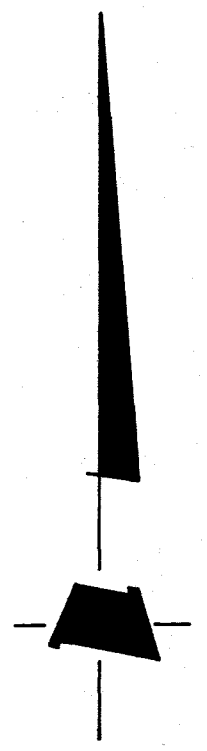
Metres 100 50 0 100 200 300 400 Metres

EAST HALF

REVISED	BEAU PRE-VALENTINE	
	PEG & BO GROUP	
	PROPERTY GEOLOGY	
	AND SAMPLE LOCATIONS	
PROJ. No. 120	SURVEY BY: T. McIntyre	DATE: March 1982
N.T.S. 928/12	DRAWN BY: E.M.S., J.S.	SCALE: 1:5000
DWG. No. 5b	NORANDA EXPLORATION	
	OFFICE: Vancouver	

○ SILT
□ SOIL
□ ROCK
□ PAN CONC
○ TALUS FINE
+ OTHER
X WATER

428500E 123°58'00" 429000E 123°57'30" 429500E 123°57'00" 430000E 123°56'30"



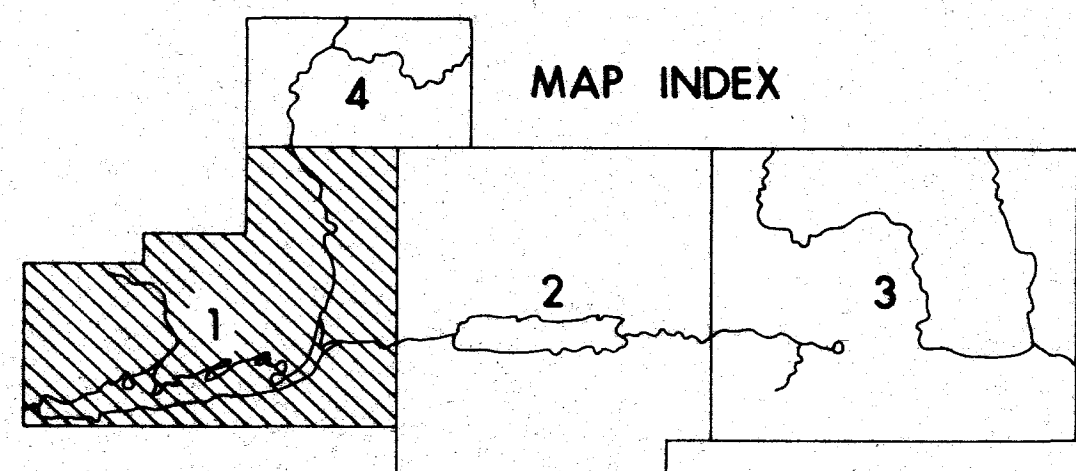
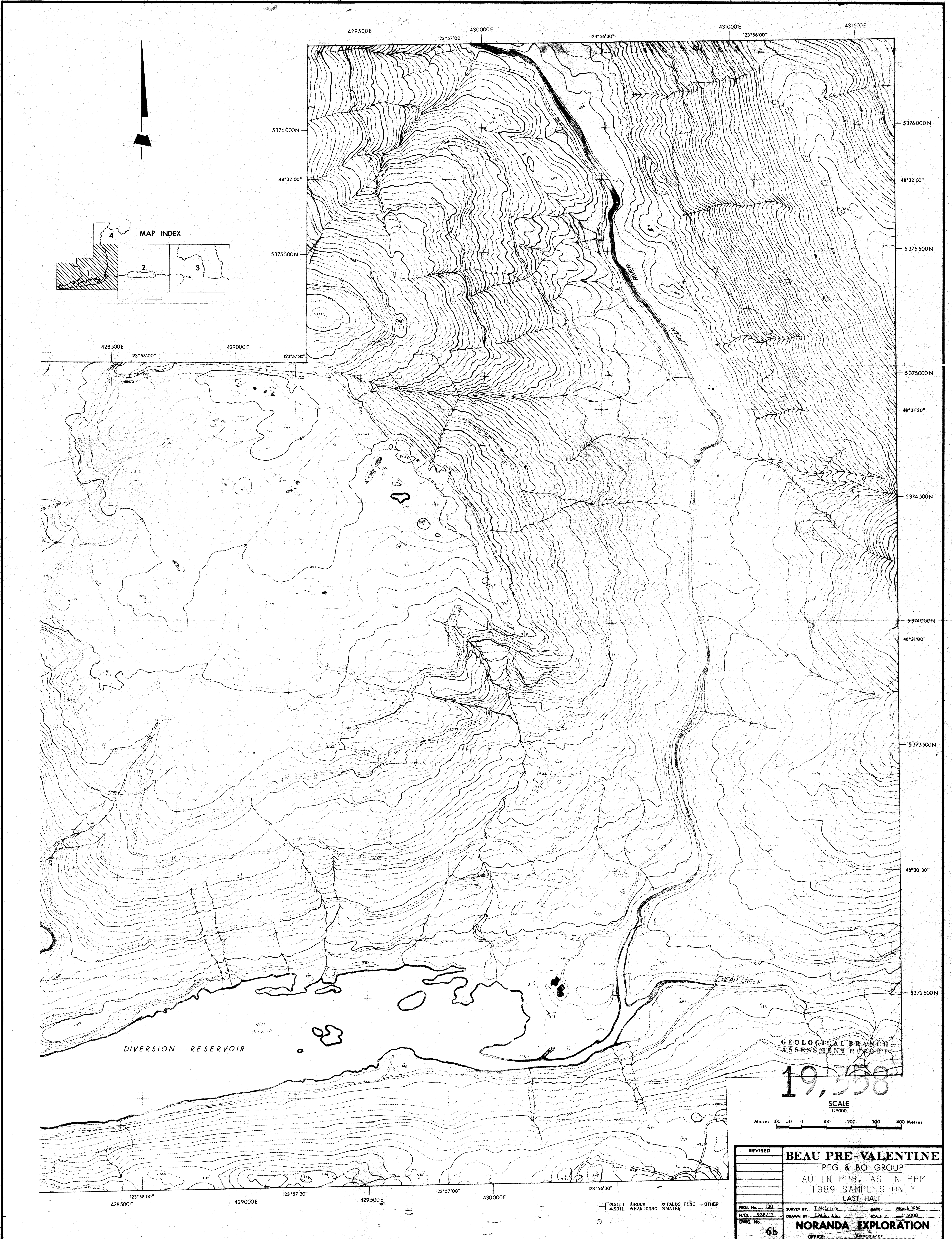
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,358

