

LOC NO.	RD.
FILE NO.	

SUB-RECORDER	
RECEIVED	
NOV 22 1989	
M.R. #	\$
VANCOUVER, B.C.	

DIAMOND DRILLING PERFORMED ON THE
VAL GROUP

BPEX 1 (461) Val (857), Leech 1 (838)
Leech 3 (840) Jordon Gold 1 (731), Jordan Gold 2 (732)

VICTORIA MINING DIVISION

N.T.S. 92B/12

Latitude 48°30'30" Longitude 123°55'45"

Authors : Joan E. McCorquodale
 R.G. Wilson

Date : August 28, 1989

Owner : Beau Pre Exploration Ltd.
 Valentine Gold Corporation

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

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 INTRODUCTION.....	1
1.1 Location and Access.....	1
1.2 Physiography.....	1
1.3 Claims & Ownership.....	2
1.4 Previous Work.....	2
1.5 Work Performed.....	3
1.6 Personnel.....	3
2.0 DRILLING.....	4
2.1 Drill Targets.....	4
2.2 Drill Log Summary.....	4
2.2.1 DDH NBV 89-20.....	4
i) Results.....	4
2.2.2 DDH NBV 89-21.....	5
i) Results.....	5
3.0 INTERPRETATION.....	6

LIST OF APPENDICES

- Appendix I: Analytical Method Descriptions for Geochemical Assessment Reports
- Appendix II: Diamond Drill Logs
- Appendix III: Analysis Certificates Core Sample Geochemical Analysis
- Appendix IV: Statement of Costs
- Appendix V: Authors Qualifications
- Appendix VI: Drill Sections

LIST OF TABLES

- Table 1 : List of Claims

LIST OF FIGURES

- Figure 1 : Project Location.....1:2,500,000
- Figure 2 : Property Location.....1:250,000
- Figure 3 : Claims Location.....1:55,000
- Figure 4 : Index Map.....1:50,000
- Figure 5 : Drill Hole Locations.....1:2,000

1.0 INTRODUCTION

1.1 Location and Access

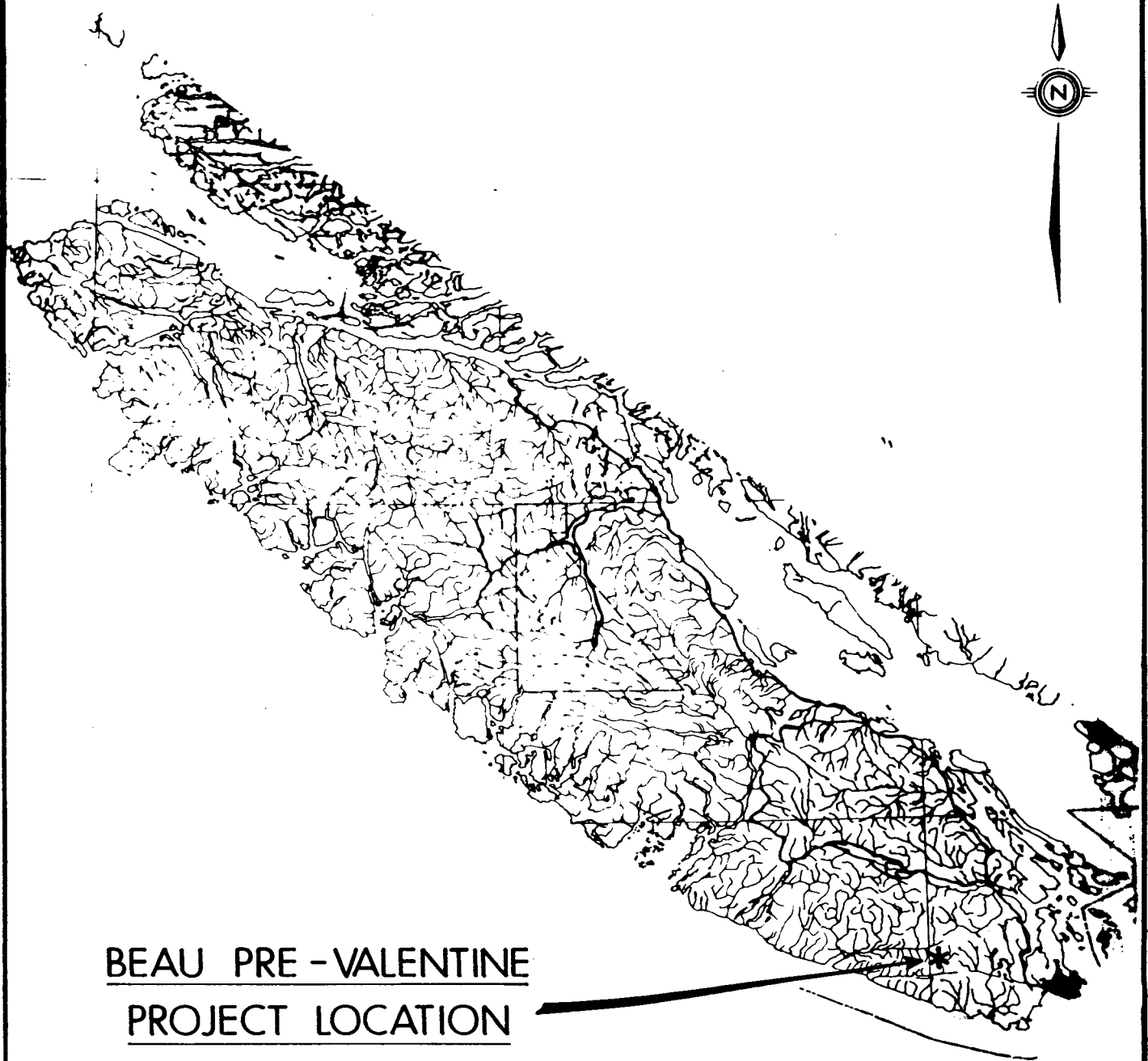
The Val Group lies approximately 23 km northwest of the township of Sooke, B.C. (Figures 1 and 2). The property is accessed from Sooke via the Butler Main and Jordan Main logging routes. Access from here to the various parts of the property is via logging roads which are generally in fair condition. Travel time from Sooke is approximately 55 minutes.

1.2 Physiography

The Val Group lies within the Vancouver Island Mountain Range in the southern portion of the Insular Belt.

The southern portion of the group is situated on the east slope of Valentine Mountain and on the north shore and slope of the Bear Creek Reservoir. The northern portion of the group is situated on the north slope of Valentine Mountain and the north side of the Jordan River Valley. The physiography of both portions consists of relatively flat valley floors with moderate to precipitous valley sides. Elevations range from 400 m, at the valley floor up to 950 m at the peak of Valentine Mountain. At the valley floors the property is buried beneath thick glacial/alluvial deposits, however, there is abundant outcrop above this elevation.

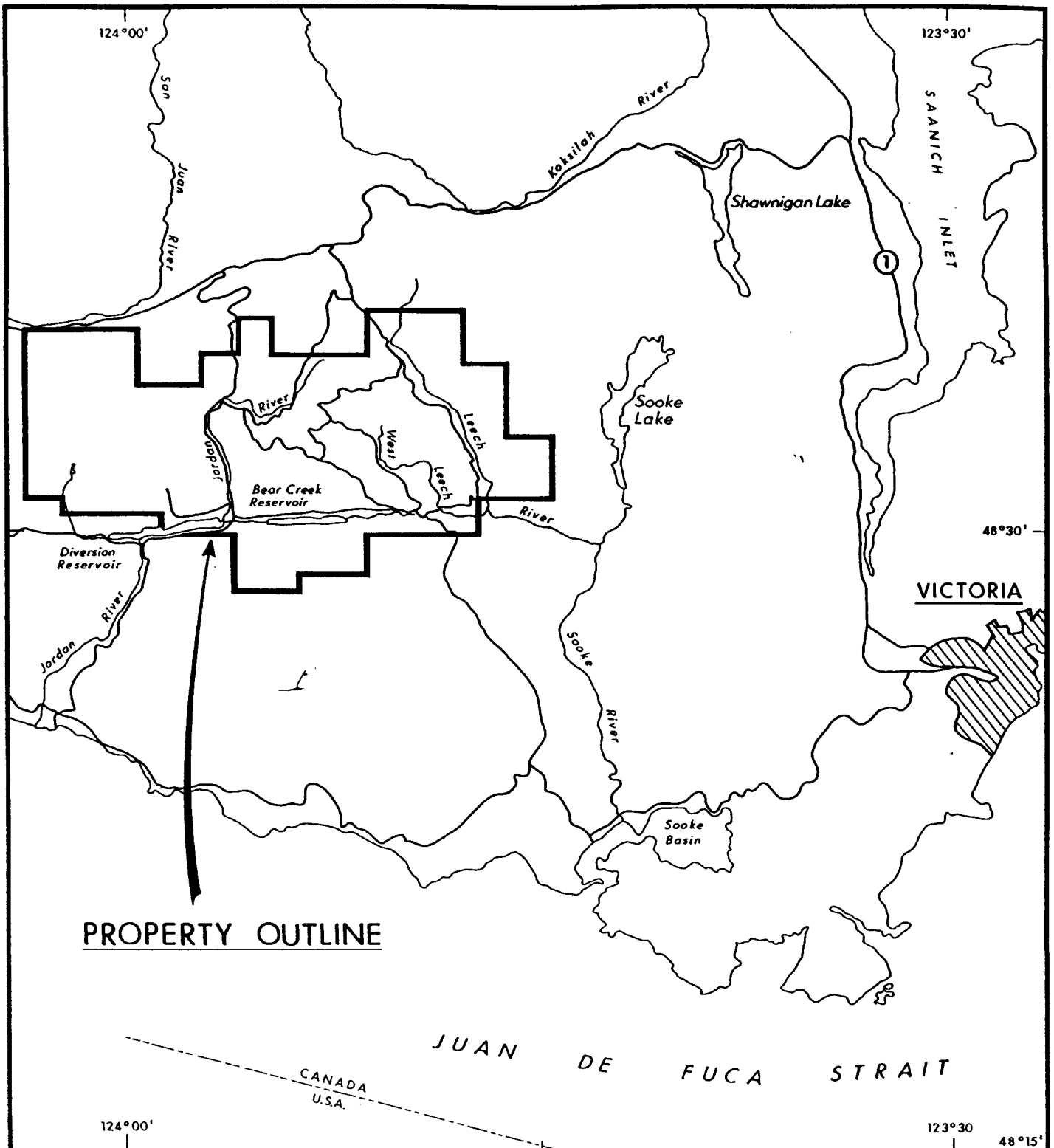
The climate in this part of Vancouver Island is generally mild. Heavy precipitation occurs mainly during the winter months, from November to March, with considerable accumulation of snow at higher elevations. The spring, summer and fall are a mixture of cool wet days and warm sunny days in approximately equal proportions. Due to the amount of snow which falls during the winter, work above the 500 m elevation cannot begin before mid-April, and above 800 m not before mid-May.



