OBLING PROPERTY

GEOLOGY AND GEOCHEMISTRY

NANAIMO M.D., BRITISH COLUMBIA

N.T.S. 102I/9 &102I/16

Latitude50°45'N

Longitude 128°04'W

Owner: Placer Dome Inc.

Operator: Placer Dome Inc.

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Vancouver, B.C.

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 SUMMARY

The Obling property is 13 km north-northwest of Holberg, B.C. An exploration program was conducted on June 8, and between July 15 and July 21, 1990. The purpose of the program was to cover the possible source area of gold geochemical anomalies in stream sediments. The work consisted of prospecting, geological mapping, and rock and soil sampling. A total of 45 rock and 65 soil samples was collected.

The Obling property is underlain mostly by volcanic rocks of the Jurassic Bonanza Group, which were intruded by a large coeval pluton of Island Intrusions. Sedimentary rocks of Cretaceous Queen Charlotte Group crop out in the southwestern portion of the property. Tertiary felsic dykes are also exposed on the property.

Mineralization on the Obling property consists predominantly of pyrite with lesser pyrrhotite, uncommonly chalcopyrite, and rarely sphalerite and arsenopyrite. Pyrite is widespred and occurs in at least trace amounts in most rocks, although it is most common in mafic volcanic rocks. Pyrrhotite is more localized, generally occurring in hornfelsic rocks. Chalcopyrite occurs with pyrite in mafic volcanic and intrusive rocks. Sphalerite and arsenopyrite were observed only in veins.

There are no indications that a hydrothermal system similar to Red Dog, Hushamu or Island Copper existed on the Obling Property. Most mineralization appears to be related to thermal metamorphism and deuteric fluids. Gold geochemical anomalies in the sediments of streams draining the Obling property are not related to the mineralization known on the property. The gold anomalies may be due to glacial dispersion from sources to the southeast.

Geological observations indicate that the potential for finding a significant gold deposit on the Obling property is low; therefore, no further work is recommended.

2.0 INTRODUCTION

2.1 Purpose

The purpose of the field work was to evaluate Obling mineral claims, which were staked to cover the source area of gold geochemical anomalies in the stream sediments. These anomalies were discovered in 1989 by Placer Dome Inc.

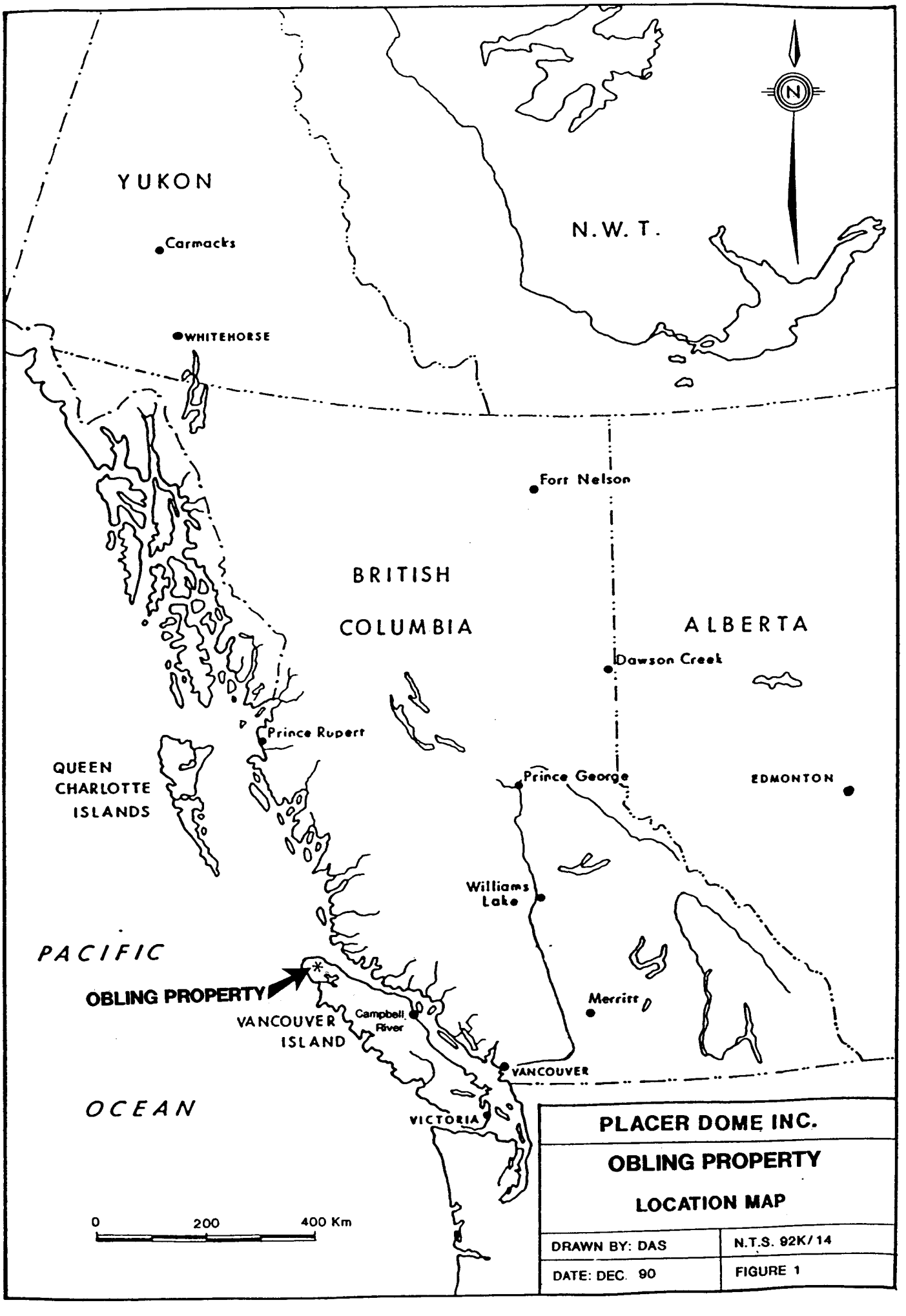
2.2 Property Location, Access and Topography

The Obling property is 13 km north-northwest of Holberg, B.C., within the Nanaimo Mining Division, N.T.S. map sheets 102I/9 and 102I/16 (Figure 1). Access to the property is by road and by helicopter.

Local relief on the property is up to 300 m; the highest elevation is 523 m, which occurs at Knob Hill. The vegetation comprises pine and yellow cedar and is patchy except in the valleys. Small ponds occur at headwaters of some creeks.

2.3 Claim Status

The Obling property comprises nine mineral claims, Obling 1 to Obling 9, which total 156 units (Figure 2). Their status is summarized in Table I. All of the claims are owned by Placer Dome Inc. The Obling 3, 4, 5, 6 and 7 were grouped on October 25, 1990 as Obling Group 90-1; Obling 1, 2, 8, and 9 were grouped on October 25, 1990 as Obling Group 90-2.