SCALE
1:5000



REVISED	BEAU PRE-VALENTINE		
	PEG & BO GROUP		
	Au in ppb, As in ppm		
	1989 SAMPLES ONLY		
	WEST HALF		
PROJ. No. 120	SURVEY BY: T. McIntyre	DATE: March 1989	
N.T.S. 928/12	DRAWN BY: E.M.S., J.S.	SCALE: 1:5000	
DWG. No.	NORANDA EXPLORATION		
6a	OFFICE: Vancouver		



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

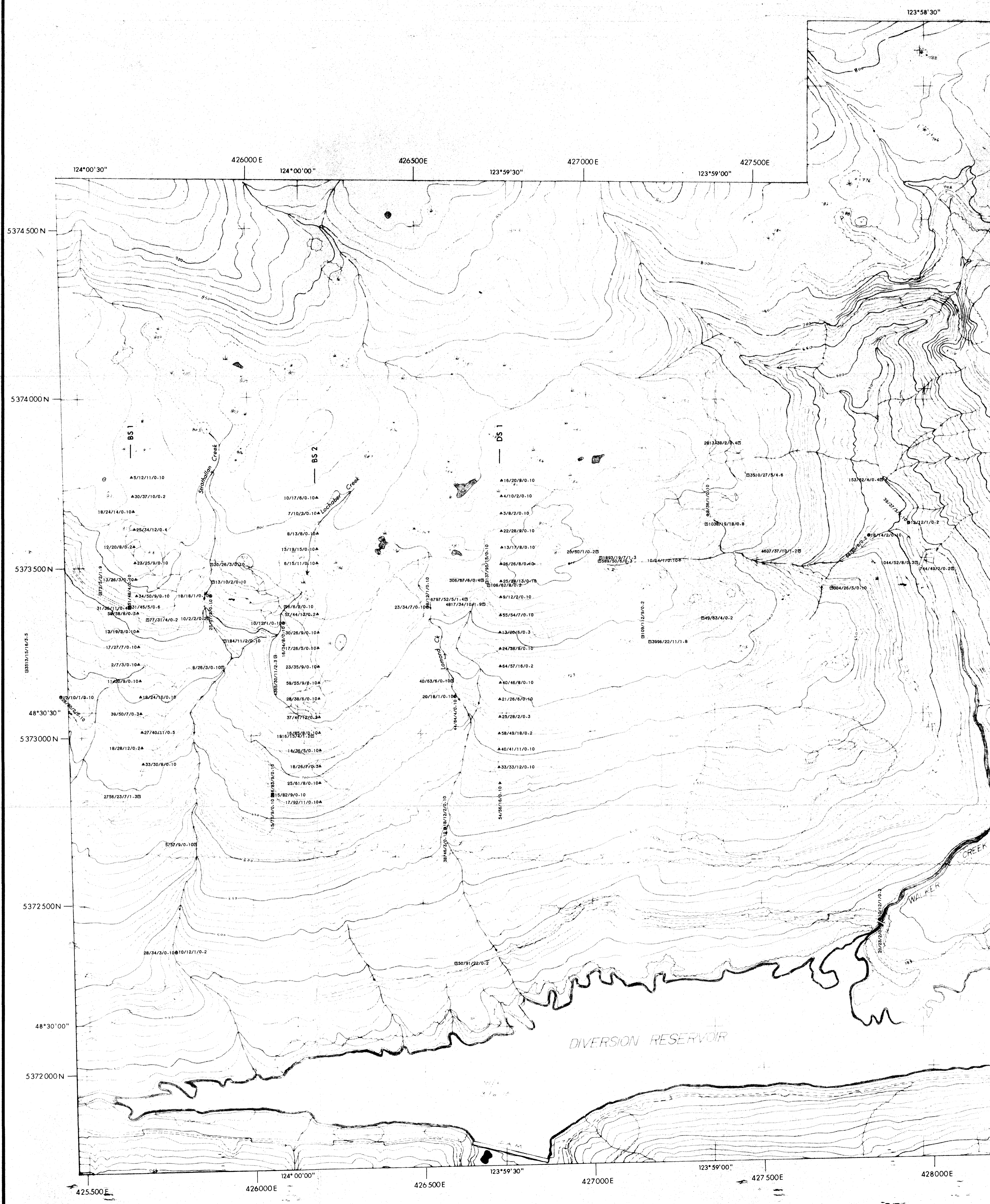
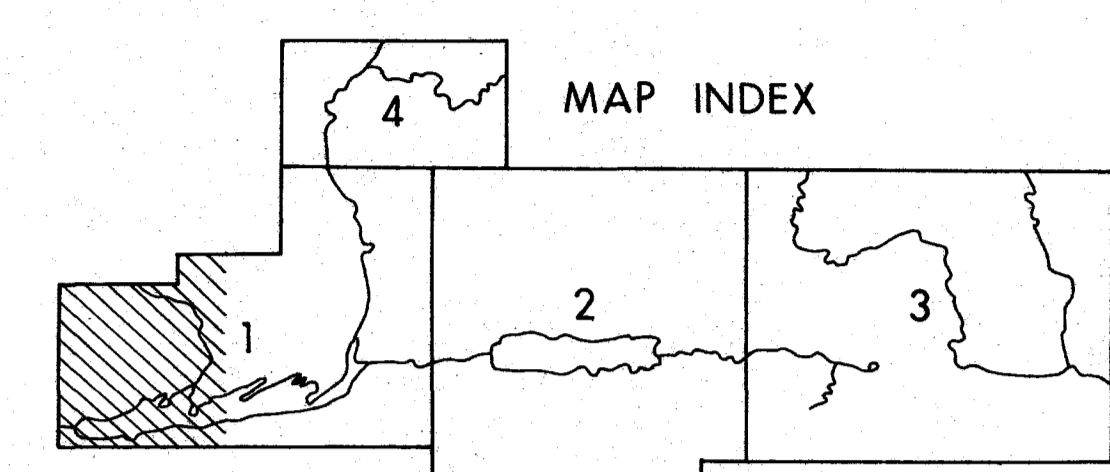
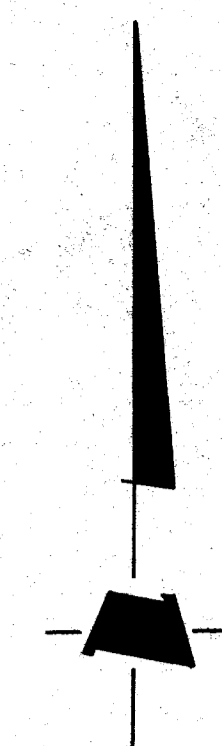
19,358

