#### ARIS SUMMARY SHEET

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District Geologist, Smithers

Off Confidential: 90.01.17

ASSESSMENT REPORT 18656

MINING DIVISION: Omineca

PROPERTY:

New Nanik

LOCATION:

LAT 53 44 41 LONG 127 41 24

UTM NTS

09 5955700 586400 093E13E 093E12E

CLAIM(S):
OPERATOR(S):
AUTHOR(S):

New Nanik Placer Dome Shevchenko, G. 1989, 32 Pages

REPORT YEAR: COMMODITIES

SEARCHED FOR: Copper, Gold

KEYWORDS:

Cretaceous, Jurassic, Coast Plutonic Complex, Hazelton Group

Quartz Monzonite, Diorite, Chalcopyrite, Bornite, Pyrite, Pyrrhotite

Molybdenite

WORK

DONE:

Geochemical, Physical

LINE 1.2 km

ROCK 6 sample(s); ME SOIL 213 sample(s); ME

Map(s) - 6; Scale(s) - 1:2500

MINFILE: 093E 055

LOG NO: 0425	RD.
ACTION:	
FILE NO:	

FILMED

Assessment Report

A Soil Orientation and Lithogeochemical Survey on the

Omineca Mining Division, British Columbia

New Nanik Mineral Claim

NTS: 93E/12E, 13E

UTM: 586400E 5955700N

GEOLOGICAL BRANCH A SSESSMENT REPORT

Owner/Operator: Placer Dome Incorporated

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Author:

Glenn Shevchenko

(Geologist, Placer Dome Inc.)

Date:

April 17, 1989

## TABLE OF CONTENTS

	Page #
1.0 Introduction 1.1 Location and Access 1.2 Topography, Climate and Vegetation 1.3 Work History 1.4 Claim Status 1.5 Summary of Work Done	1 1 1 1 3 3
2.0 Regional Geology 2.1 Property Geology	3 3
3.0 Geochemical Survey 3.1 Grid Control 3.2 Soil Sampling Method 3.3 Soil Horizon Descriptions 3.4 Sample Preparation and Analytical Procedures 3.4.1 Sample Preparation and Analysis for Cu, Pb, Zn, Ag and As (Rock, B and C Soil Horizons) 3.4.2 Sample Preparation and Analysis for Gold (in Rock, B and C Soil Horizons) 3.4.3 Sample Preparation and Analysis for Au, Ag, As and Zn (Ao Soil Horizon) 3.5 Discussion of Soil Geochemical Results 3.6 Discussion of Lithogeochemical Results (Discovery Showing)	6 6 8 8 8 8 9 9
4.0 Conclusions	11
5.0 Recommendations	13
6.0 Bibliography	13

## Appendices

Appendix I:	Laboratory Analytical Sheets
Appendix II:	Rock Sample Reports
Appendix III:	Statement of Expenditures
Appendix IV:	Statement of Qualifications

# List of Figures

	Figure #	<u>Title</u>	Page #
	1	Property Location Map	2
	2	Claim Location Map	4
	3	Property Geology Map	
	4	Grid Location Map	7
	5	Line 4800N - Copper (ppm) Soil Orientation Profile	in pocket
	6	Line 4800N - Gold (ppb) Soil Orientation Profile	in pocket
	7	Line 4800N - Arsenic (ppm) Soil Orientation Profile	in pocket
O	8	Line 5000N - Copper (ppm) Soil Orientation Profile	in pocket
	9	Line 5000N - Gold (ppb) Soil Orientation Profile	in pocket
	10	Line 5000N - Arsenic (ppm) Soil Orientation Profile	in pocket
	11	Discovery Showing Sample Location Map	12

#### 1.0 Introduction

The New Nanik claim covers a copper porphyry deposit which was discovered in the late 1960's to early 1970's. Current reserves stand at 20,000,000 tonnes of 0.43% copper, 0.2 parts per million gold, 3.5 parts per million silver and 0.009% molybdenum.

The deposit does not appear to be adequately tested for gold mineralization as the main focus was on outlining the copper reserves. Thus, gold only zones may exist within or peripheral to the copper mineralization.

Placer Dome Incorporated personnel were on the property from September 30, 1988 to October 5, 1988. In preparation for an exploration program the following year, a soil geochemical orientation survey was conducted with the objective of defining the proper sample medium for gold mineralization. Also, portions of the Discovery Showing were sampled in order to better understand the controls for gold mineralization.

#### 1.1 Location and Access (Figure #1)

The property, which is centred about UTM coordinates 586400E 5955700N, is located on the west shore of Nanika Lake, some 82 kilometers due south of New Hazelton, British Columbia.

Access to the property is by air only, with the closest air bases being from Smithers, Terrace or Houston.

Once on the property, a network of drill roads provides access to the northern portion of the claims, while the east and southern parts are accessible by water transportation.

## 1.2 Topography, Climate and Vegetation

The property overlies rugged, steep, east sloping terrain with elevations ranging from 935 to 1400 meters above sealevel. The topographic slopes on the claims range from 20 to 35 degrees with local variations of up to 45 degrees.

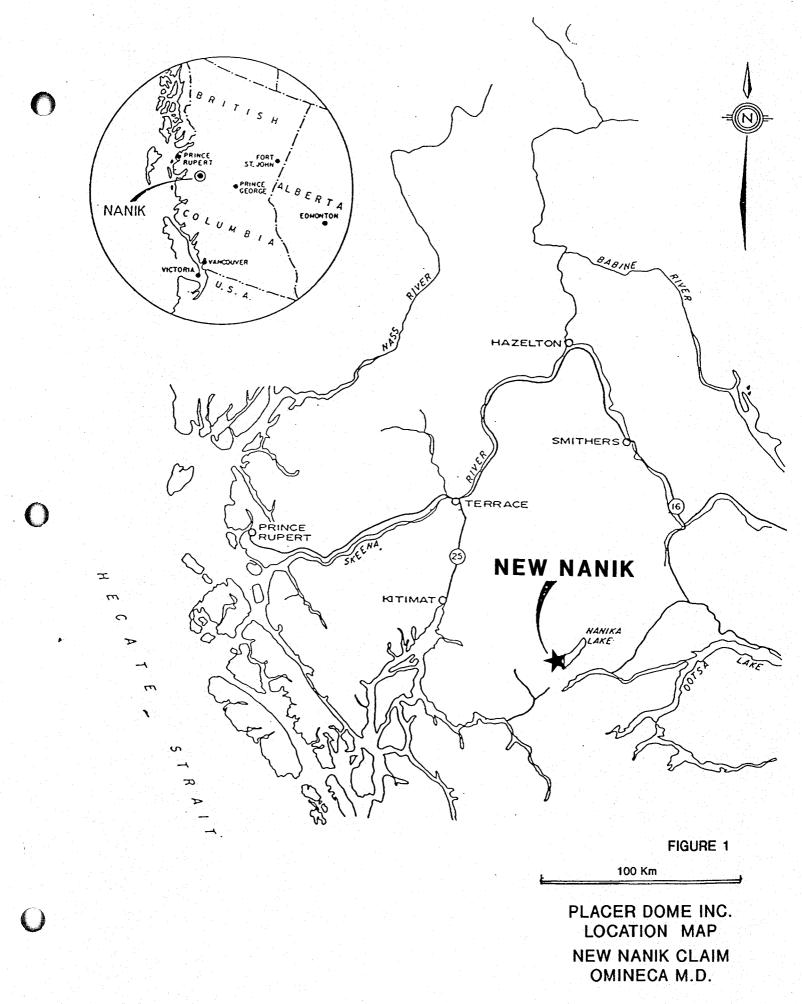
The climate is relatively severe at Nanika Lake, as the rainfall approaches 250 centimeters and snowfall may be up to 15 meters.

Water is abundant on the property and vegetation consists of hemlock, balsam and spruce. The underbrush is generally sparce, however thick patches of alder do occur.

#### 1.3 Work History

1966 - Staked by Silver Cup Mines Limited.

1967/70 - Quintana conducted geological mapping, soil geochemical sampling,



APRIL 1989 93E/12E,93E/13E

magnetometer and I.P. surveys, and 16 diamond drill holes for a total of 3150 meters.

1972 - Scurry Rainbow Oil Limited conducted an I.P. survey.

1973/74 - Granges Exploration conducted geochemical checks and drilled 11 diamond drill holes for a total of 1613 meters.

#### 1.4 Claim Status (Figure #2)

The property consists of one mineral claim (as listed below) which is 100% owned by Placer Dome Incorporated of Vancouver, British Columbia.

