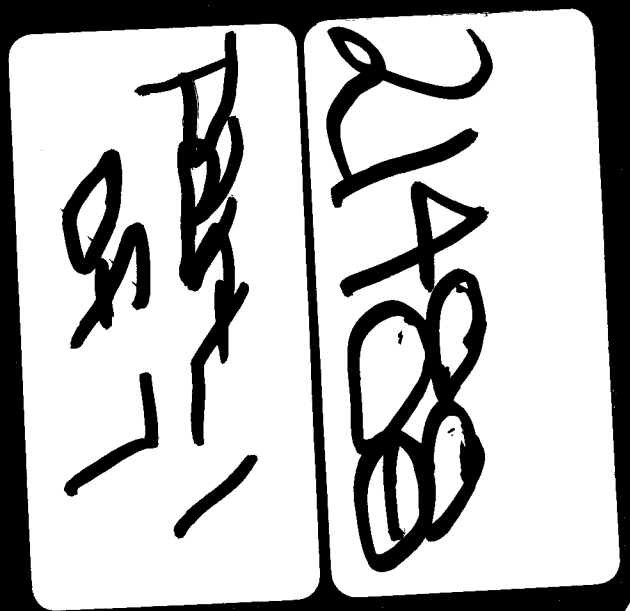
# DIAMOND DRILLING REPORT
on the
SITE C AREA,
MT. MILLIGAN PROJECT
Omineca Mining Division
British Columbia
NTS 93N/1 and 930/4

S.M. Price

May 1991



ASSESSMENT REPORTING
CONTINENTAL GOLD CORP.
SEE CLAIMS

TABLE OF CONTENTS

# CONTINENTAL GOLD CORP.
# SUMMARY REPORT OF GEOTECHNICAL COSTS
# SEE CLAIMS

## INTRODUCTION

Geotechnical exploration was conducted on Continental Gold Corp's SEE Claims during the period January to May 1991. These investigations supplemented the geological exploration activities on the Mt. Milligan and Southern Star ore bodies. The investigations were completed in order to determine if the area was acceptable as a tailings storage facility (Area C) and if so what design and construction requirements would be necessary.

Geotechnical investigations of surface and subsurface conditions comprised:

1. Core Drilling to establish material types, ground strength and ground moisture.

2. Packer testing to establish the permeability of the ground at various depths and lithologies.

3. Piezometer installations to establish permanent recording devises of ground water conditions and pore pressures.

4. Surficial geological mapping of the See Claims and in particular areas considered most appropriate for development either as an embankment of effluent storage location.

The geotechnical program was directed by Placer Dome Inc. and included the participation of consultant engineers each expert in the discipline of investigation required.

Considering the magnitude of the ore bodies, the areal extent of the SEE Claim group and size of the proposed process facilities the program was comprehensive and of major scope. In order to satisfactorily complete the site geotechnical work it was necessary to recommission the exploration camp, provide support services capable of extensive access road construction and organize all other activities normally required during a major exploration program.

The data acquired by the program was summarized in three reports. Each report outlined the program and the procedure and results particular to the discipline of study of the consultant writing the report. The data acquired, indicated that the SEE Claims were acceptable for the establishment of a tailings storage facility and provided the parameters for detailed design of the embankments and impoundments.

.../2-

The attached Assessment Reports and Statements of Expenditure are submitted in Accordance with the work and data gathering performed by the particular consultants. They are: The Preliminary Design of Area C, by Knight and Piesold Limited, Mt. Milligan Hydrogeology by Klohn-Leonoff and a Preliminary Appraisal of the surficial Geology of Tailings Impoundment Area "C" by Karl E. Ricker.

## THE PRELIMINARY DESIGN OF AREA C

*Core drilling and associated* geotechnical investigations were designed and field supervised by Knight and Piezold Ltd, consultant engineers. Extensive geotechnical information was obtained from 20 core drill locations, where one or two holes were completed to bedrock, and 43 test pits all within the SEE Claim groups. These holes and test pits provided soil types, physical characteristics and constituents plus the facilities for other studies. The information gathered from Knight and Piesold's geotechnical investigations was compiled in a report on The Preliminary Design of Area C plus two volumes of geotechnical reference data. The Assessment Report, the Statement of Expenditure and the three volumes are attached.

## THE FIRST VOLUME IS THE ALL ENCOMPASSING DESIGN REPORT. IT CONTAINS:

The detailed discussion of the parameters necessary for the development of the SEE Claims into a tailings storage facility. As well as the geotechnical considerations *determined through core drillings and geological* investigation covered by this assessment the report includes discussion regarding; the hydrometeorology, regional geology, seismicity, and the expected tailings characteristics.

Volume I of the Reference Data contains a narrative regarding the Geotechnical work plus associated tables, drawings and appendices of tests pit and test hole logs. The subjects covered in this volume were as follows:

Surficial Mapping and Test Pits
Geotechnical Drilling
Condemnation Drilling Overburden Logs
Piezometer Completions and Groundwater Level Measurements
Permeability Testing
Laboratory Testwork

.../3-

Volume II of the Reference Data contains additional appendices summarizing borehole permeabilities, laboratory test work and information regarding the second phase of geotechnical investigation as follows:

Surficial Geology
Geotechnical Drilling
Laboratory Testwork
plus the associated results, drawings, logs and grain size distributions.

## MT. MILLIGAN HYDROGEOLOGY

As a continuation of Knight and Piesold's work Klohn Leonoff were engaged to conduct the hydrogeological investigations. Their terms of reference were the entire property of which Area C within the SEE Claims was a major portion. Their report Mt. Milligan Hydrogeology outlines the work completed and results obtained.

Klohn Leonoff performed ground water pump tests, rising and falling head tests and ground water sampling. Geotechnical drill holes within the SEE Claims were converted to ground water wells for on going water sampling and monitoring. This enabled the development of ground flow systems within the alluvium and bedrock and established a baseline of hydrogeology data for tailings Area C within the SEE Claims.

A Preliminary Appraisal of the Surficial Geology of Tailings Impoundment Area "C".

Karl E. Ricker FGAC was retained to complete surficial geology investigations and mapping of the SEE Claims. The terms of reference provided a scan of the surficial geology at a small scale on all claims then a larger scale detailed investigation and map of the claim areas proposed for the construction of tailings facilities, embankments or storage reservoirs. The work utilized spectroscopy of areal photographs plus reviews of the logs from tests pits and geotech drill holes. The completed report summarizes the work done, outlines the surficial geology interpretation and contains the maps developed.

## CONCLUSION

The work summaries and Statements of Expenditures were prepared by R.H. Banner P. Eng. who was the Engineer assigned by Placer Dome Inc. to oversee the investigations of Area C. The information summarized was taken directly from the

.../4-

reports provided by the consultants. The cost statements were completed from invoiced costs acquired and processed by Placer Dome Inc's accounting group. The Statements of Expenditures made up the majority, but not the entirety of costs expended. It was not necessary to list minor associated entries that made up a small proportion of the work and total expenditure. The costs reported provided sufficient evidence of substantial development work done on the SEE Claims and satisfied the requirements of assessment reporting and verified the preliminary cost statements submitted earlier by Placer Dome Exploration.

| LOG NO: | RD. |
|---|---|
| ACTION: | |
| FILE NO: | |

# Diamond Drilling Report

on the

Site C Area,

Mt. Milligan Project

Omineca Mining Division

British Columbia

NTS 93N/1 and 93O/4

Lat. 55° 07' N  Long. 123° 47' W


Owners: Continental Gold Corp.
Vancouver, B.C.