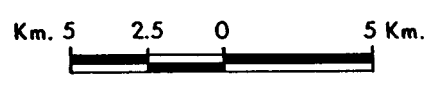
BEAU PRE - VALENTINE
PROJECT LOCATION



REVISED	BEAU PRE - VALENTINE	
	<u>PROJECT LOCATION</u>	
PROJ No <u>120</u>	SURVEY BY <u>R.W.</u>	DATE <u>JULY 1989</u>
NTS <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>	



PROPERTY OUTLINE



REVISED	BEAU PRE - VALENTINE	
	PROPERTY LOCATION	
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	

VANCAL 11927

Vegetation within the Val Group consists of a mixture of second growth forest and mature timber of cedar, hemlock and douglas fir, with sparse underbrush. Approximately 80% of the property has been clear cut logged and recently re-planted.

1.3 Claims and Ownership

The Val Group (Figure 3) consists of the following claims:

TABLE 1: List of Claims

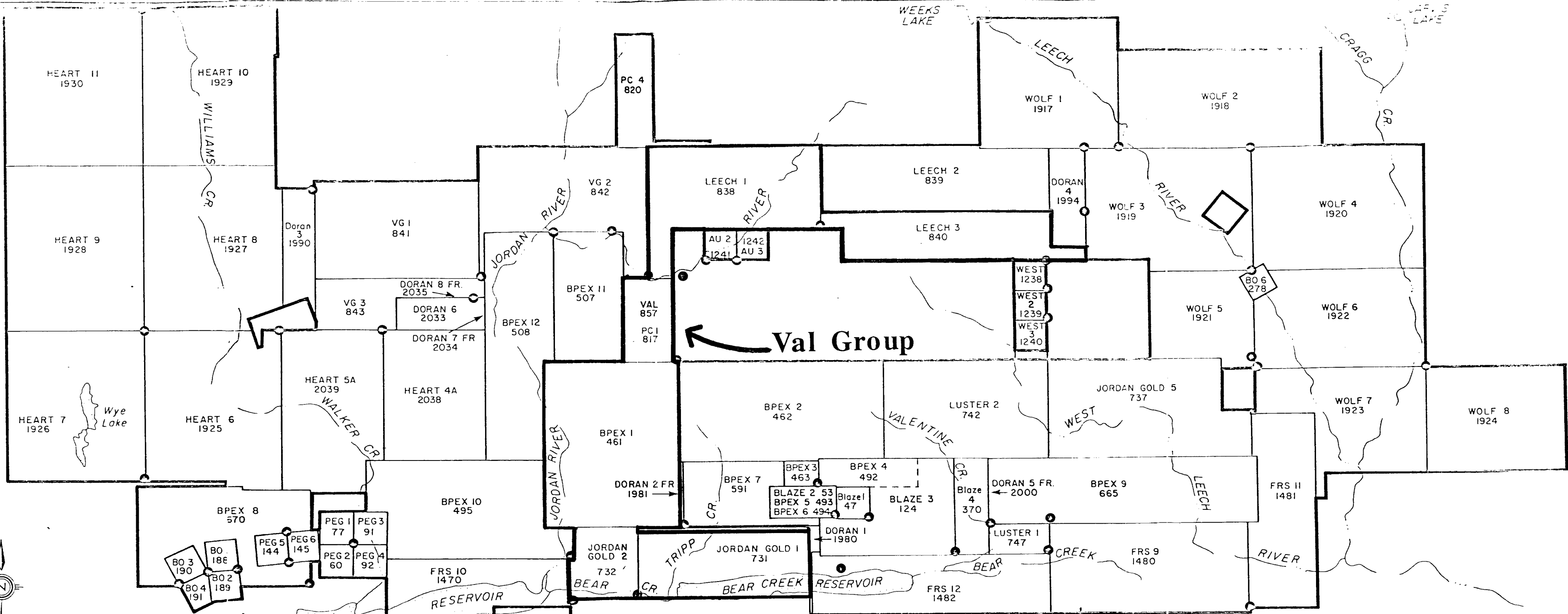
Name	Record #	Units	Due Date
BPEX 1	461	20	Feb. 6, 1993
Jordan Gold 1	731	10	Dec. 24, 1989
Jordan Gold 2	732	14	Dec. 24, 1989
Val	857	6	Apr. 11, 1990
Leech 1	838	20	Apr. 11, 1992
Leech 3	840	16	Apr. 11, 1991

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

The Leech 1 and Leech 3 claims are owned by Valentine Gold Corporation subject to a net smelter royalty payable to an original owner. These claims are also subject to a former agreement between Valentine Gold Corp., and Beau-Pre Explorations Ltd.

1.4 Previous Work

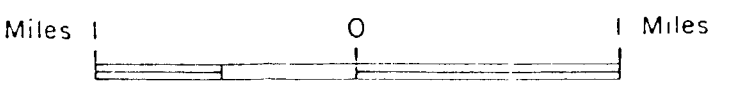
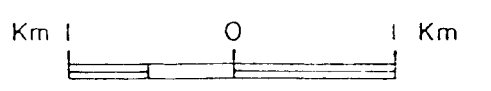
The discovery of placer gold in the Leech River in 1864 led to a major but short lived gold rush in the area. Subsequently, many of the streams flowing across the "Leech River Schists" have been shown to contain fine placer gold.



Val Group



SCALE 1:55,000



48°00'N
124°00'W

48°00'N
123°55'W

REVISED	
Claims Location	
19362	
PROJ. No. 120	SURVEY BY: DATE Oct/89
N.T.S. 92812/C9	DRAWN BY: D.S., K.P. SCALE 1:55,000
DWG. No. 3	NORANDA EXPLORATION
	OFFICE:

In 1976 native gold was found in narrow quartz veins on Valentine Mountain, approximately 42 km west of Victoria.

Since then over 85 other occurrences of native gold within quartz veins have been found within the metasedimentary rocks of the Leech River complex.

In 1987 Valentine Gold Corp. collected regional pan concentrates, silt, soil and rock samples. A soil grid (named Grid 7) was completed on the western slope of Valentine Mountain. Soils were taken every 20 metres along north-south crosslines spaced 100 metres apart, total length of grid line was 9.2 km. In 1988 Valentine Gold Corp drilled two NQ sized diamond drill holes just west of the Jordan River (DDH 88-12 and DDH 88-13). DDH 88-12 was drilled at 225° azimuth to a depth of 130.45 m and DDH 88-13 was drilled at 45° azimuth to a depth of 117.35 m. Both drill holes have the same collar site.

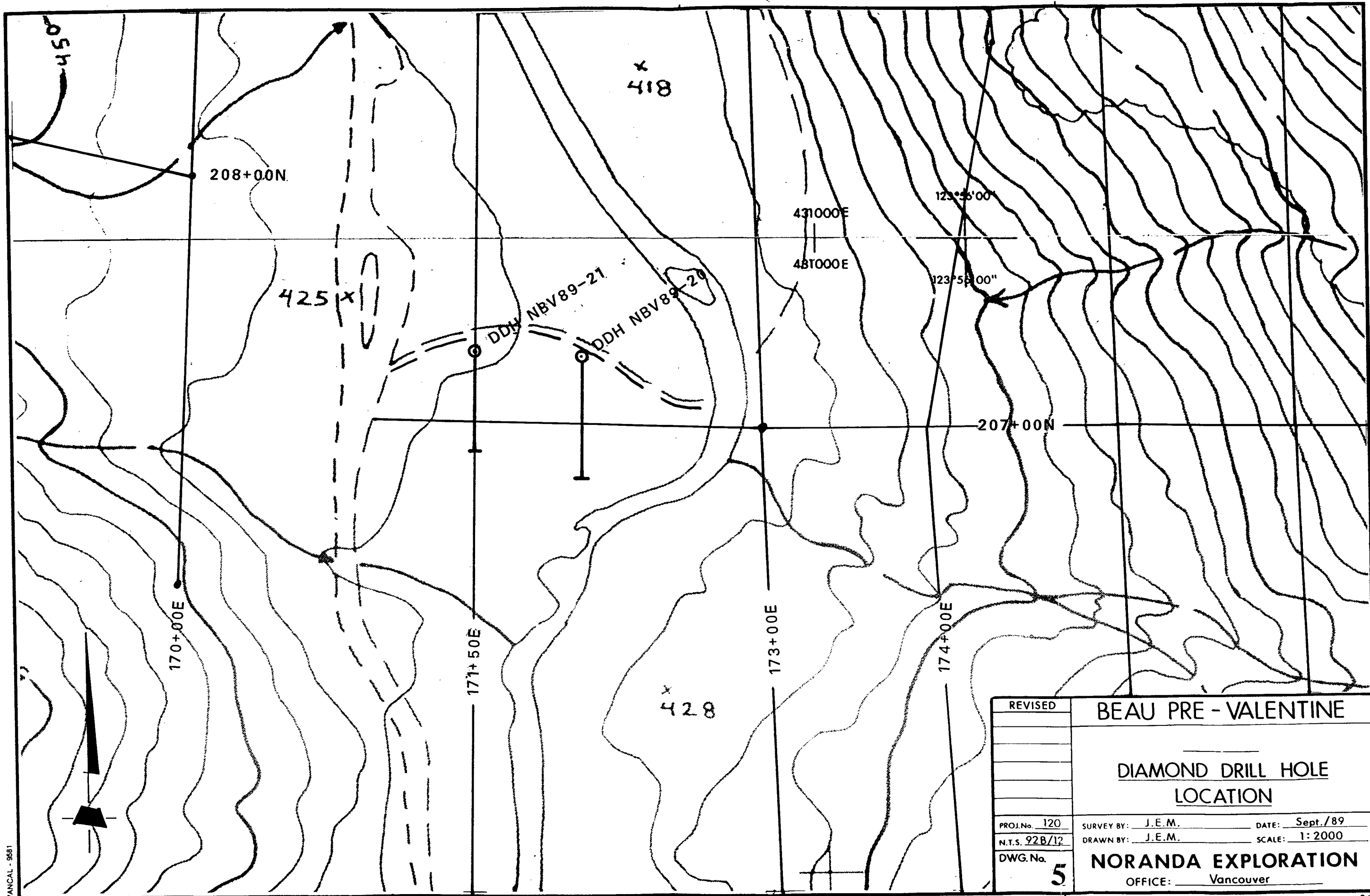
In 1989 Noranda Exploration completed geochemical and geological work on the Leech 1 and Leech 3 claims. The work is described in the assessment report entitled "Geological and Geochemical Surveys Performed on the Leech Group" by Terence J. McIntyre, June 21, 1989. Historical work on the Val Group included prospecting and minor sampling by the original vendor, Elmo K. Johnson.

1.5 Work Performed

A total of 2 holes were drilled of NQ sized (47.6 mm diameter) diamond drill core. DDH NBV 89-20 was 99.1 m in length and DDH NBV 89-21 was 111.6 m long. M & B Diamond Drilling of Powell River, B.C. was contracted to carry out drilling activities. All drilling was performed west of the Jordan River on the BPEX 1 claim (figure 5).

1.6 Personnel

The work carried out on the Val Group and the Jordan Gold Group was performed by T. McIntyre (Regional Property Party Chief), J. McCorquodale (Detailed Property Party Chief), D. Sharpe (Geologist), R.B. Singh (Fieldman).



REVISED	BEAU PRE - VALENTINE	
	DIAMOND DRILL HOLE LOCATION	
PROJ.No. 120	SURVEY BY: J.E.M.	DATE: Sept./89
N.T.S. 92B/12	DRAWN BY: J.E.M.	SCALE: 1:2000
DWG.No. 5	NORANDA EXPLORATION	
	OFFICE: Vancouver	

VAN CAL - 9581

19362

P.J.A.

