

ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 89.06.13

ASSESSMENT REPORT 17777

MINING DIVISION: Nanaimo

PROPERTY: Bevan

LOCATION: LAT 49 41 03 LONG 125 07 40
UTM 10 5505470 346512
NTS 092F11E

CLAIM(S): Bevan 1-3

OPERATOR(S): Noranda Ex.

AUTHOR(S): McIntyre, T.J.; Wilson, R.G.

REPORT YEAR: 1988, 29 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold

GEOLOGICAL

SUMMARY: The claims are underlain by Upper Triassic and older Karmutsen Formation volcanics. The volcanic series consists of pillow basalts, tuff and breccia of intermediate to mafic composition. Copper and gold anomalies are associated with pyrite, pyrrhotite and chalcopyrite mineralization. The mineralization occurs in shallow to steeply dipping quartz veins and siliceous altered zones two to three metres in width.

WORK

DONE:

Geological, Geochemical

GEOL 2000.0 ha

Map(s) - 1; Scale(s) - 1:10 000

HMIN 5 sample(s) ;CU,AG,AS,PB,ZN,MO,AU

LINE 14.9 km

ROCK 21 sample(s) ;CU,AG,AS,PB,ZN,MO,AU

SILT 23 sample(s) ;CU,AG,AS,PB,ZN,MO,AU

SOIL 409 sample(s) ;CU,AG,AS,PB,ZN,MO,AU

Map(s) - 4; Scale(s) - 1:10 000

RELATED

REPORTS:

17093

LOG NO:	0928	RD.
ACTION:		
FILE NO:		

GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
BEVAN 1, BEVAN 2, & BEVAN 3 MINERAL CLAIMS

BEVAN 1 2695 (06)
Bevan 2 2696 (06)
Bevan 3 2697 (06)

FILMED

NANAIMO MINING DIVISION

N.T.S. 92F/11

49°15'00"N 125°15'00"W

**G E O L O G I C A L B R A N C H
A S S E S S M E N T R E P O R T**

17,777

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

Submitted By : T. McIntyre
R. Wilson

Date : September 5, 1988

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1.0 INTRODUCTION

During the spring of 1988 a geological reconnaissance programme was conducted on claims called the Bevan 1, Bevan 2 and Bevan 3. The reconnaissance programme consisted of geological mapping, and geochemical soil, silt, and pan sampling.

This report is being submitted to comply with the assessment requirements on these three claims.

1.1 Location and Access

The Bevan 1, Bevan 2, and Bevan 3 claims are located 10 kilometres west of the town of Courtenay, British Columbia, Figures 1 and 2.

The claims can be reached by travelling up the Mount Washington Ski Hill Road, turning west at the Anderson Lake turnoff, and continuing south along logging roads to Brown's River. The Bevan 1, Bevan 2, and Bevan 3 claims lie between the confluence of Wattaway Creek and Brown's River, to the west, and the Mount Washington Ski Hill Road to the east.

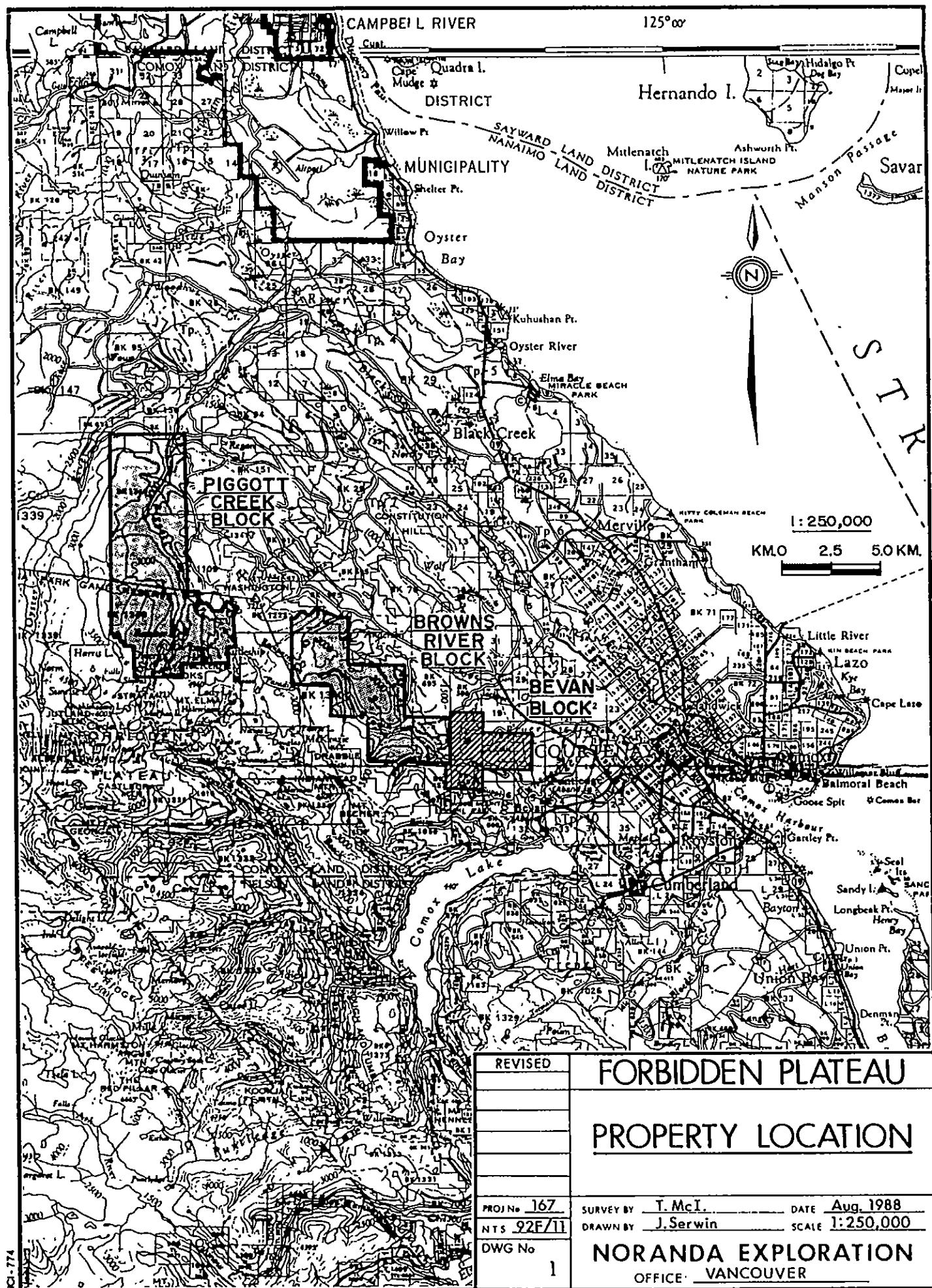
1.2 Topography and Physiography

The claims are located along the lower eastern rise of Forbidden Plateau, on the Vancouver Island Ranges. The Bevan 1, Bevan 2 and Bevan 3 claims lie between elevations of 240 metres and 740 metres.

Typically the terrain is steep, and rises rapidly from the valley floor. The lower elevations consist of a substantial accumulation of glacial till, and the higher elevations are usually rocky and consist of lesser amounts of vegetation.

1.3 Previous Work

Gold, silver, and copper were found in quartz veins on the northern slopes of Mt. Washington during 1940. However, little was done in this area until Noranda Mines Ltd. conducted exploration programmes during 1957, 1958, and 1959. In 1963 and 1964 Consolidated Mining and Smelting Company completed exploration programmes in the same vicinity.



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The Mt. Washington Milling Company mined and milled 400,000 tons of ore on Mt. Washington between 1965 and 1966, before shutting down operations in late 1966. During 1967 and 1968 W.G. Stevenson completed geological mapping, soil sampling, and an electromagnetic survey in an area south of Anderson Lake.

No recorded work is known for the area covered by the Bevan claims.

1.4 Owner - Operator

The Bevan 1, Bevan 2, and Bevan 3 claims are owned by Noranda Exploration Company, Limited (no personal liability) and form a portion of property held in joint venture with Iron River Resources. Noranda Exploration is the current Operator.

1.5 Economic Potential

The results of the reconnaissance programme, conducted during the 1988 field season, revealed a minor arsenic anomaly in the soil near the western boundary of the Bevan 3 claim, and a spot gold high in the soil occurring near the eastern boundary of the Bevan 3 claim.

Further evaluation of these anomalies as well as further reconnaissance is recommended. This property has low economic potential.