Placer Dome Inc.
Vancouver, B.C.

Operator: Continental Gold Corp.
Vancouver, B.C.

Author: S.M. Price


Date: 28 May 1991

TABLE OF CONTENTS

## 1.0 SUMMARY

Eleven drillholes totalling 843.15 m were drilled in the Site C area of the Mt. Milligan property. The program objective was to prove that the Site C area has no, or very low potential for economic mineralization, specifically for copper and gold.

No significant visible mineralization was encountered in the holes. Analyses for copper and gold returned predominantly low, background values for both metals. No anomalous or economic grade copper or gold intersections were encountered.

The drilling results show no geological indications for the presence of economic mineralization, particularly for copper and gold. The Site C area has low mineral potential.

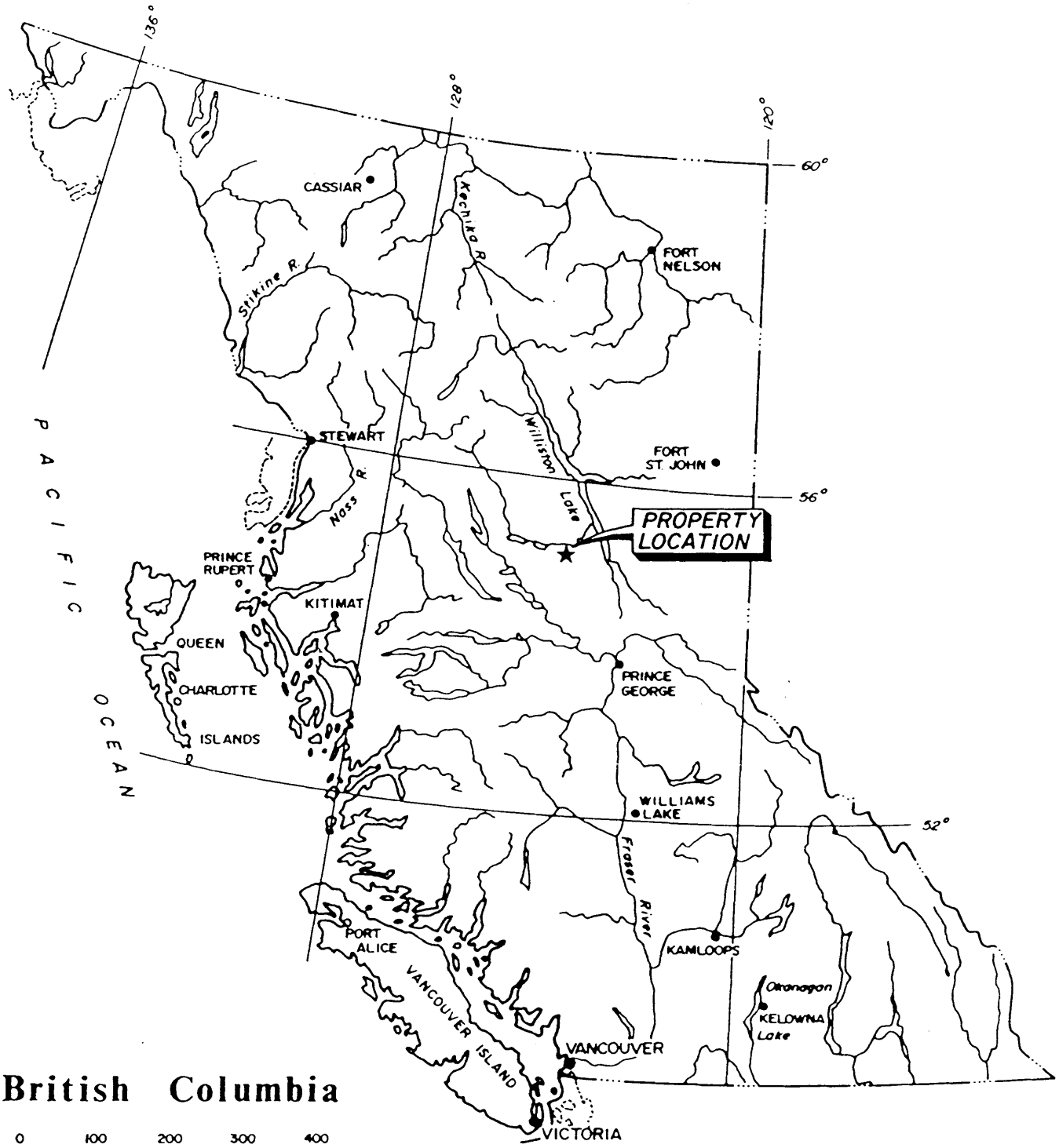
## 2.0 INTRODUCTION

Two large, low grade copper-gold porphyry deposits have been delineated on the Mt. Milligan property. They are approximately 7 km east-northeast of the Site C area. Both deposits, collectively called the Mt. Milligan deposits, are closely associated with alkaline intrusive bodies. The deposits consist of pyrite, chalcopyrite, gold, magnetite and trace bornite as disseminations and fracture-fillings. Copper and gold mineralization is hosted in zones of potassic alteration developed in both the monzonite intrusions and the adjacent volcanic rocks. This volcanic package belongs to the Witch Lake formation of the Takla Group. Copper and gold concentrations generally decrease in the propylitic alteration zone that is developed outside the zone of potassic alteration, mainly in the volcanic rocks.

The exploration program in the Site C area forms part of the engineering studies designed to locate a suitable site for proposed concentrator, tailings pond, and water storage pond facilities. Eleven NQ-sized diamond drillholes totalling 843.15 m, were drilled in the Site C area between 16 February and 29 February 1991. The objective of the drill program was to demonstrate the low potential for economic mineral deposits, particularly for copper-gold porphyry zones, at Site C.

D.W. Coates Enterprises Ltd. was contracted to carry out the drilling. Two Longyear 38 drill rigs were utilized to complete the program and were operated on a continuous 24 hour per day basis. One drill was skid-mounted and the second was a fly-rig. The skid-mounted drill was moved with a skidder; water was trucked to each site. The fly-rig was moved with a Northern Mountain Hughes 500D helicopter; water was pumped from nearby creeks or lakes.

Site preparation, snow ploughing and water delivery to the skid supported drill sites were contracted to P.E. Fisher Construction Corp. of Tumbler Ridge,




| PLACER DOME INC. | |
|---|---|
| MT. MILLIGAN | |
| SITE C | |
| Location Map | |
| Scale as shown | N.T.S. 93 O/4 |
| Date June 1990 | Figure 1 |

British Columbia.

Drill crews were mobilized to the drills via pick-up trucks from the Mt. Milligan Camp. The fly-rig crews used snowmobiles to access their drill from the main road system.

## 2.1 LOCATION, ACCESS AND PHYSIOGRAPHY

The Site C area lies about 7 km east-northeast of the Mt Milligan deposits, which is approximately 160 km northwest of Prince George, British Columbia (Fig. 1).