2.0 DRILLING

Drilling occurred between June 25 and June 29, west of the Jordan River. Access to the drill sites is along Jordan Main logging road and is approximately 100 m east of Mile 19. The drill core is stored at Tripp Creek Excavating Ltd. Sooke, B.C. The following table shows pertinent drill parameters.

<u>Drill Hole #</u>	<u>Latitude</u>	<u>Departure</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Elev.</u>	<u>Total Depth</u>
NBV 89-20	207+39N	172+10E	180°	-45°	415m	99.1m
NBV 89-21	207+39N	171+50E	180°	-60°	415m	111.6m

=====

NBV 89-20 and NBV 89-21 were designed to intersect the same zone in which Valentine Gold Corp's DDH 88-12 contained a 3 metre intersection of 7.2 gm Au/tonne. NBV 89-20 intersected the zone 25 m E and up-dip of Valentine's 88-12 intersection and NBV 89-21 intersected the zone 25 metres west at a similar depth as 88-12.

Similar geology associated with the 3 metre section of 7.2 gm Au/tonne was intersected in NBV 89-20 and NBV 89-21 but with no elevated gold values.

Appendix I contains information sheets on the analytical methods of geochemical analysis for Acme Laboratories. Diamond drill logs are contained within Appendix II. Appendix III contains Drill Sections and Appendix IV contains core sample geochemical analysis.

2.1 Drill Log Summary

2.1.1 DDH NBV 89-20

NBV 89-20 was drilled on the valley floor west of the Jordan River. The target was to intersect the up-dip strike extension of Valentine Gold Corp's DDH 88-12 intersection of 7.2 gm Au/tonne over 3 metres.

The hole was drilled at 180° azimuth, -45° dip to a total depth of 99.1 m. It was collared at 415 m elevation with grid coordinates of 172+10 m east and 207+39 m north.

The overburden was 17.8 metres. For the total length of the hole the lithology remained amphibolite. The unit is medium to dark green in colour with moderate foliation. Amphiboles (actinolite) ranges from very fine grained to medium grained euhedral crystals. Localized biotite rich layers, 5-7% quartz stringers and sweats with <1% quartz veining occur throughout the unit. Mineralization consists of 1-2% localized disseminated sulphides; pyrite, pyrrhotite, chalcopyrite with trace arsenopyrite. An increase in quartz stringers and sweats with 3-4% finely disseminated pyrite, pyrrhotite, and minor chalcopyrite occurs at 62.8 - 63.8 m. Fault breccia and gouge with 2-3% pyrite and pyrrhotite was intersected at 76.5 - 77.8 m. An increase in biotite rich layers occurs at 77.8 - 84.4 m with up to 4% disseminated sulphides (pyrrhotite, pyrite, chalcopyrite). This interval shows similar geology to Valentine Gold Corp's 3 metre intersection of 7.2 gm Au/tonne and is at the correct projected depth of the target.

The entire hole was sampled by split core procedures. The core was split in half along the core axis with one-half being collected for analysis and the other half returned to the core box. Sample lengths were generally 1.5 metres, also lithological, mineralogical, and alteration boundaries were a factor.

A total of 54 samples were taken and analyzed by Acme Laboratories Ltd. using ICP for 30 elements and atomic absorption for Au. The results returned no anomalous gold values (<10 ppb Au).

2.1.2 NBV 89-21

NBV 89-21 was drilled on the valley floor west of the Jordan River and 60 metres west of NBV 89-20. The target was Valentine Gold Corp's DDH 88-12 intersection of 7.2 gm Au/tonne over 3 metres, 30 metres along strike.

The hole was drilled at 180° azimuth, -60° dip to a depth of 111.6 m. It was collared at 415 m elevation with grid co-ordinates of 172+50 m east and 207+39 m north.

The overburden was 25 metres. For the total length of the hole the lithology remained amphibolite. The unit is medium to dark green in colour with moderate foliation. Amphiboles (actinolite) ranges from very fine grained to medium grained euhedral crystals. Localized biotite rich layers, 5-7% quartz stringers and sweats with <1% quartz veining occur throughout the unit. Mineralization consists of 1-2% localized disseminated

sulphides, pyrite, pyrrhotite, chalcopyrite with trace arsenopyrite. An increase in biotite rich layers occurs at 75.1-82.6 m with up to 4% disseminated sulphides (pyrrhotite, pyrite, chalcopyrite). This interval shows similar geology to Valentine Gold Corp's 3 metre intersection of 7.2 gm Au/tonne and is at the correct projected depth of the target. Fault gouge and shearing with 2-3% disseminated pyrite occurs at 93.5-94.7 m and 103.3-109 m respectively.

The entire hole was sampled by split core procedures. The core was split in half along the core axis with one half being collected for analysis and the other half returned to the core box. Sample lengths were generally 1.5 metres, also lithological, mineralogical, and alteration boundaries were a factor. Before the core was split it was photographed, 3 prints taken per core box.

A total of 61 samples were taken and analyzed by Acme Laboratories Ltd. using ICP for 30 elements and atomic absorption for Au. The results returned no anomalous gold values (<13 ppb Au).

INTERPRETATIONS

Two diamond drill holes were drilled on BPEX 1 claim block, west of the Jordan River. They were both drilled due south with one dipping -45° to a depth of 99.1 m and the other dipping -60° to a depth of 111.6 m.

The target for both holes was to confirm and re-intersect Valentine Gold Corp's DDH 88-12, 3 metres of 7.2 gm Au/tonne. Noranda's DDH NBV 89-20 and NBV 89-21 did intersect similar geology at the correct projected target depths. However, no elevated gold values were discovered. There are two suggestions as to why Noranda's drill holes were non-anomalous. First suggestion being, that although everything within a 7 km radius trends east-west; e.g. foliation, Au bearing quartz veins, geological contacts, major and minor folds, this Au bearing zone of DDH 88-12 trends north-south. This seems unlikely and there is no evidence to support this suggestion. The second suggestion and most likely is that the gold mineralization does trend east-west but due to it's "spotty" and discontinuous nature the drill holes intersected the zone (similar geology) but returned non-anomalous gold values.

It is felt that the DDH 88-12 target has been adequately tested with negative results.

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 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	

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			
Arsenic	0.1 ppm			
Antimony	0.1 ppm			
Bismuth	0.1 ppm	First Element	\$4.75	All Elements \$5.50
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
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 %
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 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



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

Telephone: 253-3158

Regular Assay

Aluminum (Al)	\$ 7.00	Moisture (H2O)	\$ 5.00
Antimony (Sb)	7.00	Molybdenum (Mo)	7.00
Arsenic (As)	7.00	Molybdenum Sulfide (MoS2)	9.00
Barium (Ba)	7.00	Niobium (Nb)	10.00
Bismuth (Bi)	7.00	Nickel (Ni)	7.00
Boron (B)	7.00	Nickel (Non-sulfide)	9.00
Cadmium (Cd)	7.00	Palladium (Pd)	10.00
Calcium (Ca)	7.00	Phosphorus (P)	7.00
Carbon (Total) (C)	9.00	Platinum (Pt)	10.00
Carbon (Graphitic)*	10.00	Potassium (K)	7.00
Carbon plus Sulfur (Total)*	11.00	Rhodium (Rh)	10.00
Cerium (Ce)	10.00	Rubidium (Rb)	7.00
Chromium (Cr)	7.00	Selenium (Se)	10.00
Cesium (Cs)	10.00	Silica (SiO2)	7.00
Cobalt (Co)	7.00	Silver (Ag)	7.00
Copper (Cu)	7.00	Silver (Fire Assay)	8.50
Copper (non-sulfide)*	8.00	Sodium (Na)	7.00
Europium (Eu)	20.00	Specific Gravity* (SG)	7.00
Fluorine (F)	7.00	Strontium (Sr)	7.00
Gallium (Ga)	7.00	Sulfur (Total)* (S)	9.00
Germanium (Ge)	7.00	Sulfur (Sulfate) (S)	10.00
Gold (Au)	7.00	Tantalum (Ta)	7.00
Gold (Fire Assay)	8.50	Tellurium (Te)	10.00
Gold plus Silver (Fire Assay)	12.00	Thallium (Tl)	10.00
Indium (In)	7.00	Thorium* (Th)	7.00
Iron (Total) (Fe)	7.00	Tin (Sn)	7.00
Iron (Ferrous)*	10.00	Titanium (Ti)	7.00
Lanthanum (La)	7.00	Tungsten (W)	7.00
Lithium (Li)	7.00	Uranium (U)	7.00
Lead (Pb)	7.00	Vanadium (V)	7.00
Loss on Ignition (LOI)	2.00	Yttrium (Y)	7.00
Magnesium (Mg)	7.00	Zinc (Zn)	7.00
Manganese (Mn)	7.00	Zirconium* (Zr)	7.00
Mercury* (Hg)	7.00		

* Minimum 5 samples per batch

Other elements by Mass Spec. on request.

Multi-Element Assay Price

Arsenic, Antimony, Bismuth, Cadmium, Cobalt, Copper, Gold, Iron, Lead, Manganese, Molybdenum, Nickel, Silver, Thorium, Uranium, Zinc.

Price : First element \$7.00 Each Additional \$3.00 All 16 elements \$22.00

Whole Rock Assay Prices

SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O3, LOI.

Price : First oxide \$7.00 Each Additional \$3.50 All 12 \$9.00

Volume Discounts Available.

Special Fire Assay Prices

Gold (1/2 A/T)	\$ 8.50
Gold + Silver (1/2 A/T)	\$12.00
Gold (1 A/T)	\$10.00
Gold - native + 100 mesh	\$ 6.00
Gold, Silver, Platinum, Palladium, Rhodium (1/2 A/T)	\$22.00
Placer conc. for total precious metal or Gold + return of bead	\$15.00

APPENDIX II
DIAMOND DRILL LOGS

MORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : BEAUPRE-VALENTINE
HOLE No. : 89-20
Grid System : ORIGINAL
Collar Eastings : 17210.000
Collar Northings : 20739.000
Collar Elevations : 415.000
Collar Bearing : 180.00
Grid Baseline : 90.00

Collar Inclination : -45.00
Grid Bearing : 0.00
Final Depth : 99.10
Claim No. : BPEX 1

PAGE : 1

Logged by : JOAN MCCORQUODALE
Date : JUNE 25, 1989 - JUNE 27, 1989
Downhole Survey : ACID
Drilled By : M&B DIAMOND DRILLING
Core Size : NQ