SCALE
1:5000

Metres 100 50 0 100 200 300 400 Metres

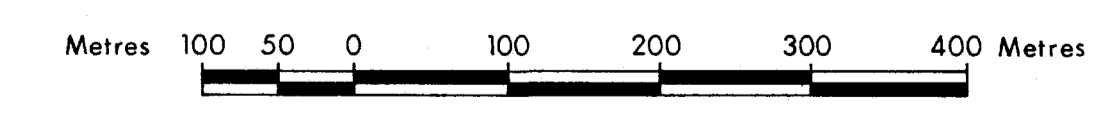
REVISED	BEAU PRE-VALENTINE		
	PEG & BO GROUP		
	AU IN PPB, AS IN PPM		
	1989 SAMPLES ONLY		
	EAST HALF		
PROJ. No. 120	SURVEY BY: J. McIntyre	DATE: March 1989	
N.T.S. 928/12	DRAWN BY: E.M.S. J.S.	SCALE: 1:5000	
DWG. No. 6b	NORANDA EXPLORATION		
	OFFICE: Vancouver		

○ SILT □ ROCK ⊙ TALUS FINE + OTHER
 □ SOIL □ ASPH CONC □ WATER



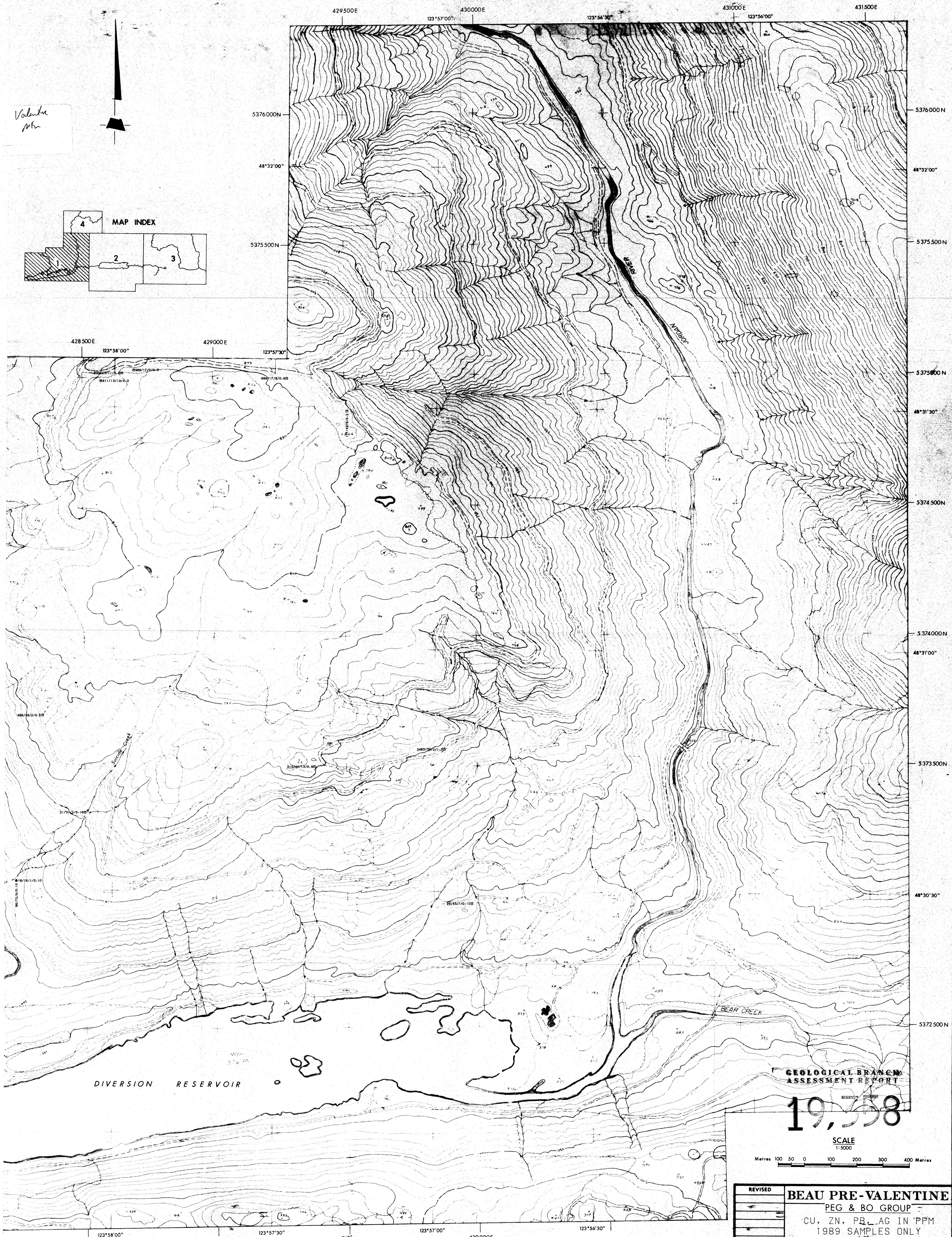
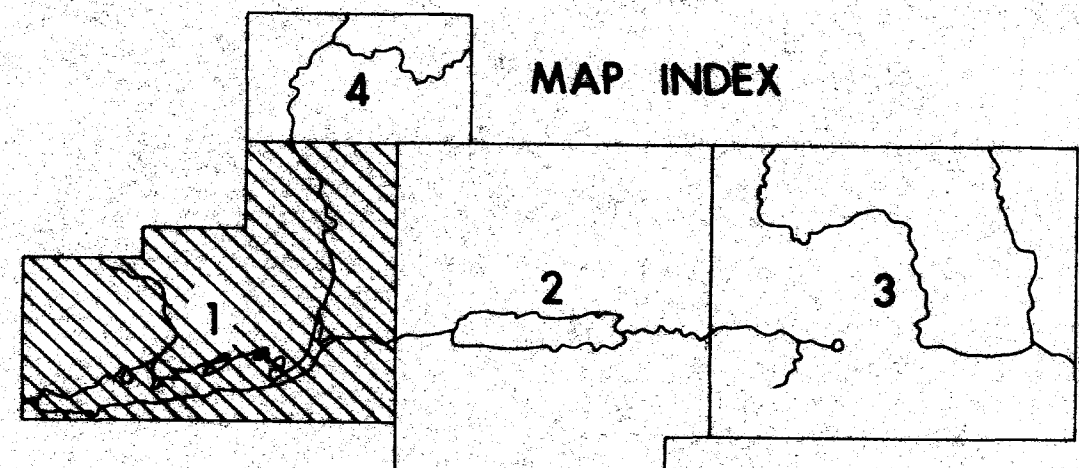
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,358
SCALE
1:5000