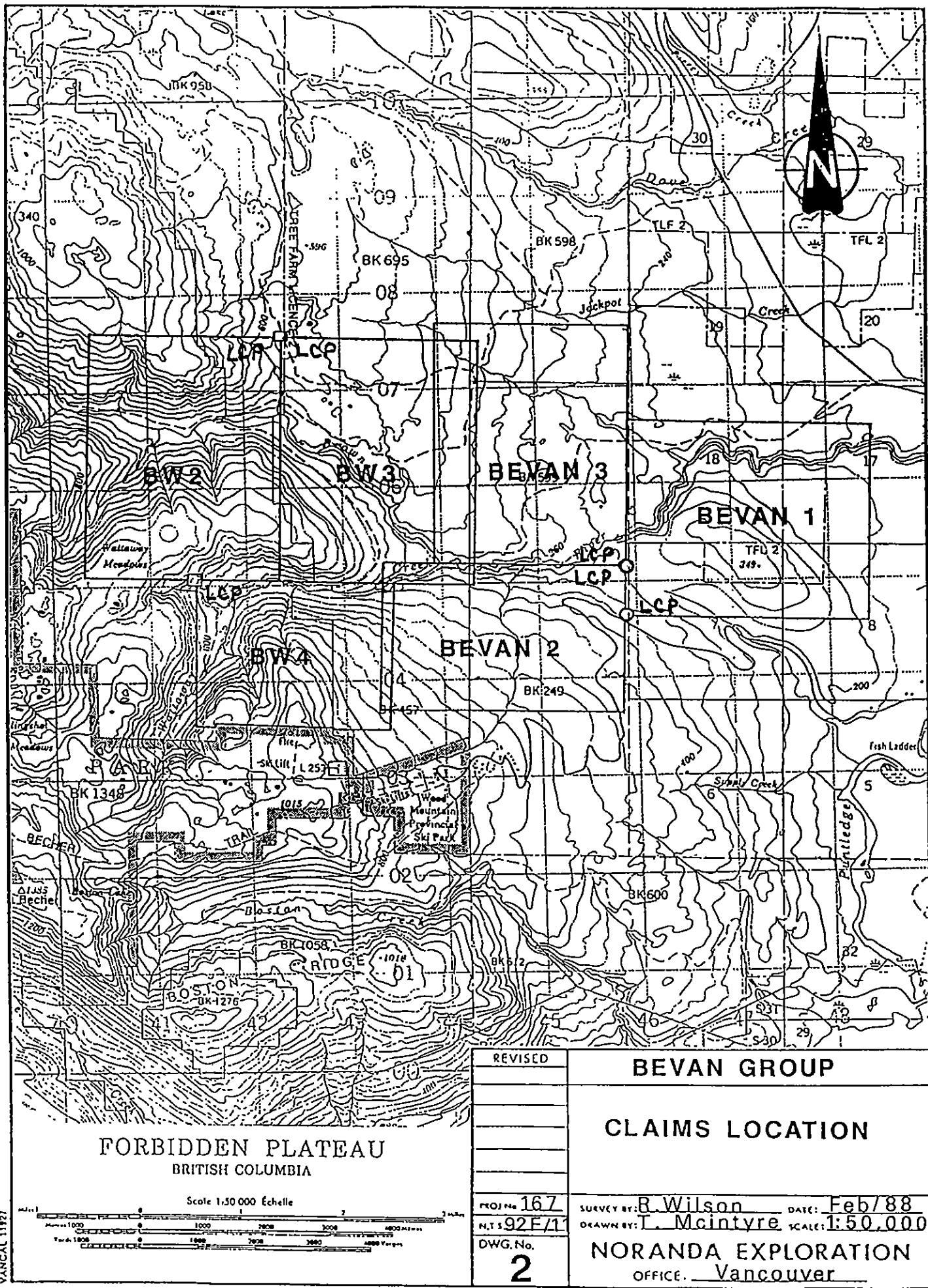
2.0 SUMMARY OF WORK DONE

2.1 Geological Survey

A grid was established and geological mapping was carried out, at a scale of 1:10,000, on the property in conjunction with geochemical sampling. Once the geological mapping of the grid was completed, the creeks leading into the Brown's River were mapped as were some of the logging roads on the property.

2.2 Geochemical Survey

On the Bevan 1 and Bevan 2 claims a grid was established and soil geochemical samples were taken at 50 metre intervals. Elsewhere on the property, soil geochemical samples were taken at 100 metre intervals along logging roads, silt samples were taken at every creek crossed, pan samples



were taken in areas where a pan concentrate could be obtained, and rock samples were taken in areas of geologic interest.

Soil samples were taken in the B horizon from 25 cm deep holes, and placed in Kraft bags. These soil bags were later air dried before shipment. Silt samples were taken at selected creeks, and placed in Kraft bags to be air dried prior to shipment. Rock samples were taken as grab samples and placed in six mil poly bags. Soil, silt, or pan samples collected from the property were geochemically analyzed for Cu, Ag, As, Pb, Zn and Mo by Noranda's geochemical laboratory in Vancouver. However, these same samples were geochemically analyzed for Au by Acme Analytical Laboratories Ltd. in Vancouver. The rock samples were analyzed by Acme Analytical Laboratories Ltd. using the I.C.P. method for 30 elements. Appendix #1 is a description of the analytical techniques currently used by the Noranda laboratory, as well as those used by Acme Analytical Laboratories Ltd.

The number of samples collected are listed as follows:

Soils	:	409 Samples
Silts	:	23 Samples
Pan	:	5 Sample
Rocks	:	21 Samples

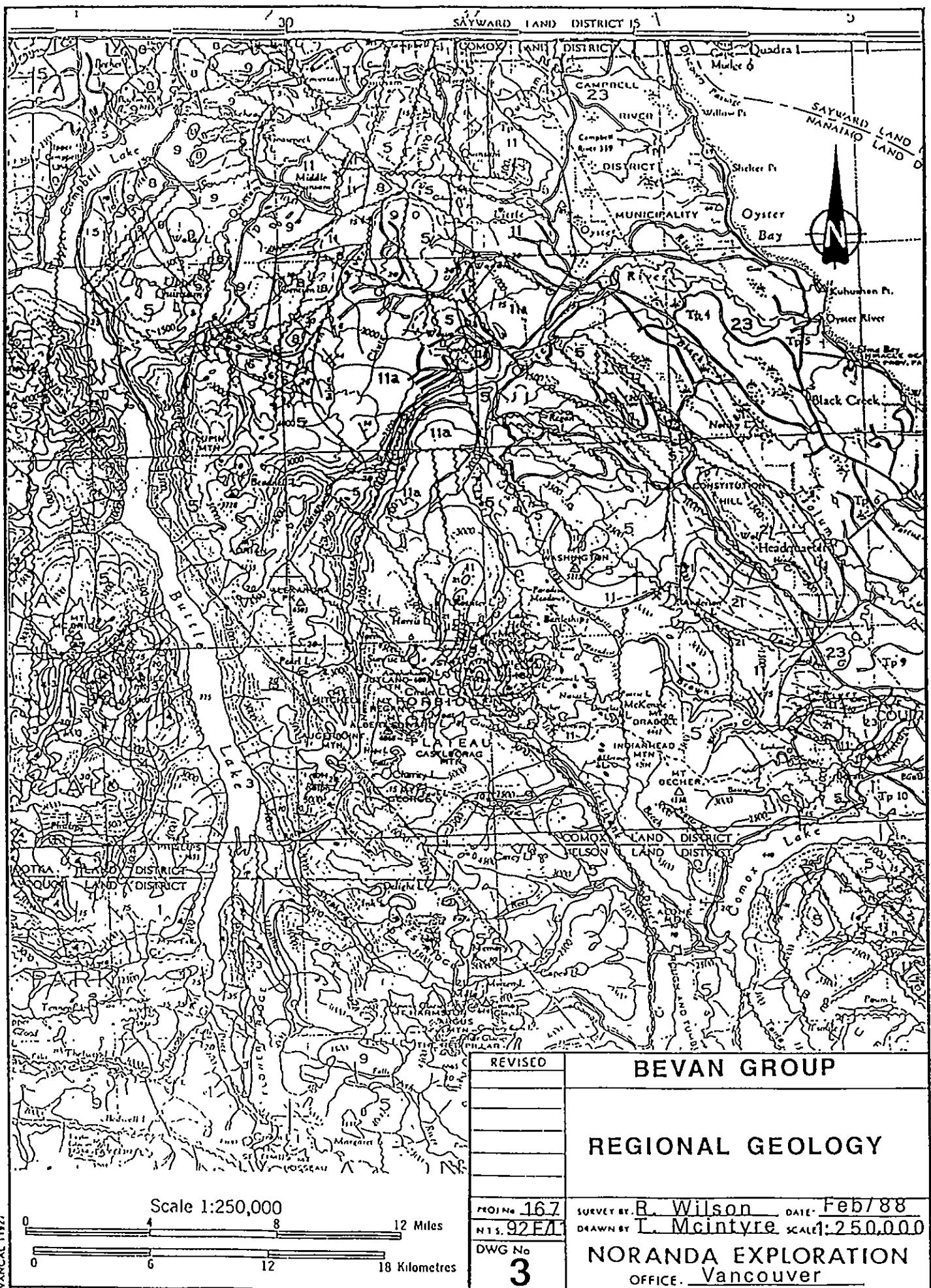
TOTAL	:	458 Samples
====		

3.0 DETAILED TECHNICAL DATA AND INTERPRETATION

3.1 Regional Geology

Some of the earlier work completed on Mt. Washington was done by D.J.T. Carson, G.C. Gunning and W.G. Jeffery, Figure 3. Thesis work by D.J.T. Carson (1960) contributed much to the understanding of the geology of Mt. Washington, as did the more recent work of J.E. Muller and D.J.T. Carson (1964, G.S.C. Paper 68-50).