Claim Name	Record No.	Units	Record Date	Expiry Date
New Nanik	9238	18	Jan. 19/88	Jan. 19/92

#### 1.5 Summary of Work Done

Field work on the property was conducted from September 30th to October 5th 1988. The work consisted of sampling of the Discovery Showing (6 samples), linecutting (330 meters of flagged baseline, 880 meters of flagged crossline) and a soil geochemical orientation survey.

Where ever possible, the soil geochemical orientation survey consisted of sampling the Ao, B1, B2, and C-horizons in 44 sample sites for a total of 128 samples. The B and C horizons were sieved to coarse and fine fractions and then analyzed. Thus a total of 213 samples were analyzed.

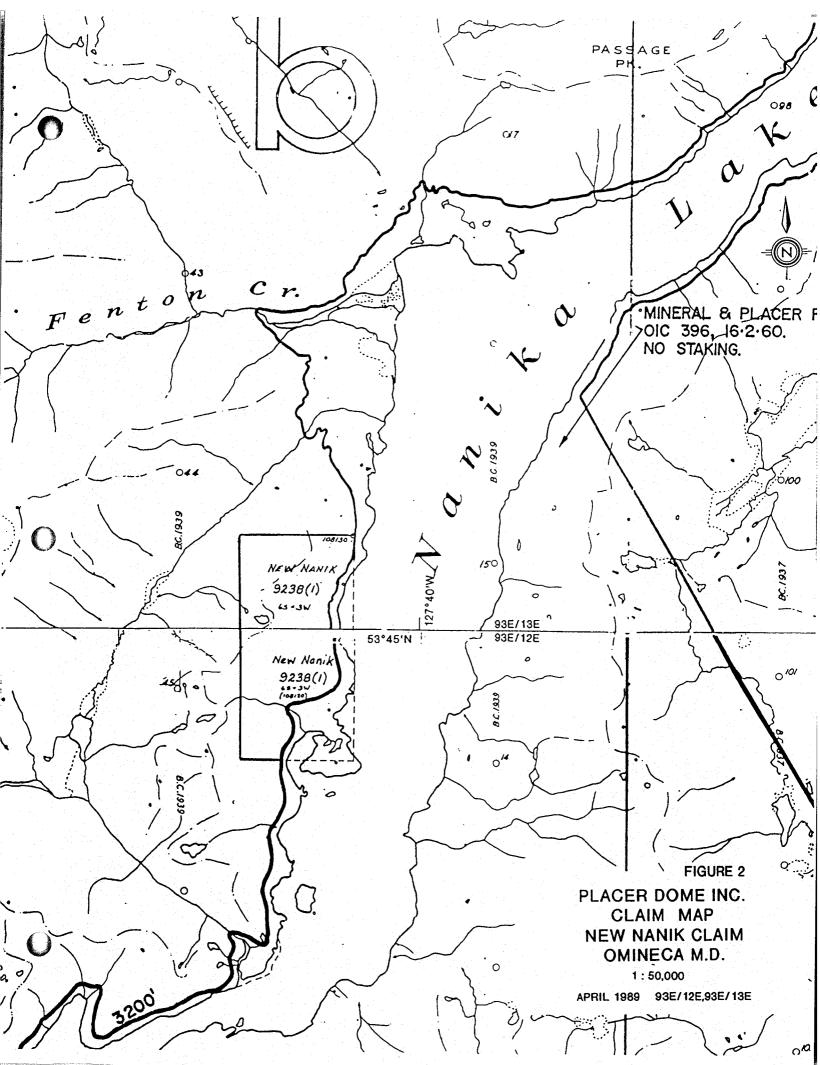
## 2.0 Regional Geology

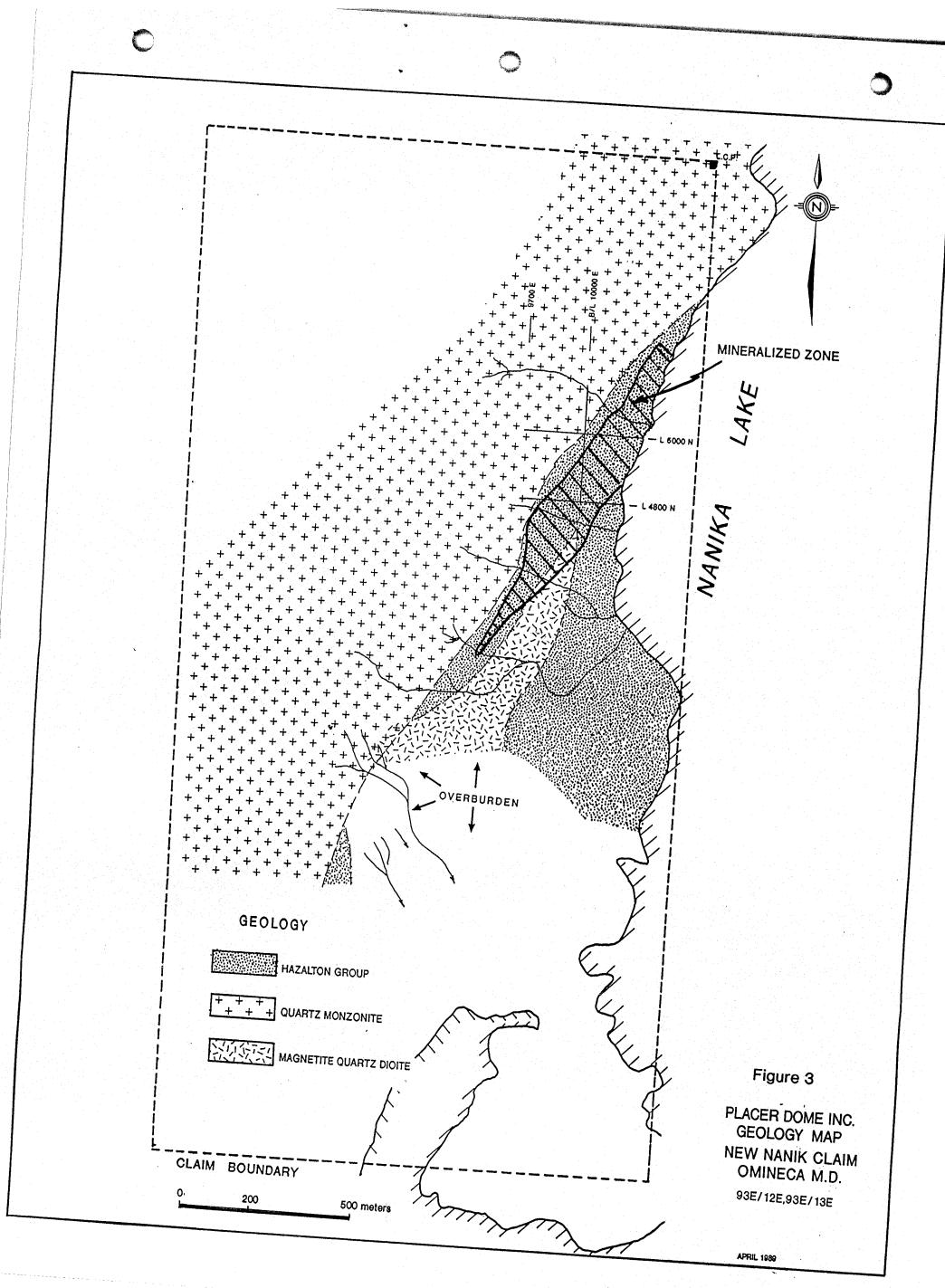
"The Geological Survey of Canada, Memoir 299, describes the regional geology of the area. The Nanika Lake prospect lies approximately three miles west of the main contact between the Coast Range intrusives to the west and various Mesozoic sediments and volcanics, principally Hazelton Group. to the west. Although Memoir 299 does not show Hazelton Group rocks as underlying the Nanika Lake prospect, a block of these rocks approximately two miles in length is present lying along the western Nanika Lake shore line."

## 2.1 Property Geology (Figure #3)

"The Nanika Lake mineral zone lies along a large shattered and faulted zone trending north 30 degrees east and dipping from 20 degrees to 40 degrees west.

<sup>&</sup>lt;sup>1</sup> Shear, H.H., November 18, 1971, Nanika Lake Property, Geological Report, page 6, lines 10 to 18.