Joan M. McCorquodale

INTERVAL(m)		MAJOR/MINOR	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	ASSAYS										
FROM	TO	UNITS			FROM	TO		Cu ppm	Zn ppm	Fe %	As ppm	Cr ppm	Au ppb	Au g/t				
0.00	17.80	OB	OVERBURDEN															
17.80	99.09	AMPH	AMPHIBOLITE Green in color, with 5-7% quartz stringer, (1% quartz veins. Amphiboles ranges from very fine grained (volcanic source) to medium euhedral amphibole rtals (re-worked calc-silicate source) local biotite rich layers, pre-dominantly associated with the calc-silicate amphibolite. Local disseminated visible sulphides Po, Py, Cpy +/- Aspy. Local fractures <0.5cm filled with quartz trending 25 degrees to ca.	DR19752	17.80	19.30	1.50	85.	22.	1.96	2.	60.	10.					
18.30	18.80	FltBx	FAULT BRECCIA Angular clasts of amph with quartz-carbonate matrix fault bx is weathered brown	DR19753	19.30	20.80	1.50	95.	26.	2.37	8.	75.	8.					
20.20	22.60	BiZone	BIOTITE RICH LAYERS Interbedded within the amph. Higher quartz carbonate and sulphide content. Medium grained amphibole crystals Disseminated sulphides.	DR19754 DR19755 DR19756 DR19757 DR19758 DR19759	20.80 22.30 23.80 25.30 26.80 28.30	22.30 23.80 25.30 26.80 28.30 29.80	1.50 1.50 1.50 1.50 1.50 1.50	77. 103. 82. 75. 78. 114.	30. 12. 17. 18. 16. 21.	2.49 1.33 1.57 1.69 1.45 2.07	2. 5. 2. 2. 2. 2.	74. 41. 57. 50. 50. 72.	1. 1. 5. 1. 5. 3.					
28.70	29.30	Silic	SILICIFICATION Zone of increased silicification, quartz stringers and bleached amphibolite. Bleached zone is tan green in colour. Finely disseminated visible sulphides. Foliation running parallel to core axis possible folding.	DR19760 DR19761 DR19762 DR19763 DR19764 DR19765 DR19766 DR19767 DR19768 DR19769 DR19770	29.80 31.30 32.80 34.30 35.80 37.30 38.80 40.30 41.80 43.30 44.80	31.30 32.80 34.30 35.80 37.30 38.80 40.30 41.80 43.30 44.80 46.30	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	114. 42. 59. 75. 76. 112. 103. 77. 83. 77. 94.	12. 14. 14. 10. 16. 15. 11. 12. 12. 14. 13.	1.46 1.30 1.18 0.98 1.42 1.39 1.16 1.18 1.21 1.35 1.46	2. 5. 2. 2. 3. 2. 2. 2. 2. 2. 2. 2.	46. 49. 43. 36. 57. 45. 42. 47. 45. 50. 41.	2. 4. 7. 1. 2. 2. 1. 1. 2. 1. 1. 1.					

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : BEAUPRE-VALENTINE

SOLE No. : 89-21

Grid System : ORIGINAL
Collar Eastings : 17150.000
Collar Northings : 20739.000
Collar Elevations : 415.000
Collar Bearing : 180.00
Grid Baseline : 90.00

Collar Inclination : -60.00
Grid Bearing : 0.00
Final Depth : 111.60
Claim No. : BPEX 1

PAGE : 1

Logged by : JOAN McCORQUODALE *Joan McCorquodale*
Date : JUNE 27, 1989 - JUNE 29, 1989
Downhole Survey : ACID
Drilled By : M&B DIAMOND DRILLING
Core Size : HQ

INTERVAL(m)		MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Zn ppm	Fe %	As ppm	Cr ppm	ASSAYS	
FROM	TO				FROM	TO							Au ppb	Au gmt
0.00	25.00	OB	OVERBURDEN											
25.00	111.59	AMPH	AMPHIBOLITE Green in color. 5-7% quartz stringers, <1% quartz veins. Amphiboles (actinolite) ranges from very fine grained of volcanic source to medium grained euhedral itals (re-worked calc-silicate source). Local biotite rich layers, predominantly associated with the calc-silicate amphibolite. Local disseminated visible sulphides Po, Py, Cpy & Aspy, Local fractures <0.5cm, filled with quartz-carbonate trending.											
25.00	28.00	Shear	PIABLE ROCK Increase in carbonate and quartz content fol. parallel to sub parallel to core axis (fold) sparse brown weathering.	DRI9806	25.00	26.50	1.50	86.	34.	2.58	2.	91.	1.	
				DRI9807	26.50	28.00	1.50	100.	29.	2.68	5.	100.	1.	
				DRI9808	28.00	29.50	1.50	72.	19.	1.72	4.	65.	1.	
				DRI9809	29.50	31.00	1.50	82.	31.	2.85	4.	104.	1.	
				DRI9810	31.00	32.50	1.50	78.	33.	3.07	3.	110.	1.	
32.30	33.30	Silic	SILICIFICATION Area of higher carbonate quartz content. Poliation varies, zone is bleached green grey in colour, higher bi content. Area of shearing meso fractures display left and right lateral movement.	DRI9811	32.50	33.90	1.40	93.	52.	4.61	7.	159.	1.	
33.30	33.80	FltGg	FAULT GOUCE Matrial is dominantly reduced to green coloured clay. 10cm wide of 60% irregular quartz sweets and stringers <1% visible sulphides within this quartz rich area.											
33.80	34.70	Silic	SILICIFICATION Same as 32.20 - 33.30m	DRI9812	33.90	35.40	1.50	66.	34.	3.02	4.	100.	1.	
				DRI9813	35.40	36.90	1.50	69.	19.	1.71	2.	65.	1.	
				DRI9814	36.90	38.40	1.50	76.	20.	1.68	2.	70.	1.	
				DRI9815	38.40	39.90	1.50	54.	21.	1.86	2.	66.	1.	

NORANDA EXPLORATION CO. LTD.
DIAMOND DRILL LOG

PROPERTY : BEAUDRE-VALENTINE
HOLE No. : 89-21

PAGE : 2

INTERVAL(m) FROM TO	MAJOR/MINOR UNITS	DESCRIPTION	SAMPLE NUMBER	INTERVAL(m)		SAMPLE WIDTH	Cu ppm	Zn ppm	Fe %	As ppm	Cr ppm	ASSAYS	
				FROM	TO							Au ppb	Au g/t
39.50	39.90	FltGg FAULT GOUGE Dark green chloritic clay.	DR19816	39.90	41.40	1.50	66.	16.	1.56	2.	54.	1.	
			DR19817	41.40	42.90	1.50	75.	15.	1.38	3.	54.	1.	
			DR19818	42.90	44.40	1.50	79.	15.	1.43	2.	56.	1.	
44.30	44.40	FltGg FAULT GOUGE Green chloritic clay.	DR19819	44.40	45.90	1.50	69.	14.	1.39	2.	58.	2.	
			DR19820	45.90	47.40	1.50	82.	16.	1.41	2.	59.	1.	
			DR19821	47.40	48.90	1.50	99.	15.	1.47	2.	57.	1.	
			DR19822	48.90	50.40	1.50	81.	16.	1.44	3.	57.	1.	
			DR19823	50.40	51.90	1.50	81.	18.	1.55	2.	59.	1.	
			DR19824	51.90	53.40	1.50	71.	25.	2.24	2.	78.	2.	
			DR19825	53.40	54.90	1.50	96.	18.	1.73	2.	61.	4.	
			DR19826	54.90	56.40	1.50	60.	18.	1.67	3.	68.	1.	
			DR19827	56.40	57.90	1.50	87.	18.	1.67	2.	62.	3.	
			DR19828	57.90	59.40	1.50	87.	17.	1.61	2.	60.	1.	
			DR19829	59.40	60.90	1.50	134.	53.	1.80	2.	62.	12.	
			DR19830	60.90	62.40	1.50	97.	25.	2.09	3.	84.	1.	
			65.40	65.70	Silic QUARTZ SWEATS With bleached halo. Finely disseminated sulphides. Bleached halo is green beige in color. Possible Asp (1%. Very fine grained.	DR19831	62.40	63.90	1.50	65.	25.	2.24	2.
DR19832	63.90	65.40				1.50	93.	21.	1.85	2.	59.	1.	
DR19833	65.40	66.90				1.50	62.	35.	2.70	2.	83.	2.	
DR19834	66.90	68.40				1.50	98.	25.	2.07	2.	72.	3.	
DR19835	68.40	69.90				1.50	114.	22.	1.88	2.	64.	1.	
DR19836	69.90	71.40				1.50	64.	23.	2.07	2.	73.	3.	
DR19837	71.40	72.90				1.50	98.	22.	2.14	4.	75.	2.	
DR19838	72.90	74.40				1.50	95.	17.	1.58	2.	58.	2.	
DR19839	74.40	75.40				1.00	108.	20.	1.82	3.	65.	1.	
DR19840	75.40	77.20				1.80	118.	73.	3.77	53.	98.	1.	
75.10	77.00	BiZone BIOTITE RICH LAYERS Higher quartz and visible sulphide content. biotite/amphibolite ratio varies. biotite layers locally shows cataclastic texture. From 82.4-82.6 up to 1% arsenopyrite.											
77.00	77.40	PltBx FAULT BRECCIA / GOUGE Very chloritic clasts are ave 0.5cm across angular to subangular. Displays ductile deformation.	DR19841	77.20	78.70	1.50	90.	51.	3.35	7.	102.	3.	
77.40	82.60	BiZone BIOTITE RICH LAYERS Same as 75.10 - 77.00m	DR19842	78.70	80.20	1.50	74.	21.	1.86	5.	69.	1.	
			DR19843	80.20	81.20	1.00	177.	42.	3.08	7.	105.	1.	
			DR19844	81.20	82.20	1.00	86.	33.	2.41	6.	80.	1.	
			DR19845	82.20	82.60	0.40	406.	74.	4.56	274.	111.	1.	
			DR19846	82.60	84.10	1.50	63.	30.	2.38	4.	80.	2.	
83.00	83.30	Shear SHEARING Area of ductile shearing with bleached	DR19847	84.10	85.60	1.50	56.	20.	1.61	2.	53.	2.	
			DR19848	85.60	87.10	1.50	83.	27.	2.35	4.	75.	1.	

APPENDIX III
CORE SAMPLE GEOCHEMICAL ANALYSIS

NBV 89-20 Valentine (JMc)

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 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

①

DATE RECEIVED: JUL 5 1989 DATE REPORT MAILED: July 10/89 SIGNED BY: C. Long... D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8907-019 120 File # 89-1948 Page 1