The area covered by this report is underlain by Upper Triassic and Older Karmutsen Formation basic submarine volcanics. Unconformably overlying the Karmutsen is the Upper Cretaceous Nanaimo Group Haslam and Comox Formations which consist of fine to coarse grained sediments. They were subsequently intruded by quartz diorite-monzonite intrusions, of Tertiary age, which split the Haslam and Comox Formations in a sill or lopolith fashion, brecciating the surrounding rock.



LEGEND

GENOZOIC	QUATERNARY PLEISTOCENE AND RECENT	
	23 Glacial and alluvial deposits	
TERTIARY		
22 Rhyolitic, to dacitic tuff, breccia, ignimbrite		
	21 Hornblende-quartz diorite, leucoquartz monzonite, porphyritic dacite, breccia	
CRETACEOUS OR TERTIARY		
20 Sandstone, conglomerate		
CRETACEOUS AND (?) TERTIARY		
UPPER CRETACEOUS AND (?) TERTIARY		
NANAIMO GROUP (11-19)		
19 GABRIOLA FORMATION: sandstone, conglomerate, shale		
UPPER CRETACEOUS		
18 SPRAY FORMATION: siltstone, shale, fine sandstone		
17 GEOFFREY FORMATION: conglomerate, sandstone		
16 NORTHUMBERLAND FORMATION: siltstone, shale, fine sandstone		
15 DE COURCY FORMATION: conglomerate, sandstone		
14 CEDAR DISTRICT FORMATION: shale, siltstone, fine sandstone		
13 EXTENSION-PROTECTION FORMATION: sandstone, conglomerate, shale, coal		
12 HASLAM FORMATION: shale, siltstone, fine sandstone		
11 COMOX FORMATION: sandstone, conglomerate, shale, coal: 11a is BENSON MEMBER: mainly coarse conglomerate		
UPPER JURASSIC AND/OR LOWER CRETACEOUS		
10 'Tofino Area Greywacke Unit'		
Greywacke, argillite, conglomerate		
JURASSIC		
MIDDLE TO UPPER JURASSIC		
9 ISLAND INTRUSIONS: biotite-hornblende granodiorite, quartz diorite		
TRIASSIC AND JURASSIC		
LOWER JURASSIC(?)		
VANCOUVER GROUP (5-8)		
BONANZA SUBGROUP (7, 8)		
8 VOLCANIC DIVISION: andesitic to latitic breccia, tuff and lava; minor greywacke, argillite and siltstone		
UPPER TRIASSIC AND LOWER JURASSIC		
7 SEDIMENTARY DIVISION: limestone and argillite, thin bedded, silty carbonaceous		
PALEOZOIC	UPPER TRIASSIC	
	6 QUATSINO FORMATION: limestone, mainly massive to thick bedded, minor thin bedded limestone	
UPPER TRIASSIC AND OLDER		
5 KARMUTSEN FORMATION: pillow-basalt and pillow-breccia, massive basalt flows; minor tuff, volcanic breccia, Jasperoid tuff, breccia and conglomerate at base		
TRIASSIC OR PERMIAN		
4 Gabbro, peridotite, diabase		
PENNSYLVANIAN, PERMIAN AND OLDER		
LOWER PERMIAN		
SICKER GROUP (1-3)		
3 BUTTLE LAKE FORMATION: limestone, chert		
MIDDLE PENNSYLVANIAN		
2 Argillite, greywacke, conglomerate; minor limestone, tuff		
PENNSYLVANIAN AND OLDER		
1 Volcanic breccia, tuff, argillite; greenstone, greenschist; dykes and sills of andesite-porphry		
'WESTCOAST CRYSTALLINE COMPLEX' (A-D)		
'BASIC ROCKS'		
D Gabbro, peridotite		
'TOFINO INLET PLUTON'		
C Hornblende-biotite quartz diorite, granodiorite		
'WESTCOAST DIORITES'		
B Hybrid hornblende diorite, quartz diorite, agmatite; includes masses of hornfelsic volcanic rocks		
'WESTCOAST GNEISS COMPLEX'		
A Hornblende-plagioclase gneiss, amphibolite, hornfels		
Geological boundary (approximate)		
Bedding (inclined, vertical, overturned)		/ / /
Schistosity, foliation (inclined)		/ /
Schistosity, foliation and minor fold axes (inclined, vertical, arrow indicates plunge)		/ /
Lineation (axcs of minor folds)		/ /
Fault (approximate); lineament		~~~~~
Geology by J. E. Muller, 1963-1967. Includes contributions by W. G. Jeffery, D. J. T. Carson		

3.2 Geology

3.2.1 Purpose

To conduct geological mapping at a scale of 1:10,000 concurrent with geochemical sampling in order to identify geological structures underlying potentially anomalous areas.

3.2.2 Results and Interpretation

Much of the property is covered with glacial till at the lower elevations. Outcrops infrequently observed within the till covered area and frequently seen at higher elevations are intermediate to basic basalts, volcanic tuffs, and associated breccias, Figure 4. The volcanic series here is the Karmutsen Basalt of Triassic age. This basalt is typically fine grained, dark grey to black in colour, and contains amygdules of white feldspar, quartz, calcite, and epidote. The basalt is commonly magnetic and exhibits manganese staining.

The andesitic tuff is grey-green to light green in colour with phenocrysts of hornblende and mafic minerals 2 mm to 4 mm in size, occasional lapilli 5 mm to 6 mm in size, in a fine to medium grained feldspar rich groundmass.

The mineralization found during the reconnaissance programme consisted of trace amounts pyrite, pyrrhotite, and chalcopyrite disseminated within the Karmutsen basalt. The mineralization occurs in quartz veins and siliceous altered zones within the basalt. The occurrences range from shallow to steeply dipping veins, or altered zones, with a thickness of two to three metres.

3.2.3 Nanaimo Group Sediments

The Nanaimo Group Sediments generally outcrop at the higher elevations within the Bevan Group of claims. They consist of fine grained to coarse grained sediments composed of sandstone, siltstone, shale, and coal. Sandstone is the most prominent of the sediments and it is feldspathic, light to buff brown, or reddish brown in color, bedded and occasionally contains concretions and chert nodules.

3.2.4 Tertiary Intrusive Diorite

The Mid-Tertiary Dioritic intrusions are a leucodiorite, diorite to a quartz diorite and are composed of fine to medium grained, equigranular, subhedral and anhedral crystals. Generally they are plagioclase rich and consist of hornblende, biotite, and from a negligible amount up to 5% quartz.

3.3 Geochemistry

3.3.1 Purpose

To conduct regional soil, silt, and rock chip sampling to determine if anomalous areas exist for further detailed exploration.

3.3.2 Results and Interpretation

The results of geochemical sampling are displayed in Figure 6 and 7 and 8 and they reveal anomalous values for As along the western boundary of the Bevan 3 claim. In addition, a single spot gold high was found near the eastern boundary of the Bevan 3 claim.

The anomalous values of As, and the single spot Au high of 119 ppb, occur in soil samples which were taken along logging roads. A trend of anomalous As values, in a rough east-west pattern can be seen at the western end of the Bevan 3 claims, Figure #6.

Elsewhere on the property results from soil, silt, pan and rock samples yielded values for Au, Ag, As, Cu, Mo Pb and Zn that were not appreciably above background levels.

The property should be followed up with further geological and geochemical surveys to complete reconnaissance of areas not previously examined.

4.0 SUMMARY AND CONCLUSIONS

The Bevan group of claims are located 10 km west of Courtenay, B.C. and lie between the confluence of Wattaway Creek and Brown's River, to the west and the Mount Washington Ski Hill Road to the east. The property is accessed by turning west from Mt. Washington Ski Hill Road and onto a logging road at the Anderson Lake turnoff.

The property is typified by steep terrain which rises rapidly from the valley floor.

The claims are underlain by Triassic Karmutsen basalts, of intermediate to basic composition, volcanic tuffs, pillows, and associated breccias.

Geochemical surveys were conducted, and 458 samples, consisting of rock, soils, silts, and pans, were taken and analyzed for Cu, Ag, As, Pb, Zn, Mo, and Au. Anomalous arsenic and gold values were concentrated within the Bevan 3 claim.

5.0 RECOMMENDATIONS

Completion of reconnaissance in areas not previously examined in conjunction with geological and geochemical surveys is in order.

APPENDIX I
ANALYTICAL METHOD DESCRIPTIONS FOR
GEOCHEMICAL ASSESSMENT REPORTS

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applied to analyse 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 MIBK 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	



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GEOCHEMICAL ANALYSES - Rocks and Soils

Group 1 Digestion

.50 gram sample is digested with 3 ml's 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	0.01 ppm	Molybdenum	1 ppm
Bismuth*	2 ppm	Iron	0.01 ppm	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 1% Ni or Cu.