The zone follows the western contact of intrusive rocks and Hazelton Rocks. Thin sections suggest the principal host rock is dacite porphyry; however, since it is intensely altered, identification is inconclusive. The principal intrusive is quartz monzonite. A younger fine grained, magnetite rich quartz diorite has been intruded along the foot wall of the southern portion of the mineral zone. It is apparently post mineral.

The principal structural control of mineralization appears to be the faulted and shattered contact zone. Two east-west cross faults cut the mineral zone suggesting block faulting. No folding is in evidence.

Sulphide mineralization occurs as disseminations, fracture filling and veinlets. Sulphide minerals arranged in order of abundance are pyrite, chalcopyrite, pyrrhotite, and molybdenite. Pyrite is by far the most abundant mineral and its distribution is variable. Grade of copper does not seem related to the amount of pyrite present. Pyrrhotite is a minor constituent in the mineral zone and occurs in a few massive lenses a few inches wide. Molybdenite in minute amounts is widespread.

Alteration in the mineralized dacite porphyry (?) includes biotite, silica and chlorite and is quite intense in places. The three alteration minerals do not necessarily occur together. Only minor, spotty alteration has been noted outside the mineral zone. No significant pyrite halo has been observed.

The alteration and mineralization of the Nanika Lake prospect is characteristic of a porphyry copper, although the zone is tabular."<sup>2</sup>

## 3.0 Geochemical Survey

A soil geochemical orientation survey along with a lithogeochemical sampling survey of the Discovery Showing was conducted on the property.

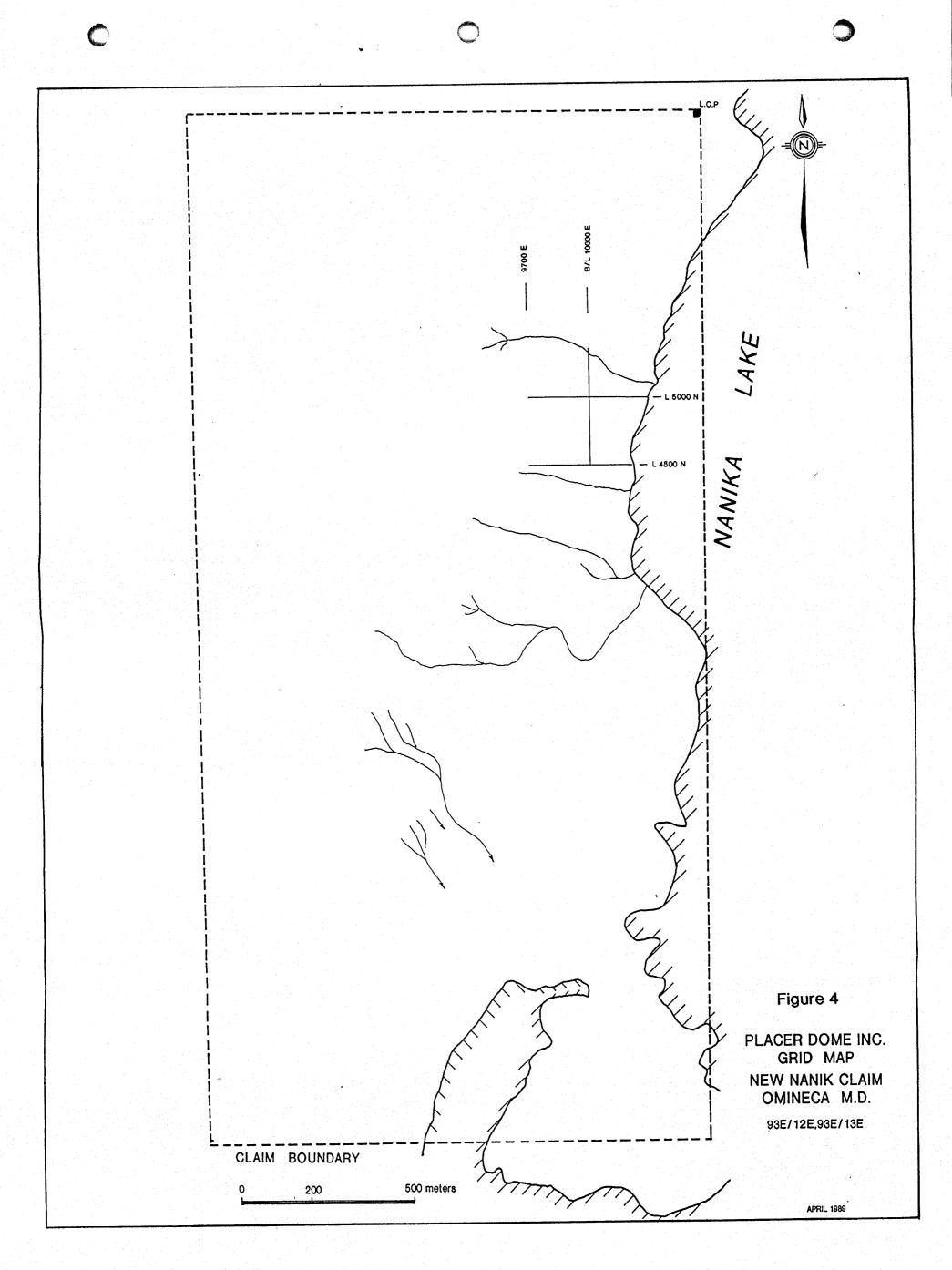
## 3.1 Grid Control (Figure #4)

Using compass and hip chain, two lines were established over a portion of the known copper deposit. The lines were spaced 200 meters apart with a station interval of 20 meters (not slope corrected).

## 3.2 Soil Sampling Method

Soil samples were obtained by digging holes with a shovel to depths of 80 to 120 centimeters. Wherever possible, Ao, B1, B2 and C horizons were sampled and placed in "Hi Wet Strength Kraft 3.5 inch x 6 inch Open End envelopes". Horizon

<sup>&</sup>lt;sup>2</sup> Shear, H.H., November 18, 1971, Nanika Lake Property, Geological Report, page 6, lines 19 to 22, page 7, page 9, lines 1 to 5.



type and grid co-ordinates were marked on the envelopes with a permanent ink felt marker.

#### 3.3 Soil Horizon Descriptions

The A Horizon is the dark brown organic layer that develops just below the green moss at a depth of 1 to 4 centimeters.

The B1 Horizon is generally a thin (3 to 8 centimeters in thickness) soil layer that occurs just below the organic horizon at depths of 5 to 20 centimeters. It is medium brown to medium reddish brown in colour and portrays good soil development as it contains up to 70% silt and 15% organic matter.

The B2 Horizon is commonly a thick (40 to greater than 80 centimeters in thickness) soil layer that is found at depths of 15 to greater than 100 centimeters. It is generally medium brown and contains approximately equal amounts of coarse and fine material.

The C Horizon is a light to medium grey clay layer that occurs below the B2 Horizon.

#### 3.4 Sample Preparation and Analytical Procedures

The rock samples along with the B and C-horizon soil samples were prepared and analyzed by Placer Dome Incorporated's Geochemical Laboratory at Vancouver, B.C. The A-horizon soil samples were prepared and analyzed by Activation Laboratories Limited at Brantford, Ontario.

# 3.4.1 Sample Preparation and Analysis for Cu, Pb, Zn, Ag and As (Rock, B and C Soil Horizons)

Soil samples are first dried in a hot air dryer and then separated by sieving to coarse (-10 to -80 mesh) and fine (less than -80 mesh) fractions. A 0.50 gm portion of each size fraction is weighted with a precision torsion balance. Samples are digested in a hot solution of HNO3 and HC1 for three and half hours, then cooled, diluted and prepared for analysis in Perkin-Elmer 603 Atomic Absorption Spectrophotometer. The sample pulps were analyzed for Cu, Pb, Zn, Ag and As.

Detection limits and ranges are listed below:

Element	Detection Limit and Range
Copper	2 - 4,000 ppm
Lead	2 - 3,000 ppm
Zinc	2 - 3,000 ppm
Silver	0.2 - 20 ppm
Arsenic	2 - 1,000 ppm

Rock samples are crushed and pulverized to -150 mesh and subjected to the same preparation and analysis as the soil samples.