YUKON
N.W.T.
Carmacks
WHITEHORSE
Fort Nelson
BRITISH
COLUMBIA
ALBERTA
Dawson Creek
Prince Rupert
QUEEN
CHARLOTTE
ISLANDS
Prince George
EDMONTON
Williams
Lake
PACIFIC
OBLING PROPERTY
Merritt
Campbell
River
VANCOUVER
ISLAND
VANCOUVER
OCEAN
VICTORIA
0
200
400 Km
PLACER DOME INC.
OBLING PROPERTY
LOCATION MAP
DRAWN BY: DAS
N.T.S. 92K/14
DATE: DEC. 90
FIGURE 1

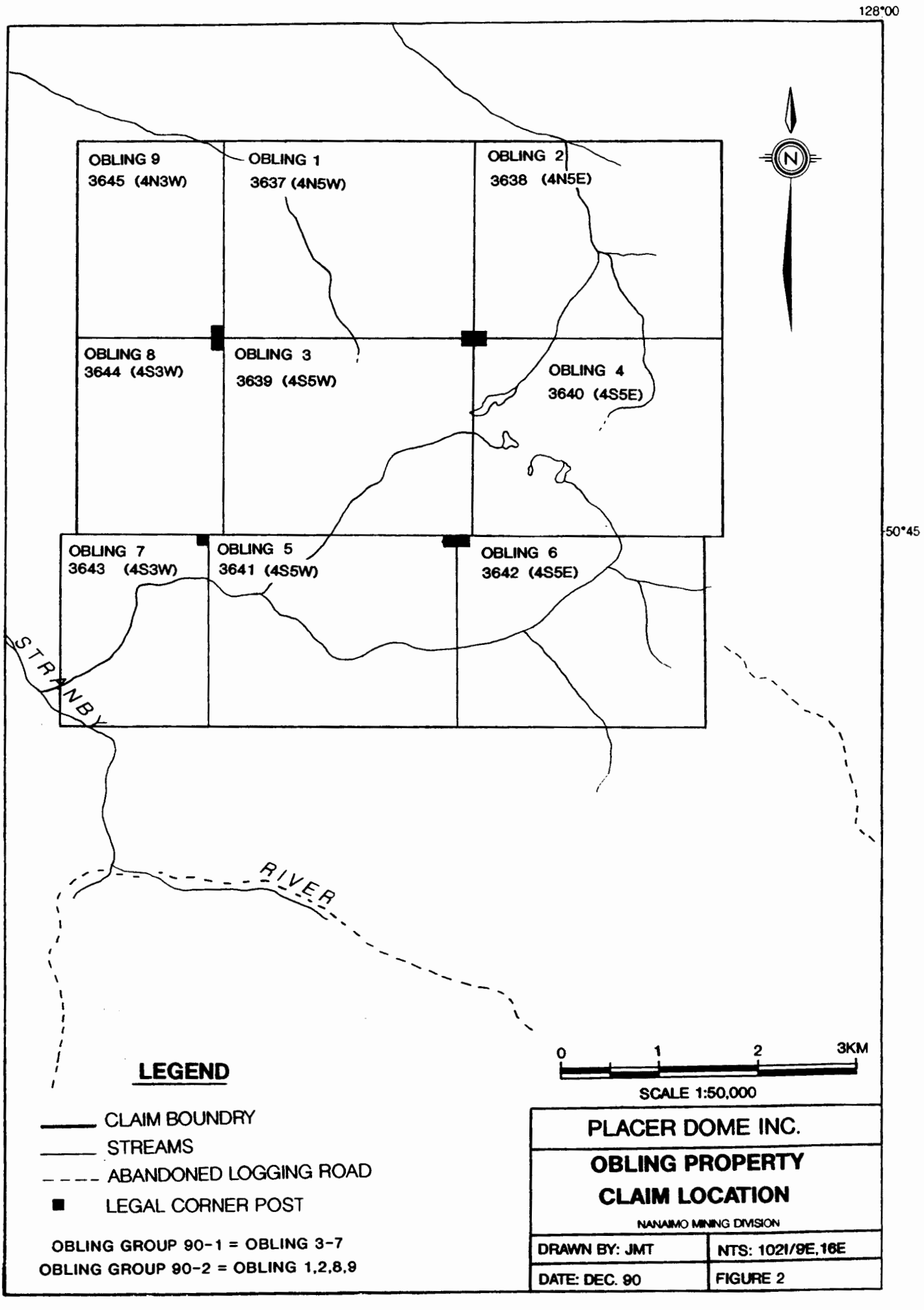

128°00
50°45
OBLING 9
3645 (4N3W)
OBLING 1
3637 (4N5W)
OBLING 2
3638 (4N5E)
OBLING 8
3644 (4S3W)
OBLING 3
3639 (4S5W)
OBLING 4
3640 (4S5E)
OBLING 7
3643 (4S3W)
OBLING 5
3641 (4S5W)
OBLING 6
3642 (4S5E)
N
STRANBY
RIVER
0
1
2
3KM
SCALE 1:50,000
LEGEND
CLAIM BOUNDRY
STREAMS
ABANDONED LOGGING ROAD
LEGAL CORNER POST
OBLING GROUP 90-1 = OBLING 3-7
OBLING GROUP 90-2 = OBLING 1,2,8,9
PLACER DOME INC.
OBLING PROPERTY
CLAIM LOCATION
NANAIMO MINING DIVISION
DRAWN BY: JMT
NTS: 102I/9E,16E
DATE: DEC. 90
FIGURE 2

TABLE I

Obling Property Claim Status

Claim Name	Record Number	Number of Units	Anniversary Date*
Obling 1	3637	20	Oct. 28, 1992
Obling 2	3638	20	Oct. 28, 1992
Obling 3	3639	20	Nov. 1, 1992
Obling 4	3640	20	Oct. 31, 1992
Obling 5	3641	20	Nov. 1, 1992
Obling 6	3642	20	Oct. 31, 1991
Obling 7	3643	12	Nov. 2, 1991
Obling 8	3644	12	Oct. 31, 1991
Obling 9	3645	12	Oct. 31, 1991

*After filing work detailed in this report.

3.0 PREVIOUS WORK

The northern and eastern portions of the Obling property were explored extensively in the past. This exploration was for porphyry copper-molybdenum deposits similar to Island Copper. Most of the work was conducted by Chevron Standard Limited from 1972 to 1977 (Arscott, 1974; Laforme, 1976 and 1977). Chevron conducted geological mapping, basal till sampling, geophysical surveys and diamond drilling. In addition to Chevron's work, geological mapping, soil sampling and geophysical surveys were performed by: Challenger Mines Ltd. during 1969 and 1970 (Holcapek, 1970); Continental Cinch Mines Ltd. between 1969 and 1971 (Philp, 1969a and 1969b; Holcapek and Philp, 1970; Holcapek, 1971); Cities Service Minerals Corporation in 1974 (De Paoli, 1974); and Teck Explorations Limited in 1980 (McClymont, 1980). A minor amount of geological mapping and soil sampling was conducted in the southwestern portion of the property by Quintana Minerals Corporation between 1968 and 1970 (Stokes and Leighton, 1969; Stokes and Leighton, 1970).

During 1989, Placer Dome Inc. conducted some regional exploration in the area. The Obling property was staked as a result of stream sediment sampling.