NBV 89-20

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	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	PPM
DR 19752	1	95	2	22	.1	32	12	280	1.96	2	5	ND	1	92	1	2	2	49	2.99	.045	2	60	.83	1	.16	2	1.37	.08	.06	1	10
DR 19753	1	95	6	25	.1	35	13	289	2.37	8	5	ND	1	20	1	2	3	64	2.07	.052	2	75	.98	1	.18	2	1.62	.09	.04	2	8
DR 19754	1	77	4	30	.1	39	14	306	2.49	2	5	ND	1	30	1	2	2	69	2.08	.079	2	74	.89	26	.18	2	1.73	.10	.21	1	1
DR 19755	1	103	2	12	.1	30	9	222	1.33	5	5	ND	1	118	1	2	2	31	3.40	.049	2	41	.63	4	.18	4	2.08	.20	.03	1	1
DR 19756	1	82	3	17	.1	32	10	235	1.57	2	5	ND	1	36	1	2	2	39	2.18	.035	2	57	1.04	1	.18	5	1.39	.14	.03	1	5
DR 19757	1	75	2	18	.1	36	11	273	1.69	2	5	ND	1	33	1	2	3	43	2.76	.066	2	50	.83	16	.19	11	1.44	.12	.15	1	1
DR 19758	1	78	2	16	.1	28	8	237	1.45	2	5	ND	1	31	1	2	2	40	2.58	.052	2	50	.83	4	.19	2	1.29	.12	.05	1	5
DR 19759	1	114	2	21	.1	45	13	304	2.07	2	5	ND	1	41	1	2	2	55	3.34	.047	2	72	1.24	3	.15	6	1.88	.10	.05	1	3
DR 19760	1	114	2	12	.1	33	12	169	1.46	2	5	ND	1	27	1	3	2	38	1.55	.041	2	46	.69	1	.20	2	.97	.12	.01	1	2
DR 19761	1	42	2	14	.2	26	8	167	1.30	5	5	ND	1	17	1	3	2	35	1.49	.037	2	49	.79	1	.19	2	1.20	.10	.01	2	4
DR 19762	1	59	2	14	.1	18	6	168	1.18	2	5	ND	1	8	1	2	2	33	1.31	.041	2	43	.75	1	.19	2	.79	.07	.01	1	7
DR 19763	1	75	2	10	.1	24	7	134	.98	2	5	ND	1	15	1	2	2	27	1.44	.041	2	36	.53	1	.17	2	.87	.11	.02	1	1
DR 19764	1	76	2	16	.1	23	8	165	1.42	3	5	ND	1	16	1	2	2	34	1.27	.038	2	57	.92	1	.14	2	1.19	.11	.02	1	2
DR 19765	1	112	3	15	.1	24	8	200	1.39	2	5	ND	1	29	1	2	2	33	1.99	.047	2	45	.83	2	.15	2	1.42	.15	.03	2	2
DR 19766	1	103	2	11	.1	35	9	129	1.16	2	5	ND	1	17	1	2	2	32	1.33	.039	2	42	.62	1	.21	2	1.00	.13	.01	2	1
DR 19767	1	77	2	12	.1	30	8	172	1.18	2	5	ND	1	22	1	2	4	33	1.70	.039	2	47	.71	1	.19	2	1.06	.13	.01	1	1
DR 19768	1	83	4	12	.1	32	9	159	1.21	2	5	ND	1	36	1	2	2	32	1.72	.039	2	45	.71	3	.18	2	1.40	.17	.02	1	2
DR 19769	1	77	2	14	.1	34	9	171	1.35	2	5	ND	1	29	1	2	3	35	1.54	.041	2	50	.85	4	.17	3	1.27	.13	.02	1	1
DR 19770	1	94	3	13	.1	29	10	163	1.46	2	5	ND	1	44	1	2	3	36	1.71	.049	2	41	.76	2	.17	7	1.46	.15	.02	1	1
DR 19771	1	94	2	12	.1	37	10	176	1.19	2	5	ND	1	45	1	2	2	31	1.99	.040	2	41	.66	1	.18	4	1.37	.16	.02	1	1
DR 19772	1	90	3	21	.1	49	14	276	2.10	2	5	ND	1	116	1	2	2	53	2.91	.036	2	73	1.48	4	.15	2	2.17	.13	.02	1	1
DR 19773	1	63	3	11	.1	38	8	133	1.10	2	5	ND	1	30	1	3	2	29	1.45	.048	2	39	.69	3	.14	3	1.32	.14	.02	1	1
DR 19774	1	81	2	15	.1	33	10	188	1.47	2	5	ND	1	44	1	2	2	36	2.27	.030	2	53	.96	4	.16	2	2.42	.20	.01	1	1
DR 19775	1	57	2	14	.1	25	9	162	1.35	2	5	ND	1	38	1	2	2	35	1.36	.036	2	48	.88	2	.13	2	1.13	.10	.01	1	1
DR 19776	1	110	2	15	.1	39	13	184	1.53	3	5	ND	1	41	1	2	2	39	1.53	.040	2	49	.82	2	.19	8	1.13	.12	.01	1	1
DR 19777	1	72	4	11	.1	24	9	149	1.21	2	5	ND	1	24	1	2	2	32	1.44	.037	2	41	.67	3	.15	2	1.07	.12	.01	1	1
DR 19778	1	106	2	16	.1	37	13	175	1.56	2	5	ND	1	30	1	2	2	36	1.50	.035	2	48	.77	2	.18	2	1.18	.13	.02	1	1
DR 19779	1	71	2	17	.1	29	10	207	1.56	2	5	ND	1	41	1	2	2	40	2.06	.060	2	49	.87	6	.17	3	1.26	.10	.05	1	1
DR 19780	1	60	2	21	.1	30	11	193	1.79	2	5	ND	1	37	1	2	2	47	1.73	.114	2	41	.98	19	.17	5	1.36	.11	.08	1	1
DR 19781	1	79	2	26	.1	37	12	243	2.24	2	5	ND	1	161	1	2	2	57	2.15	.080	2	60	1.40	15	.15	2	1.84	.08	.06	1	3
DR 19782	1	84	3	49	.1	46	17	394	3.13	9	5	ND	1	20	1	2	2	76	2.70	.034	2	115	2.21	12	.12	2	2.42	.05	.09	1	2
DR 19783	1	61	2	14	.1	23	9	168	1.30	2	5	ND	1	118	1	2	2	32	1.97	.043	2	49	.83	9	.13	2	1.92	.19	.06	1	3
DR 19784	1	69	2	16	.1	28	10	241	1.50	4	5	ND	1	824	1	2	2	36	3.86	.024	2	52	.93	15	.10	4	3.24	.34	.07	1	1
DR 19785	1	88	2	19	.1	29	9	264	2.04	3	5	ND	1	46	1	2	2	36	1.82	.028	2	61	1.09	26	.11	2	1.44	.08	.16	1	1
DR 19786	1	20	3	30	.1	31	12	264	2.19	2	5	ND	1	72	1	2	2	49	2.11	.026	2	84	1.49	37	.15	2	2.46	.11	.28	1	1
DR 19787	1	115	4	29	.1	25	11	344	2.36	2	5	ND	1	23	1	2	2	65	2.52	.042	2	65	1.36	3	.17	2	1.65	.07	.03	1	4
STD C/AU-R	19	62	38	132	7.1	67	21	939	4.07	42	18	7	37	49	19	14	18	57	.51	.084	38	55	.91	174	.07	36	2.01	.06	.14	11	490

NORANDA EXPLORATION CO. LTD. PROJECT 8907-019 120 FILE # 89-1948

2

NBSU 89-20

NBV89-21

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	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	PPB
DR 19788	1	94	3	15	.1	23	9	234	1.45	2	5	ND	1	25	1	2	2	39	2.17	.038	2	53	.82	1	.14	7	1.13	.10	.03	1	2
DR 19789	1	78	4	13	.1	29	11	213	1.74	4	5	ND	1	36	1	2	2	45	1.68	.040	2	59	.99	1	.13	4	1.37	.10	.07	1	1
DR 19790	1	94	2	44	.1	37	18	427	3.31	2	5	ND	1	23	1	2	2	91	2.77	.031	2	117	2.26	14	.16	2	2.54	.05	.22	1	2
DR 19791	1	8	4	70	.2	60	23	723	4.44	8	5	ND	1	35	1	2	2	113	5.72	.022	2	160	3.25	9	.12	2	3.65	.03	.13	1	3
DR 19792	1	74	4	43	.1	49	18	563	3.25	4	5	ND	1	92	1	2	3	82	4.45	.055	2	117	1.64	34	.17	2	2.40	.08	.37	1	2
DR 19793	1	80	3	53	.2	53	21	535	3.37	16	5	ND	1	69	1	2	2	77	4.33	.059	2	110	1.40	48	.18	2	2.27	.08	.46	1	1
DR 19794	1	105	2	44	.1	52	20	352	2.78	15	5	ND	1	63	1	2	2	62	2.32	.067	2	95	1.13	56	.18	2	2.18	.12	.50	1	1
DR 19795	1	102	3	39	.3	52	20	357	2.56	5	5	ND	1	49	1	2	5	53	2.31	.095	2	85	1.02	21	.15	2	2.06	.13	.30	1	2
DR 19796	1	81	3	47	.1	60	21	392	3.11	4	5	ND	1	50	1	2	2	62	2.03	.070	2	114	1.66	16	.17	2	2.12	.08	.25	1	1
DR 19797	1	48	2	21	.1	26	9	265	1.75	2	5	ND	1	80	1	2	2	45	2.46	.068	2	59	.98	17	.16	2	1.45	.10	.13	1	1
DR 19798	1	53	7	24	.1	35	12	272	2.07	2	5	ND	1	62	1	2	2	53	2.12	.077	2	66	1.27	18	.18	2	1.65	.12	.11	1	1
DR 19799	1	87	3	23	.1	49	14	215	2.05	5	5	ND	1	117	1	2	2	54	1.84	.081	2	64	1.25	22	.14	3	1.56	.13	.12	1	3
DR 19800	1	62	2	19	.1	49	13	192	1.78	2	5	ND	1	62	1	2	2	45	1.60	.074	2	58	1.11	19	.14	4	1.30	.12	.11	1	1
DR 19801	1	93	2	29	.1	63	17	315	2.67	10	5	ND	1	43	1	2	2	68	2.65	.071	2	88	1.80	22	.16	2	2.19	.13	.14	1	1
DR 19802	1	77	2	28	.1	51	14	268	2.39	3	5	ND	1	97	1	2	2	63	2.39	.072	2	85	1.70	20	.15	2	2.01	.11	.11	1	2
DR 19803	1	104	3	20	.1	30	13	242	2.04	2	5	ND	1	38	1	2	3	58	1.83	.047	2	55	1.11	1	.20	2	1.27	.09	.04	1	1
DR 19804	1	49	5	44	.2	35	19	588	3.65	11	5	ND	1	65	1	2	2	99	5.75	.034	2	104	2.13	1	.13	8	2.53	.05	.04	1	1
DR 19805	1	97	6	25	.1	33	14	295	2.27	4	5	ND	1	43	1	2	2	58	2.85	.038	2	75	1.23	15	.21	2	2.16	.14	.17	1	3
DR 19806	1	64	2	23	.1	33	12	346	2.07	2	5	ND	1	81	1	2	2	50	3.63	.038	2	73	1.31	1	.16	2	2.01	.12	.02	1	3
DR 19807	1	98	2	32	.1	42	15	232	2.14	4	5	ND	1	30	1	2	6	47	2.25	.040	2	75	1.28	1	.16	3	1.76	.10	.01	1	2
DR 19808	1	95	5	17	.1	36	11	239	1.59	2	5	ND	1	74	1	2	2	34	3.31	.036	2	58	.92	1	.14	2	2.73	.20	.02	1	2
DR 19809	1	108	2	20	.1	34	12	265	1.82	3	5	ND	1	62	1	2	2	39	2.65	.032	2	65	1.18	1	.13	3	2.25	.22	.04	1	1
DR 19840	1	118	5	73	.1	65	22	481	3.77	53	5	ND	1	76	1	2	2	76	3.98	.077	2	98	1.19	108	.18	2	2.28	.09	.65	1	1
DR 19841	1	90	2	51	.2	60	20	516	3.35	7	5	ND	1	112	1	2	2	73	4.33	.093	2	102	1.32	23	.18	4	2.09	.10	.22	1	3
DR 19842	1	74	2	21	.1	48	12	346	1.86	5	5	ND	1	46	1	2	2	49	3.54	.038	2	69	1.07	1	.19	4	1.83	.19	.05	1	1
DR 19843	1	177	5	42	.2	54	18	518	3.08	7	5	ND	1	50	1	2	2	74	4.11	.067	2	105	1.69	4	.16	2	2.26	.08	.09	1	1
DR 19844	1	86	2	33	.2	46	15	532	2.41	6	5	ND	1	61	1	2	2	57	5.54	.058	2	80	1.13	40	.16	2	1.78	.09	.30	1	1
DR 19845	1	406	3	74	.1	64	23	473	4.56	274	5	ND	1	21	1	2	2	107	1.49	.074	3	111	1.70	212	.23	3	2.70	.09	1.10	1	1
DR 19846	1	63	3	30	.1	41	13	310	2.38	4	5	ND	1	20	1	2	2	60	2.37	.053	2	80	1.61	8	.18	5	2.06	.07	.08	1	2
DR 19847	1	56	3	20	.1	33	9	194	1.61	2	5	ND	1	55	1	2	2	37	1.79	.072	2	53	1.13	2	.16	2	1.92	.21	.04	1	2
DR 19848	1	83	2	27	.1	54	14	287	2.35	4	5	ND	1	35	1	2	2	54	2.28	.071	2	75	1.55	1	.15	2	2.15	.13	.03	1	1
DR 19849	1	65	2	30	.1	50	14	306	2.46	5	5	ND	1	31	1	3	3	55	2.52	.076	2	81	1.74	1	.18	9	2.42	.09	.03	1	1
DR 19850	1	59	5	23	.1	45	11	230	1.83	2	5	ND	1	66	1	2	2	42	2.68	.062	2	59	1.30	1	.12	5	2.88	.16	.04	1	1
DR 19851	1	74	2	25	.1	54	13	242	2.03	3	5	ND	1	102	1	2	2	44	3.02	.064	2	62	1.34	1	.14	10	3.00	.20	.04	1	1
DR 19852	1	82	3	21	.1	41	12	237	1.84	3	5	ND	1	63	1	2	3	46	2.10	.057	2	61	1.20	1	.18	4	2.09	.17	.04	1	3
DR 19853	1	123	4	32	.1	45	17	392	2.94	3	5	ND	1	116	1	2	2	81	3.12	.046	2	94	1.86	2	.21	3	2.60	.12	.04	1	4
STD C/AU-A	18	62	43	132	6.9	68	30	956	4.06	44	19	7	37	49	18	15	24	58	.51	.085	38	56	.91	180	.07	35	2.02	.06	.13	11	490

