DIAMOND DRILLING

TOWNSHIP: LEGAULT

REPORT NO: 22

WORK PERFORMED FOR: PLACER DOME INC.

RECORDED HOLDER: SAME AS ABOVE [X]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
TB907878	466-005	541 m	OCT/91	(1)

NOTES: (1) W9240.103

NOTE: DDH 466 -001 TO -004 ARE LOCATED IN LAPIERRE LAKE AREA (REPORT #20)

PLACER DOME INC.

PROJECT 466 (MISSING LINK OPTION)

REPORT ON THE DIAMOND DRILLING PROGRAM

LAPIERRE AND LEGAULT TOWNSHIPS, ONTARIO

NOVEMBER 1991

D. LADEROUTE

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PLACER DOME INC.
PROJECT 466 (MISSING LINK OPTION)
REPORT ON THE DIAMOND DRILLING PROGRAM
LAPIERRE AND LEGAULT TOWNSHIPS, ONTARIO

SUMMARY AND CONCLUSIONS

A total of five (5) holes were drilled during the program, to test the Missing Link Shear System (MLSS), a zone of shearing and alteration hosted in mafic volcanics. Although sporadic, anomalous gold (Au) mineralization was detected, no intersections of economic significance were obtained.

These results indicate that in spite of the occurrence on the property of a zone that is apparently, from a structural and chemical point of view, favourable for the concentration of Au mineralization, such concentration did not occur. The reason or reasons for this is problematical, but the deficiency of iron (Fe) in the MLSS relative to the Brookbank Zone may be one such factor.

No further work is recommended on the property at this time.

INTRODUCTION

The Missing Link Option (Project 466) consists of 54 unleased mining claims in one contiguous block, located 12 kilometres northeast of the town of Jellicoe, Ontario, in the Thunder Bay Mining Division. Between 28 August and 6 September, and 16 and 22 October, 1991, Placer Dome Inc. (PDI) conducted a program of diamond drilling to evaluate a favourably altered and mineralized system of shear zones (the MLSS). Only sporadic, anomalous Au mineralization was detected, with no intersections of economic significance being obtained. No further work is recommended on the property at this time.

PROPERTY

The Missing Link Option consists of 54 unleased mining claims in one contiguous

block, located in Lapierre and Legault Townships, Thunder Bay Mining Division. Claim numbers and assessment credits (as of Nov 1 1991) are given in Table 1.

LOCATION AND ACCESS

The property is located in Lapierre and Legault Townships, 12 kilometers northwest (NW) of the town of Jellicoe, Ontario. Access to the property is by means of the Kinghorn Road, an all-weather gravel road which intersects Trans-Canada Highway 11, 10 kilometres east of Jellicoe. A narrow gravel road traverses eastward from the Kinghorn Road, through the south portion of the property, approximately 10 kilometers north of Highway 11.

PREVIOUS WORK

No work is recorded on the ground that now constitutes the Missing Link option prior to 1986, although MacIvor (1990) notes that old trenches in the area suggest that the area was previously explored, possibly during the initial rush into the Beardmore-Geraldton Camp during the 1930's.

In 1986, the current property vendors discovered several pits and trenches north of Jory Lake in the southern portion of the claim group, which exposed a zone of shearing and associated carbonate-sericite-silica alteration within mafic volcanics. Values of up to 2.6 g/t Au were obtained from this material, and up to 17.9 g/t Au from a thin quartz-arsenopyrite vein hosted within this material. In late 1986, the property was optioned to Golden Earth Resources Ltd. In 1987, this firm conducted an airborne magnetometer and VLF-EM survey over the entire claim group; subsequently, Golden Earth carried out ground magnetometer and VLF surveys over the ice on all lakes on the property. In 1989, this company terminated their option on the claim block.

In 1989, the original vendors of the property conducted limited power stripping on and close to the initial discovery trenches. As a result, the zone of shearing and

TABLE 1- MISSING LINK OPTION CLAIMS AND ASSESSMENT CREDITS (AS OF 1 NOV 91)