4.0 1990 WORK PROGRAM SUMMARY

Field work on the Obling property was conducted on June 8, 1990, and from July 15 to July 21, 1990. It consisted of prospecting, geological mapping, and rock and soil sampling. This work, which covered approximately six km^2, was conducted mostly to the north of Knob Hill on Obling 1 and Obling 2 mineral claims, and to the southeast of Knob Hill on Obling 4 mineral claim. The soil sampling consisted of two soil lines: one through the northeastern portion of Obling 3, northwestern portion of Obling 4 and southwestern portion of Obling 2 mineral claims; the other in the northeastern portion of Obling 4.

Control was established using an altimeter and a compass. Sample locations and geological information were plotted on maps at a scale of 1:10,000.

5.0 GEOLOGY

The area covered by and surrounding the Obling property was mapped by Geological Survey of Canada (Muller et al., 1974) and British Columbia Department of Mines and Petroleum Resources (Northcote, 1970). Their work indicates that volcanic rocks of Jurassic Bonanza Group, which were intruded to the northeast by a large coeval pluton of Island Intrusions, underlie most of the claims. Sedimentary rocks of Cretaceous Queen Charlotte Group, intruded by Tertiary felsic dykes, unconformably overlie the volcanic rocks and crop out in the southwestern portion of the claims. Mafic volcanic rocks of Triassic Karmutsen Formation are exposed in a small area in the southwestern portion of the property. The regional geology of northern Vancouver Island is presented in Figure 3.

A limited geological mapping was conducted during the 1990 field season (Figure 4). Mapped areas are underlain dominantly by volcanic rocks of Jurassic Bonanza Group, and comprise mostly mafic rocks with lesser intermediate and felsic rocks. Mafic varieties consist of feldspar and pyroxene porphyry, tuff, lapilli tuff and amygdaloidal rocks. Intermediate volcanic rocks are composed of lapilli tuff; felsic rocks are massive to banded.

Most mafic volcanic rocks are weakly chloritized and epidotized. One kilometre northeast and two kilometres southeast of Knob Hill, mafic rocks locally exhibit stronger chloritization and epidotization as well as clay-sericite alteration. In the vicinity of Knob Hill, and two kilometres northwest and southeast of it, hornfelsic mafic volcanic rocks crop out.

Volcanic rocks are in contact with diorite to quartz diorite of Jurassic Island Intrusions. The contact trends northwest across the northeastern portion of the property. North and northeast of Knob Hill (Figure 4), it follows the base of the hill at about the elevation of 1,200 feet, indicating a shallow-dipping contact. The shallow-dipping nature and surface trace are suggestive of an embayment in the intrusion.

Diorite, separated from the main intrusion by volcanic rocks, crops out along a northwest-flowing creek about one kilometre northwest of Knob Hill (Figure 4). Diorite dykes were observed between the elevations of 1,100 and 1,200 feet along Obling Creek about two kilometres southeast of Knob Hill (Figure 4).

Intrusive rocks are generally speckled grey to green, and are medium grained, although smaller bodies are finer grained. Most exposures of the main intrusion consist of relatively fresh rock with minor chlorite and epidote alteration. Two kilometres northwest of Knob Hill, and one kilometre northeast of Knob Hill, diorite is commonly altered and mineralized (Figure 4). In the first area, weak chloritization and epidotization are present, and the rocks have purplish hue due to secondary biotite. These rocks also contain pyrrhotite. The biotite and pyrrhotite are

OBLING PROPERTY

LEGEND

QUATERNARY

14 Glacial deposits

TERTIARY AND QUATERNARY

13 Miocene-basalt, flows, sills, dykes

12 Eocene-sandstone, shale

11 Early Tertiary-quartz monzonite, quartz diorite

CRETACEOUS

10 Nanaimo and Queen Charlotte Groups: siltstone, sandstone, greywacke, conglomerate

9 Andesite, basalt, tuff, breccia, argillite

JURASSIC AND CRETACEOUS

8 Pacific Rim Complex: greywacke, argillite

JURASSIC

7 Island Intrusions: granodiorite, quartz-monzonite, granite, monzonite

6 Bonanza Group: andesite, dacite, rhyolite, argillite, greywacke

TRIASSIC

5 Quatsino and Parson Bay Formations: limestone, argillite

4 Karmutsen Formation: basalt, pillow lava

MESOZOIC

3 Metasedimentary rocks, schist, greenstone

PENNSYLVANIAN AND PERMIAN

2 Sicker Group: andesite, diorite, greywacke argillite

AGE UNKNOWN

1 Coast Plutonic Complex: granodiorite, quartz diorite, diorite, gabbro, schist, gneiss, migmatite of amphibolite grade

* Geology after GSC Map 1386A

SEYMOUR INLET
QUEEN CHARLOTTE STRAIT
PORT HARDY
HOLBERG
PORT McNEIL
KNIGHT INLET
LOUGHBOROUGH INLET
BUTE INLET
QUATSINO SOUND
PORT ALICE
KELSEY BAY
TOBA INLET
WOSS
CHECLESET BAY
ZEBALLOS
CAMPBELL RIVER
JERVIS INLET
STRAIT OF GEORGIA
ISLAND HWY.
POWELL RIVER
GOLD RIVER
COMOX
MALASPINA STRAIT
NOOTKA SOUND
PARKSVILLE
TOFINO

0 25 50
KILOMETERS

PLACER DOME INC.

NORTHERN VANCOUVER ISLAND

REGIONAL GEOLOGY

DRAWN BY: DAS	NTS 92 E K L 102I
DATE: DEC. 20 1990	FIGURE 3
SCALE: 1:1.000.000	

related to thermal metamorphism. In the second area, alteration is more intense and consists of clay-sericite alteration, epidotization and chloritization.

Felsic dykes are locally common two kilometres southeast of Knob Hill. The dykes are generally narrow and pale green to white. Flow-banding was noted along margins of some dykes.

6.0 MINERALIZATION

Mineralization on the Obling property consists predominantly of pyrite with lesser pyrrhotite, uncommonly chalcopyrite, and rarely sphalerite and arsenopyrite. Pyrite is widespred and occurs in at least trace amounts in most rocks, although it is most common in mafic rocks. Pyrrhotite is more localized, generally occurring in hornfelsic rocks. Chalcopyrite occurs with pyrite in mafic volcanic and intrusive rocks. Sphalerite and arsenopyrite were observed only in veins.

The most intense areas of pyritization on the Obling property are between the elevations of 1,200 and 1,400 feet along a northwest-flowing creek about one kilometre northwest of Knob Hill, and between the elevations of 1,100 and 1,200 feet along Obling Creek about two kilometres southeast of Knob Hill (Figure 4). In the first area, up to 5% pyrite occurs as disseminations, blebs and veins in clay-sericite-altered, chloritized and epidotized mafic and felsic volcanic rocks and diorite. Localized concentrations of up to 25% pyrite are associated with sparse white quartz and epidote veins within mafic volcanic rocks. In the second area, pyrite occurs in a similar manner; however, only mafic volcanic rocks are present.

Elsewhere on the property, most pyrite occurs in mafic volcanic rocks and diorite close to contacts; however, generally much less than 1% is present.