Element	Detection	First Element	All Elements
Arsenic	0.1 ppm		
Antimony	0.1 ppm		
Bismuth	0.1 ppm		
Germanium	0.2 ppm	\$4.25	\$5.50
Selenium	0.2 ppm		
Tellurium	0.3 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, same digestion

Element	Detection
Ag	0.1 ppm
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 ppm

Any 2 elements \$3.25
5 elements 4.50
10 elements 5.50
All 30 elements 6.25

Group 1E - Analysis by ICP/MS

Element	Detection
Ga, Ge	1 ppm
Au, Bi, Cd, Hg, In, Ir, Os, Re, Rh, Sb, Te, Th, Tl, U	0.1 ppm

All Elements 15.00 (minimum 20 samples per batch or \$15.00 surcharge)

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 UAS - detection .01 ppb 5.00
pH - detection .1 pH 1.50

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

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Group 2 - Geochemical Analysis by Specific Extraction and Instrumental Techniques

<u>Element</u>	<u>Method</u>	<u>Detection</u>	<u>Price</u>
Barium	0.100 gram samples are fused with .6 gm LiBO ₂ dissolved in 50 mls 5% HNO ₃ and analysed by ICP. (other whole rock elements are also determined)	10 ppm	\$3.75
Carbon	LECO (total as C or CO ₂)	.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 3 gm Na ₂ O ₂ 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 NH ₄ I. The sublimed Iodine is leached with 5 ml 10% HCl, and analysed by Atomic Absorption.	1 ppm	3.50
Tungsten	.50 gram samples are fused with Na ₂ O ₂ dissolved in 20 ml H ₂ O ₂ , analysed by ICP.	1 ppm	3.50

Group 3 - Geochemical Noble Metals

<u>Element</u>	<u>Method</u>	<u>Detection</u>	<u>Price</u>
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 dose 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, Cr₂O₃, LOI + Ba by ICP.

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

Group 4B - Trace elements

<u>Element</u>	<u>Detection</u>	<u>Analysis</u>	<u>Price</u>
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 DESCRIPTIONS AND RESULTS

NORANDA EXPLORATION COMPANY, LIMITED.

N.T.S.

92 F/11

PROJECT Bevan Grp (Bevan 1, 2 & 3 claims)

DATE

June 88

PROJECT

167

LAB REPORT

SAMPLED BY

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% sul.	TYPE	WIDTH	ASSAYS				
					Cu	Ag	Au	As	SAMPLED BY
R43976	196 & 00E Andesite - qtz, & calcite 204 & 72N fracture filling, & chert (Float)	TrPy	GRAB	-	101	0.1	1	2	T McIntyre
R43977	194 & 00E Andesite-qtz & calcite 199 & 67N fracture filling. Epidote f.f. & minor chert?	-	GRAB	-	65	0.3	1	3	D. & Lewis
R43978	188 & 00E Andesite-qtz veining & 197 & 86N minor c.c. tuff.	-	GRAB	-	217	0.1	2	2	McIntyre & Louden
R43979	Nairn Cr. Alt zone in basalt, south bank of creek, wallrock with alt & basaltic texture	-	GRAB	-	3	0.1	1	16	"
R43980	Nairn Cr. Siliceous altn zone down center of creek	-	GRAB	-	44	0.2	1	24	"
R43981	Nairn Cr. Altn zone, north bank, hanging wall	-	GRAB	-	212	0.1	1	39	"
R43982	Nairn Cr. Under waterfall. Fault gouge and wallrock.	-	GRAB	-	6	0.1	1	83	"
R27733	Browns River Slightly altered Comox sediments	nil	GRAB	exten- sive	37	0.1	3	51	D.A. Lewis
R28152	Bevan 2 Claim; Karmutsen basalt with quartz stringers	-	GRAB	-	233	0.2	7	2	B. North- cote
R28205	Browns River Vertical altered fel- site vein	4%	GRAB	1m	379	1.5	1	100	C.D. Frew
R28208	Browns River Flat-lying felsite body	tr.	GRAB	1.5m	596	0.6	1	125	C.D. Frew
R28209	Browns River Strongly altered fel- site porphyry	nil	GRAB	10m	17	0.1	1	5	C.D. Frew
R28220	192E/Contact with Browns River; Hornfelsed sandstone	nil	GRAB	exten- sive	16	0.1	1	24	B. North- cote
R28224	Browns River;Altered felsite with malachite	nil	GRAB	vari- able	274	0.1	1	46	C.D. Frew
R28225	Browns River;Altered felsite tuff	tr.	GRAB	Im.	84	0.2	2	62	C.D. Frew
R28250	Bevan 2 Claim; Karmutsen basalt with quartz stringers	-	GRAB	-	102	0.9	4	4	B. North- cote

NORANDA EXPLORATION COMPANY, LIMITED.

N.T.S. 92 F/11

PROJECT Bevan Grp. (Bevan 1, 2 & 3 Claims)

DATE June 88

PROJECT

 167

LAB REPORT

SAMPLED BY

SAMPLE REPORT

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: FORBIDDEN

DATE: August, 1988

TYPE OF REPORT: ASSESSMENT

a) Wages:

No. of Days 69 mandays

Rate per Day \$ 150.00

Dates From: June 01, 1988 to June 12, 1988

Total Wages 69 x \$ 150.00 \$10,350.00

b) Food & Accomodations:

No. of Days 12

Rate per Day \$ 69.93

Dates From: June 01, 1988 to June 12, 1988

Total Costs 12 x \$ 69.93 \$ 839.16

c) Transportation: (Truck Rental)

No. of Days 12

Rate per Day \$ 41.67

Dates From: June 01, 1988 to June 12, 1988

Total Costs 12 x \$ 41.67 \$ 500.04

d) Instrument Rental:

Type of Instrument

No. of Days

Rate per Day \$

Dates From:

Total Costs x \$

Type of Instrument

No. of Days

Rate per Day \$

Dates From:

Total Costs x \$

e) Analysis:
(See attached schedule) \$ 4,030.40

f) Cost of preparation of Report
Author: \$ 200.00
Drafting: \$ 200.00
Typing: \$ 100.00

g) Other:
Contractor
Field Supplies \$ 182.86

Total Cost \$16,402.46

h) Unit costs for Geology

No. of Days 12

No. of Units

Unit costs \$628.76 / Day

Total Cost 12x \$628.76 \$ 7,545.13

i) Unit costs for Geochemistry

No. of days 12

No. of units 458

Unit costs \$19.34/sample

Total Cost: 458 x \$19.34 \$ 8,857.33

TOTALS: \$16,402.46

NORANDA EXPLORATION COMPANY, LIMITED
(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: FORBIDDEN PLATEAU

<u>ELEMENT</u>	<u>NO. OF DETERMINATIONS</u>	<u>COST PER DETERMINATION</u>	<u>TOTAL COSTS</u>
Au	458	3.90	\$1,786.20
As	458	1.90	\$ 870.20
Ag	458	2.00	\$ 916.00
Cu	458	1.00	\$ 458.00

		TOTAL:	\$4,030.40
			=====

AUTHORS QUALIFICATIONS

I, Terence J. McIntyre of 8248 - 14th Avenue, City of Burnaby, Province of British Columbia, do hereby certify that:

1. I have been employed as a Geologist for Noranda Exploration Company, Limited (no personal liability) from the spring of 1987 to the present.
2. I graduated from the Montana College of Mineral Science and Technology in 1986 with a B.Sc degree in geological engineering.
3. I have worked in mineral exploration and in mines since 1983.

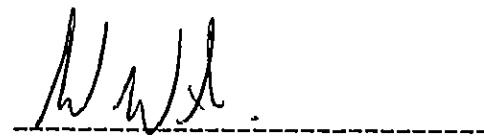


Terence J. McIntyre
SEPTEMBER 5, 1988

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 practised my profession as a geologist since 1976.
- I am presently a Project Geologist with Noranda Exploration Company, Limited.
- 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.



R.G. Wilson
Project Geologist

Portbeller fl.

8806-028

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUN 15 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: June 17/88.