Access to the property from Prince George is via Highway 97 to Windy Point. The Philip Mainline logging road connects Windy Point to the property over a distance of approximately 95 km.

The Site C area is in hilly terrain with moderately sloping hills rising from about 1000 m to a maximum of 1267 m above mean sea level. Lakes and swamps occur at lower elevations. The area is forested with white spruce, fir, lodgepole pine, and locally alder.

## 2.2 CLAIMS

The Site C area of the Mt. Milligan Property is comprised of 28 modified grid claims totalling 401 units (Fig. 2). The claims are 100% owned by the joint venture partnership of Continental Gold Corp., Vancouver, British Columbia, and Placer Dome Inc., Vancouver, British Columbia. Continental Gold Corp. and Placer Dome Inc. hold 70% and 30% interest in the property, respectively. Placer Dome Inc. owns 100% of Continental Gold Corp. Table 2 contains claim information.

Table 2: Claim Information

| Claim | Record No. | Units | Anniversary Date |
|---|---|---|---|
| SEE 1 | 11663 | 8 | 3 April |
| SEE 2 | 11664 | 18 | 3 April |
| SEE 3 | 11665 | 20 | 3 April |
| SEE 4 | 11666 | 20 | 1 April |
| SEE 5 | 11667 | 20 | 3 April |
| SEE 6 | 11668 | 18 | 3 April |
| SEE 7 | 11669 | 20 | 1 April |
| SEE 8 | 11670 | 14 | 1 April |

| | | | |
|---|---|---|---|
| SEE 9 | 11671 | 20 | 3 April |
| SEE 10 | 11672 | 20 | 4 April |
| SEE 11 | 11673 | 20 | 4 April |
| SEE 12 | 11674 | 20 | 1 April |
| SEE 13 | 11675 | 18 | 4 April |
| SEE 14 | 11676 | 20 | 4 April |
| SEE 15 | 11677 | 20 | 1 April |
| SEE 16 | 11678 | 20 | 4 April |
| SEE 19 | 11679 | 16 | 4 April |
| SEE 20 | 11680 | 1 | 1 April |
| SEE 21 | 11681 | 1 | 1 April |
| SEE 22 | 11682 | 1 | 2 April |
| SEE 23 | 11683 | 1 | 1 April |
| SEE 24 | 11684 | 1 | 1 April |
| SEE 25 | 11685 | 1 | 1 April |
| SEE 26 | 11686 | 18 | 4 April |
| SEE 27 | 11687 | 20 | 4 April |
| | | | |
| RAINBOW 1 | 9766 | 20 | 2 Sept. |
| RAINBOW 2 | 9767 | 20 | 2 Sept. |
| RAINBOW 5 | 11966 | 5 | 10 June |

## 3.0 REGIONAL GEOLOGY

The Mt. Milligan property lies within the early Mesozoic Quesnel Terrane. Extending 1200 km northwesterly, the Quesnel Terrane includes rocks of the upper Triassic-lower Jurassic Takla, Nicola, and Stuhini Groups (Mortimer, 1986). To the west, deformed uplifted Permian Cache Creek Group rocks are separated from the Quesnel Terrane by the Pinchi Fault. To the east, the Manson Fault separates the Quesnel Belt from the Proterozoic/lower Paleozoic Wolverine Metamorphic Complex, and the Mississippian-Permian Slide Mountain and Cache Creek Groups.

In the Mt. Milligan area, the Quesnel Terrane is composed mostly of volcanic and sedimentary rocks of the Takla Group. Eocene-Oligocene volcanic and sedimentary rocks, which are preserved in fault-bounded early Tertiary basins, are also present. Takla Group comprises the informal Rainbow Creek, Inzana Lake, Witch Lake, and Chuchi Lake formations. Slate, and lesser siltstone and epiclastic sedimentary rocks form the Rainbow Creek formation. The Inzana formation contains epiclastic sedimentary rocks, which are overlain by augite porphyritic volcanic rocks and pyroclastic rocks of the Witch Lake formation. These rocks grade upward into polymictic lahars and subaerial flows of the Chuchi Lake formation. Takla Group is intruded by several large coeval alkalic intrusions and numerous smaller ones.

The Wolverine Metamorphic Complex consists of high-grade schists and gneisses. Generally these foliated rocks occur as dark grey-brown garnet-muscovite-biotite-feldspar gneisses interlayered with bands of schist. The schists tend to be quartz and feldspar rich (Ferri and Melville, 1988).

## 4.0 PROPERTY GEOLOGY

The Site C area appears to straddle the eastern boundary between the Quesnel Terrane Takla Group rocks, and Wolverine Metamorphic Complex and Slide Mountain Group rocks. The suture boundary between the terranes is within or proximal to the Site C area. Sparse information within this area makes rock group or formation classification difficult.

The tuffs, argillites, wackes and conglomerates intersected in the 1991 Site C area drill holes are probably from the Takla Group (Witch Lake and Inzana Lake Formations). However, it is possible that these units are part of Mississippian-Permian Slide Mountain Group. The presence of Slide Mountain gabbro in hole 91-851 and previous drillholes (90-676, 90-681, 90-682, and 90-711) in the south of the proposed tailings area suggests a possible association between these rock units.

Schists encountered in holes located in the proposed tailings pond are part of the Wolverine Metamorphic Complex. They are characterized by interlayered biotite-muscovite-rich, and quartz-feldspar-rich schists.

## 5.0 LOGGING AND SAMPLING PROCEDURES, AND DRILLHOLE INFORMATION

Drill core was logged by geologists at the Mt. Milligan campsite. Logging was done using a Placer Dome derivative of the Geolog system. Copies of the drill logs are in Appendix VII. Photographs were taken of all core. Geotechnical information was recorded by technicians prior to sampling.

Holes 91-852, -854, -856, -857, -859, and -860, were sampled from the top to the bottom. All other holes were sampled at the discretion of the geologist, with a minimum of one sample per six metre interval. Sample intervals were generally 2.0 m, but varied when constrained by changes of lithology, alteration, or mineralization.

Core samples consisted of half of the core from the sample interval. The core was split using manual core splitters, and samples were placed in polyethylene bags with two numbered assay tags. Samples were sent to the Placer Dome Inc. Research Laboratory, in Vancouver, where they were geochemically analyzed for gold and copper. Analytical techniques and detection limits are listed in Appendix III. Analytical results are listed in Appendix IV.

Table 1 shows the site location and depths of each hole. All holes were drilled at -90° inclination. Drillhole locations and geology are plotted on Fig. 3.

Table 1: Drillhole Information

| Drillhole | Site Location | Depth (m) |
|---|---|---|
| 91-851 | Tailings Pond | 84.12 |
| 91-852 | Tailings Pond | 75.90 |
| 91-853 | Tailings Pond | 75.29 |
| 91-854 | Concentrator | 76.26 |
| 91-856 | Concentrator | 75.29 |
| 91-857 | Tailings Pond | 75.29 |
| 91-858 | Tailings Pond | 76.20 |
| 91-859 | Tailings Pond | 75.29 |
| 91-860 | Tailings Pond | 76.81 |
| 91-861 | Water Storage Pond | 76.20 |
| 91-862 | Water Storage Pond | 76.50 |

Total Metreage: 843.15 m

## 6.0 PROPOSED CONCENTRATOR SITE

Two holes were drilled in the proposed concentrator site area: 91-854 and 91-856.