Pyrrhotite was observed in three areas on the Obling property: Knob Hill; between the elevations of 1,000 and 1,350 feet along a northerly-flowing creek about two kilometres northwest of Knob Hill; and at the elevation of 1,100 feet along Obling Creek about two kilometres southeast of Knob Hill (Figure 4). In these areas, up to 5% pyrrhotite occurs as disseminations and blebs in hornfelsic mafic volcanic rocks. Pyrrhotite also occurs in mafic and felsic volcanic rocks in old diamond-drill core.

Chalcopyrite generally occurs as sparse disseminations in mafic volcanic rocks where pyrite is abundant, and in the vicinity of the contact between volcanic and intrusive rocks (Figure 4). Chalcopyrite was also observed with sphalerite in narrow quartz veins in diorite about two kilometres northwest of Knob Hill (Figure 4).

Arsenopyrrite was observed in old diamond-drill core where it occurs as masses in a calcite vein.

7.0 GEOCHEMISTRY

A total of 45 rock and 65 soil samples was collected during the 1990 work program, and submitted to Placer Dome Inc. Research Centre for preparation and analysis. Locations and identification of these samples are plotted on Figure 5. Descriptions of the rock samples are given in Appendix I.

All samples were analyzed for silver, arsenic, gold, cobalt, copper, molybdenum, lead, antimony, selenium and zinc. Thirteen samples of old diamond-drill core were analyzed also for mercury. Analytical results are given in Appendix II and also in Figure 5; sampling, sample preparation and analytical procedures in Appendix III.

Grab-rock samples returned up to 0.7 ppm Ag, 236 ppm As, 15 ppb Au, 56 ppm Co, 460 ppm Cu, 34 ppm Mo, 184 ppm Pb, 8.4 ppm Se and 320 ppm Zn.

Samples from old diamond-drill core returned up to 1.1 ppm Ag, 0.72% As, 410 ppb Au, 125 ppm Co, 2,110 ppm Cu, 60 ppm Mo, 60 ppm Pb, 68 ppm Sb, 6.0 ppm Se, 230 ppm Zn and 40 ppb Hg.

Soil samples returned up to 1.4 ppm Ag, 100 ppm As, 150 ppb Au, 19 ppm Co, 192 ppm Cu, 53 ppm Mo, 54 ppm Pb, 4 ppm Sb, 2.4 ppm Se and 136 ppm Zn. The anomalous values on the two lines are isolated highs.

8.0 CONCLUSIONS

Volcanic rocks of Jurassic Bonanza Group, which are exposed in the central portion of the Obling property, are underlain at a shallow depth by a large pluton of the Island Intrusions, which crops out in the northeastern portion of the property. This relationship is indicated by a gently-dipping contact to the north and northeast of Knob Hill, and areas of hornfelsic rocks around Knob Hill and in the upper part of Obling Creek.

Geological observations indicate that a hydrothermal system similar to Red Dog, Hushamu or Island Copper did not exist on the Obling property. Most mineralization occurs adjacent to the volcanic-intrusive contacts.

Pyrrhotite occurs in hornfelsic rocks, and is caused by thermal metamorphism. Pyrite and chalcopyrite are probably related to deuteric fluids concentrated in an embayment in the intrusion. Arsenopyrite is related to Tertiary dykes.

Gold geochemical anomalies in sediments of streams draining the Obling property are not related to the mineralization known on the property. The anomalies may be due to glacial dispersion from sources to the southeast.

9.0 RECOMMENDATIONS

Geological observations indicate that the potential for finding a significant gold deposit on the Obling property is low; therefore, no further work is recommended.

10.0 REFERENCES

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APPENDIX I

ROCK SAMPLE DESCRIPTIONS

SAMPLE NUMBER	ROCK DESCRIPTION
A5040	Medium to dark-grey feldspar porphyry with disseminated and blebby pyrite.
A5041	Medium to dark-grey feldspar porphyry with disseminated, fracture-controlled and blebby pyrite.
A5042	Medium to dark-grey feldspar porphyry with disseminated pyrite.
A5043	Quartz vein in feldspar porphyry; blebby to semi-massive pyrite along margins of the vein.
A5044	Medium-grained diorite with blebby and disseminated pyrite.
A5045	Mafic volcanic with disseminated pyrite.
A5046	Diorite with blebby to semi-massive and fracture-controlled pyrite and pyrrhotite.
A5047	Feldspar porphyry with semi-massive pyrite in a quartz vein.
A5048	Black hornfels with disseminated and blebby pyrite.
A5049	Feldspar porphyritic rhyodacite with disseminated and blebby pyrite.
A5050	Mafic volcanic with semi-massive granular pyrite.
A5053	Pale-grey rhyolite breccia with disseminated pyrrhotite.
A5201	Calcareous, carbonaceous black argillite with fracture-controlled pyrite.
A5202	Carbonaceous fault gouge.
A5203	Chloritized quartz diorite with disseminated, blebby and fracture-controlled pyrite and pyrrhotite.
A5204	Quartz diorite with quartz veinlets and fractures with minor chalcopyrite, sphalerite and pyrite.
A5205	Silicified diorite with epidote and pyrite-filled fractures; also disseminated and blebby pyrite.
A5206	Grey rhyodacite with disseminated and fracture-controlled pyrite.
A5207	Chloritized and epidotized diorite with disseminated pyrite.
A5208	Chloritized, epidotized and clay-sericite-altered diorite with disseminated and fracture-controlled pyrite.
A5209	Float of clay-altered and silicified rock with 5% disseminated to blebby pyrite.
A5210	Float of quartz vein with blebby semi-massive to massive pyrite.
A5211	Chloritized, epidotized and clay-sericite altered-diorite with 1% disseminated and fracture-controlled pyrite.
A5212	Intensely epidotized and chloritzed diorite with minor blebs of white quartz; up to 25% blebby to semi-massive pyrite.
A5213	Felsic feldspar porphyry with epidote and chlorite in fractures.

A5214	Banded rhyodacite with semi-massive and fracture-controlled pyrite.
A5215	Banded rhyodacite with blebs and veinlets of pyrite with epidote and calcite.
A5216	Clay-altered rhyodacite with blebby and fracture-controlled pyrite.
A5217	Diorite with disseminated and blebby pyrite.
A5218	Purple-brown hornfels with disseminated and blebby pyrite.
A5219	Diorite with calcite vein containing blebs of arsenopyrite and pyrite.
A5220	Pale-green feldspar porphyry with disseminated,blebby and fracture-controlled pyrrhotite.
A5221	Purple-brown hornfels with disseminated to blebby pyrrhotite.
A5222	Rhyodacite with fracture-controlled pyrite.
A5223	Purple-brown hornfels with disseminated to blebby pyrrhotite and pyrite.
A5224	Epidotized diorite with quartz vein containing blebs of pyrite.
A5225	Pale-grey feldspar-porphyritic diorite with disseminated, blebby and fracture-controlled pyrite.
A5226	Hornfels with semi-massive to disseminated pyrrhotite.
A5227	Pale-grey clay-altered diorite with disseminated, blebby and fracture-controlled pyrite.
A5228	Calcite-rich epidotized and chloritized mafic volcanic with 3% disseminated pyrite.
A5229	Calcite-rich epidotized and chloritized mafic volcanic with 1% disseminated and fracture-controlled pyrite.
A5230	Pale-grey epidotized and chloritized mafic volcanic with up to 5% disseminated to blebby pyrrhotite and minor pyrite.
A5231	Pale-grey mafic volcanic with up to 4% disseminated, blebby and fracture-controlled pyrite and minor pyrrhotite.
A5232	Pale-grey clay-altered mafic volcanic with up to 5% disseminated pyrite.
A5233	Pale-grey epidotized, chloritized and clay-altered mafic volcanic with 2% disseminated pyrite.