#### 3.4.2 Sample Preparation and Analysis for Gold (Rock, B and C Soil Horizons)

Following the drying and sieving process as described in section 3.2.1, a 10.0 gm. portion of the fines are placed in a crucible and roasted at 600 degree Celsius for one and half hours in a muffle furnace to oxidize organic matter and sulphide minerals. On cooling, the sample is transferred to a 150 ml. glass beaker. Digestion is achieved using 30 mls of aqua regia (three parts HCl, 2 parts H<sub>2</sub>O, 1 part HNO3) held at boiling for two hours. The solution is allowed to cool, bulked to 100 mls. stirred and left overnight to settle. Fifty mls. of the sample solution is decanted into a test tube. Seven mls. of MIBK is added to the solution which is shaken vigorously for three minutes. After allowing the solution to settle, gold is determined by aspiration of the MIBK solvent layer into the flame of Perkin Elmer 4000 atomic absorption spectrophotometer.

#### 3.4.3 Sample Preparation and Analysis for Au, Ag, As and Zn (Ao Soil Horizon)

Samples were dried at 60 C for 24 HRS or longer depending on how wet the samples were. The dried material was then macerated in a Wyllie mill. Eight grams were then weighed on a Kimwipe which was placed into a briquetting press and compressed under 30,000 PSI to form a wafer enclosed in a Kimwipe.

The briquettes were then irradiated for four hours at a thermal neutron flux of 1 x 10<sup>12</sup> n cm<sup>-2</sup>s<sup>-1</sup>. After a decay period of seven days, to allow for the activity from Na-24 to decay, the samples were then counted on a high purity germanium detector and the gamma spectrum then analyzed online by computer. Samples deemed to be anomalous and random samples were then remeasured as a quality control feature. Multi-element reports were then generated for the elements required automatically by computer.

#### 3.5 Discussion of Soil Geochemical Results

As only 8 C-horizon soil samples were obtained, there is not enough data to draw a comparison with other horizons. Thus there will be no further discussion of the C-horizon.

Although the samples were analyzed for other elements, only gold, copper and arsenic are considered relevant for this area and will be discussed in detail.

The Neutron Activation Analysis which was used for the A-horizon is not capable of detecting copper, therefore a comparison with the copper content of the B and C horizons is impossible.

The soil geochemical profles for copper, gold and arsenic may be viewed on figures 5 to 10 inclusive, while the following table outlines their statistical results.

STATISTICAL ANALYSIS

HORIZON	MAX	COPPE MIN	R (PPM)  AVERAGE	STD. DEV.	MAX	GOL MIN	D (PPB)  AVERAGE	ST. DEV	MAX	ARSEN MIN	VIC (PPM)	STD. DEV.
Α	N/A	N/A	N/A	N/A	20.0	0.5	2.8	4.5	4.0	0.5	0.6	0.6
B1 COARSE	1910	9	415	538	185	2.5	10.7	30.7	7	1	1.7	1.5
B1 FINE	1880	9	430	555	40	2.5	6.2	9.4	10	1	1.8	1.7
B2 COARSE	6100	14	977	1304	170	2.5	22.7	34.4	12	1	1.7	2.0
B2 FINE	9000	12	1195	1770	355	2.5	30.5	60.1	16	1	2.4	2.8
						·						
				·								

Copper anomalies, for the most, can be equally detected in the B1 and B2 fine and coarse fractions, however anomalies of the highest magnitude are concentrated in the B2 fine fraction.

Most of the gold anomalies concentrate in the B2 fine fraction and are of highest magnitude (up to 355 ppb). However, one anomalous station (line 4800N, station 9700E) not found in the B2 fine fraction because of a lack of sample, does occur in the B1 coarse fraction. This anomalous condition is also reflected in the A horizon, however it is subtle (2.0 ppb).

Arsenic anomalies are best concentrated in the B2 fine fraction, as it appears to host all of the anomalous conditions.

In most cases gold and copper tend to have a strong correlation, however at the west end of the lines (line 4800N station 9700E, line 5000N station 9760 to 9840E) there appears to be a gold anomaly without a corresponding copper correlation.

Arsenic and gold have a strong correlation (ie: wherever there is a gold anomaly there is a corresponding arsenic anomaly but not visa versa), with the arsenic being more widespread.

Arsenic and copper have a rather poor correlation with the arsenic anomalies either flanking or semi-coincident with the copper anomalies.

#### 3.6 Discussion of Lithogeochemical Results (Discovery Showing)

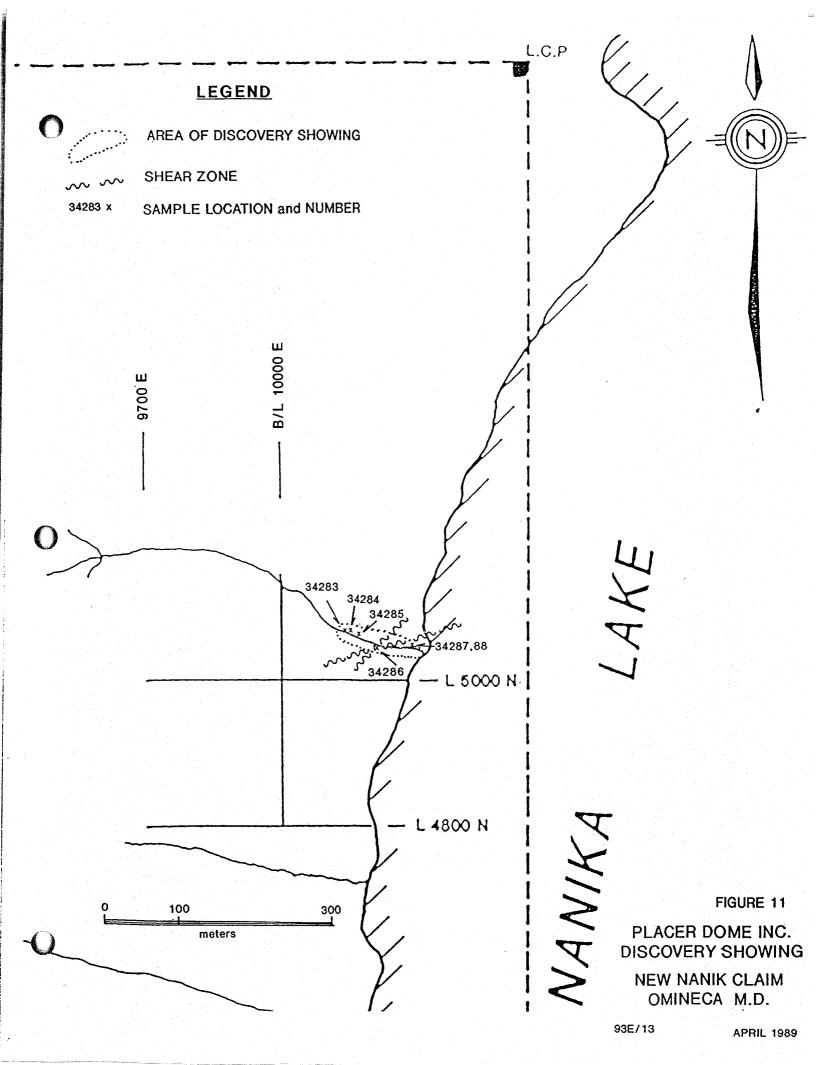
Six samples were taken from the Discovery Showing. The sample locations are found on Figure #11, and the sample reports may be viewed in Appendix II.

The results indicate that the copper mineralization, which ranges from 2170 ppm to 1.10%, mainly occurs within the andesites. The gold and associated arsenic values are quite low or below detection limits in areas which do not have any latter stage structural features. In the two areas of the showing which host a shear zone, the gold and arsenic values contained in the samples (# 34286, 34287 and 34288) increase to marginally anomalous and anomalous levels (ie: 60 ppb Au, 29 to 890 ppm As).

#### 4.0 Conclusions

It is found that the B2 horizon fine fraction is most suitable for the development of copper, gold and arsenic anomalies. It not only hosts most anomalous areas, but also tends to concentrate the highest geochemical values for the three elements.

The arsenic anomalies are generally more widespread than gold and always showed up in the B2 horizon fine fraction whenever gold was present in any of the fractions.



Gold and arsenic have an excelent correlation, gold and copper have a good correlation, and, arsenic and copper have a relatively poor correlation.

In most cases there is an associated copper-in-soil anomaly with the gold-in-soil anomaly, however, there appears to be indications of a gold only zone located (line 4800N station 9700E, line 5000N station 9760E to 9840E) just west of the main copper-in-soil anomaly.

The lithogeochemical results from the discovery showing indicate that anomalous gold and arsenic values are associated with shear zones in Hazelton volcanics.

#### 5.0 Recommendations

The B2 horizon fine fraction should be used for all future soil sampling surveys.

Exploration for gold mineralization should initially be focused on linear type structures (shear zones).