NORANDA EXPLORATION CO. LTD. PROJECT 8907-019 120 FILE # 89-1948

NBSV
89-21

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	Hg %	Ba PPM	Tl %	B PPM	Al %	Na %	K %	W PPM	AD* PPB
DR 19854	1	71	2	30	.3	29	16	403	2.80	3	5	ND	1	20	1	2	2	78	2.55	.043	2	74	1.43	1	.21	4	1.57	.06	.03	1	3
DR 19855	1	80	2	26	.1	28	15	394	2.46	3	5	ND	1	39	1	2	2	68	2.96	.046	2	67	1.14	1	.20	2	1.51	.07	.02	1	3
DR 19856	1	69	16	59	.1	36	22	734	5.12	8	5	ND	1	48	1	2	2	137	8.96	.032	2	114	2.39	1	.20	5	3.69	.03	.02	2	2

3

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : VALENTINE

NTS : 92 B112

PAGE: 1 of 2

PROJ.#: 120

HOLE #: NBU09-20

DATE: ~~July~~ June 30

SAMPLE #	FROM(m)	TO(m)	WIDTH (m)	SAMPLE #	FROM	TO	WIDTH
DR19751	NOT TAKEN			DR19772	47.8	49.3	1.5
52	17.8	19.3	1.5	73	49.3	50.8	
53	19.3	20.8		74	50.8	52.3	
54	20.8	22.3		75	52.3	53.8	
55	22.3	23.8		76	53.8	55.3	
56	23.8	25.3		77	55.3	56.8	
57	25.3	26.8		78	56.8	58.3	
58	26.8	28.3		79	58.3	59.8	
59	28.3	29.8		80	59.8	61.3	
60	29.8	31.3		81	61.3	62.8	
61	31.3	32.8		82	62.8	64.3	
62	32.8	34.3		83	64.3	65.8	
63	34.3	35.8		84	65.8	67.3	
64	35.8	37.3		85	67.3	68.8	
65	37.3	38.8		86	68.8	70.3	
66	38.8	40.3		87	70.3	71.8	
67	40.3	41.8		88	71.8	73.3	
68	41.8	43.3		89	73.3	74.8	
69	43.3	44.8		90	74.8	76.3	
70	44.8	46.3		91	76.3	77.8	
71	46.3	47.8	✓	92	77.8	79.3	✓

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : VALENTINE

NTS : 92 B/12

PAGE: 1 of 1

PROJ.#: 120

HOLE #: NBV89-21

DATE: JULY 3/89.

SAMPLE #	FROM (m)	TO (m)	WIDTH (m)	SAMPLE #	FROM	TO	WIDTH
DR19836	69.9	71.4	1.5				
37	71.4	72.9					
38	72.9	74.4	↓				
39	74.4	75.4	1.0				
40	75.4	77.2	1.8				
41	77.2	78.7	1.5				
42	78.7	80.2	1.5				
43	80.2	81.2	1.0				
44	81.2	82.2	1.0				
45	82.2	82.6	0.40				
46	82.6	84.1	1.5				
47	84.1	85.6	1.5				
48	85.6	87.1	1.5				
49	87.1	88.6					
50	88.6	90.1	↓				
51	90.1	91.6					
52	91.6	92.6	1.0				
53	92.6	94.2	1.6				
54	94.2	95.2	1.0				
55	95.2	96.4	1.20				
56	96.4	97.8	1.40				

6

Valentine NBV 89-21 (JMC) & 22 (RVSH)

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 MW 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

Plotted ✓

DATE RECEIVED: JUN 7 1989 DATE REPORT MAILED: July 11/89 SIGNED BY: C. Long D. TOYN, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8907-034 120 File # 89-2013 Page 1

SAMPLE#	No	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	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
DR 19806	1	86	2	34	.1	33	14	363	2.58	2	5	ND	1	31	1	2	2	64	1.84	.041	2	91	1.55	19	.18	2	1.74	.07	.08	1	1
DR 19807	1	100	2	29	.3	39	17	351	2.68	5	5	ND	2	24	1	5	2	72	2.14	.038	2	100	1.63	2	.20	6	1.93	.08	.04	1	1
DR 19809	1	72	2	19	.2	30	10	246	1.72	4	5	ND	2	43	1	5	2	46	1.95	.020	2	65	1.22	2	.13	10	1.92	.15	.03	1	1
DR 19809	1	82	5	31	.4	40	17	409	2.85	4	5	ND	3	131	1	5	3	80	2.92	.036	2	104	1.89	3	.17	8	2.13	.08	.04	2	1
DR 19810	1	78	5	33	.3	54	17	488	3.07	3	6	ND	2	73	1	5	2	75	4.41	.030	2	110	1.68	6	.15	8	2.15	.09	.12	2	1
DR 19811	1	93	6	52	.2	66	24	643	4.61	7	5	ND	1	54	1	5	4	118	5.09	.030	2	159	2.51	8	.14	5	2.99	.06	.21	2	1
DR 19812	1	66	5	34	.4	41	17	448	3.02	4	5	ND	3	99	1	6	6	82	3.75	.045	2	100	1.84	2	.16	12	2.26	.10	.03	2	1
DR 19813	1	69	2	19	.1	26	10	269	1.71	2	5	ND	1	114	1	2	2	46	2.10	.038	2	65	1.10	1	.17	2	1.44	.09	.02	1	1
DR 19814	1	76	5	20	.1	28	11	246	1.68	2	5	ND	1	72	1	2	2	46	1.91	.040	2	70	1.09	2	.17	7	1.63	.13	.02	1	1
DR 19815	1	54	2	21	.1	29	12	258	1.86	2	5	ND	1	91	1	2	2	55	1.93	.045	2	66	1.05	1	.15	4	1.55	.10	.02	1	1
DR 19816	1	66	2	16	.1	25	11	210	1.56	2	5	ND	1	117	1	2	2	42	1.66	.040	2	54	.83	1	.16	4	1.38	.17	.01	1	1
DR 19817	1	75	5	15	.3	20	8	197	1.38	3	5	ND	2	47	1	2	4	42	1.49	.041	2	54	.81	1	.16	5	1.45	.22	.01	1	1
DR 19818	1	79	2	15	.1	28	10	206	1.43	2	5	ND	2	128	1	2	2	44	1.59	.048	2	56	.82	1	.18	4	1.40	.21	.01	1	1
DR 19819	1	69	3	14	.2	28	10	195	1.39	2	5	ND	2	48	1	2	2	42	1.31	.039	2	58	.77	1	.18	5	1.02	.12	.02	1	2
DR 19820	1	82	2	16	.2	27	10	209	1.41	2	5	ND	2	44	1	2	3	41	1.82	.037	2	59	.79	1	.16	6	1.50	.16	.02	1	1
DR 19821	1	99	2	15	.3	31	10	279	1.47	2	5	ND	2	146	1	3	4	39	3.44	.034	2	57	.91	3	.14	9	2.33	.20	.02	1	1
DR 19822	1	81	2	16	.3	28	9	202	1.44	3	5	ND	2	45	1	2	2	40	1.58	.041	2	57	.86	1	.16	6	1.37	.12	.03	1	1
DR 19823	1	81	4	18	.1	28	9	241	1.55	2	5	ND	1	66	1	2	3	40	2.22	.039	2	59	1.10	7	.14	2	1.86	.14	.07	1	1
DR 19824	1	71	2	25	.1	39	14	319	2.24	2	5	ND	1	80	1	2	2	54	2.03	.046	2	78	1.35	2	.18	3	1.78	.11	.02	1	2
DR 19825	1	96	2	18	.1	34	12	256	1.73	2	5	ND	1	33	1	2	2	48	2.00	.052	2	61	.97	1	.19	2	1.52	.13	.02	1	4
DR 19826	1	60	3	18	.1	42	11	259	1.67	3	5	ND	1	86	1	2	2	46	2.06	.045	2	68	1.07	1	.18	2	1.89	.20	.02	1	1
DR 19827	1	87	2	18	.1	44	13	242	1.67	2	5	ND	1	36	1	2	2	45	1.98	.049	2	62	.99	1	.18	2	1.60	.16	.02	1	3
DR 19828	1	87	2	17	.1	48	13	220	1.61	2	5	ND	2	35	1	2	2	42	1.87	.051	2	60	.93	1	.18	5	1.78	.23	.02	1	1
DR 19829	1	134	10	53	.1	46	16	286	1.80	2	5	ND	1	34	1	2	2	45	1.87	.045	2	62	.82	3	.17	2	1.61	.16	.02	1	12
DR 19830	1	97	2	25	.3	38	14	320	2.09	3	5	ND	2	51	1	3	2	50	2.19	.040	2	84	1.35	3	.13	3	1.99	.14	.03	1	1
DR 19831	1	65	4	25	.2	41	14	317	2.24	2	5	ND	1	44	1	2	2	60	2.23	.056	2	81	1.33	2	.18	5	1.98	.16	.03	1	1
DR 19832	1	93	2	21	.1	41	13	231	1.85	2	5	ND	1	23	1	2	3	51	1.54	.083	2	59	1.07	6	.15	5	1.30	.12	.07	1	1
DR 19833	1	62	2	35	.1	43	15	435	2.70	2	5	ND	1	58	1	2	2	74	2.92	.057	2	83	1.67	4	.18	2	1.94	.10	.13	1	2
DR 19834	1	98	2	25	.1	31	13	332	2.07	2	5	ND	1	39	1	2	2	57	2.32	.036	2	72	1.21	2	.17	2	1.69	.13	.03	1	3
DR 19835	1	114	2	22	.1	32	14	275	1.88	2	5	ND	1	30	1	2	2	52	1.81	.042	2	64	.94	1	.20	2	1.22	.10	.01	1	1
DR 19857	1	77	2	39	.2	33	19	545	3.74	2	5	ND	1	22	1	2	2	110	3.13	.041	2	91	1.89	2	.20	2	1.99	.05	.13	2	1
DR 19858	1	76	2	23	.1	21	11	363	1.93	2	5	ND	1	17	1	2	2	55	2.56	.044	2	56	.86	1	.22	2	1.13	.07	.02	1	1
DR 19859	1	55	2	57	.2	36	22	795	4.96	2	5	ND	1	42	1	2	2	142	5.80	.040	2	122	2.58	3	.20	5	2.77	.03	.10	1	1
DR 19860	1	60	6	47	.1	36	18	615	3.78	2	5	ND	1	32	1	2	2	97	4.72	.041	2	105	2.00	1	.20	6	2.72	.05	.02	3	3
DR 19861	1	113	2	38	.2	53	19	538	3.21	2	5	ND	1	54	1	2	2	82	3.55	.030	2	126	2.23	1	.19	8	3.19	.10	.03	2	2
DR 19862	1	89	2	41	.1	54	20	512	3.28	2	5	ND	1	24	1	2	2	84	5.20	.029	2	129	2.11	1	.18	3	3.22	.06	.02	1	1
STD C/AU-R	18	60	41	132	6.7	69	31	1065	4.04	41	17	7	38	50	19	15	21	60	.49	.092	38	55	.85	180	.07	32	1.94	.06	.13	11	470