APPENDIX II

ANALYTICAL RESULTS

SAMPLE NUMBER	Ag (ppm)	As (ppm)	Au (ppb)	Co (ppm)	Cu (ppm)	Hg (ppb)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Se (ppm)	Zn (ppm)
A5040	0.2	1	2.5	59	64	40	6	6	1	1.2	28
A5041	0.3	2	2.5	27	50	36	7	7	1	0.1	26
A5042	0.2	16	2.5	125	33	40	4	5	1	0.1	35
A5043	0.3	15	2.5	66	12	28	8	7	1	0.2	34
A5044	0.2	14	2.5	54	45	20	7	6	1	0.1	35
A5045	0.3	17	2.5	71	92	32	6	7	1	0.1	40
A5046	0.2	1	2.5	45	82	40	6	5	1	0.2	26
A5047	0.2	1	2.5	55	74	24	7	6	1	0.2	33
A5048	0.1	1	2.5	18	20	36	3	2	1	0.2	7
A5049	0.1	1	2.5	18	22	36	6	6	1	0.1	38
A5050	0.2	1	2.5	18	27	36	6	7	1	0.1	48
A5053	0.2	1	2.5	26	68	20	10	7	1	0.4	34
A5201	0.6	236	15	13	30		3	13	1	8.4	108
A5202	0.5	60	5	8	41		4	8	1	2.8	63
A5203	0.3	6	2.5	10	32		6	11	1	0.6	105
A5204	0.2	2	2.5	7	32		8	6	1	0.6	200
A5205	0.1	1	2.5	1	74		29	2	1	0.8	20
A5206	0.4	12	2.5	6	35		11	55	1	2.4	255
A5207	0.3	1	2.5	32	56		2	50	1	0.2	320
A5208	0.3	1	2.5	37	332		4	7	1	0.1	88
A5209	0.1	1	2.5	55	25		34	13	1	2.2	6
A5210	0.1	1	2.5	31	13		14	1	1	3.2	4
A5211	0.4	16	2.5	16	460		6	3	1	0.4	60
A5212	0.7	8	2.5	36	12		4	9	1	0.2	4
A5213	0.2	1	5	39	7		6	4	1	2.8	27
A5214	1.1	6	10	53	210		0.5	5	1	6.0	230
A5215	0.1	1	2.5	13	78		5	5	1	0.6	22
A5216	0.7	18	5	18	82		30	7	1	4.0	60
A5217	0.3	1	35	36	03		1	6	1	0.6	104
A5218	0.1	1	2.5	19	23		6	4	1	1.2	19
A5219	0.1	7200	410	11	7		4	8	68	0.1	6
A5220	1.3	40	10	15	51		4	13	1	0.2	166
A5221	0.1	1	15	50	120		3	11	1	0.2	71
A5222	0.1	10	2.5	5	75		60	4	1	0.1	23
A5223	0.2	1	2.5	25	70		0.5	9	1	0.8	46
A5224	0.4	8	2.5	24	75		3	60	1	0.4	166
A5225	0.5	2	2.5	12	14		7	22	1	1.4	69
A5226	0.9	1	5	66	30		5	10	1	0.4	39
A5227	0.1	4	2.5	35	16		3	4	1	0.6	24
A5228	0.1	6	2.5	10	103		3	5	1	0.4	78
A5229	0.3	16	2.5	18	15		3	9	1	0.1	73
A5230	0.3	20	10	24	73		3	25	1	0.1	67
A5231	0.6	40	10	56	41		4	184	1	0.2	316
A5232	0.6	60	5	23	5		4	22	1	0.4	48
A5233	0.1	28	5	16	54		4	12	1	0.4	98
41+00N 46+00E	0.4	8	2.5	10	32		1	16	1	2.2	80
41+00N 66+00E	0.1	1	2.5	8	19		1	12	1		63
41+00N 68+50E	0.1	12	2.5	7	8		1	6	1		2
41+00N 71+00E	0.1	24	2.5	8	45		1	23	1	1.4	100
41+00N 76+00E	0.1	1	2.5	6	20		1	8	1	0.6	40
41+00N 81+00E	0.1	100	2.5	12	34		1	3	1	0.1	55