Claim No.	Rec. Date	Assessment Credit	Claim No.	Rec. Date	Assessment Credit
907485	May 20, 1986	$3,157	907855	May 20, 1986	$4,416
907486	May 20, 1986	$3,157	907856	May 20, 1986	$4,416
907487	May 20, 1986	$3,377	907857	May 20, 1986	$4,416
907488	May 20, 1986	$3,597	907858	May 20, 1986	$4,416
907489	May 20, 1986	$3,157	907859	May 20, 1986	$3,597
907490	May 20, 1986	$3,157	907860	May 20, 1986	$4,631
907491	May 20, 1986	$3,157	907861	May 20, 1986	$4,741
907492	May 20, 1986	$3,157	907862	May 20, 1986	$4,521
907493	May 20, 1986	$3,597	907867	May 20, 1986	$4,631
907494	May 20, 1986	$3,823	907868	May 20, 1986	$3,157
907495	May 20, 1986	$3,157	907869	May 20, 1986	$3,597
907496	May 20, 1986	$3,157	907870	May 20, 1986	$3,157
907500	May 20, 1986	$4,416	907871	May 20, 1986	$3,157
907507	May 20, 1986	$3,157	907872	May 20, 1986	$3,157
907508	May 20, 1986	$3,157	907873	May 20, 1986	$3,157
907509	May 20, 1986	$3,157	907875	May 20, 1986	$4,416
907510	May 20, 1986	$3,157	907876	May 20, 1986	$4,825
907511	May 20, 1986	$3,157	907877	May 20, 1986	$4,631
907512	May 20, 1986	$3,377	907878	May 20, 1986	$4,521
907513	May 20, 1986	$3,487	907879	May 20, 1986	$4,829
907514	May 20, 1986	$3,597	907880	May 20, 1986	$3,377
907515	May 20, 1986	$3,597	907881	May 20, 1986	$3,267
907550	May 20, 1986	$4,840	907882	May 20, 1986	$4,840
907851	May 20, 1986	$4,416	907883	May 20, 1986	$4,829
907852	May 20, 1986	$4,416	907884	May 20, 1986	$3,157
907853	May 20, 1986	$4,416	907885	May 20, 1986	$3,597
907854	May 20, 1986	$4,416	907890	May 20, 1986	$3,861

alteration was extended over a strike length of nearly 2000'.

In December, 1989, the property was optioned to Homestake Mineral Development Company (HMDC). They completed a program of linecutting, detailed geological mapping, lithogeochemical sampling and ground magnetometer and VLF surveys over the entire property. Nine areas were also power stripped, mapped and channel sampled. The results of this work are detailed in MacIvor (1990). In summary, only low Au values (i.e. up to 2.06 g/t Au over 1.0m, with most samples returning <1.0 g/t Au) were obtained from the sheared and altered volcanics that were the focus of this program. A 1500m diamond drilling program was proposed by MacIvor (1990), but in late 1990, HMDC dropped their option on the Missing Link property.

GENERAL GEOLOGY

The property is underlain by Early Precambrian (Archean) metavolcanic and metasedimentary rocks of the Beardmore-Geraldton greenstone belt, which is in turn part of the Wabigoon Structural Subprovince of the Superior Province of the Canadian Shield. This belt is east-trending and extensively folded and faulted. Metavolcanic rocks range from massive and pillowed mafic lavas to intermediate and felsic pyroclastics. The metasediments comprise conglomerate, argillite, greywacke and minor iron formation. This sequence of rocks is in turn intruded by east-trending mafic dykes and lenticular bodies of intermediate rocks; the volcanics are also intruded by felsic porphyries as sub-volcanic intrusions (i.e. dykes and lenticular bodies). All units are cut by north-trending diabase dykes and, in the western portion of the belt, by a thick, westerly-dipping diabase sill.

The structure of the belt is dominated by a series of concordant faults that are commonly localized along contacts between major lithological units (e.g. the Paint Lake Fault). In several locations, northeasterly-trending transverse faults offset the stratigraphy as much as one-half mile in a a sinistral sense. Folding is generally tightly

isoclinal with easterly-striking axes.

The general metamorphic grade of the belt is middle greenschist facies, with local elevations to upper greenschist and lower amphibolite facies due to contact metamorphic effects near intrusions.

PROPERTY GEOLOGY

The Missing Link Option is underlain predominantly by mafic volcanic flows which are generally pervasively foliated. As a result, primary features such as pillow selvages are generally not observable. However, given the overall geology of the belt, it is reasonable to assume that these are primarily deep-water pillowed flows of basaltic to andesitic composition. Massive mafic volcanics may represent feeder dykes and lava tubes. Generally, the volcanics are very fine grained, with local occurrences of feldspar phenocrysts, and pervasively chloritized. Epidote and carbonate are other common alteration types observed. Silicification and hematization occur locally. MacIvor (1990) presents further subdivisions of the volcanics, including a magnetite-rich variety, and a coarse grained variety he refers to as gabbro. However, the increased grain size is more likely representative of the interior of a thick flow than a true intrusive rock; a gradational relationship between fine and coarse grained mafic volcanics is observed in several of the subject diamond drill holes (q.v.).