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: SOIL PULP
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ASSAYER: C. Leong D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT-88-06-028 File # 88-2001 Page 1

SAMPLE#	AU* ppb
18800E 20250N	2
18800E 20200N	3
18800E 20150N	1
18800E 20100N	1
18800E 20050N	1
18800E 20000N	1
18800E 19950N	2
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18800E 19850N	2
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18800E 19650N	1
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18800E 19400N	1
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18800E 19250N	1
18800E 19200N	1
18800E 19150N	1
18800E 19100N	2
18800E 19050N	1
18800E 19000N	1
18800E 18950N	1
18800E 18900N	1
18800E 18850N	1
18800E 18800N	2
18800E 18750N	2
18800E 18700N	3
18800E 18650N	2
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18800E 18550N	3
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SAMPLE#	AU*
	ppb
18800E 18450N	2
18800E 18400N	1
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19000E 19750N	1
19000E 19700N	1
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19000E 19350N	1
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SAMPLE#	AU*
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19000E 18800N	1
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19000E 18400N	1
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19200E 19750N	1
19200E 19700N	1
19200E 19650N	2
19200E 19600N	1

NORANDA EXPLORATION PROJECT-88-06-028 FILE # 88-2001 Page 4

SAMPLE#	AU*
	ppb
19200E 19550N	2
19200E 19500N	1
19200E 19450N	1
19200E 19400N	1
19200E 19350N	1
19200E 19300N	2
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19200E 18950N	2
19200E 18900N	1
19200E 18850N	2
19200E 18800N	3
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19200E 18650N	1
19200E 18600N	2
19200E 18550N	2
19200E 18500N	1
19200E 18450N	1
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19200E 18350N	1
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19400E 20300N	1
19400E 20250N	2
19400E 20200N	1
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19400E 20100N	2
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SAMPLE#	AU*
	ppb
19400E 19950N	3
19400E 19900N	2
19400E 19850N	1
19400E 19800N	2
19400E 19750N	1
19400E 19700N	2
19400E 19650N	3
19400E 19600N	1
19400E 18550N	1
19400E 18500N	3
19600E 20600N	2
19600E 20550N	2
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19600E 20450N	4
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19600E 20350N	2
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19600E 20250N	1
19600E 20200N	1
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19600E 20050N	1
19600E 20000N	1
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19600E 19750N	4
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19600E 19650N	4
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19800E 20600N	1
19800E 20550N	1
19800E 20500N	1
19800E 20450N	1
19800E 20400N	2

SAMPLE#	AU*
	ppb
19800E 20350N	3
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19800E 20250N	1
19800E 20200N	1
19800E 20150N	1
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20000E 20200N	1
20000E 20150N	2
20000E 20100N	1
20000E 20050N	1
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20000E 19950N	1
20000E 19900N	1

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:FORBIDDEN PLATEAU

CODE :8806-028

Project No. : 167 Sheet: 1 of 4 Date rec'd: JUN09
 Material : 208 SOILS Geol.: C.F. Date compl: JUN15
 Remarks :

Values in PPM, except where noted.

T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	As	Mo
2	18800E-17900N	120	88	2	0.2	6	2
3	17950	140	86	1	0.6	6	1
4	18000	120	110	1	0.6	12	1
5	18050	150	98	1	0.4	10	1
6	18100	96	100	1	0.6	14	1
7	18150	74	82	1	0.2	8	1
8	18200	90	80	1	0.2	10	1
9	18250	130	110	1	0.6	8	1
10	18300	120	96	1	0.4	10	1
11	18350	76	84	4	0.2	12	1
12	18400	94	92	2	0.2	18	1
13	18450	96	120	1	0.6	12	1
14	18500	80	96	1	0.4	4	1
15	18550	110	120	1	0.4	36	1
16	18600	78	130	2	0.2	8	1
17	18650	64	92	1	0.2	2	1
18	18700	130	100	1	0.4	16	2
19	18750	120	120	1	0.4	8	1
20	18800	78	110	2	0.2	6	2
21	18850	64	96	2	0.2	2	1
22	18900	98	84	2	0.2	8	1
23	18950	120	100	1	0.6	8	2
24	19000	68	86	1	0.4	1	1
25	19050	110	92	1	0.4	12	1
26	19100	150	110	1	0.6	6	1
27	19150	130	110	1	0.6	1	1
28	19200	82	100	1	0.4	10	1
29	19250	100	100	46	0.6	6	1
30	19300	120	140	1	0.6	16	1
31	19350	140	140	2	0.4	20	1
32	19400	78	78	1	0.2	8	1
33	19450	70	70	1	0.2	4	1
34	19500	110	110	1	0.6	4	1
35	19550	130	130	1	0.6	18	1
36	19600	76	76	2	0.6	18	1
37	19650	100	100	1	0.4	28	1
38	19700	120	120	1	0.6	26	1
39	19750	130	130	1	0.6	38	1
40	19800	130	130	1	0.6	42	1
41	19850	62	62	1	0.4	6	1
42	19900	68	68	1	0.6	4	1
43	19950	52	52	1	0.6	2	1
44	20000	74	74	2	0.6	8	1
45	20050	36	36	4	0.4	8	1
46	20100	140	140	6	0.4	2	1
47	20150	72	72	1	0.2	8	1
48	20200	52	52	2	0.4	8	1
49	18800E-20250N	120	120	84	0.2	10	1

T. T.
No.

SAMPLE

BB06-02B
Pg. 2 of 4

	SAMPLE No.	Cu	Zn	Pb	Ag	As	Mo
50	19000E-18000N	110	110	1	0.8	1	1
51	18050	110	110	1	0.6	8	1
52	18150	66	66	1	0.4	1	1
53	18200	94	94	1	0.6	4	1
54	18250	120	120	1	0.6	6	1
55	18300	98	98	1	0.6	6	1
56	18350	30	30	1	0.2	8	1
57	18400	74	74	1	0.4	12	1
58	18450	78	78	1	0.2	12	1
59	18500	36	36	1	0.2	18	1
60	18550	110	110	2	0.4	18	1
61	18600	120	78	1	0.2	16	2
62	18650	42	48	4	0.2	18	1
63	18700	120	120	1	0.6	16	1
64	18750	190	110	1	0.6	24	1
65	18800	150	140	1	0.6	14	1
66	18850	62	80	4	0.2	16	1
67	18900	88	110	1	0.4	14	1
68	18950	140	68	1	0.8	18	1
69	19000	140	100	1	0.6	24	1
70	19050	110	120	1	0.6	18	1
71	19100	64	96	2	0.2	26	1
72	19150	70	110	1	0.2	24	1
73	19200	110	120	1	0.4	30	1
74	19250	76	100	1	0.6	26	1
75	19300	140	98	1	0.6	36	1
76	19350	94	110	1	0.4	10	1
77	19400	94	110	1	0.6	28	1
78	19450	98	110	1	0.4	16	1
79	19500	86	110	1	0.6	14	1
80	19550	160	88	1	0.6	30	1
81	19600	110	110	1	0.6	20	1
82	19650	170	90	1	0.6	26	1
83	19700	110	110	1	0.8	22	1
84	19750	92	110	1	0.4	28	1
85	19800	84	140	1	0.6	26	1
86	19850	86	120	1	0.6	18	1
87	19900	62	160	1	0.6	16	1
88	20000	94	94	1	0.4	16	1
89	20050	120	120	2	0.6	30	1
90	20100	98	96	1	0.4	70	1
91	20150	72	170	1	0.6	60	2
92	20200	22	76	1	0.2	20	1
93	19000E-20250N	12	54	6	0.2	14	1
94	19200E-18300N	58	90	1	0.2	10	1
95	18350	54	92	1	0.2	8	1
96	18400	70	120	6	0.4	18	1
97	18450	18	60	1	0.2	6	1
98	18500	66	100	1	0.2	1	1
99	19200E-18550N	52	110	1	0.4	18	1
00	CHECK NL-5	52	140	62	1.0	86	20
101	19200E-19100N	80	110	6	0.4	22	1
102	18600	52	110	1	0.4	22	1
103	18650	52	92	1	0.2	12	1
104	18700	62	82	2	0.6	16	1
105	18800	72	130	1	0.4	18	1
106	19200E-18850N	180	88	1	0.8	14	1

T.

SAMPLE

BB06-02B

No.	No.	Cu	Zn	Pb	Ag	As	Mo	Pg. 3 of 4
07	19200E-18900N	120	120	1	0.8	10	1	
108	18950	190	120	1	0.8	6	1	
109	19000	120	96	1	0.6	4	1	
110	19050	130	98	2	0.6	10	1	
111	19150	46	70	2	0.2	6	1	
112	19200	100	120	1	0.8	12	1	
113	19250	92	130	2	0.8	20	1	
114	19300	130	110	2	0.6	26	1	
115	19350	52	110	4	0.4	14	1	
116	19400	140	94	1	0.6	18	1	
117	19450	130	100	1	0.6	8	1	
118	19500	98	86	1	0.4	4	1	
119	19550	50	110	1	0.4	4	1	
120	19600	62	110	1	0.8	4	1	
121	19650	140	94	1	1.0	18	1	
122	19700	86	120	2	0.2	12	1	
123	19750	150	120	1	0.6	20	1	
124	19800	72	120	2	0.4	16	1	
125	19850	82	110	1	0.4	36	1	
126	19900	26	110	6	0.2	14	1	
127	19950	88	140	1	0.4	26	1	
128	20000	90	98	1	0.4	70	1	
129	20050	60	150	1	0.4	78	1	
130	20100	60	150	2	0.2	46	1	
131	20150	90	84	1	0.4	52	1	
132	20200	56	130	1	0.4	22	1	
133	20250	84	160	1	0.6	44	1	
134	20300	58	52	1	0.2	48	2	
135	20350	76	130	1	0.6	48	2	
136	19200E-20400N	42	86	1	0.2	26	1	
137	19400E-19500N	100	140	1	0.6	14	1	
138	19550	82	110	1	0.2	28	1	
139	19600	66	86	1	0.2	16	1	
140	19650	150	120	1	1.0	40	1	
141	19700	110	110	1	0.4	16	1	
142	19750	62	72	1	0.2	6	1	
143	19800	70	130	1	0.6	10	1	
144	19850	130	88	1	0.6	40	1	
145	19900	76	98	1	0.4	36	1	
146	19950	90	110	2	0.6	40	1	
147	20000	98	86	2	0.6	70	1	
148	20050	46	100	2	0.2	36	1	
149	20100	62	80	2	0.2	28	1	
2	20150	66	92	1	0.4	26	1	
3	20200	32	90	2	0.4	10	1	
4	20250	52	86	1	0.2	18	1	
5	20300	48	100	1	0.2	20	1	
6	20350	48	100	2	0.2	26	1	
7	20400	50	90	1	0.2	38	1	
8	20450	18	88	2	0.2	20	1	
9	19400E-20500N	100	86	1	0.4	52	1	
10	19600E-19600N	86	92	2	0.2	16	1	
11	19650	200	72	1	0.2	10	2	
12	19700	92	130	1	0.4	8	2	
13	19750	44	100	1	0.4	10	1	
14	19800	98	110	1	0.4	14	1	
15	19600E-19850N	58	120	1	0.6	6	1	