### 6.1 OVERBURDEN

Overburden in these two holes consists of clay, cobbles and small boulders of glacial till origin.

### 6.2 GEOLOGY

91-854

The first bedrock encountered was a pyroxene plagioclase latite crystal tuff probably from the upper Triassic Witch Lake formation. A 12 m healed fault zone marks the contact between the tuff, and lithic wackes and sedimentary conglomerates below. These sedimentary rocks are probably upper Triassic Inzana Lake formation.

91-856

The entire hole consisted of upper Triassic Inzana Lake(?) formation lithic wackes, argillites and conglomerates.

Discussion

Hole 91-854 intersected the contact between the Witch Lake(?) and Inzana Lake(?) formations. The stratigraphic relationship between the Witch and Inzana Lake formations (assuming they are not structurally overturned) and the intersection of the Witch Lake formation above Inzana Lake formation rocks in hole 91-854 suggests that this contact is westerly dipping. Assuming that smaller fault zones above the fault contact are synthetic, orientations of these small faults suggest that the fault contact is moderately to steeply dipping.

## 6.3 MINERALIZATION AND ALTERATION

No mineralization was seen in the crystal tuff. Rare carbonate stringers were encountered.

Rare pyrite was noted in the sedimentary rocks. It occurred: 1) as a narrow band within argillite, possibly diagenetic, 2) within occasional tuffaceous clasts in the conglomerates, and 3) as trace blebs within minor carbonate stringers.

Fault zones in both holes are commonly chloritized.

## 6.4 ANALYTICAL RESULTS

The majority of samples are below the detection limit for gold. The highest gold value is 35 ppb. Copper values are generally below 80 ppm. However, the latite crystal tuff in hole 91-854 averages 135 ppm with a low of 120 ppm and a high of 138 ppm.

# 7.0 PROPOSED TAILINGS POND SITE

Seven holes were drilled in the proposed tailings pond site: 91-851, 91-852, 91-853, 91-857, 91-858, 91-859, and 91-860.

## 7.1 OVERBURDEN

Overburden in the tailings pond area consists of fluvial and fluvio-

glacial material overlaying lacustrine clays. In places, the lacustrine clays are underlain by glacial till.

## 7.2 GEOLOGY

91-851

The first bedrock intersected was gabbro, which is possibly of the Mississippian-Permian Slide Mountain Group. Proterozoic/lower Paleozoic Wolverine Metamorphic Complex schist occurs below a faulted contact with the gabbro. The schist is comprised of biotite-quartz-muscovite ± garnet.

91-853

Argillite (Inzana Lake formation?) was intersected at the top of the hole. Biotite-quartz-muscovite-garnet and quartz-muscovite schists of the Wolverine Metamorphic Complex occur below a faulted contact with the argillite.

91-860

The core consists of faulted biotite-feldspar ± quartz schist of the Wolverine Complex. Faulting extends throughout the hole.

91-852, 91-857, 91-858, and 91-859

The core from these four holes consisted of Wolverine Complex schists ranging from quartz-feldspar-muscovite to biotite-quartz-garnet in composition.

Discussion

The contact between argillite and schists in hole 91-853, and the absence of this contact in holes 90-690, 90-685, 91-857, and 91-859 suggest that the contact strikes north-northeast and dips steeply to the west. This contact may be part of the suture zone between the Inzana Lake formation and the Wolverine Complex.

## 7.3 MINERALIZATION AND ALTERATION

Mineralization is limited to rare pyrite grains on fracture surfaces in most of the drillholes. Hole 91-853 had three small blebs of pyrrhotite on a broken surface.

Apart from the high-grade metamorphism that has affected the Wolverine Complex, no other alteration was observed.

### 7.4 ANALYTICAL RESULTS

The majority of samples returned gold values below detection limit. Hole 91-851 returned the highest gold value of 35 ppb. Copper values are generally below 60 ppm. Four samples have copper values greater than 200 ppm:

| DH | Sample | Cu Value |
|---|---|---|
| 91-851 | C490 | 272 ppm |
| 91-860 | C539 | 352 ppm |
| 91-860 | C552 | 243 ppm |
| 91-860 | C554 | 293 ppm |

Hole 91-860 shows slightly higher copper values than other holes in this area. This can probably be attributed to the extensive faulting observed in the hole acting as a fluid conduit.

## 8.0 PROPOSED WATER STORAGE POND SITE

Two holes were drilled in the proposed water storage pond area: 91-861 and 91-862.

### 8.1 OVERBURDEN

Overburden in these two holes consisted mostly of glacial till, with minor intersections of lacustrine clays and fluvial sands and gravels.

### 8.2 GEOLOGY

91-861

The core consisted entirely of Proterozoic/lower Permian Wolverine Metamorphic Complex biotite-quartz-feldspar-muscovite ± garnet schist. Minor rubbly fault zones cut the schist.

91-862

The hole progressed from strongly faulted Wolverine Complex biotite-

feldspar schist, to strongly sheared material (schist?), to a mylonite near the end of the hole. Recovery in the upper faulted zone was very poor.

### 8.3 MINERALIZATION AND ALTERATION

Hole 91-861 contained trace pyrrhotite on parting surfaces of the schist. The upper faulted zone of hole 91-862 contained up to 3% pyrite as veinlets (< 1mm), fracture coatings and disseminations.

Both holes exhibit the high-grade metamorphic alteration associated with the Wolverine Complex. Hole 91-862 showed moderate to strong, pervasive and microvein carbonate alteration. The mineralization and alteration in hole 91-862 is likely associated with fluids flowing through the intersected fault zone.

### 8.4 ANALYTICAL RESULTS

Gold values are below detection limit in both holes except for three samples. The highest of these samples was 91-862 C571, with 50 ppb gold. Copper results were all below 30 ppm for hole 91-861, and below 100 ppm for hole 91-862.

## 9.0 CONCLUSIONS

1. The geological setting of the Site C area differs from that of the Mt. Milligan deposits.

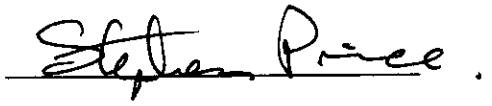
2. No significant visible mineralization was encountered in the diamond drilling of the Site C area. Minor to trace quantities of sulphides were noted occasionally.

3. There are no geological indications of economic mineralization; hydrothermal alteration is minimal.

4. Analytical results demonstrate that copper and gold concentrations are at background values in all the Site C 1991 diamond drill holes.