#### 6.0 Bibliography

Shear, H. H., November 18, 1971, Nanika Lake Property, Geological Report (unpublished report)

Appendix I

LABORATORY ANALYTICAL SHEETS

LIST DAT	CA FILE:			NAN	IKA - A	HORIZON						DATE: 89	:04:10	PAGE	1				
LINE	NORT	EAST	AG	AS	AU	BA	BR	co	CR	FE	MO	SB	sc	SE	TA	TH	Ū	W	ZN
1	4800.	9680.	1.00	0.50	2.00	50.00	3.00	0.50	5.00	0.16	0.25	0.05	0.70	1.00	0.25	0.25	0.20	0.50	33.00
1	4800.	9700.	1.00	0.50	2.00	50.00	2.00	1.00	6.00	0.13	0.25	0.05	0.00	1.00	0.25	0.25	0.20	0.50	34.00
1	4800.	9720.	1.00	0.50	1.00	50.00	2.00	0.50	12.00	0.23	0.25	0.05	1.10	1.00	0.25	0.70	0.30	0.50	20.00
1	4800.	9740.	1.00	0.50	1.00	50.00	3.00	0.50	2.00	0.03	0.25	0.05	0.20	1.00	0.25	0.25	0.05	0.50	34.00
1	4800.	9780.	1.00	0.50	2.00	50.00	3.00	0.50	1.00	0.03	0.25	0.05	0.05	1.00	0.25	1.20	1.00	0.50	48.00
1	4800.	9800.	1.00	0.50	0.50	50.00	2.00	0.50	10.00	0.21	0.25	0.05	0.90	1.00	0.25	0.25	0.10	0.50	26.00
1	4800.	9820.	1.00	0.50	0.50	50.00	5.00	0.50	3.00	0.05	0.25	0.05	0.20	1.00	0.25	0.25	0.05	0.50	33.00
1	4800.	9860.	1.00	0.50	1.00	50.00	2.00	0.50	2.00	0.03	0.25	0.05	0.20	1.00	0.25	0.25	0.05	0.50	39.00
1	4800.	9880.	1.00	0.50	2.00	50.00	2.00	0.50	1.00	0.05	0.25	0.05	0.20	1.00	0.25	0.25	0.05	0.50	44.00
1	4800.	9900.	1.00	0.50	1.00	50.00	3.00	0.50	1.00	0.03	0.25	0.05	0.20	1.00	0.25	0.25	0.05	0.50	31.00
1	4800.	9920.	1.00	0.50	0.50	50.00	2.00	0.50	1.00	0.03	0.25	0.05	0.10	1.00	0.25	0.25	0.05	0.50	10.00
1	4800.	9940.	1.00	0.50	6.00	50.00	2.00	0.50	1.00	0.03	0.25	0.05	0.10	1.00	0.25	0.25	0.05	0.50	30.00
1	4800.	9960.	1.00	0.50	1.00	50.00	4.00	0.50	0.50	0.03	0.60	0.05	0.05	1.00	0.25	0.25	0.05	0.50	23.00
1	4800.	9980.	1.00	0.50	1.00	50.00	3.00	0.50	0.50	0.03	0.60	0.05	0.05	1.00	0.25	0.25	0.05	0.50	20.00
1	4800.	10000.	1.00	0.50	13.00	50.00	2.00	1.00	7.00	0.82	11.00	0.05	4.20	1.00	0, 25	0.25	0.40	0.50	21.00
1	4800.	10020.	1.00	0.50	5.00	50.00	2.00	0.50	13.00	0.36	6.30	0.05	3.20	1.00	0.25	0.60	0.10	0.50	21.00
1	4800.	10040.	1.00	0.50	0.50	50.00	2.00	0.50	1.00	0.03	0.25	0.05	0.70	1.00	0.25	0.25	2.20	0.50	30.00
1	4800.	10060.	1.00	0.50	20.00	50.00	2.00	1.00	12.00	0.61	16.00	0.05	4.40	1.00	0.25	0.25	0.20	1.00	26.00
1	4800.	10080.	1.00	2.00	10.00	50.00	2.00	0.50	30.00	1.80	80.00	0.05	6.80	1.00	0.25	0.25	0.40	2.00	21.00
1	4800.	10100.	1.00	0.50	2.00	50.00	3.00	0.50	2.00	0.06	12.00	0.05	0.40	1.00	0.25	0.25	0.05	0.50	32.00
1	4800.	10120.	1.00	0.50	3.00	50.00	7.00	0.50	2.00	0.08	12.00	0.05	0.70	1.00	0.25	0.25	0.05	0.50	22.00
2	5000.	9740.	1.00	0.50	1.00	50.00	3.00	0.50	3.00	0.07	0.25	0.05	0.40	1.00	0.25	0.25	0.05	0.50	28.00
2	5000.	9760.	1.00	0.50	4.00	180.00	3.00	4.00	20.00	0.59	0.70	0.05	2.20	1.00	0.25	0.80	0.30	0.50	38.00
2	5000.	9780.	1.00	0.50	1.00	50.00	3.00	0.50	5.00	0.09	0.25	0.05	0.40	1.00	0.25	0.25	0.05	0.50	41.00
2	5000.	9800.	1.00	0.50	0.50	50.00	2.00	0.50	4.00	0.08	0.25	0.05	0.30	1.00	0.25	0.25	0.05	0.50	40.00
2	5000.	9820.	1.00	0.50	0.50	50.00	3.00	0.50	3.00	0.06	0.25	0.05	0.30	1.00	0.25	0.25	0.05	0.50	39.00
2	5000.	9840.	1.00	0.50	0.50	100.00	2.00	1.00	4.00	0.09	0.25	0.05	0.30	1.00	0.25	0.25	0.05	0.50	28.00
2	5000.	9860.	1.00	0.50	0.50	50.00	2.00	0.50	6.00	0.18	0.25	0.05	0.70	1.00	0.25	0.25	0.05	0.50	25.00
2	5000.	9880.	1.00	0.50	0.50	50.00	3.00	0.50	10.00	0.20	0.25	0.05	0.60	1.00	0.25	0.25	0.05	0.50	28.00
2	5000.	9900.	1.00	0.50	0.50	50.00	2.00	0.50	18.00	0.18	0.25	0.05	0.50	1.00	0.25	0.25	0.05	0.50	10.00
2	5000.	9920.	1.00	0.50	0.50	50.00	3.00	0.50	5.00	0.07	0.25	0.05	0.40	1.00	0.25	0.25	0.05	0.50	22.00
- 2	5000.	9940.	1.00	0.50	0.50	50.00	3.00	0.50	8.00	0.21	0.25	0.05	0.90	1.00	0.25	0.25	0.10	0.50	10.00
2	5000.	9960.	1.00	0.50	0.50	50.00	2.00	0.50	9.00	0.12	0.50	0.05	0.60	1.00	0.25	0.25	0.10	0.50	34.00
2	5000.	9980.	1.00	0.50	1.00	50.00	3.00	0.50	2.00	0.03	0.25	0.05	0.10	1.00	0.25	0.25	0.05	0.50	20.00
2	5000.	10000.	1.00	0.50	2.00	180.00	4.00	3.00	18.00	1.10	3.00	0.05	4.00	1.00	0.25	0.25	0.40	0.50	10.00
2	5000.	10020.	1.00	0.50	0.50	50.00	4.00	1.00	4.00	0.21	1.20	0.05	1.00	1.00	0.25	0.25	0.10	0.50	21.00
2	5000.	10040.	1.00	0.50	0.50	50.00	2.00	0.50	2.00	0.26	1.00	0.05	0.40	1.00	0.25	0.25	0.05	0.50	10.00
2	5000.	10060.	1.00	0.50	0.50	50.00	3.00	0.50	0.50	0.07	0.70	0.05	0.20	1.00	0.25	0.25	0.05	0.50	30.00
2	5000.	10080.	1.00	0.50	0.50	50.00	3.00	0.50	0.50	0.03	0.60	0.05	0.10	1.00	0.25	0.25	0.05	0.50	25.00
2	5000.	10100.	1.00	0.50	0.50	50.00	3.00	0.50	1.00	0.09	1.80	0.05	0.40	1.00	0.25	0.25	0.05	0.50	30.00
2	5000.	10120.	1.00	0.50	0.50	50.00	3.00	0.50	3.00	0.21	1.80	0.05	0.70	1.00	0.25	0.25	0.05	0.50	10.00
2	5000.	10140.	1.00	4.00	15.00	50.00	4.00	5.00	14.00	1.20	18,00	0.20	5.00	1.00	0.25	0.25	1.40	0.50	22.00
2	5000.	10160.	1.00	0.50	4.00	50.00	2.00	0.50	3.00	0.13	4.80	0.05	0.70	1.00	0.25	0.25	0.10	0.50	23.00
2	5000.	10180.	1.00	1.00	14.00	110.00	2.00	3.00	11.00	0.92	7.60	0.20	3.20	1.00	0.25	0.25	0.30	0.50	21.00