T. T.

SAMPLE

8806-028

No.	No.	Cu	Zn	Pb	Ag	As	Mo	Pg. 4 of 4
16	19600E-19900N	110	140	1	0.4	50	1	
17	19950	42	90	1	0.2	30	1	
18	20000	26	64	1	0.2	16	1	
19	20050	22	76	2	0.2	24	1	
20	20100	100	84	1	0.6	36	1	
21	20150	52	78	12	0.4	30	2	
22	-20200	92	120	6	0.6	34	2	
23	20250	24	76	2	0.4	16	1	
24	20300	12	130	4	0.2	6	1	
25	20350	10	80	4	0.2	8	1	
26	20400	28	94	2	0.2	24	1	
27	20450	58	78	6	0.2	30	1	
28	20500	24	68	2	0.4	18	1	
29	20550	6	64	2	0.4	8	1	
30	19600E-20600N	68	90	1	0.4	48	1	
31	19800E-19750N	70	120	1	0.6	8	2	
32	19800	190	84	1	0.4	8	1	
33	19850	130	88	1	0.4	6	2	
34	19900	120	90	1	0.4	20	2	
35	19950	92	120	1	0.4	46	1	
36	20000	66	88	1	1.0	22	1	
37	20050	120	200	4	0.4	50	2	
38	20100	76	94	1	0.4	42	2	
39	20150	38	130	1	0.4	26	1	
40	20200	56	110	2	0.4	28	1	
41	20250	34	74	1	0.4	14	1	
42	20300	38	64	1	0.4	12	1	
43	20350	34	68	1	0.4	14	1	
44	20400	16	80	1	0.4	4	1	
45	20450	70	110	1	0.4	26	1	
46	20500	6	40	1	0.4	6	1	
47	20550	42	82	2	0.4	28	1	
48	19800E-20600N	6	36	1	0.4	8	1	
49	20000E-19900N	120	82	1	0.6	130	1	
50	19950	76	100	1	0.6	46	2	
51	20000	54	74	1	0.4	26	2	
52	20050	60	140	1	0.4	38	2	
53	20100	24	100	1	0.4	14	2	
54	20150	46	70	1	0.4	28	1	
55	20200	28	70	1	0.4	14	1	
56	20250	14	60	2	0.4	6	2	
57	20300	10	48	1	0.2	2	1	
58	20350	6	42	1	0.2	2	1	
59	20400	16	62	1	0.4	12	2	
60	20450	6	50	1	0.4	2	1	
61	20500	32	56	1	0.2	24	2	
62	20550	6	54	1	0.2	8	1	
63	20000E-20600N	6	58	100	0.2	8	1	

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:FORBIDDEN PLATEAU

CODE :8806-042

Project No. :167 Sheet: 1 of 5 Date rec'd: JUN. 14
 Material :201 SOILS & Geol.: CF/RW Date compl: JUN. 20
 Remarks :23 SILTS & 5 PANS

Values in PPM, except where noted.

T.	SAMPLE	No.	Cu	Zn	Pb	Ag	As	Mo
2	SOIL	17502	22	54	1	0.2	1	2
3		17503	60	110	4	0.2	6	2
4		17504	120	120	2	0.2	4	2
5		17505	62	190	1	0.2	1	2
6		17506	60	150	4	0.2	2	2
7		17507	32	120	6	0.2	1	2
8		17508	98	370	1	0.4	1	2
9		17509	80	160	1	0.2	8	2
10		17510	50	110	1	0.2	8	2
11		17511	46	82	1	0.2	20	2
12		17512	52	96	1	0.2	2	1
13		17513	26	64	2	0.2	2	1
14		17514	10	64	1	0.2	1	1
15		27601	88	140	1	0.2	1	2
16		27602	170	90	1	0.2	1	2
17		28176	58	98	1	0.2	8	2
18		28177	100	92	1	0.2	12	2
19		28178	92	66	1	0.2	2	2
20		28179	110	66	1	0.2	1	2
21		28180	110	120	1	0.4	1	2
22		28181	180	88	1	0.2	1	2
23		28182	96	110	1	0.2	6	2
24		28185	78	100	2	0.2	56	2
25		28186	86	98	4	0.2	38	2
26		28187	90	86	2	0.2	26	1
27		28188	54	82	4	0.2	36	1
28		28189	84	100	1	0.2	60	2
29		28190	92	92	6	0.2	22	2
30		28191	140	120	2	0.4	26	2
31		28192	72	100	2	0.2	48	2
32		28193	160	88	2	0.2	6	2
33		28194	110	100	2	0.2	54	2
34		28195	120	92	1	0.2	20	2
35		28196	110	120	1	0.4	10	2
36		28197	80	120	1	0.2	150	2
37		28198	130	94	1	0.2	100	2
38		28199	110	160	1	0.2	6	2
39		28200	120	100	1	0.2	14	4
40		28201	110	110	2	0.4	6	2
41		28202	56	90	1	0.2	46	2
42		28203	74	140	1	0.4	14	2
43		28204	170	82	1	0.2	22	4
44		28212	62	150	1	0.2	46	2
45		28213	2	22	1	0.2	6	2
46		28214	14	88	1	0.2	2	2
47		28215	48	100	1	0.2	84	2
48		28216	36	72	4	0.2	94	4
49	SOIL	28217	78	200	2	0.2	310	4

T. T.	SAMPLE	No.	Cu	Zn	Pb	Ag	As	Mo
50	SOIL	28218	40	96	1	0.2	32	2
51		28219	98	110	1	0.2	170	2
52		28226	140	110	1	0.6	2	1
53		28227	72	88	4	0.2	30	1
54		28228	100	100	1	0.2	26	2
55		28229	90	120	1	0.4	42	2
56		28230	150	130	1	0.4	40	2
57		28231	48	80	2	0.2	24	2
58		28232	140	110	2	0.4	100	2
59		28233	140	180	18	0.2	450	4
60		28234	140	72	2	0.2	34	2
61		28235	82	120	1	0.4	1	4
62		28236	130	82	1	0.2	1	2
63		28237	150	110	1	0.2	10	2
64		28238	130	90	1	0.2	440	2
65		28239	80	100	8	0.2	4	2
66		28240	170	94	1	0.4	1	2
67		28241	100	140	1	0.4	1	2
68		28242	140	94	1	0.4	1	2
69		28243	78	94	1	0.4	1	2
70		28244	110	86	1	0.6	1	2
71		28245	140	94	1	0.2	1	2
72		28246	130	130	1	0.4	1	2
73		28247	140	98	1	0.2	1	2
74		28248	200	90	1	0.2	1	2
75		28249	210	88	1	0.2	1	2
76		43012	94	84	1	0.2	10	2
77		43852	46	80	1	0.2	2	2
78		43853	4	44	1	0.2	1	2
79		43854	28	68	1	0.2	12	2
80		43855	32	86	1	0.2	34	2
81		43856	38	110	1	0.2	20	1
82		43857	66	300	1	0.2	10	2
83		43858	100	180	1	0.2	260	2
84		43859	92	120	1	0.2	12	2
85		43860	82	150	2	0.2	4	2
86		43861	70	64	4	0.2	2	2
87		43983	36	70	1	0.2	6	2
88		43984	88	72	1	0.2	28	2
89		43985	96	58	1	0.2	4	2
90		43986	72	90	1	0.2	20	2
91		43987	60	64	1	0.2	12	2
92		43988	90	62	1	0.2	2	2
93		43989	68	74	1	0.2	6	2
94		43990	82	78	1	0.2	20	2
95		43991	120	110	1	0.2	2	2
96		43992	150	94	1	0.2	8	1
97		43993	220	72	2	0.2	2	2
98		43994	64	120	1	0.2	4	2
99		43995	180	74	1	0.2	30	2
00	CHECK NL-6		52	140	62	1.0	100	22
101		43996	58	180	2	0.2	4	2
102		43997	170	80	1	0.2	10	2
103		43998	100	130	1	0.2	1	2
104		43999	78	140	1	0.2	1	2
105		44000	52	100	1	0.2	1	1
106	SOIL	44051	160	86	1	0.2	2	1