Minor pyroclastic rocks are observed in several locations on the property. MacIvor (1990) reports quartz-eye intermediate tuff in two outcrop locations on surface, while mafic to intermediate material containing up to lapilli-sized fragments are noted in several of the subject diamond drill holes (q.v.), most notably interbedded with argillaceous material in the lower portion of hole 466-005.

South of Jory Lake, a polymictic paraconglomerate is reported to occur sporadically in outcrop by MacIvor (1990). This unit comprises quartz, chert and granodioritic clasts in a greywacke matrix, and is apparently in contact with the

voclanic sequence underlying the remainder of the property to the north. Although this author draws a parallel between this contact and that hosting the Brookbank Deposit 30 km to the west, no significant deformation or alteration is noted within the paraconglomerate on surface.

Other sedimentary rocks on the property are hosted within the sequence of volcanic rocks. Most notable are units of graphitic-pyritic argillite. Prior to the subject drilling program, the presence of such material was only inferred from geophysical data (i.e. a strong formational EM conductor with no associated magnetic response). During the subject program, it became evident that graphitic-pyritic argillite is a relatively common, if volumetrically small, component of the volcanic sequence. This unit is most abundant in the deepest hole, 466-005, and therefore may increase in extent with increasing depth. Graphite and pyrite content of this unit varies widely i.e. from trace amounts to more than 30 volume%. This material is interpreted to represent sedimentation during periods of volcanic quiesence, an interpretation further supported by its being interbedded with minor tuffaceous material i.e. minor episodes of resumed pyroclastic activity in between major eruptive events.

MacIvor (1990) also reports oxide-facies iron formation as occurring within the volcanic succession. However, this is based on geophysical i.e. magnetic evidence, since this unit is not observed in outcrop or in drill holes.

Two types of intrusive rocks are observed on the Missing Link Option. Massive medium-grained gabbro is reported on surface (MacIvor, 1990), and is observed in holes 466-004 and 005. Narrow (i.e. < 1.0 metres wide) diabase dykes are observed on surface and in hole 466-003. Neither unit is volumetrically abundant. Generally, gabbro appears to form sills within the mafic volcanic sequence, while north-south striking diabase cross-cuts all other units.

RESULTS OF DIAMOND DRILLING PROGRAM

During the period 28 August and 6 September 1991, four BQ diamond drill holes totalling 1007m were drilled by Bradley Brothers Limited of Rouyn-Noranda, PQ, on the Missing Link Option. Based on results of this drilling, a fifth BQ hole of 541m length was drilled by the same contractor during the period 16 and 22 October 1991. The objective of this drilling was to test the MLSS for gold mineralization generally below a vertical depth of 250m; the rationale for this is that the Brookbank Deposit, which was theorized to be analagous in terms of controlling structure (i.e. the Paint Lake Deformation Zone, or PLDZ) and style of mineralization, occurs primarily below that depth. Drill logs for these holes are presented in Appendix I, details of hole parameters in Table 1, and cross sections in drawings 466-001 and 002 (in back pockets). Drawing 466-003 (also in back pockets) depicts these holes in plan view, together with the general geology of the surrounding area. Details of assays and analyses are given below in the section titled ROCK GEOCHEMISTRY, while certificates of assays, certificates of drill core geochemistry results and drill core geochemistry sample records are given in Appendices II, III and IV respectively.

TABLE 2

DRILL HOLE SUMMARY

Hole #	Collar Grid	Dip	Azimuth	Depth	Major Rock Types
466-001	5+25E,2+50S	-50	000	251m	-mafic volcanics -sheared mafic volcanics -argillite
466-002	5+25E,3+25S	-50	000	251m	-mafic volcanics -sheared mafic volcanics
466-003	9+00E,1+70S	-50	000	254m	-mafic volcanics -sheared mafic volcanics

					-argillite -diabase
Hole #	**Collar Grid**	**Dip**	**Azimuth**	**Depth**	**Major Rock Types**
466-004	9+00E,2+75S	-50	000	251m	-mafic volcanics -sheared mafic volcanics -gabbro
466-005	5+25E,4+00S	-55	000	541m	-mafic volcanics -altered mafic volcanics -argillite -gabbro

The holes were designed to test the MLSS on two sections- 5+25E and 9+00E. Section 5+25E targets the MLSS beneath the most favourable-appearing portion of the area stripped by HMDC, while section 9+00E targets the eastern extension of the MLSS, where it is substantially covered by thick, wet overburden (note that there is one small outcrop exposure of sheared and altered volcanics immediately west of line 9+00E, however, indicating that the favourable structure does persist as far east as this section).