END OF LISTING - 44 RECORDS PRINTED

LIST	DATA	FILE:		NANIKA	- в1 но	RIZON COA	RSE FRACT	noi:				DATE:	89:04:10
LINE		NORT	EAST	AG	AS	AU1	BA	co	PB	SB	ZN		
1		4800.	9680.	0.10	2.00	2.50	0.01	14.00	20.00	1.00	62.00		
1		4800.	9700.	0.10	1.00	185.00	0.02	15.00	12.00	1.00	36.00		
1		4800.	9720.	0.50	1.00	2.50	0.03	14.00	9.00	1.00	42.00		
1		4800.	9740.	0.20	2.00	2.50	0.02	13,00	8.00	1.00	50.00		
1		4800.	9780.	0.10	1.00	2.50	0.02	14.00	7.00	1.00	46.00		
1		4800.	9800.	0.10	1.00	2.50	0.02	24.00	10.00	1.00	32.00		
1		4800.	9820. *	*****	*****	****	*****	*****	*****	*****	*****		
1		4800.	9860.	0.30	2.00	2.50	0.01	83.00	6.00	1.00	61.00		
1		4800.	9880.	0.40	1.00	2.50	0.01	160.00	7.00	1.00	55.00		
1		4800.	9900.	0.30	1.00	2.50	0.02	86.00	5.00	1.00	50.00		
1		4800.	9920.	0.30	1.00	2.50	0.02	80.00	6.00	1.00	48.00		
1		4800.	9940.	0.20	1.00	2.50	0.01	68.00	10.00	1.00	41.00		
1		4800.	9960.	0.40	1.00	5.00	0.01	500.00	8.00	1.00	43.00		
1		4800.	9980.	0.20	1.00	2.50	0.02	347.00	6.00	1.00	32.00		
1		4800.	10000.	1.50	1.00	50.00	0.01	1380.00	4.00	1.00	50.00		
1		4800.	10020.	1.20	1.00	20.00	0.01	1910.00	5.00	1.00	50.00		
1		4800.	10040.	2.40	1.00	40.00	0.01	1000.00	5.00	1.00	32.00		
1		4800.	10060.	1.10	1.00	15.00	0.01	1600.00	5.00	1.00	41.00		N
1		4800.	10080.	3.00	1.00	2.50	0.01	550.00	8.00	1.00	22.00		
1		4800.	10100.	0.70	1.00	2.50	0.01	510.00	8.00	1.00	20.00		
1		4800.	10120.	1.10	1.00	2.50	0.01	1460.00	3.00	1.00	27.00		
2		5000.	9760.	0.20	1.00	2.50	0.01	17.00	10.00	1.00	54.00		
2		5000.	9780.	0.30	1.00	2.50	0.01	22.00	8.00	1.00	35.00		
2		5000.	9800.	0.10	1.00	2.50	0.01	15.00	6.00	1.00	44.00		
2		5000.	9820.	0.20	2.00	2.50	0.02	14.00	8.00	1.00	37.00		
2		5000.	9840.	0.20	3.00	2.50	0.02	9.00	9.00	1.00	43.00		
2		5000.	9860.	0.20	1.00	2.50	0.02	11.00	9.00	1.00	45.00		
2		5000.	9900.	0.40	1.00	2.50	0.02	11.00	12.00	1.00	80.00		
2		5000.	9920.	0.10	3.00	2.50	0.02	16.00	6.00	1.00	46.00		
2		5000.	9940.	0.30	1.00	2.50	0.02	18.00	5.00	1.00	45.00		
2		5000.	9960.	0.20	1.00	2.50	0.03	20.00	6.00	1.00	34.00		
2		5000.	9980.	0.50	1.00	2.50	0.02	15.00	5.00	1.00	30.00		
2		5000.	10020.	0.40	1.00	15.00		1000.00	7.00	1.00	54.00		
2		5000.	10040.	0.80	4.00	2.50	0.02	810.00	3.00	1.00	30.00		
2		5000.	10060.	0.40	7.00	2.50	0.02	740.00	4.00	1.00	40.00		
2		5000.	10080.	0.70	5.00	2.50	0.01	650.00	4.00	1.00	34.00		
2		5000.	10100.	0.50	1.00	2.50	0.01	1180.00	3.00	1.00	36.00		
2		5000.	10120.	1.00	1.00	2.50	0.01	880.00	5.00	1.00	44.00		
2		5000.	10160.	1.20	7.00	2.50	0.01	525.00	6.00	1.00	18.00		

END OF LISTING - 39 RECORDS PRINTED

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PAGE 1

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	Parista .											
TTOM DA	TA FILE:			<b>51</b> 176								
DIST DA	TA FILE:		NANIKA	. – ыт нс	ORIZON FIN	E FRACTI	ON				DATE:	89:04:10
LINE	NORT	EAST	λG	AS	AU1	BA	CU	PB	SB	ZN		
1	4800.	9680.	0.10	1.00	2.50	0.02	14.00	25.00	1.00	65.00		
1	4800.	9700.	0.10	1.00	2.50	0.02	17.00	9.00	1.00	43.00		
1	4800.	9720.	0.70	1.00	2.50	0.02	22.00	13.00	1.00	47.00		
1	4800.	9740.	0.10	1.00	2.50	0.01	16.00	9.00	1.00	48.00		
1	4800.	9780.	0.10	1.00	2.50	0.02	21.00	10.00	1.00	54.00		
1	4800.	9800.	0.10	1.00	2.50	0.01	27.00	12.00	1.00	33.00		
1	4800.	9820.	0.10	1.00	2.50	0.02	23.00	12.00	1.00	53.00		
1	4800.	9860.	0.40	4.00	2.50	0.02	86.00	9.00	1.00	63.00		
1	4800.	9880.	0.60	3.00	2.50	0.01	222.00	7.00	1.00	64.00		
1	4800.	9900.	0.30	4.00	2.50	0.02	103.00	10.00	1.00	48.00		
1	4800.	9920.	0.40	1.00	2.50	0.01	107.00	8.00	1.00	41.00		
1	4800.	9940.	0.20	1.00	2.50	0.02	82.00	10.00	1.00	40.00		
1	4800.	9960.	0.40	3.00	2.50	0.01	600.00	11.00	1.00	44.00		
1	4800.	9980.	0.20	1.00	2.50	0.02	440.00	9.00	1.00	31.00		
1	4800.	10000.	1.10	1.00	20.00	0.01	1540.00	6.00	1.00	48.00		
1	4800.	10020.	1.00	1.00	25.00	0.01	1880.00	6.00	1.00	43.00		
1	4800.	10040.	2.50	1.00	40.00	0.01	930.00	7.00	1.00	28.00		
1	4800.	10060.	1.00	1.00	35.00	0.01	1410.00	5.00	1.00	32.00		
1	4800.	10080.	3.60	1.00	2.50	0.01	366.00	7.00	1.00	13.00		
1	4800.	10100.	1.10	10.00	25.00	0.01	500.00	8.00	1.00	25.00		
1	4800.	10120.	1.40	1.00	15.00	0.01	1550.00	5.00	1.00	30.00		
2	5000.	9760.	0.20	1.00	2.50	0.01	15.00	11.00	1.00	52.00		
2	5000.	9780.	0.20	1.00	2.50	0.02	12.00	11.00	1.00	39.00		
2	5000.	9800.	0.10	1.00	2.50	0.02	16.00	8.00	1.00	48.00		
2	5000.	9820.	0.10	1.00	2.50	0.02	14.00	8.00	1.00	35.00		
2	5000.	9840.	0.10	1.00	2.50	0.03	9.00	11.00	1.00	45.00		
2	5000.	9860.	0.20	1.00	2.50	0.03	13.00	13.00	1.00	50.00		
2	5000.	9900.	0.30	1.00	2.50	0.03	13.00	16.00	1.00	87.00		
2 .	5000.	9920.	0.20	1.00	2.50	0.02	24.00	7.00	1.00	60.00		
2	5000.	9940.	0.30	3.00	2.50	0.02	33.00	9.00	1.00	55.00		
2	5000.	9960.	0.20	1.00	2.50	0.03	30.00	9.00	1.00	36.00		
2	5000.	9980.	0.50	1.00	2.50	0.02	22.00	9.00	1.00	30.00		
2	5000.	10020.	0.40	1.00	2.50	0.01	1220.00	7.00	1.00	50.00		
2	5000.	10040.	0.50	1.00	2.50	0.01	930.00	4.00	1.00	42.00		
2	5000.	10060.	0.30	1.00	2.50	0.01	700.00	4.00	1.00	53.00		
2	5000.	10080.	0.40	1.00	2.50	0.01	870.00	5.00	1.00	40.00		
2	5000.	10100.	0.50	3.00	2.50	0.01	1360.00	6.00	1.00	43.00		
2	5000.	10120.	1.00	5.00	5.00	0.01	1020.00	6.00	1.00	42.00		
2	5000.	10160.	1.30	4.00	2.50	0.01	540.00	6.00	1.00	24.00		