5. The Site C area has low potential for economic mineralization, particularly for copper and gold.

Respectfully Submitted by,
**PLACER DOME INC.**



Stephen M. Price

DATE: 28 May 1991

APPENDIX I
Statement of Expenditures

## Statement of Expenditures

| | |
|---|---|
| **Personnel: Salary and Benefits** | |
| R. Moses, Geologist 15 days @ $365/day | $ 5,475.00 |
| S. Price, Geologist 15 days @ $300/day | 4,500.00 |
| O. Dodd, Cook 15 days @ $300/day | 4,500.00 |
| S. Wallace, Geotechnician 15 days @ $250/day | 3,750.00 |
| L. Pollock, Secretary, 15 days @ $220/day | 3,300.00 |
| M. Reid, Expediter, 15 days @ $220/day | 3,300.00 |
| **Transportation** | |
| 2 4x4 Trucks, 15 days @ $40/truck/day | 1,200.00 |
| Gasoline | 1,553.42 |
| Airfare: | |
| R. Moses Spokane-Vancouver-Prince George-Vancouver-Spokane | 613.20 |
| S. Price Vancouver-Prince George-Vancouver | 480.00 |
| M. Reid Prince George-Vancouver-Kamloops | 291.80 |
| **Room and Board** | |
| *Central Interior Catering* Invoice No. 347 -includes First Aid Attendant, Bull cook, food and supplies. | 13,241.86 |
| Room 20 men for 15 days @ $20/man/day | 6,000.00 |
| **Communication** | |
| Infosat Invoice No. 1310 | 1,150.41 |
| **Drilling** | 98,852.70 |
| **Road Construction, Ploughing and Water Haulage** | 19,295.77 |
| **Surveying** | |
| MacElhanney Associates | 6,671.10 |
| Sperry-Sun Rental | 1,866.48 |

| | | |
|---|---|---|
| Helicopter | | |
| 62.1 Hrs @ $672.00/Hr (including oil) | | 41,731.20 |
| Fuel: 7,549.69 L @ $1.12/L | | 8,455.65 |
| 207.11 L @ $0.60/L | | 124.27 |
| Freight | | |
| Canadian Freightways | | 1,375.37 |
| P.G. Lite Express | | 663.00 |
| Argus Carriers | | 1,160.61 |
| Analyses | | |
| 201 Drill core samples, Au, Cu Geochem @ $10.25/sample | | 2,060.25 |
| Miscellaneous Supplies | | 1,500.00 |
| Report Preparation | | 2,000.00 |
| TOTAL | $ | 235,112.09 |

APPENDIX II
Statement of Qualifications

STATEMENT OF QUALIFICATIONS: S. PRICE

I, Stephen Price, of the City of Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia where I received a B.Sc. in Geology in May, 1987.

2. I am currently employed by Placer Dome Inc.

3. I have practised my profession since graduation.

4. I am an associate of the Geological Association of Canada.

5. I was present for the work done on the Site C area described in this report. I reviewed the data, and wrote this report.

Stephen M. Price

# APPENDIX III
## Analytical Techniques and Detection Limits

## ANALYTICAL TECHNIQUES AND DETECTION LIMITS

Placer Dome Research Centre, Vancouver

| Units | Wt(g) | Attack | Time | Range | Method |
|---|---|---|---|---|---|
| Au ppb | 10.0 | Aqua Regia | 3 hrs | 5-4000 | A.A. Solvent Extraction |
| Cu ppm | 0.5 | HCLO4/HNO3 | 4 hrs | 2-4000 | Atomic Absorption |

# APPENDIX IV
# Analytical Results

LIST DATA FILE: V279 MT MILLIGAN - SITE C ASSAYS

| HOLE | SAMP | FROM | TO | AU1 | CU |
|---|---|---|---|---|---|
| 91-851 | C488 | 19.00 | 21.0 | 35.00 | 75.00 |
| 91-851 | C489 | 22.00 | 24.0 | 25.00 | 29.00 |
| 91-851 | C490 | 30.00 | 32.0 | 2.50 | 272.00 |
| 91-851 | C491 | 35.00 | 37.0 | 2.50 | 72.00 |
| 91-851 | C492 | 39.00 | 41.0 | 2.50 | 58.00 |
| 91-851 | C493 | 42.00 | 44.0 | 2.50 | 83.00 |
| 91-851 | C494 | 46.00 | 48.0 | 2.50 | 65.00 |
| 91-851 | C495 | 49.00 | 51.0 | 2.50 | 100.00 |
| 91-851 | C496 | 52.00 | 54.0 | 2.50 | 52.00 |
| 91-851 | C497 | 54.00 | 55.9 | 2.50 | 138.00 |
| 91-851 | C498 | 55.86 | 58.0 | 2.50 | 128.00 |
| 91-851 | C499 | 59.00 | 61.0 | 2.50 | 75.00 |
| 91-851 | C500 | 63.00 | 65.0 | 25.00 | 91.00 |
| 91-851 | C501 | 69.00 | 71.0 | 10.00 | 168.00 |
| 91-851 | C502 | 74.00 | 76.6 | 2.50 | 75.00 |
| 91-851 | C503 | 76.60 | 78.5 | 2.50 | 7.00 |
| 91-851 | C504 | 78.53 | 80.0 | 10.00 | 62.00 |
| 91-851 | C505 | 80.00 | 82.0 | 2.50 | 73.00 |
| 91-852 | C506 | 57.00 | 59.0 | 2.50 | 18.00 |
| 91-852 | C507 | 59.00 | 61.0 | 2.50 | 20.00 |
| 91-852 | C508 | 61.00 | 63.0 | 2.50 | 29.00 |
| 91-852 | C509 | 63.00 | 65.0 | 2.50 | 11.00 |
| 91-852 | C510 | 65.00 | 67.0 | 2.50 | 7.00 |
| 91-852 | C511 | 67.00 | 68.2 | 2.50 | 5.00 |
| 91-852 | C512 | 68.17 | 70.0 | 2.50 | 16.00 |
| 91-852 | C513 | 70.00 | 71.2 | 2.50 | 19.00 |
| 91-852 | C514 | 71.23 | 73.0 | 2.50 | 3.00 |
| 91-852 | C515 | 73.00 | 75.9 | 2.50 | 3.00 |
| 91-853 | C927 | 16.00 | 18.0 | 2.50 | 37.00 |
| 91-853 | C928 | 20.00 | 22.0 | 2.50 | 60.00 |
| 91-853 | C929 | 23.40 | 25.0 | 2.50 | 24.00 |
| 91-853 | C930 | 25.00 | 27.0 | 2.50 | 31.00 |
| 91-853 | C931 | 30.00 | 32.0 | 2.50 | 14.00 |
| 91-853 | C932 | 36.00 | 38.0 | 2.50 | 17.00 |
| 91-853 | C933 | 38.00 | 40.0 | 2.50 | 13.00 |
| 91-853 | C934 | 42.00 | 44.2 | 2.50 | 10.00 |
| 91-853 | C935 | 48.00 | 50.0 | 2.50 | 11.00 |
| 91-853 | C936 | 50.00 | 52.0 | 30.00 | 14.00 |
| 91-853 | C937 | 52.00 | 54.0 | 2.50 | 7.00 |
| 91-853 | C938 | 54.00 | 56.0 | 2.50 | 11.00 |
| 91-853 | C939 | 56.00 | 58.0 | 2.50 | 12.00 |
| 91-853 | C940 | 61.40 | 63.0 | 2.50 | 8.00 |
| 91-853 | C941 | 67.00 | 69.0 | 2.50 | 8.00 |
| 91-853 | C942 | 71.00 | 73.0 | 2.50 | 5.00 |
| 91-853 | C943 | 73.00 | 75.0 | 2.50 | 5.00 |
| 91-854 | C944 | 9.45 | 11.0 | 2.50 | 44.00 |
| 91-854 | C945 | 11.00 | 13.0 | 35.00 | 137.00 |
| 91-854 | C946 | 13.00 | 15.0 | 20.00 | 137.00 |
| 91-854 | C947 | 15.00 | 17.0 | 20.00 | 133.00 |
| 91-854 | C948 | 17.00 | 19.0 | 15.00 | 137.00 |
| 91-854 | C949 | 19.00 | 21.0 | 2.50 | 138.00 |
| 91-854 | C950 | 21.00 | 23.0 | 15.00 | 136.00 |
| 91-854 | C951 | 23.00 | 25.0 | 2.50 | 132.00 |
| 91-854 | C952 | 25.00 | 27.0 | 10.00 | 130.00 |
| 91-854 | C953 | 27.00 | 29.0 | 2.50 | 129.00 |
| 91-854 | C954 | 29.00 | 31.0 | 2.50 | 131.00 |
| 91-854 | C955 | 31.00 | 33.0 | 2.50 | 128.00 |
| 91-854 | C956 | 33.00 | 35.0 | 2.50 | 130.00 |
| 91-854 | C957 | 35.00 | 37.0 | 2.50 | 126.00 |
| 91-854 | C958 | 37.00 | 39.0 | 2.50 | 131.00 |