NBV 89-21

N
7

NORANDA EXPLORATION CO. LTD. PROJECT 8907-034 120 FILE # 89-2013

NBV
89-21

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	Hg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
DR 19863	1	70	14	39	.2	54	19	526	3.42	3	5	ND	1	28	1	3	2	84	5.64	.028	2	127	2.10	1	.18	11	3.88	.08	.03	3	2
DR 19864	1	75	3	42	.1	55	19	596	3.45	3	5	ND	1	37	1	2	2	80	5.18	.033	2	125	2.00	2	.17	6	2.72	.06	.05	2	1
DR 19865	1	51	11	46	.2	53	20	601	3.81	2	5	ND	1	50	1	2	3	98	4.52	.033	2	140	2.58	4	.16	8	3.11	.10	.13	2	1
DR 19866	1	55	8	23	.2	32	11	415	1.88	3	5	ND	1	91	1	2	2	53	5.09	.032	2	81	1.06	6	.19	10	2.77	.19	.11	3	1

8

NORANDA EXPLORATION CO., LTD.

DIAMOND DRILL HOLE SAMPLE SUMMARY

PROJ. : VALENTINE

NTS : 92 3/12

PAGE: 1 of 1

PROJ.#: 120

HOLE #: NBV09-21

DATE: July 6, 89

SAMPLE #	FROM	TO	WIDTH	SAMPLE #	FROM	TO	WIDTH
DR19806	25.0	26.5	1.50	DR19827	56.4	57.9	1.50
07	26.5	28.0		28	57.9	59.4	
08	28.0	29.5		29	59.4	60.9	
09	29.5	31.0		30	60.9	62.4	
10	31.0	32.5	↓	31	62.4	63.9	
11	32.5	33.9	1.40	32	63.9	65.4	
12	33.9	35.4	1.50	33	65.4	66.9	
13	35.4	36.9		34	66.9	68.4	
14	36.9	38.4		35	68.4	69.9	↓
15	38.4	39.9		DR19856			
16	39.9	41.4		DR19857	97.8	99.3	1.50
17	41.4	42.9		58	99.3	100.8	1.50
18	42.9	44.4		59	100.8	101.8	1.00m
19	44.4	45.9		60	101.8	103.2	1.50
20	45.9	47.4		61	103.2	104.8	
21	47.4	48.9		62	104.8	106.3	
22	48.9	50.4		63	106.3	107.8	
23	50.4	51.9		64	107.8	109.3	↓
24	51.9	53.4		65	109.3	110.3	1.00m
25	53.4	54.9		66	110.3	111.6	1.30m
26	54.9	56.4	↓				

(0)

APPENDIX IV
STATEMENT OF COSTS

STATEMENT OF COSTS
FOR THE VAL GROUP
(FIELD COSTS)

1.	<u>WAGES:</u> June 27, 1989 to July 06, 1989.	
	JEM 6 mandays x \$140/manday	\$ 840.00
	RBS 7 mandays x \$112/manday	\$ 784.00

		\$ 1,624.00
		=====
2.	<u>ACCOMMODATION:</u> June 27, 1989 to July 06, 1989	
	House Rental 13 mandays x \$9.17/manday	\$ 119.21
		=====
3.	<u>GROCERIES</u>	
	13 mandays x \$11.45/manday	\$ 148.85
		=====
4.	<u>TRUCK</u>	
	7 days x \$39/day	\$ 273.00
		=====
5.	<u>GAS</u>	
	7 days x \$8.50/day	\$ 59.50
		=====
6.	<u>FIELD EQUIPMENT & SUPPLIES (FIELD)</u>	\$ 48.12
		=====
7.	<u>SHIPPING</u>	\$ 95.95
		=====
8.	<u>ANALYSIS</u> 115 Samples	\$ 1,937.75
		=====
9.	<u>CONTRACT</u> M & B Diamond Drilling	
	111.6 m drilled @ \$57.63/metre	\$13,674.67
		=====
	TOTAL:	\$17,981.05
		=====

GEOCHEMICAL ANALYSIS COSTS
FOR THE
VAL GROUP

DDH NBV 89-20

DRILL CORE

54 x \$3.00/sample crushing & pulverizing	
54 x \$4.50/sample analyzed by AA for Au	
54 x \$6.25/sample analyzed by ICP for 30 element	
54 x \$1.50/sample data processing	
54 x \$1.60/sample handling	

54 x \$16.85	TOTAL:
=====	\$909.90
	=====

DDH NBV 89-21

DRILL CORE

61 x \$3.00/sample crushing & pulverizing	
61 x \$4.50/sample analyzed by AA for Au	
61 x \$6.25/sample analyzed by ICP for 30 element	
61 x \$1.50/sample data processing	
61 x \$1.60/sample handling	

61 x \$16.85	TOTAL:
=====	\$1,027.85
	=====
	TOTAL:
	\$1,937.75
	=====

APPENDIX V
AUTHORS QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Joan E. McCorquodale of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I m a geologist residing at 2809 Adanac Street, Vancouver B.C.
2. I graduated from the University of Alberta in 1988 with a BSc degree (specialization) in geology.
3. I have worked in mineral exploration and government geology since 1985.
4. I have been employed as a geologist for Noranda Exploration Company, Limited (no personal liability) from May 1988 to the present.


Joan E. McCorquodale

AUTHORS QUALIFICATIONS

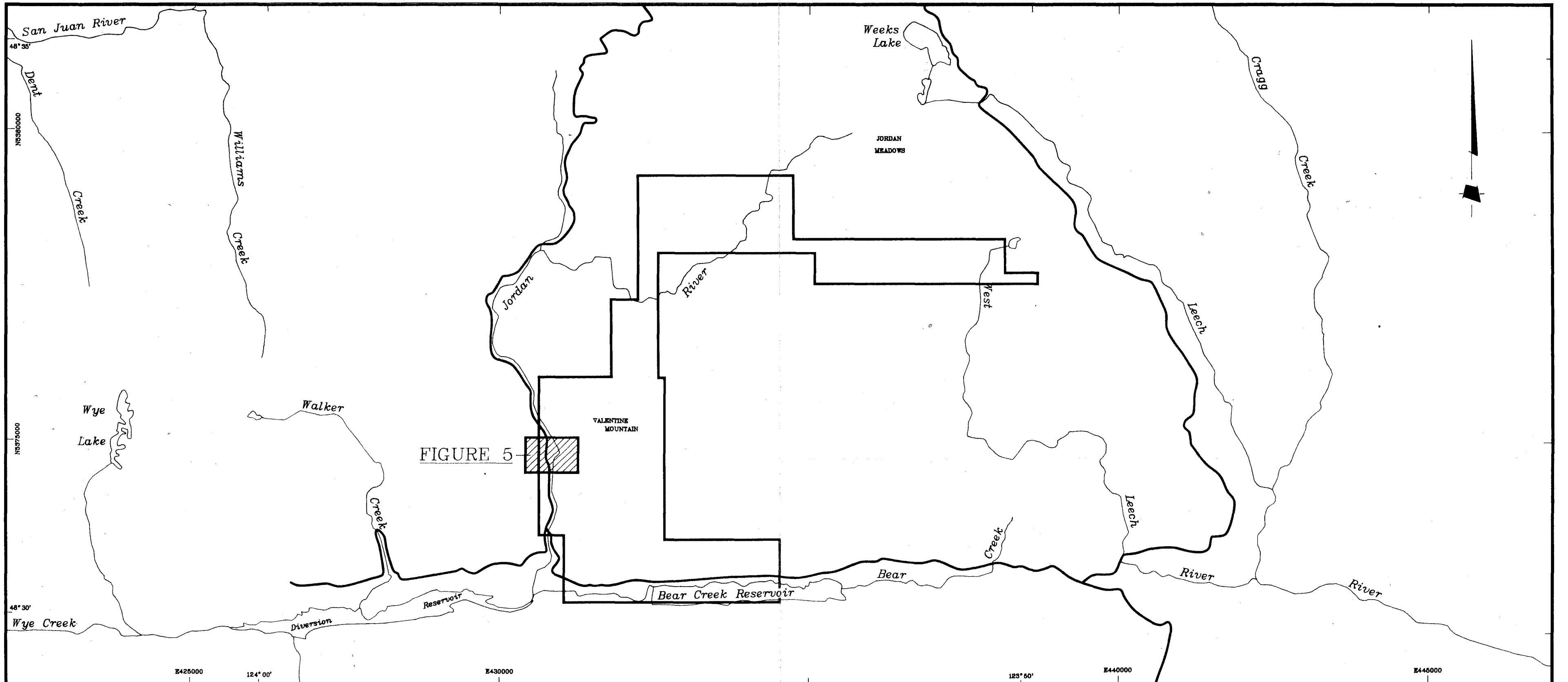
I, Robert G. Wilson of the City of Vancouver, Province of British Columbia, do hereby certify that:

- 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.