REVISED	BEAU PRE-VALENTINE	
	PEG & BO GROUP	
	Cu, Zn, Pb, Ag in ppm	
	1989 SAMPLES ONLY	
	WEST HALF	
PROJ. No. 120	SURVEY BY: T. McIntyre	DATE: March 1989
N.T.S. 928/12	DRAWN BY: E.M.S., J.S.	SCALE: 1:5000
DWG. No. 7a	NORANDA EXPLORATION	
	OFFICE: Vancouver	

Valentine
Mtn

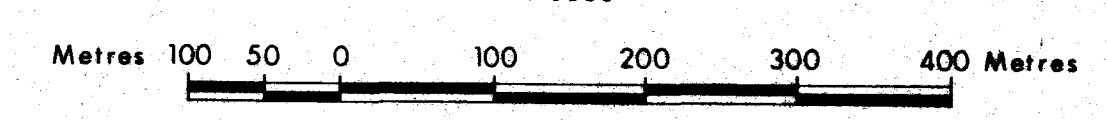


DIVERSION RESERVOIR

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,358

SCALE
1:5000



REVISED	BEAU PRE-VALENTINE		
	PEG & BO GROUP		
	CU, ZN, PB, AG IN PPM		
	1989 SAMPLES ONLY		
	EAST HALF		
PROJ. No. 120	SURVEY BY: I. McIntyre	DATE: March 1989	
N.T.S. 928/12	DRAWN BY: E.M.S., J.S.	SCALE: 1:5000	
DWG. No. 7b	NORANDA EXPLORATION		
	OFFICE: Vancouver		

○ 081L 080K 081L 080K
L & SOIL 081L 080K
081L 080K 081L 080K
081L 080K 081L 080K