50+00N	40+00E	0.3	2	5	1	18	0.5	17	1		41
50+00N	40+40E	0.6	12	2.5	6	21	0.5	17	1	0.1	52
50+00N	41+20E	1.4	18	2.5	7	33	1	16	1	0.6	84
50+00N	41+60E	0.1	6	10	5	76	1	21	2	0.1	85
50+00N	42+00E	0.3	24	2.5	11	65	0.5	23	1	0.1	94
50+00N	42+40E	0.1	4	5	12	69	2	15	1	0.1	104
50+00N	42+80E	0.2	18	15	4	98	1	14	2	0.1	90
50+00N	43+20E	0.1	38	5	12	84	1	15	1	0.1	105
50+00N	43+60E	0.3	32	2.5	5	64	2	20	1	1.2	86
50+00N	44+00E	0.1	38	2.5	12	66	3	14	1	0.2	86
50+00N	44+40E	0.1	10	2.5	1	38	2	12	1		42
50+00N	44+60E	0.4	8	150	14	50	0.5	13	1		76
50+00N	44+80E	0.1	52	2.5	2	51	0.5	14	1	0.8	77
50+00N	45+20E	0.1	16	5	12	116	1	14	1	0.2	107
50+00N	45+60E	0.1	40	2.5	11	59	0.5	15	1		92
50+00N	46+00E	0.1	12	2.5	3	51	0.5	9	1	1.2	78
50+00N	46+40E	0.1	4	2.5	10	67	3	9	1	0.8	87
50+00N	46+80E	0.2	14	2.5	6	25	2	14	1	0.8	63
50+00N	47+20E	0.1	20	25	8	61	1	12	1	0.8	75
50+00N	47+60E	0.1	16	105	3	31	1	12	1	0.6	70
50+00N	48+00E	0.1	20	5	6	20	1	10	1		42
50+00N	48+40E	0.1	14	50	9	26	1	11	1	0.4	46
50+00N	48+80E	0.1	14	2.5	5	25	1	10	1	1.0	40
50+00N	49+20E	0.1	50	5	19	73	0.5	14	1	0.6	111
50+00N	49+60E	0.1	8	2.5	17	55	1	10	1	1.2	55
50+00N	50+00E	0.1	22	15	10	41	1	16	1	1.0	54
50+00N	50+40E	0.3	24	2.5	9	49	1	12	1	2.4	57
50+00N	50+80E	0.1	12	2.5	5	18	1	14	1	0.8	45
50+00N	51+20E	0.1	22	2.5	7	56	1	14	1	0.6	104
50+00N	51+60E	0.1	12	2.5	10	21	0.5	11	2		43
50+00N	52+00E	0.1	20	2.5	6	40	1	10	1	1.0	60
50+00N	52+40E	0.1	20	2.5	4	14	1	12	1	0.2	41
50+00N	52+80E	0.2	22	2.5	3	34	2	14	1	0.1	82
50+00N	53+20E	0.1	16	2.5	9	15	1	11	1	0.1	45
50+00N	53+60E	0.1	14	2.5	9	69	4	14	1	0.6	91
50+00N	54+00E	0.1	42	2.5	11	92	14	10	1	0.4	87
50+00N	54+40E	0.1	30	2.5	6	55	0.5	16	1	0.2	88
50+00N	54+80E	0.5	30	30	7	44	2	17	1	0.2	100
50+00N	55+60E	0.2	12	2.5	5	38	0.5	16	1		95
50+00N	56+40E	0.1	38	2.5	1	10	2	10	2		68
50+00N	56+80E	0.1	6		1	4	1	5	1		98
50+00N	57+60E	0.1	1	2.5	8	57	3	14	1	0.1	103
50+00N	58+00E	0.1	1	2.5	4	10	1	11	1	0.1	48
50+00N	58+40E	0.1	1	2.5	1	6	1	13	1		62
50+00N	58+80E	0.4	4	2.5	1	21	0.5	15	1	1.2	44
50+00N	59+20E	0.1	1	2.5	1	22	1	24	1	1.0	46
50+00N	59+60E	0.1	1	2.5	5	24	33	17	1	1.6	45
50+00N	60+00E	0.1	1	2.5	9	30	1	15	1	0.8	65
50+00N	60+40E	0.2	4	2.5	6	14	1	7	1		92
50+00N	60+80E	0.1	1	10	6	26	3	16	1	1.6	49
50+00N	61+20E	0.5	1	10	9	36	3	14	20	0.6	61
50+00N	61+60E	0.1	1	5	1	28	1	24	1	1.0	54
50+00N	62+00E	0.1	1	2.5	4	42	3	19	2	1.4	57
50+00N	62+40E	0.1	1	2.5	1	9	1	13	1	0.6	35

50+00N	62+80E	0.3	1	2.5	8	18	4	24	1	0.8	54
50+00N	63+20E	0.1	1	2.5	6	16	4	15	2	0.1	48
50+00N	63+60E	0.1	2	2.5	3	25	2	10	1	0.4	44
50+00N	64+00E	0.1	2	2.5	1	14	4	14	1	0.4	54
50+00N	64+40E	0.2	12	2.5	7	24	1	16	1	0.8	63

APPENDIX III

SAMPLING, SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

SAMPLING PROCEDURES

Rock samples generally comprised two fist size pieces of material representative of the outcrop or float being sampled. These are referred to as grab samples. One piece was submitted for analysis; the second retained for reference.

Soil samples were taken mostly from a "B", and to a lesser extent a "C" horizon, at a depth of 10 to 100 cm using a mattock or an auger. Samples from the "B" horizon were generally a reddish-brown mixture of clay and silt with minor sand and organic material. Samples from the "C" horizon were composed of a greyish mixture of silt, clay and sand with minor organic material and varying amounts of rock fragments. Descriptions of the sample site and material sampled were recorded at the time of sampling

SAMPLE PREPARATION PROCEDURES

(Placer Dome Inc. Research Centre)

Rock samples were collected in plastic bags. They were dried, then crushed by a jaw crusher followed by a cone crusher. A 250 gram subsample of crushed material was separated using a riffle splitter. This subsample was pulverized by rolling to minus 100 mesh for analysis.

Soil samples were collected in kraft envelopes. They were dried at approximately 60^{o}C, then screened to obtain the minus 80 mesh fraction for analysis.

ANALYTICAL PROCEDURES

(Placer Dome Inc. Research Centre)

Element	Unit	Weight(g)	Digestion	Range	Instrumentation
Au	ppb	10.0	Aqua Regia 3 hours	5 - 4000	A.A. Solvent Ext.
Ag	ppm	0.5	HCL04/HN03 4 hours	0.2 - 20	A.A. Backgd.Cor.
As	ppm	0.5	Aqua Regia 3 hours	2 - 2000	D.C. Plasma
Sb	ppm	0.5	HCL/HN03 3 hours	2 - 2000	D.C. Plasma
Hg	ppb	0.25	HN03/HCL 3 hours	5 - 2000	A.A. C. Vap. Gen.
Cu	ppm	0.5	HCL04/HN03 4 hours	2 - 4000	Atomic Absorption
Pb	ppm	0.5	HCL04/HN03 4 hours	2 - 3000	A.A. Backgd.Cor
Zn	ppm	0.5	HCL04/HN03 4 hours	2 - 3000	Atomic Absorption
Co	ppm	0.5	HCL04/HN03 4 hours	2 - 2000	Atomic Absorption
Mo	ppm	0.5	HCL04/HN03 4 hours	1 - 1000	Atomic Absorption
Se	ppm	1.0	KCL03/HCL Org. Solv. Ext	0.2 - 0.01%	Atomic Absorption

APPENDIX IV

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Dale A. Sketchley, hereby certify that:

1. I am a graduate of The University of British Columbia in Honours Geology -Geophysics (B.Sc. 1975) and Geology (M.Sc. 1986);

2. I have practised within the geological profession for the past eighteen years;

3. I am a member of the Canadian Institute of Mining and Metallurgy and a Fellow of the Geological Association of Canada;

4. The opinions, conclusions and recommendations contained herein are based on field work supervised and conducted by me on the Obling property during June and July, 1990.

Dale A. Sketchley

Vancouver, B.C.

January 4, 1991

APPENDIX V

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
Obling Property
(October 28, 1989 to October 27, 1990)

Personnel (field)		
D. Sketchey	- 6 days @ 371.25	2,227.50
D. Bridge	- 6 days @ 204.22	1,225.32
J. Taylor	- 6 days @ 167.72	1,006.32
W. Westman	- 6 days @ 135.20	811.20
Personnel (office)		
D. Sketchley	- 7 days @ 303.75	2,126.25
J. Taylor	- 6 days @ 135.20	1,189.20
Transportation		
Helicopter	- 10 hours @ 675.96 (Port McNeil/Obling Creek)	6,759.60
Vehicle	- 6 days @ 70.00	420.00
Ferry	- 2 trips @ 45.00 (Horseshoe Bay/Nanaimo)	90.00
Room and Board	- 24 man-days @60.00	1,440.00
Analytical Costs		
45 rock samples @ 22.75		1,023.75
65 soil samples @ 20.40		1,326.00
Field and Office Supplies		271.85
Drafting/Reproduction/Report Preparation		2,100.00
Total		$22,017.05

562,000 563,000 564,000 565,000 566,000 567,000 568,000 569,000

5,628,000 5,627,000 5,626,000 5,625,000 5,624,000 5,623,000 5,622,000 5,621,000 5,620,000