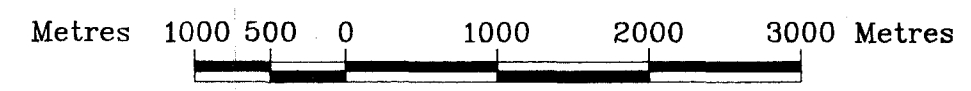
Rob Wilson
Project Geologist

APPENDIX VI
DRILL SECTIONS

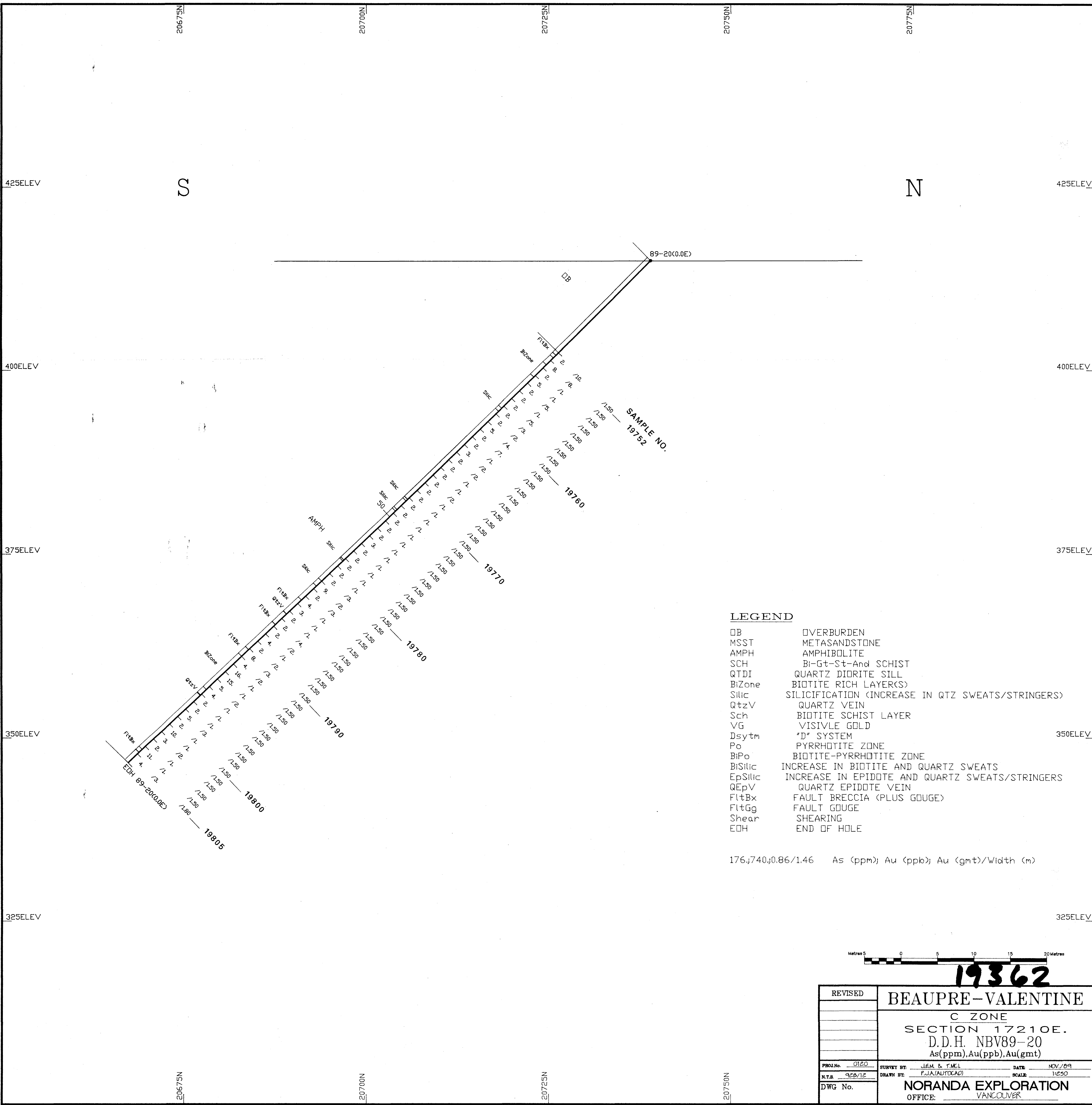


19362

REVISED	BEAU PRE-VALENTINE		
	INDEX MAP		
PROJ.No. 120	SURVEY BY: J.Servin (ACAD)	DATE: May 1989	SCALE: 1:50 000
N.T.S.	DRAWN BY: _____		
DWG.No. 4	NORANDA EXPLORATION OFFICE: Vancouver		



noranda



LEGEND

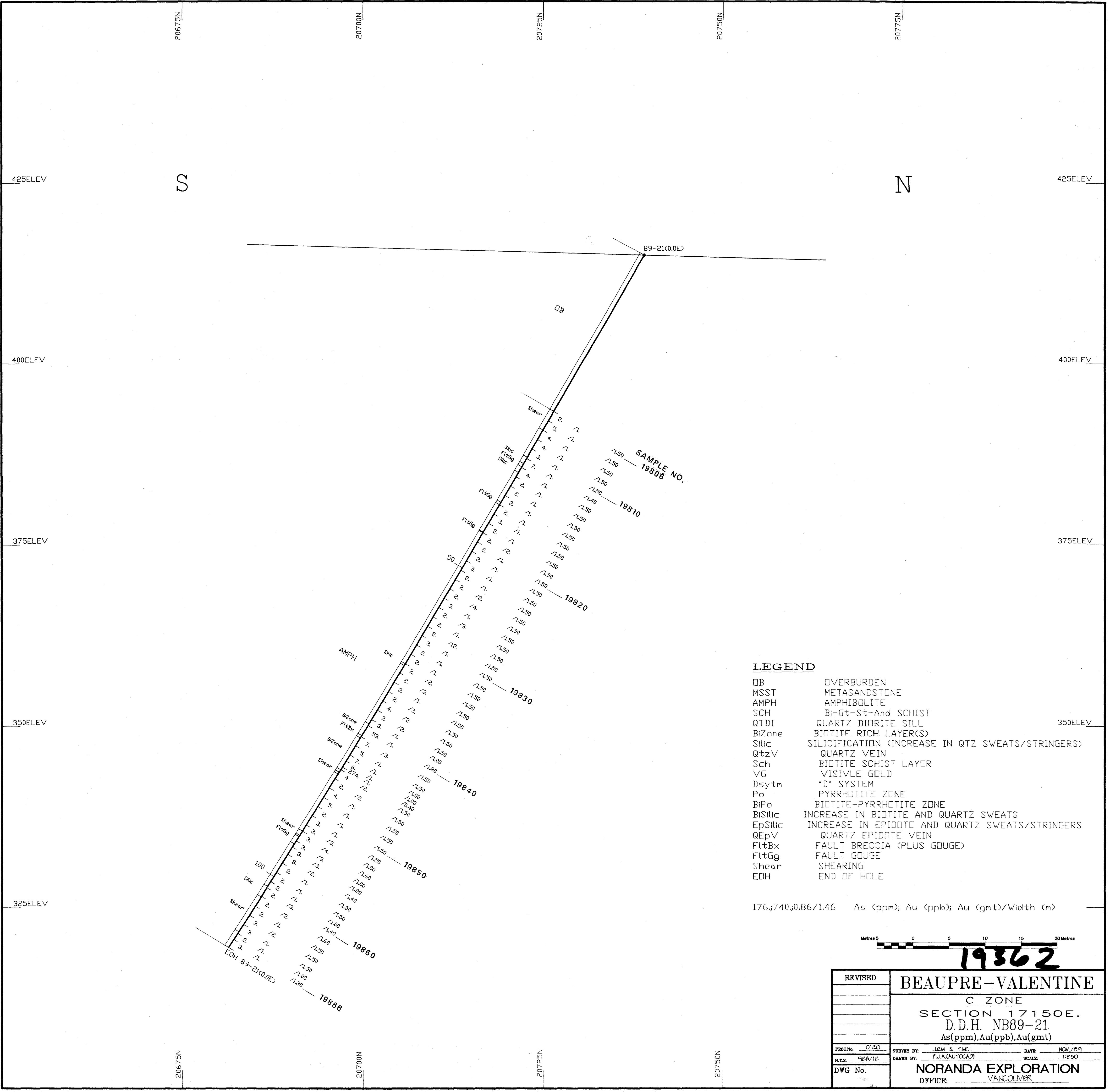
- DB OVERBURDEN
- MSST METASANDSTONE
- AMPH AMPHIBOLITE
- SCH Bi-Gt-St-And SCHIST
- QTDI QUARTZ DIORITE SILL
- BiZone BIOTITE RICH LAYER(S)
- Silic SILICIFICATION (INCREASE IN QTZ SWEATS/STRINGERS)
- QtzV QUARTZ VEIN
- Sch BIOTITE SCHIST LAYER
- VG VISIVLE GOLD
- Dsytm "D" SYSTEM
- Po PYRRHOTITE ZONE
- BiPo BIOTITE-PYRRHOTITE ZONE
- BiSilic INCREASE IN BIOTITE AND QUARTZ SWEATS
- EpSilic INCREASE IN EPIDOTE AND QUARTZ SWEATS/STRINGERS
- QEpV QUARTZ EPIDOTE VEIN
- FltBx FAULT BRECCIA (PLUS GOUGE)
- FltGg FAULT GOUGE
- Shear SHEARING
- EDH END OF HOLE

176;740;0.86/1.46 As (ppm); Au (ppb); Au (gmt)/Width (m)



19362

REVISED	BEAUPRE-VALENTINE	
	C ZONE	
	SECTION 17210E.	
	D.D.H. NBV89-20	
	As(ppm),Au(ppb),Au(gmt)	
PROJ.No. 0120	SURVEY BY: JEM & TML	DATE: NOV/89
N.T.S. 92B/12	DRAWN BY: P.J.A.(AUTOCAD)	SCALE: 1:250
DWG No.	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	



LEGEND

- OB OVERBURDEN
- MSST METASANDSTONE
- AMPH AMPHIBOLITE
- SCH Bi-Gt-St-And SCHIST
- QtzV QUARTZ VEIN
- BiZone BIOTITE RICH LAYER(S)
- Silic SILICIFICATION (INCREASE IN QTZ SWEATS/STRINGERS)
- QtzV QUARTZ VEIN
- Sch BIOTITE SCHIST LAYER
- VG VISIVLE GOLD
- Dsytn "D" SYSTM
- Po PYRRHOTITE ZONE
- BiPo BIOTITE-PYRRHOTITE ZONE
- BiSilic INCREASE IN BIOTITE AND QUARTZ SWEATS
- EpSilic INCREASE IN EPIDOTE AND QUARTZ SWEATS/STRINGERS
- QtzV QUARTZ EPIDOTE VEIN
- FltBx FAULT BRECCIA (PLUS GOUGE)
- FltGg FAULT GOUGE
- Shear SHEARING
- EOH END OF HOLE

176;740;0.86/1.46 As (ppm); Au (ppb); Au (gmt)/Width (m)



19362

REVISED	BEAUPRE-VALENTINE		
	C ZONE		
	SECTION 17150E.		
	D.D.H. NB89-21		
	As(ppm),Au(ppb),Au(gmt)		
PROJ. No. 0120	SURVEY BY: JEM & TMC1	DATE: NOV/09	
N.T.S. 928/12	DRAWN BY: P.J.A.(AUTOCAD)	SCALE: 1:250	
DWG No.	NORANDA EXPLORATION		
	OFFICE: VANCOUVER		