LIST DATA FILE: V279 MT MILLIGAN - SITE C ASSAYS

| HOLE | SAMP | FROM | TO | AU1 | CU |
|---|---|---|---|---|---|
| 91-854 | C959 | 39.00 | 41.0 | 2.50 | 120.00 |
| 91-854 | C960 | 41.00 | 43.0 | 10.00 | 71.00 |
| 91-854 | C961 | 43.00 | 45.0 | 15.00 | 74.00 |
| 91-854 | C962 | 45.00 | 47.4 | 2.50 | 80.00 |
| 91-854 | C963 | 47.40 | 49.8 | 2.50 | 70.00 |
| 91-854 | C964 | 49.80 | 52.0 | 35.00 | 47.00 |
| 91-854 | C965 | 52.00 | 54.0 | 15.00 | 49.00 |
| 91-854 | C966 | 54.00 | 56.0 | 2.50 | 40.00 |
| 91-854 | C967 | 56.00 | 58.0 | 2.50 | 40.00 |
| 91-854 | C968 | 58.00 | 60.0 | 2.50 | 47.00 |
| 91-854 | C969 | 60.00 | 62.0 | 2.50 | 45.00 |
| 91-854 | C970 | 62.00 | 64.0 | 2.50 | 47.00 |
| 91-854 | C971 | 64.00 | 66.0 | 2.50 | 45.00 |
| 91-854 | C972 | 66.00 | 68.0 | 2.50 | 51.00 |
| 91-854 | C973 | 68.00 | 69.6 | 2.50 | 52.00 |
| 91-854 | C974 | 69.55 | 72.1 | 10.00 | 45.00 |
| 91-854 | C975 | 72.10 | 74.0 | 2.50 | 66.00 |
| 91-854 | C976 | 74.00 | 76.3 | 20.00 | 82.00 |
| 91-856 | C977 | 15.24 | 17.0 | 2.50 | 45.00 |
| 91-856 | C978 | 17.00 | 19.0 | 30.00 | 45.00 |
| 91-856 | C979 | 19.00 | 21.0 | 15.00 | 41.00 |
| 91-856 | C980 | 21.00 | 23.0 | 20.00 | 43.00 |
| 91-856 | C981 | 23.00 | 24.9 | 2.50 | 41.00 |
| 91-856 | C982 | 24.90 | 27.4 | 20.00 | 144.00 |
| 91-856 | C983 | 27.40 | 29.0 | 2.50 | 41.00 |
| 91-856 | C984 | 29.00 | 31.0 | 2.50 | 41.00 |
| 91-856 | C985 | 31.00 | 33.0 | 20.00 | 42.00 |
| 91-856 | C986 | 33.00 | 35.0 | 20.00 | 48.00 |
| 91-856 | C987 | 35.00 | 37.0 | 2.50 | 89.00 |
| 91-856 | C988 | 37.00 | 39.0 | 20.00 | 46.00 |
| 91-856 | C989 | 39.00 | 41.0 | 15.00 | 42.00 |
| 91-856 | C990 | 41.00 | 43.0 | 2.50 | 38.00 |
| 91-856 | C991 | 43.00 | 45.0 | 10.00 | 44.00 |
| 91-856 | C992 | 45.00 | 47.0 | 10.00 | 43.00 |
| 91-856 | C993 | 47.00 | 49.0 | 15.00 | 42.00 |
| 91-856 | C994 | 49.00 | 50.3 | 2.50 | 65.00 |
| 91-856 | C995 | 50.30 | 51.6 | 25.00 | 61.00 |
| 91-856 | C996 | 51.60 | 53.0 | 2.50 | 43.00 |
| 91-856 | C997 | 53.00 | 54.2 | 2.50 | 47.00 |
| 91-856 | C998 | 54.20 | 56.0 | 2.50 | 38.00 |
| 91-856 | C999 | 56.00 | 58.0 | 2.50 | 41.00 |
| 91-856 | C1000 | 58.00 | 60.0 | 35.00 | 40.00 |
| 91-856 | C1001 | 60.00 | 62.0 | 2.50 | 56.00 |
| 91-856 | C1002 | 62.00 | 64.0 | 2.50 | 54.00 |
| 91-856 | C1003 | 64.00 | 66.0 | 2.50 | 45.00 |
| 91-856 | C1004 | 66.00 | 68.0 | 35.00 | 40.00 |
| 91-856 | C1005 | 68.00 | 70.0 | 2.50 | 42.00 |
| 91-856 | C1006 | 70.00 | 72.0 | 20.00 | 39.00 |
| 91-856 | C1007 | 72.00 | 73.3 | 2.50 | 53.00 |
| 91-856 | C1008 | 73.30 | 75.3 | 15.00 | 46.00 |
| 91-857 | C1009 | 43.05 | 45.0 | 5.00 | 4.00 |
| 91-857 | C1010 | 45.00 | 47.0 | 5.00 | 3.00 |
| 91-857 | C1011 | 47.00 | 49.2 | 5.00 | 3.00 |
| 91-857 | C1012 | 49.16 | 50.9 | 2.50 | 12.00 |
| 91-857 | C1013 | 50.90 | 53.0 | 2.50 | 4.00 |
| 91-857 | C1014 | 53.00 | 55.1 | 2.50 | 4.00 |
| 91-857 | C1015 | 55.12 | 57.0 | 5.00 | 4.00 |
| 91-857 | C1016 | 57.00 | 59.0 | 2.50 | 3.00 |
| 91-857 | C1017 | 59.00 | 60.8 | 2.50 | 3.00 |
| 91-857 | C1018 | 60.83 | 63.0 | 2.50 | 19.00 |