1A,F x hornfelsic mafic feldspar porphyry

1A,D,F; 4A

4A,B x quartz diorite to diorite

4B x quartzdiorite

hornfelsic, amygdaloidal feldspar porphyritic mafic volcanic with dykes and apophyses of diorite

1F hornfelsic mafic volcanic

4B quartzdiorite

4B x quartzdiorite

4B x quartzdiorite

1F x hornfelsic mafic volcanic

4B x quartz diorite with 2% pyrrhotite and pyrite, quartz vein with chalcopyrite and sphalerite

4B quartzdiorite

4B quartzdiorite

4B quartzdiorite

intermediate lapilli tuff with trace pyrite

2 x

2 intermediate lapilli tuff with trace pyrite

4A x diorite with <1% hematite

4A x sheared chloritic diorite

4A diorite

4B quartzdiorite

4A x diorite with inclusions of intermediate volcanic rock

4A x diorite with silicified zone and <1% disseminated pyrite and pyrite-epidote along fractures

4B x quartzdiorite

3 x felsic volcanic with <1% disseminated pyrite and pyrite epidote along fractures

float of sericite - clay-altered and silicified rock with 5% pyrite
float of pyrite - white quartz vein within sericitized rock

4A x chloritized and epidotized diorite with 1% pyrite and epidote - pyrite vein

4A x sericite - clay-altered, epidotized and chloritized diorite with 2% pyrite

4A x sericite - clay-altered, epidotized and chloritized diorite with 1% pyrite

4A x chloritized and epidotized diorite with white quartz veins and up to 25% pyrite

1 x mafic volcanic with 1% pyrite

1F x hornfelsic mafic volcanic with 1% disseminated pyrrhotite

1A,E x mafic feldspar porphyritic lapilli tuff with 1% pyrite and pyrrhotite

KNOB HILL

1A,E x Mafic feldspar porphyritic lapilli tuff with trace pyrite

▲ CAMPSITE CORE STORAGE

2 x intermediate lapilli tuff

felsic dyke

intermediate lapilli tuff with trace pyrite

diorite 4A

mafic volcanic outcrops of rocks with massive feldspar porphyritic, pyroxene porphyritic, tuff and amygdaloidal varieties

epidotized and chloritized mafic volcanic with 1% pyrite

clay - sericite-altered, epidotized and chloritized mafic volcanic with 2% pyrite

clay-sericite-altered, epidotized and chloritized hornfelsic mafic volcanic with 5% pyrrhotite and pyrite

clay-altered mafic volcanic with 5%

OBLING CREEK

TRUE NORTH
UTM GRID '3S'

LEGEND

ROCK UNITS

TERTIARY

5 FELSIC DYKES

JURASSIC - ISLAND INTRUSIONS

4A DIORITE

4B QUARTZ DIORITE

JURASSIC - BONANZA GROUP

3 FELSIC VOLCANIC

2 INTERMEDIATE LAPILLI TUFF

1 MAFIC VOLCANIC - UNDIVIDED
- 1A FELDSPAR PORPHYRY
- 1B PYROXENE PORPHYRY
- 1C TUFF
- 1D AMYGDALOIDAL ROCKS
- 1E LAPILLI TUFF
- 1F HORNFELS