PAGE 1

END OF LISTING - 39 RECORDS PRINTED

										<b>)</b>
LIST DAT	A FILE:		NANIR	A - B2 H	ORIZON CO	ARSE FRA	CTION			
LINE	NORT	EAST	AG	AS	AU1	BA	යා	PB	SB	ZN
1	4800.	9680.	0.10	4.00	2.50	0.03	37.00	9.00	1.00	52.00
1	4800.	9740.	0.10	1.00	2.50	0.04	19.00	5.00	1.00	70.00
1	4800.	9780.	0.10	1.00	2.50	0.03	16.00	6.00	1.00	50.00
1	4800.	9800.	0.10	1.00	2.50	0.04	20.00	6.00	1.00	46.00
1	4800.	9820.	0.10	1.00	2.50	0.03	26.00	8.00	1.00	72.00
1	4800.	9860.	0.10	1.00	25.00	0.02	1370.00	6.00	1.00	115.00
1	4800.	9880.	0.10	1.00	45.00	0.02	266.00	5.00	1.00	53.00
1	4800.	9900.	0.10	1.00	2.50	0.03	164.00	6.00	1.00	46.00
1	4800.	9920.	0.20	1.00	5.00	0.04	117.00	6.00	2.00	45.00
1	4800.	9940.	0.10	1.00	30.00	0.02	140.00	6.00	1.00	36.00
1	4800.	9960.	0.30	1.00	45.00	0.01	870.00	8.00	1.00	53.00
1	4800.	9980.	0.30	1.00	25.00	0.01	1320.00	8.00	1.00	45.00
1	4800.	10000.	1.30	4.00	60.00	0.01	2320.00	5.00	1.00	43.00
1	4800.	10020.	1.40	2.00	95.00	0.01	2350,00	6.00	1.00	52.00
1	4800.	10040.	1.80	1.00	60.00	0.01	1610.00	4.00	1.00	47.00
1	4800.	10060.	1.50	1.00	50.00	0.01	3200.00	6.00	1.00	56.00
1	4800.	10080.	1.70	1.00	5.00	0.01	950.00	7.00	1.00	47.00
1	4800.	10100.	0.60	1.00	15.00	0.01	590.00	5.00	1.00	21.00
1	4800.	10120.	0.60	1.00	2.50	0.01	780.00	8.00	1.00	18.00
2	5000.	9740.	0.30	1.00	2.50	0.01	14.00	12.00	1.00	70.00
2	5000.	9760.	0.30	1.00	2.50	0.01	19.00	8.00	1.00	60.00
2	5000.	9800.	0.10	1.00	2.50	0.01	21.00	5.00	1.00	53.00
2	5000.	9820.	0.10	1.00	2.50	0.01	18.00	6.00	1.00	55.00
2	5000.	9840.	0.10	1.00	2.50	0.02	16.00	15.00	1.00	54.00
2	5000.	9860.	0.10	1.00	2.50	0.04	14.00	6.00	1.00	52.00
2	5000.	9940.	0.10	1.00	2.50	0.03	24.00	4.00	1.00	52.00
2	5000.	9960.	0.10	4.00	2.50	0.04	25.00	6,00	1.00	32.00
2	5000.	9980.	0.10	1.00	2.50	0.03	22.00	5,00	1.00	34.00
2	5000.	10000.	0.50	1.00	20.00	0.01	720,00	11.00	1.00	73.00
2	5000.	10020.	0.30	1.00	2.50	0.02	890.00	8.00	1.00	81.00
2	5000.	10040.	0.30	1.00	2.50	0.03	880.00	5.00	1.00	40.00
2	5000.	10060.	0.10	1.00	2.50	0.02	2050.00	7.00	1.00	67.00
2	5000.	10080.	0.20	1.00	2.50	0.02	1440.00	5.00	1.00	51.00
2	5000.	10100.	0.40	1.00	10.00	0.02	1870.00	4.00	1.00	52.00
2	5000.	10120.	1.50	1.00	75.00	0.01	1420.00	2.00	1.00	40.00
2	5000.	10140.	0.90	6.00	40.00	0.01	6100.00	10.00	1.00	50.00
2	5000.	10160.	1.00	12.00	40.00	0.01	1440.00	8.00	1.00	37.00
2	5000.	10180.	1.60	1.00	170.00	0.01	4000.00	12.00	3.00	30.00

DATE: 89:04:10

PAGE 1

END OF LISTING - 38 RECORDS PRINTED

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LIST DATE	A FILE:		NANIK	А - в2 н		_	D			
LINE	nort	EAST	AG	AS	AU1	BA	CU	PB	SB	ZN
1	4800.	9680.	0.10	4.00	2.50	0.03	30.00	11.00	1.00	56.00
1	4800.	9740.	0.10	2.00	2.50	0.02	34.00	8.00	1.00	76.00
1	4800.	9780.	0.10	1.00	2.50	0.02	23.00	7.00	1.00	50.00
1	4800.	9800.	0.10	3.00	2.50	0.03	31.00	8.00	1.00	50.00
1	4800.	9820.	0.10	2.00	5.00	0.02	35.00	10.00	1.00	64.00
1	4800.	9860.	0.20	3.00	2.50	0.02	1160.00	6.00	1.00	80.00
1	4800.	9880.	0.10	5.00	30.00	0.01	400.00	6.00	1.00	50.00
1	4800.	9900.	0.10	2.00	2.50	0.02	196.00	7.00	1.00	41.00
1	4800.	9920.	0.30	3.00	2.50	0.03	165.00	7.00	1.00	48.00
1	4800.	9940.	0.10	2.00	2.50	0.02	163.00	5.00	1.00	30.00
1	4800.	9960.	0.50	1.00	30.00	0.01	1100.00	10.00	1.00	50.00
1	4800.	9980.	0.50	3.00	25.00	0.01	1680.00	12.00	1.00	52.00
1	4800.	10000.	0.80	2.00	55.00	0.01	2100.00	5.00	1.00	41.00
1	4800.	10020.	1.30	1.00	85.00	0.01	2540.00	6.00	1.00	52.00
1	4800.	10040.	1.90	1.00	70.00	0.01	1700.00	6.00	1.00	43.00
1	4800.	10060.	1.40	1.00	60.00	0.01	3500.00	7.00	1.00	58.00
1	4800.	10080.	1.30	1.00	10.00	0.01	790.00	7.00	1.00	40.00
1	4800.	10100.	0.70	1.00	18.00	0.01	555.00	7.00	1.00	22.00
1	4800.	10120.	0.60	8.00	15.00	0.01	800.00	9.00	1.00	16.00
2	5000.	9740.	0.10	1.00	2.50	0.02	12.00	15.00	1.00	68.00
2	5000.	9760.	0.10	1.00	10.00	0.02	16.00	11.00	1.00	70.00
2	5000.	9800.	0.10	4.00	50.00	0.01	27.00	8.00	1.00	50.00
2	5000.	9820.	0.10	1.00	20.00	0.02	24.00	7.00	1.00	55.00
2	5000.	9840.	0.10	1.00	10.00	0.03	21.00	20.00	1.00	63.00
2	5000.	9860.	0.10	6.00	2.50	0.03	18.00	8.00	1.00	48.00
. 2	5000.	9940.	0.10	1.00	2.50	0.03	33.00	8.00	1.00	43.00
2	5000.	9960.	0.10	1.00	2.50	0.02	40.00	6.00	1.00	28.00
2	5000.	9980.	0.10	1.00	2.50	0.03	32.00	7.00	1.00	33.00
2	5000.	10000.	0.50	1.00	2.50	0.01	1150.00	20.00	1.00	63.00
2	5000.	10020.	0.60	1.00	15.00	0.01	1230.00	10.00	1.00	73.00
2	5000.	10040.	0.20	5.00	2.50	0.01	930.00	5.00	1.00	41.00
2	5000.	10060.	0.10	16.00	10.00	0.02	2900.00	7.00	1.00	84.00
2	5000.	10080.	0.20	1.00	10.00	0.01	1770.00	4.00	1.00	46.00
2	5000.	10100.	0.20	1.00	15.00	0.01	2300.00	5.00	1.00	50.00
2	5000.	10120.	0.90	1.00	55.00	0.01	1520.00	5.00	1.00	44.00
2	5000.	10140.	0.20	1.00	85.00	0.01	9000.00	18.00	1.00	54.00
2	5000.	10160.	1.10	3.00	85.00	0.01	2000.00	12.00	1.00	46.00
2	5000.	10180.	1.10	1.00	355.00	0.01	5400.00	20.00	1.00	40.00