LIST DATA FILE: V279 MT MILLIGAN - SITE C ASSAYS

| HOLE | SAMP | FROM | TO | AU1 | CU |
|---|---|---|---|---|---|
| 91-857 | C1019 | 63.00 | 65.0 | 2.50 | 30.00 |
| 91-857 | C1020 | 65.00 | 67.3 | 2.50 | 24.00 |
| 91-857 | C1021 | 67.30 | 69.2 | 2.50 | 9.00 |
| 91-857 | C1022 | 69.25 | 71.0 | 2.50 | 24.00 |
| 91-857 | C1023 | 71.00 | 73.0 | 2.50 | 27.00 |
| 91-857 | C1024 | 73.00 | 75.3 | 2.50 | 19.00 |
| 91-858 | C516 | 26.00 | 28.0 | 5.00 | 26.00 |
| 91-858 | C517 | 32.00 | 34.0 | 2.50 | 11.00 |
| 91-858 | C518 | 37.00 | 39.0 | 2.50 | 24.00 |
| 91-858 | C519 | 39.00 | 41.0 | 2.50 | 11.00 |
| 91-858 | C520 | 45.00 | 47.0 | 2.50 | 21.00 |
| 91-858 | C521 | 47.74 | 48.7 | 2.50 | 19.00 |
| 91-858 | C522 | 52.00 | 54.0 | 2.50 | 25.00 |
| 91-858 | C523 | 57.00 | 59.0 | 2.50 | 15.00 |
| 91-858 | C524 | 61.00 | 63.0 | 2.50 | 18.00 |
| 91-858 | C525 | 68.00 | 70.0 | 2.50 | 28.00 |
| 91-858 | C526 | 74.00 | 76.0 | 2.50 | 23.00 |
| 91-859 | C2829 | 42.88 | 45.0 | 2.50 | 9.00 |
| 91-859 | C2830 | 45.00 | 47.0 | 2.50 | 11.00 |
| 91-859 | C2831 | 47.00 | 48.9 | 2.50 | 7.00 |
| 91-859 | C2832 | 48.90 | 49.8 | 2.50 | 27.00 |
| 91-859 | C2833 | 49.85 | 51.7 | 2.50 | 8.00 |
| 91-859 | C2834 | 51.67 | 54.0 | 2.50 | 19.00 |
| 91-859 | C2835 | 54.00 | 56.0 | 2.50 | 12.00 |
| 91-859 | C2836 | 56.00 | 58.0 | 2.50 | 49.00 |
| 91-859 | C2837 | 58.00 | 60.0 | 2.50 | 38.00 |
| 91-859 | C2838 | 60.00 | 62.0 | 5.00 | 26.00 |
| 91-859 | C2839 | 62.00 | 64.0 | 2.50 | 27.00 |
| 91-859 | C2840 | 64.00 | 66.0 | 2.50 | 25.00 |
| 91-859 | C2841 | 66.00 | 68.3 | 2.50 | 20.00 |
| 91-859 | C2842 | 68.35 | 70.0 | 2.50 | 71.00 |
| 91-859 | C2843 | 70.00 | 72.0 | 10.00 | 91.00 |
| 91-859 | C2844 | 72.00 | 74.0 | 2.50 | 51.00 |
| 91-859 | C2845 | 74.00 | 75.3 | 2.50 | 72.00 |
| 91-860 | C527 | 18.29 | 20.0 | 2.50 | 75.00 |
| 91-860 | C528 | 20.00 | 22.0 | 10.00 | 73.00 |
| 91-860 | C529 | 22.00 | 24.0 | 30.00 | 95.00 |
| 91-860 | C530 | 24.00 | 26.0 | 5.00 | 95.00 |
| 91-860 | C531 | 26.00 | 28.0 | 10.00 | 61.00 |
| 91-860 | C532 | 28.00 | 30.0 | 25.00 | 185.00 |
| 91-860 | C533 | 30.00 | 32.0 | 20.00 | 119.00 |
| 91-860 | C534 | 32.00 | 34.0 | 25.00 | 158.00 |
| 91-860 | C535 | 34.00 | 36.0 | 2.50 | 105.00 |
| 91-860 | C536 | 36.00 | 38.0 | 15.00 | 69.00 |
| 91-860 | C537 | 38.00 | 40.0 | 15.00 | 88.00 |
| 91-860 | C538 | 40.00 | 42.0 | 5.00 | 66.00 |
| 91-860 | C539 | 42.00 | 44.0 | 2.50 | 352.00 |
| 91-860 | C540 | 44.00 | 46.0 | 2.50 | 26.00 |
| 91-860 | C541 | 46.00 | 48.0 | 2.50 | 22.00 |
| 91-860 | C542 | 48.00 | 50.0 | 2.50 | 137.00 |
| 91-860 | C543 | 50.00 | 52.0 | 2.50 | 141.00 |
| 91-860 | C544 | 52.00 | 54.0 | 2.50 | 100.00 |
| 91-860 | C545 | 54.00 | 56.0 | 2.50 | 62.00 |
| 91-860 | C546 | 56.00 | 58.0 | 2.50 | 33.00 |
| 91-860 | C547 | 58.00 | 60.0 | 2.50 | 97.00 |
| 91-860 | C548 | 60.00 | 62.0 | 2.50 | 36.00 |
| 91-860 | C549 | 62.00 | 64.0 | 2.50 | 18.00 |
| 91-860 | C550 | 64.00 | 66.0 | 2.50 | 62.00 |
| 91-860 | C551 | 66.00 | 68.0 | 2.50 | 49.00 |
| 91-860 | C552 | 68.00 | 70.0 | 2.50 | 243.00 |

LIST DATA FILE: V279 MT MILLIGAN - SITE C ASSAYS

| HOLE | SAMP | FROM | TO | AU1 | CU |
|---|---|---|---|---|---|
| 91-860 | C553 | 70.00 | 72.0 | 2.50 | 68.00 |
| 91-860 | C554 | 72.00 | 74.0 | 2.50 | 293.00 |
| 91-860 | C555 | 74.00 | 76.8 | 2.50 | 185.00 |
| 91-861 | C556 | 36.00 | 38.0 | 2.50 | 20.00 |
| 91-861 | C557 | 41.00 | 43.0 | 2.50 | 17.00 |
| 91-861 | C558 | 43.00 | 45.0 | 2.50 | 8.00 |
| 91-861 | C559 | 48.00 | 50.0 | 2.50 | 8.00 |
| 91-861 | C560 | 53.00 | 55.0 | 2.50 | 15.00 |
| 91-861 | C561 | 60.00 | 62.0 | 2.50 | 21.00 |
| 91-861 | C562 | 65.00 | 67.0 | 2.50 | 18.00 |
| 91-861 | C563 | 70.00 | 72.0 | 25.00 | 26.00 |
| 91-861 | C564 | 74.00 | 76.0 | 2.50 | 27.00 |
| 91-862 | C565 | 35.36 | 39.3 | 2.50 | 75.00 |
| 91-862 | C566 | 41.00 | 43.0 | 2.50 | 64.00 |
| 91-862 | C567 | 51.82 | 53.6 | 10.00 | 80.00 |
| 91-862 | C568 | 61.00 | 63.0 | 2.50 | 92.00 |
| 91-862 | C569 | 66.00 | 68.0 | 2.50 | 48.00 |
| 91-862 | C570 | 70.00 | 72.2 | 2.50 | 75.00 |
| 91-862 | C571 | 74.98 | 76.5 | 50.00 | 64.00 |

END OF LISTING - 199 RECORDS PRINTED

# APPENDIX V
References

## References


Clark, A.M.S., 1990: Report on Limestone Investigation on the SEE 15, 16 and 19 Claims, Omineca Mining Division, British Columbia. Reliance Geological Services Inc. for Continental Gold Corp.