		SAMPLE	No.	Cu	Zn	Pb	Ag	As	Mo	
07	SOIL	44052	100	92	1	0.2	10	2		
08		44053	100	72	1	0.2	8	12		
09		44054	130	78	1	0.2	32	12		
10		44055	90	60	1	0.2	12	11		
11		44056	110	70	1	0.2	10	11		
12		44057	94	60	1	0.2	4	11		
13		44058	100	66	1	0.2	4	11		
14		44059	68	74	1	0.2	1	11		
15		44060	130	86	1	0.2	6	12		
16		44061	150	120	1	0.2	18	22		
17		44062	110	78	2	0.2	12	11		
18		44063	40	62	1	0.2	1	11		
19		44064	130	86	1	0.2	2	11		
20		44065	160	76	1	0.2	1	11		
21		44066	180	82	8	0.2	1	22		
22		44067	110	80	1	0.2	1	22		
23		44068	110	92	1	0.2	1	22		
24		44069	130	88	1	0.2	1	22		
25		44070	130	100	1	0.2	1	22		
26		44071	140	66	1	0.2	1	22		
27		44072	150	140	1	0.2	4	22		
28		44073	130	82	1	0.2	2	22		
29		44074	86	110	1	0.2	100			
30		44075	20	60	1	0.2	40			
31		44076	42	150	2	0.2	2	11		
32		44077	170	90	1	0.2	10	11		
33		44078	140	94	1	0.2	1	22		
34		44079	140	100	1	0.2	1	22		
35		44080	110	110	1	0.2	1	22		
36		44081	130	86	2	0.2	1	22		
37		44082	100	84	1	0.2	1	22		
38		44083	130	98	1	0.2	1	22		
39		44084	140	76	1	0.2	1	22		
40		44085	100	94	1	0.2	1	22		
41		44086	130	54	1	0.2	4	22		
42		44087	82	74	1	0.2	1	11		
43		44088	62	72	1	0.2	1	22		
44		44089	88	70	1	0.2	52			
45		44090	110	74	1	0.2	1	22		
46		44091	66	80	1	0.2	1	11		
47		44092	100	100	1	0.2	1	22		
48		44093	140	72	1	0.2	2	24		
49		44094	120	72	1	0.2	1	22		
50		44095	120	74	1	0.4	1	24		
51		44096	120	64	1	0.4	2	22		
52		44097	98	72	1	0.4	1	22		
53		44101	110	140	1	0.4	4	22		
54		44102	78	120	6	0.4	26			
55		44103	220	80	1	0.4	14			
56		44104	120	110	1	0.4	10			
57		44105	94	78	2	0.4	24			
58		44106	120	100	1	0.4	8			
59		44107	170	74	2	0.2	66			
60		44108	98	110	2	0.4	30			
61		44109	120	120	1	0.4	40			
62		44110	72	82	4	0.4	26			
63	SOIL	44111	98	110	2	0.4	58			

T.T.

SAMPLE

8806-042

No.		No.	Cu	Zn	Pb	Ag	As	Mo	Pg. 4 of 5
16	SOIL	44112	100	120	4	0.2	64	2	
17		44113	50	84	1	0.2	28	2	
18		44114	120	86	2	0.2	32	2	
19		44115	90	120	2	0.4	30	2	
20		44116	56	120	2	0.4	16	2	
21		44117	64	84	2	0.4	16	1	
22		44118	68	64	1	0.4	12	1	
23		44119	100	64	1	0.2	26	1	
24		44120	50	72	2	0.4	12	1	
25		44121	94	90	2	0.2	22	2	
26		44122	86	120	2	0.4	46	1	
27		44123	68	98	2	0.4	38	1	
28		44124	90	120	2	0.2	50	2	
29		44125	50	74	1	0.2	8	2	
30		44126	60	100	6	0.4	8	1	
31		44151	88	86	4	0.4	210	4	
32		44152	78	84	8	0.4	1200	4	
33		44153	48	120	6	1.0	450	2	
34		44154	52	44	4	0.4	160	2	
35		44155	80	130	4	1.0	68	2	
36		44156	150	84	1	0.2	1	1	
37		44157	120	82	2	0.4	1	1	
38		44158	170	82	2	0.4	1	1	
39		44159	52	100	1	0.4	1	1	
40		44160	96	70	1	0.4	4	1	
41		44161	70	92	8	0.2	140	1	
42		44162	70	120	1	0.4	40	1	
43		44163	130	130	2	0.2	160	2	
44		44164	140	160	2	0.4	78	2	
45		44165	40	68	4	0.2	92	2	
46		44166	92	120	2	0.2	110	2	
47		44167	120	80	1	0.2	80	2	
48		44168	100	100	2	0.4	62	2	
49		44169	78	120	1	0.4	46	2	
50		44170	110	76	1	0.2	72	2	
51		44171	120	98	4	0.4	68	2	
52		44172	100	78	1	0.2	36	2	
53		44173	88	130	1	0.2	26	1	
54		44174	110	120	1	0.2	16	2	
55	SOIL	44175	72	84	1	0.2	8	2	
56	SILT	17501	100	100	1	0.2	6	2	
57		17515	76	100	2	0.2	28	2	
58		17516	110	98	2	0.2	46	2	
59		27731	90	100	2	0.2	96	2	
60		27732	68	78	1	0.2	60	2	
61		28153	120	92	1	0.2	4	4	
62		28154	100	72	1	0.2	24	2	
63		28183	70	66	1	0.2	46	1	
64		28206	120	88	1	0.2	6	2	
65		28211	140	92	1	0.2	12	2	
66		28221	140	88	1	0.2	34	2	
67		28222	110	82	1	0.2	8	2	
68		28223	140	100	1	0.2	4	2	
69		42013	120	86	1	0.2	24	2	
70		42015	86	70	1	0.2	10	2	
71		43006	94	96	1	0.2	16	1	
72		43007	170	140	1	0.2	50	2	

T.T. SAMPLE

8806-042

Pg. 5 of 5

No.	Cu	Zn	Pb	Ag	As	Mo
73	43008	200	130	1	0.2	84
74	43851	140	90	1	0.2	12
75	44127	42	50	1	0.2	44
76	44129	130	94	1	0.2	1
77	44131	74	84	1	0.2	130
78	SILT	44133	78	74	1	0.2
					64	2

T.T. SAMPLE weight PPB

No.	No.	(g)	Au	Cu	Zn	Pb	Ag	As	Mo
85	PAN	44130	5.4	10	24	20	1	0.4	1
86		28207	12.2	750	52	44	1	0.8	1
87		28210	29.7	230	100	100	1	0.8	1
88		28184	26.1	1400	64	68	1	0.8	8
89	PAN	42016	12.5	10	48	48	1	0.6	1

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

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

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUN 22 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: June 29/88

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: P1-P6 SOIL PULP P7 SILT PULP
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT-8806-042 167 File # 88-2155 Page 1

SAMPLE#	AU* ppb
17502	1
17503	1
17504	1
17505	1
17506	1
17507	1
17508	1
17509	1
17510	1
17511	1
17512	3
17513	1
17514	2
27601	1
27602	2
28176	1
28177	10
28178	119
28179	16
28180	1
28181	1
28182	1
28185	1
28186	1
28187	1
28188	1
28189	1
28190	2
28191	4
28192	7
28193	3
28194	8
28195	1
28196	1
28197	1
28198	1
28199	1

SAMPLE#	AU* ppb
28200	4
28201	2
28202	1
28203	2
28204	13
28212	1
28213	2
28214	1
28215	2
28216	1
28217	1
28218	1
28219	1
28226	1
28227	1
28228	1
28229	1
28230	2
28231	1
28232	1
28233	1
28234	1
28235	1
28236	1
28237	1
28238	3
28239	4
28240	4
28241	1
28242	1
28243	1
28244	2
28245	3
28246	1
28247	2
28248	7

NORANDA EXPLORATION PROJECT-8806-042 167 FILE # 88-2155 Page 3

SAMPLE#	AU*
	ppb

28249	1
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43012	1
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43852	1
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43853	1
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43854	1
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43855	10
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43856	1
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43857	1
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43858	10
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43859	1
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43860	1
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43861	1
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43983	1
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43984	1
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43985	1
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43986	1
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43987	1
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43988	4
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43989	1
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43990	1
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43991	1
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43992	2
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43993	1
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43994	1
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43995	1
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43996	1
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43997	1
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43998	1
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43999	2
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44000	1
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44051	1
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44052	1
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44053	1
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44054	2
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44055	1
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44056	1
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NORANDA EXPLORATION PROJECT-8806-042 167 FILE # 88-2155 Page 4