DATE: 89:04:10

PAGE 1

END OF LISTING - 38 RECORDS PRINTED

. 1:

LIST	DATA	FILE:		NANIK	А - С НО	RIZON COARS	e fract	NOI:				DATE:	89:04:10	PAGE
LINE		NORT	EAST	λG	AS	AU1	BA	CU	PB	SB	zn			
1		4800.	9700.	0.10	2.00	13.00	0.03	41.00	6.00	1.00	48.00			
1		4800.	9800.	0.10	1.00	2.50	0.04	50.00	6.00	1.00	43.00			
1		4800.	9900.	0.10	2.00	2.50	0.03	128.00	6.00	1.00	42.00			
2		5000.	9900.	0.20	2.00	5.00	0.02	9.00	5.00	1.00	21.00			
2		5000.	9940.	0.20	1.00	5.00	0.02	41.00	5.00	2.00	38.00			
2		5000.	9980.	0.10	1.00	2.50	0.02	31.00	4.00	1.00	33.00			
2		5000.	10000.	0.10	1.00	10.00	0.03	142.00	9.00	1.00	17.00			
2		5000.	10180.	0.40	3.00	40.00	0.02	2620.00	7.00	1.00	53.00			

END OF LISTING - 8 RECORDS PRINTED

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LIST DAT	A FILE:		NANII	ка – с но	DRIZON FIN	E FRACTI	ON		0		DATE: 89:04:10	PAGE 1	1
LINE	NORT	EAST	AG	AS	AU1	BA	cu	PB	SB	ZN			
1 1 1 2	4800. 4800. 4800. 5000.	9700. 9800. 9900. 9900.	0.10 0.10 0.20 0.10	1.00 2.00 1.00	15.00 60.00 10.00 2.50	0.04 0.02 0.03 0.02	43.00 36.00 154.00 6.00	5.00 8.00 4.00	1.00 1.00 1.00	56.00 61.00 44.00			
2 2 2 2	5000. 5000. 5000. 5000.	9940. 9980. 10000. 10180.	0.40 0.10 0.10 0.20	1.00 2.00 4.00 6.00	2.50 15.00 15.00 35.00	0.02 0.03 0.02 0.02 0.02	60.00 40.00 400.00 2630.00	5.00 6.00 6.00 21.00 8.00	1.00 1.00 1.00 1.00	22.00 45.00 38.00 27.00 53.00			

END OF LISTING - 8 RECORDS PRINTED

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Venture: BC GEN EXPL Area: NANIK CLAIM Geologist: 6 SHEVCHENKO

## AU1 RESULTS REPORTED IN PPB

# 	Proj:	P8401	Cu 	Īn	Pb	Ag	Au1	As	Sb	Ва
1		34283	840	45	9	<0.2	-==== (5	:====: }	•===== {2	
2		34284	1.10%	21	7	0.7	<b>(</b> 5	76	(2	
3		34285	1370	50	8.	0.2	<b>(</b> 5	(2	(2	
ų.		34286	2420	13	6-	0.2	<b>(</b> 5	29	(2	
5		34287	2170	47	18	0.5	60	890	7	
6		34288	0.30%	17	10	0.3	<b>(</b> 5	220	(Ž	
7		34288±	0.29%	15	Ģ		<b>(</b> 5	220	· <b>(</b> 2	

Appendix II
ROCK SAMPLE REPORTS



PROPERTY	NAME:	NEW NANIK	DATE:	OCTOBER 4, 1988
LOCATION:		NANIKA LAKE, B.C.	N.T.S:	93E/12
			SAMPLE	R: _G. SHEVCHENKO

SAMPLE NUMBER	LOCATION AND DESCRIPTION	Cample		GEOCHEM/ASSAY				
NUMBER		Sample Type	Width	Cu	Au	Ag	As	
34283	Discovery Showing - Quartz Monzonite with	GRAB		840 ppm	<5 ppb	0.2 ppm	3 ppm	
	disseminated very fine grained pyrite (3-5%) and							
	chalcopyrite (up to 1%)							
34284	Discovery Showing - Fractured andesite with	GRAB		1.10%	<5 ppb	0.7 ppm	76 ppm	
	disseminated very fine grained pyrite (10-15%)							
	and chalcopyrite (2-4%)							
	- Minor quartz veining							
34285	Discovery Showing - Quartz feldspar with	GRAB		1370 ppr	<5 ppb	0.2 ppm	2 ррп	
	disseminated pyrite (1-2%) and chalcopyrite (1%)							
	along with molybdenite (1%) occurring in stringers							
							<del></del>	

SAMPLE REPORT

PROPERTY NAME:	NEW NANIK	DATE:	OCTOBER 4, 1988
LOCATION:	NANIKA LAKE, B.C.	N.T.S:	93E/12
		SAMPLER	R: _G. SHEVCHENKO

SAMPLE	TOCAMION AND DESCRIPTION	g1-	wel als	GEOCHEM/ASSAY				
NUMBER	LOCATION AND DESCRIPTION	Sample Type	Width	Cu	Au	Ag	As	
34286	Discovery Showing - Sheared andesite with quartz infillings. Disseminated pyrite (3-5%) and	CHIP	2 meters	2420 ppm	<5 ppb	0.2 ppm	29 ppi	
	chalcopyrite (1%) - the shear zone is 2 to 3  meters in width (strike = 046°, dip = 90°)							
34287	Discovery Showing - Quartz veining within shear  zone (30 cm wide) carrying fine grained pyrite	CHIP	30 cm	2170 ppm	60 ppb	0.5 ppm	890 p	
	(3-25%) - shear zone dips 73° at 160°.							
34288	Discovery Showing - Float containing pyritic  quartz veins located in area of sample 34287	GRAB		0.30%	<5 ppb	0.3 ppm	220 p	

Appendix III

STATEMENT OF EXPENDITURES

#### STATEMENT OF EXPENDITURES

The following expenditures were incurred for the geochemical exploration programme on the New Nanik claim which was conducted from September 27 to October 6, 1988 (inclisive).

1. Labour (Salary and Benefits)		
G. Shevchenko - Geologist D. Travers - Field Assistant	8 days @ \$350/day 8 days @ \$200/day	\$2,800.00 \$1,600.00
2. Camp Costs (Room and Board)		
16 mandays @ \$75/day		\$1,200.00
3. Transportation		
<ul><li>a) Fixed wing from Smithers to Na</li><li>b) Truck rental and gas - 8 days @</li></ul>	nika Lake - Return \$55/day	\$ 984.00 \$ 440.00
4. Communication		
Radio rental and supplies		\$ 150.00
5. Geological and Camp Supplies		\$ 500.00
6. Analytical Charges		
a) 213 soil samples for Cu, Au, As, b) 6 rock samples for Cu, Au, Ag,	Ag @ \$13.30/sample As @ \$16/sample	\$2,832.90 \$ 96.00
7. Report Preparation		<b>\$1,000.00</b>
	TOTAL	\$11,602.90

Appendix IV

STATEMENT OF QUALIFICATIONS

#### STATEMENT OF QUALIFICATIONS

I, Glenn Shevchenko, of the municipality of Surrey, Britsh Columbia, do hereby certify that:

- 1. I am a graduate of Concordia University where I received a B.Sc. in Geology in May 1982.
- 2. I have practiced my profession part-time since 1977, and full-time since 1984.
- 3. I am a member in good standing with the Geological Association of Canada.
- 4. I am currently employed by Placer Dome Incorporated and was responsible for the field exploration on the New Nanik property.

Glenn Shevchenko