Delong, R.C., Godwin, C.I., Harris, M.W. and Caira, N.M., 1991: Geology and Alteration at the Mount Milligan Gold-Copper Porphyry Deposit, Central British Columbia. British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1990, Paper 1991-1.

Ferri, Filippo and Melville, David M., 1988: Manson Creek Mapping Project. British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1987, Paper 1988-1.

Mortimer, N., 1986: Late Triassic, Arc Related, Potassic Igneous Rocks in the North American Cordillera. Geology. Volume 14, pp1035-1038.

Nelson, JoAnne, Bellefonataine, Kim, Green, Kim, and MacLean, Mary, 1991: Regional Geological Mapping Near the Mount Milligan Copper-Gold Deposit. British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1990, Paper 1991-1.

Rebagliati, C.M., 1990: Summary Report, Mt. Milligan Project, Omineca Mining Division, British Columbia, Canada, Continental Gold Corp.

LEGEND:

- ⊡ LCP – SURVEYED LOCATION
- ⊙ LCP – ASSUMED LOCATION
- ● 1991 DRILLHOLE COLLAR
- △ 1990 DRILLHOLE COLLAR

Rainbow Creek

SEE 22 11682 (4)
SEE 23 11683 (4)
SEE 24 11684 (4)
SEE 25 11685 (4)
SEE 1 11663 940
SEE 2 11664 (4)
SEE 4 11666 (4)
SEE 3 11665 (4)
SEE 5 11667 (4)
SEE 6 11668 (4)
SEE 26 11686 (4)
SEE 7 11669 (4)
SEE 8 11670 (3)
SEE 9 11671 (3)
SEE 10 11672 (4)
SEE 11 11673 (4)
SEE 12 11674 (4)
SEE 13 11675 (4)
SEE 14 11676 (4)
SEE 15 11677 (4)
SEE 16 11678 (4)
SEE 19 11679 (4)
SEE 20 11680 (4)
SEE 21 11681 (4)
SEE 27 11687 (4)

RAINBOW 1 9766 (9)
RAINBOW 2 9767 (9)
RAINBOW 5 11966 (6)
TRNAVA 11569 (3)
LAKE #1 11109 (9)

PROPOSED DAM
PROPOSED TAILING IMPOUNDMENT
LIMESTONE CREEK
PROPOSED CONCENTRATOR SITE
PROPOSED WATER STORAGE DAM
PROPOSED WATER STORAGE POND
PROPOSED SADDLE EMBANKMENT
PROPOSED EAST DAM
ACCESS ROAD

Mitzi Lake
Mt Milligan Deposit
Heidi Lake
Southern Star Deposit
Philip Lakes
To MacKenzie
980m
Proposed Connector Road

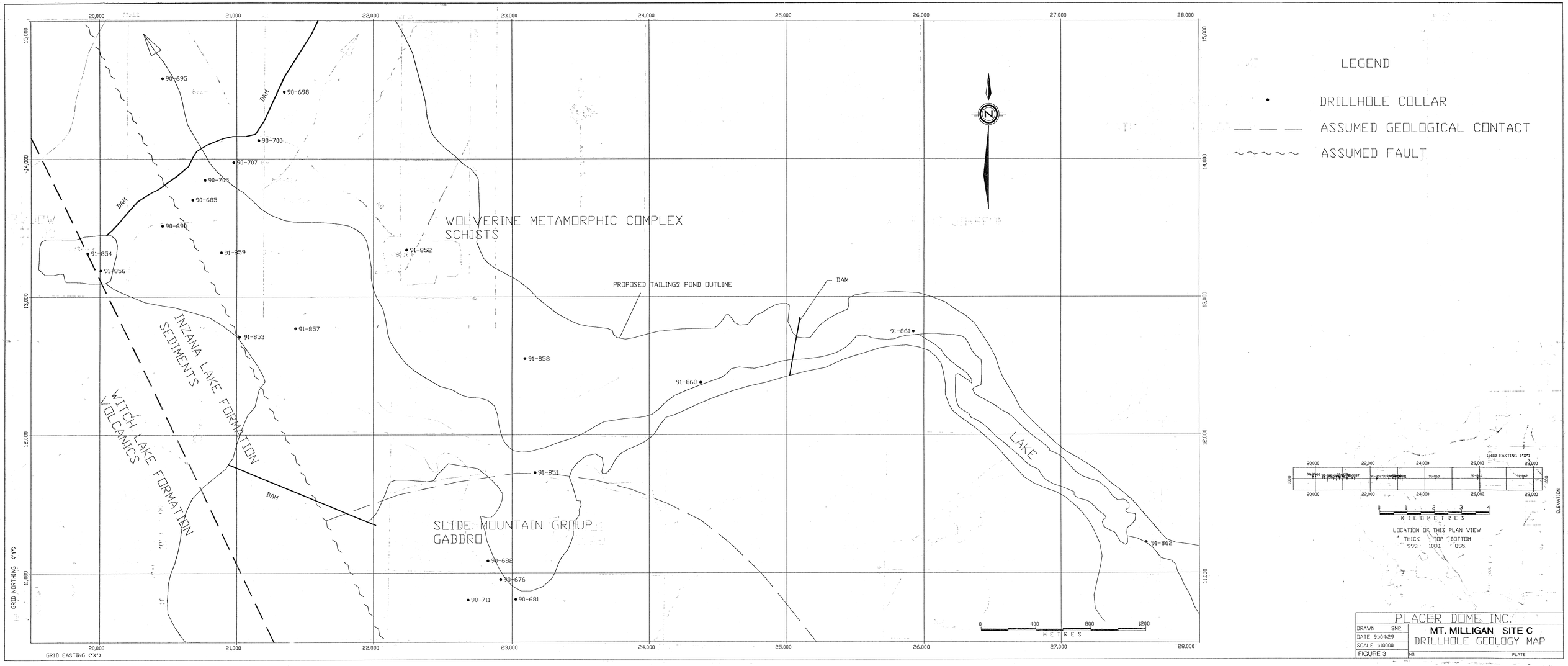
SCALE
0 1000 2000 3000 4000
metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,488

PLACER DOME INC.

| | |
|---|---|
| DRAWN: SMP | MT. MILLIGAN SITE C AREA CLAIM LOCATION MAP |
| DATE: 01/5/91 | |
| SCALE: 1:50000 | |
| FIGURE 2 | |




LEGEND

- DRILLHOLE COLLAR
- ASSUMED GEOLOGICAL CONTACT
- ASSUMED FAULT




LOCATION OF THIS PLAN VIEW

| THICK | TOP | BOTTOM |
|---|---|---|
| 999. | 1080. | 895. |

PLACER DOME INC.

| | |
|---|---|
| DRAWN SMP | MT. MILLIGAN SITE C |
| DATE 91-04-29 | DRILLHOLE GEOLOGY MAP |
| SCALE 1:10000 | |
| FIGURE 3 | NO. PLATE |