SAMPLE#	AU* ppb
44057	1
44058	1
44059	1
44060	1
44061	1
44062	1
44063	12
44064	14
44065	1
44066	1
44067	1
44068	1
44069	7
44070	1
44071	1
44072	5
44073	1
44074	1
44075	1
44076	1
44077	1
44078	4
44079	3
44080	45
44081	1
44082	7
44083	2
44084	1
44085	1
44086	1
44087	1
44088	1
44089	2
44090	1
44091	1
44092	1

SAMPLE#	AU*
	ppb

44093	1
44094	5
44095	2
44096	2
44097	1
44101	1
44102	4
44103	1
44104	1
44105	1
44106	1
44107	3
44108	1
44109	1
44110	1
44111	2
44112	6
44113	1
44114	5
44115	7
44116	1
44117	4
44118	1
44119	2
44120	1
44121	25
44122	3
44123	1
44124	1
44125	2
44126	1
44151	1
44152	1
44153	1
44154	1
44155	2

NORANDA EXPLORATION PROJECT-8806-042 167 FILE # 88-2155 Page 6

SAMPLE#	AU* ppb
44156	1
44157	2
44158	1
44159	5
44160	1
44161	1
44162	1
44163	1
44164	1
44165	4
44166	1
44167	1
44168	1
44169	2
44170	1
44171	1
44172	1
44173	1
44174	3
44175	41

SAMPLE#	AU* ppb
17501	1
17515	1
17516	1
27731	1
27732	1
28153	1
28154	13
28183	1
28206	15
28211	1
28221	18
28222	1
28223	1
42013	2
42015	2
43006	1
43007	1
43008	3
43851	6
44127	1
44129	56
44131	1
44133	8

GEOCHEMICAL ANALYSIS CERTIFICATE

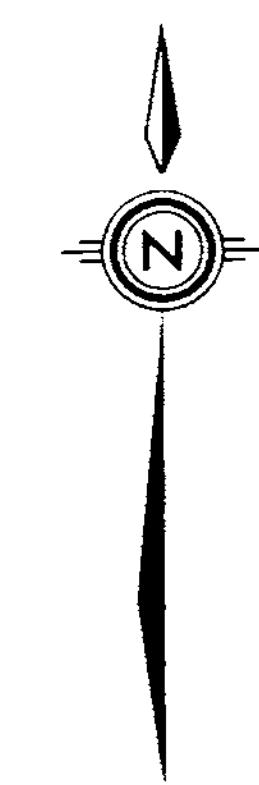
ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN PB CA P LA CR KG BA TI B V AND LIMITED FOR MA X AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK Au² ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 14 1988

DATE REPORT MAILED: June 17/88 ASSAYER: C. Hung D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT-8806-042 167 File # 88-1976

SAMPLE#	No	Cu	Pb	Zn	Ag	Mn	Co	Mn	Fe	As	U	Au	Th	Sc	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Xa	X	Au ²	
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM								
27733	2	37	18	45	.1	16	10	525	5.02	51	5	ND	1	57	1	2	2	43	.19	.033	2	16	.33	40	.01	1	.90	.01	.13	2	3
28152	1	233	2	60	.2	23	15	398	4.59	2	6	ND	1	16	2	2	2	106	2.58	.055	7	10	.92	5	.65	8	2.13	.03	.01	1	7
28205	1	379	7	117	1.5	35	21	1134	5.59	100	5	ND	1	28	2	172	2	99	5.49	.040	2	34	1.72	13	.01	9	.36	.01	.04	2	1
28208	1	596	5	149	.6	60	38	1273	9.99	125	10	ND	1	44	1	35	6	197	3.79	.045	7	56	1.38	52	.01	22	.55	.01	.09	1	1
28209	1	17	4	166	.1	62	56	2231	17.63	5	5	ND	2	19	1	2	3	245	.75	.077	10	81	.82	18	.01	14	.54	.02	.07	1	1
28220	1	16	5	42	.1	17	11	787	2.96	24	5	ND	1	28	1	2	2	31	1.38	.017	3	10	.07	42	.01	3	.42	.01	.12	1	1
28221	1	274	4	47	.1	26	43	1908	4.81	46	5	ND	1	45	1	2	2	97	1.38	.037	5	82	.20	19	.01	7	.49	.01	.02	2	1
28225	1	84	11	95	.2	36	26	1439	7.12	62	6	ND	1	47	1	27	2	143	6.55	.050	5	44	2.39	16	.01	10	.58	.01	.05	1	2
28250	1	102	9	70	.9	30	58	2255	30.43	4	5	ND	3	21	1	2	3	321	1.53	.174	14	49	.76	32	.01	11	.81	.01	.02	1	1
43002	1	118	2	47	.4	26	18	613	4.29	9	5	ND	1	16	2	2	2	131	4.08	.033	4	26	1.16	7	.42	4	2.95	.02	.01	2	3
43004	1	158	4	24	.2	15	8	412	2.62	2	5	ND	1	8	2	2	2	88	4.71	.040	3	9	.29	2	.48	2	2.37	.03	.01	1	1
43008	1	259	4	141	.1	79	46	1388	12.00	2	7	ND	1	38	1	2	2	324	1.04	.069	9	73	3.61	54	.06	4	5.31	.12	.06	1	1
43011	1	22	5	52	.1	12	9	893	1.98	60	5	ND	1	4	1	3	2	23	.18	.020	2	6	.08	28	.01	12	.54	.01	.07	2	1
43976	1	101	2	40	.1	29	12	647	2.54	2	7	ND	1	15	2	2	2	73	4.75	.030	2	20	.60	44	.36	4	2.63	.02	.02	2	1
43977	1	65	3	13	.3	19	8	273	1.60	3	5	ND	1	12	3	2	2	63	5.48	.017	2	35	.30	5	.25	4	2.99	.01	.01	1	1
43978	1	217	2	11	.1	13	4	190	1.62	2	5	ND	1	5	1	2	2	54	4.84	.013	2	10	.24	5	.16	2	2.78	.01	.01	1	2
43979	2	3	4	25	.1	1	1	500	1.01	16	5	ND	1	11	1	2	2	1	2.18	.021	20	1	.12	70	.01	14	.39	.01	.18	1	1
43980	1	44	9	53	.2	18	11	729	2.78	24	5	ND	1	30	1	8	2	33	2.93	.027	17	22	1.01	45	.01	10	.48	.01	.18	3	1
43981	1	212	3	115	.1	48	27	1269	6.90	39	7	ND	1	47	1	16	3	136	5.91	.068	9	48	2.07	44	.01	9	1.04	.01	.10	2	1
43982	4	6	2	12	.1	5	4	550	1.22	83	5	ND	1	7	1	2	5	2	1.55	.022	19	2	.06	113	.01	22	.40	.01	.18	1	1
44128	3	2	8	28	.1	1	1	458	.94	26	5	ND	2	18	1	2	2	1	2.47	.021	21	3	.32	47	.01	11	.36	.01	.20	1	3
STD C/AU-R	17	58	40	130	6.8	71	23	1077	3.92	41	14	8	36	47	16	17	21	58	.47	.093	38	60	.91	176	.07	32	1.89	.07	.15	13	480



1987 SURVEY 589

1988 SURVEY

49°42'00"N

101

348000 N

5508000 E

36HS023
S05 R

105°12'00"W

LEGEND

KARMUTSEN FORMATION

[K] Fine grained basalt, dark-gray to black in color, it contains amygdalites of white feldspar, 1 to 2 mm in size, quartz, calcite and epidote.

[Kt] Fine grained to medium grained andesite tuff gray-green to light green in color with phenocrysts of hornblende and mafic minerals 2 to 4 mm in size, occasional lapilli 5 to 6 mm in size in a feldspar rich groundmass.

NANAIMO GROUP SEDIMENTS

[C] Fine grained to coarse grained sediments composed of sandstone, siltstone, shale and coal. The sandstone is a feldspathic sandstone, light to buff brown, or reddish brown in color, bedded and occasionally contains concretions and chert nodules.

TERTIARY INTRUSIVE DIORITE

[Id] Leucodiorite, diorite to a quartz diorite composed of fine to medium grained, equigranular, subhedral to anhedral crystals. Generally plagioclase rich and consists of hornblende, biotite, and from a negligible amount up to 5% quartz.

BK Karmutsen : Basalt

T Tuff

B Breccia (Volcanic Pile Rubble)

MINERALIZATION

Chi Chloritic

Qtz Quartz

Chalco Chalcocite

Py Pyrite

Po Pyrrhotite

CuS Copper Staining

MnS Manganese Staining

— Contact, Inferred

△ Float

GEOLOGICAL BRANCH
ASSESSMENT REPORT

CONTOUR INTERVAL METRES
17.777
SCALE
1:10,000
METRES 200 100 0 200 400 600 METRES

REVISED
FORBIDDEN PLATEAU
BEVAN BLOCK
GEOLOGY
PROJ. No. 167
NTS 92E/11
DWG. No.
DATE: Feb. 1988
SURVEY BY: D.B., D.F., T.M.C.
DRAWN BY: J.Serwin
SCALE: 1:10,000
NORANDA EXPLORATION
OFFICE: VANCOUVER