MAP SYMBOLS

x OUTCROP

x—x ABUNDANT OUTCROP

APPROXIMATE CONTACT

CLAIM BOUNDARY

GEOLOGICAL BRANCH ASSESSMENT REPORT

20,766

DATA PLOTTED ON THIS MAP:
DIRECTORY: 3EXPL/OBLING

FIELD	FILE
SEG	OBLING.CONT.LIN
SEG	OBLING.ROCK1.LIN

N

0 400 800 1200
METRES

PLACER DOME INC.
OBLING PROPERTY
GEOLOGY

DRAWN JMT
DATE 90:12:24
SCALE 1:10000
FIGURE 4
NO.
PLATE

562,000 563,000 564,000 565,000 566,000 567,000 568,000 569,000

5,628,000 5,627,000 5,626,000 5,625,000 5,624,000 5,623,000 5,622,000

LEGEND

A5211 △ ROCK SAMPLE LOCATION AND IDENTIFICATION

50+00N 50+00E ● SOIL SAMPLE LOCATION AND IDENTIFICATION

CLAIM BOUNDARY

TRUE NORTH

UTM GRID 38°

GEOLOGICAL BRANCH ASSESSMENT REPORT

20,766

ANALYTICAL RESULTS

SAMPLE NUMBER		Ag (ppm)	As (ppm)	Au (ppb)	Co (ppm)	Cu (ppm)	Hg (ppb)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Se (ppm)	Zn (ppm)
A5040		0.2	1	2.5	59	64	40	6	6	1	1.2	28
A5041		0.3	2	2.5	27	50	36	8	7	1	0.1	26
A5042		0.2	16	2.5	125	33	40	4	5	1	0.1	35
A5043		0.3	15	2.5	66	12	28	8	7	1	0.2	34
A5044		0.2	14	2.5	54	45	20	7	6	1	0.1	35
A5045		0.3	17	2.5	71	92	32	6	7	1	0.1	40
A5046		0.2	1	2.5	45	82	40	6	5	1	0.2	26
A5047		0.2	1	2.5	55	74	24	7	6	1	0.2	33
A5048		0.1	1	2.5	18	24	36	3	2	1	0.2	7
A5049		0.1	1	2.5	18	22	36	6	6	1	0.1	38
A5050		0.2	1	2.5	18	27	36	6	7	1	0.1	48
A5053		0.2	1	2.5	26	68	20	10	7	1	0.4	34
A5201		0.6	236	15	13	30		3	13	1	8.4	108
A5202		0.5	60	5	8	41		4	8	1	2.8	67
A5203		0.3	6	2.5	10	32		6	11	1	0.6	105
A5204		0.2	2	2.5	7	32		8	6	1	0.6	200
A5205		0.1	1	2.5	1	74		29	2	1	0.8	20
A5206		0.4	12	2.5	6	35		11	55	1	2.4	255
A5207		0.3	1	2.5	32	56		2	50	1	0.2	320
A5208		0.3	1	2.5	37	332		4	7	1	0.1	88
A5209		0.1	1	2.5	55	25		14	13	1	2.2	6
A5210		0.1	1	2.5	31	13		14	1	1	3.2	4
A5211		0.4	16	2.5	16	460		6	3	1	0.4	60
A5212		0.7	8	2.5	36	12		4	9	1	0.2	4
A5213		0.2	1	5	39	7		6	4	1	2.8	27
A5214		1.1	6	10	53	210		0.5	5	1	6.0	230
A5215		0.1	1	2.5	13	78		5	5	1	0.6	22
A5216		0.7	18	5	18	82		10	7	1	1.0	60
A5217		0.3	1	35	36	03		1	6	1	0.6	104
A5218		0.1	1	2.5	19	23		6	4	1	1.2	19
A5219		0.1	7200	410	11	7		4	8	68	0.1	6
A5220		1.3	40	10	15	51		4	13	1	0.2	166
A5221		0.1	1	15	50	120		3	11	1	0.2	71
A5222		0.1	10	2.5	5	75		60	4	1	0.1	23
A5223		0.2	1	2.5	25	70		0.5	9	1	0.8	46
A5224		0.4	8	2.5	24	75		3	60	1	0.4	166
A5225		0.5	2	2.5	12	14		7	22	1	1.4	69
A5226		0.9	1	5	66	30		5	10	1	0.4	39
A5227		0.1	4	2.5	35	16		3	4	1	0.6	24
A5228		0.1	6	2.5	10	103		3	5	1	0.4	78
A5229		0.3	16	2.5	18	15		3	9	1	0.1	73
A5230		0.3	20	10	24	73		3	25	1	0.1	67
A5231		0.6	40	10	56	41		4	184	1	0.2	316
A5232		0.6	60	5	23	5		4	22	1	0.4	48
A5233		0.1	28	5	16	54		4	12	1	0.4	98
41+00N	66+00E	0.4	8	2.5	10	32		1	16	1	4.2	80
41+00N	66+00E	0.1	1	2.5	8	19		1	12	1		63
41+00N	68+50E	0.1	12	2.5	7	8		1	6	1		2
41+00N	71+00E	0.1	24	2.5	8	45		1	23	1	1.4	100
41+00N	76+00E	0.1	1	2.5	6	20		1	8	1	0.6	40
41+00N	81+00E	0.1	100	2.5	12	34		1	3	1	0.1	55
50+00N	40+00E	0.3	2	5	1	18		0.5	17	1		41
50+00N	40+40E	0.6	12	2.5	2	21		0.5	17	1	0.1	52
50+00N	41+20E	1.4	18	2.5	7	33		1	16	1	0.6	84
50+00N	41+60E	0.1	6	10	5	76		1	21	2	0.1	85
50+00N	42+00E	0.3	24	2.5	11	65		0.5	23	1	0.1	94
50+00N	42+40E	0.1	4	5	12	69		2	15	1	0.1	104
50+00N	42+80E	0.2	18	15	4	98		1	14	2	0.1	90
50+00N	43+20E	0.1	38	5	12	84		1	15	1	0.1	105
50+00N	43+60E	0.3	32	2.5	5	64		2	20	1	1.2	86
50+00N	44+00E	0.1	38	2.5	12	66		3	14	1	0.2	86
50+00N	44+40E	0.1	10	2.5	1	38		2	12	1		42
50+00N	44+60E	0.4	8	150	14	50		0.5	13	1		76
50+00N	44+80E	0.1	52	2.5	2	51		0.5	14	1	0.8	77
50+00N	45+20E	0.1	16	5	12	116		1	14	1	0.2	107
50+00N	45+60E	0.1	40	2.5	11	59		0.5	15	1		92
50+00N	46+00E	0.1	12	2.5	3	51		0.5	9	1	1.2	78
50+00N	46+40E	0.1	4	2.5	10	67		3	9	1	0.8	87
50+00N	46+80E	0.2	14	2.5	6	25		2	14	1	0.8	63
50+00N	47+20E	0.2	20	25	8	61		1	12	1	0.8	75
50+00N	47+60E	0.1	16	105	3	31		1	12	1	0.6	70
50+00N	48+00E	0.1	20	5	6	20		1	10	1		42
50+00N	48+40E	0.1	14	50	9	26		1	11	1	0.4	46
50+00N	48+80E	0.1	14	2.5	5	25		1	10	1	1.0	40
50+00N	49+20E	0.1	50	5	19	73		0.5	14	1	0.6	111
50+00N	49+60E	0.1	8	2.5	17	55		1	10	1	1.2	55
50+00N	50+00E	0.1	22	15	10	41		1	16	1	1.0	54
50+00N	50+40E	0.3	24	2.5	9	49		1	12	1	2.4	57
50+00N	50+80E	0.1	12	2.5	5	18		1	14	1	0.8	45
50+00N	51+20E	0.1	22	2.5	7	56		1	14	1	0.6	104
50+00N	51+60E	0.1	12	2.5	10	21		0.5	11	2		43
50+00N	52+00E	0.1	20	2.5	6	40		1	10	1	1.0	60
50+00N	52+40E	0.1	20	2.5	4	14		1	12	1	0.2	41
50+00N	52+80E	0.2	22	2.5	3	34		2	14	1	0.1	82
50+00N	53+20E	0.1	16	2.5	9	15		1	11	1	0.1	45
50+00N	53+60E	0.1	14	2.5	9	69		4	14	1	0.6	91
50+00N	54+00E	0.1	42	2.5	11	92		14	10	1	0.4	87
50+00N	54+40E	0.1	30	2.5	6	55		0.5	16	1	0.2	88
50+00N	54+80E	0.5	30	10	7	44		2	17	1	0.2	100
50+00N	55+60E	0.2	12	2.5	5	38		0.5	16	1		95
50+00N	56+40E	0.1	38	2.5	1	10		2	10	2		68
50+00N	56+80E	0.1	6		1	4		1	5	1		98
50+00N	57+60E	0.1	1	2.5	8	57		3	14	1	0.1	103
50+00N	58+00E	0.1	1	2.5	4	10		1	11	1	0.1	48
50+00N	58+40E	0.1	1	2.5	1	6		1	13	1		62
50+00N	58+80E	0.4	4	2.5	1	21		0.5	15	1	1.2	44
50+00N	59+20E	0.1	1	2.5	1	22		1	24	1	1.0	46
50+00N	59+60E	0.1	1	2.5	5	24		31	17	1	1.6	45
50+00N	60+00E	0.1	1	2.5	9	30		1	15	1	0.8	65
50+00N	60+40E	0.2	4	2.5	6	14		1	7	1		92
50+00N	60+80E	0.1	1	10	6	26		3	16	1	1.6	49
50+00N	61+20E	0.5	1	10	9	36		3	14	20	0.6	61
50+00N	61+60E	0.1	1	5	1	28		1	24	1	1.0	54
50+00N	62+00E	0.1	1	2.5	4	42		3	19	2	1.4	57
50+00N	62+40E	0.1	1	2.5	1	9		1	13	1	0.6	35
50+00N	62+80E	0.1	1	2.5	8	18		4	24	1	0.8	54
50+00N	63+20E	0.1	1	2.5	6	16		4	15	2	0.1	48
50+00N	63+60E	0.1	2	2.5	3	25		2	10	1	0.4	44
50+00N	64+00E	0.1	2	2.5	1	14		4	14	1	0.4	54
50+00N	64+40E	0.2	12	2.5	7	24		1	16	1	0.8	63

DATA PLOTTED IN THIS MAP:
DIRECTORY: $EXPL/OBLING

	FIELD	FILE
△ POINTS:	IDL	OBLING.POINT
	SEG	OBLING.CONTLIN
	SEG	OBLING.POCKLIN

0 400 800 1200
METRES

PLACER DOME INC.	
DRAWN: JMF	OBLING PROPERTY
DATE: 90.12.24	SAMPLE LOCATIONS,
SCALE: 1:10000	IDENTIFICATION AND ANALYTICAL RESULTS
FIGURE 5	NTS PLATE