Holes 466-001 and 002 were drilled first on section 5+25E. Both intersected significant zones of shearing and alteration (generally in order of abundance: chloritization; sericitization; carbonatization; silicification; and Fe-carbonatization). Both holes also intersected, within sheared and altered zones, sections 0.6m wide in 466-001 and 3.0m wide in 466-002, of quartz-veining and sulphide mineralization (i.e. pyrite and arsenopyrite). However, only minor Au values over narrow widths (i.e. up to 0.6 g/t Au over 1.5m) were obtained from these quartz and sulphide zones; no significant Au mineralization was detected in the bulk of the sheared and altered volcanic material.

Holes 466-003 and 004 were drilled on section 9+00E. The former intersected a wide zone of shearing and alteration in mafic volcanics, however, no significant Au values were detected in this zone. The latter did not intersect any significant zones of shearing or alteration, and contained no significant Au values whatsoever.

Notwithstanding the lack of economic Au values in holes 466-001 and 002, it was judged that the intensity of shearing and alteration, together with the occurrence of weak, sporadic Au values in these holes warranted the drilling of a follow-up hole targeted to test the MLSS down-dip. The rationale was that the Brookbank Deposit represented an analagous situation, then economically interesting concentrations of Au mineralization may occur below a particular vertical depth. Accordingly, hole 466-005 was drilled on section 5+25E to test the MLSS below a vertical depth of 250m. However, the shearing, alteration and quartz-veining intersected in holes 466-001 and 002 were not found to persist to this depth. The hole intersected a series of foliated to weakly sheared mafic volcanics overlying a sequence of interbedded pyroclastics and graphitic-pyritic argillite. None of this material contained any significant Au mineralization.

ECONOMIC GEOLOGY

Notwithstanding the occurrence of favourable-appearing shearing and alteration on surface and in some of the drill holes, it is apparent that the MLSS does not contain economically significant Au mineralization. One possible explanation is the lack of iron (Fe) in the MLSS i.e. there is a deficiency of Fe-sulphide mineralization, Fe-carbonate and hematite staining in the MLSS relative to the Brookbank Deposit. This may suggest that redox conditions in the MLSS were substantially different from those in the shear system hosting the Brookbank deposit, and thus not favourable for the precipitation of Au. Furthermore, from the lack of shearing and alteration in holes 466-004 and 005, it appears that the structures comprising the MLSS do not persist to more than approximately 200m vertical depth. Therefore, there is no indication that the MLSS has the potential to host significant Au mineralization.

ROCK GEOCHEMISTRY

A total of 118 assay samples were collected of all sheared and altered material, and of certain other material deemed to be of potential economic interest. These samples were assayed by Chemex Labs Ltd. for Au (reported in g/t) on one assay ton, using a fire assay preconcentation and an atomic absorption spectrophotometric finish. They were also analyzed for silver (Ag; reported in g/t) and arsenic (As; reported in %); assay certificates are given in Appendix II. The remainder of each hole was tested by means of geochemical (i.e. "142-type") samples, consisting of an approximately 5cm long sample collected every 3m. These were analyzed by Bondar-Clegg and for Au and As by means of atomic absorption spectrophotometry. A total of 514 geochemical samples were collected; certificates of drill core geochemistry results, and the drill core geochemistry sample records are given in Appendices III and IV respectively.

Results of these analyses are discussed in the section above entitled DIAMOND DRILLING PROGRAM. Generally, only sporadic, anomalous Au values were obtained. With respect to the geochemical samples, one such sample in hole 466-005 returned a value of 1.4 g/t Au from a depth of 230.0m in medium grained mafic volcanics. Subsequent examination of this section of core revealed that this value is related to a single, isolated quartz stringer approximately 5mm wide, and is therefore of little significance.

No significant Ag mineralization was detected. In those samples containing visible arsenopyrite, elevated levels of As were detected; generally, As was not detected elsewhere.

RECOMMENDATIONS

Based on the lack of economic potential in the MLSS described above, no further work is recommended on the Missing Link Option.

November 1991

D. Laderoute

REFERENCES

MACIVOR, D., SEPTEMBER 1990.

The Results of an Integrated Exploration Program (Geological Mapping, Lithogeochemical Sampling, Ground Geophysics and Power Stripping/Trenching) on the Missing Link Property (Claims TB907550 et al), Lapierre and Legault Townships, Thunder Bay Mining Division, Ontario. For Homestake Mineral Development Company.

CERTIFICATE OF QUALIFICATIONS

I, David Laderoute, do hereby certify that:

1. I currently reside at 46 Taylor Drive, Thunder Bay, Ontario, Canada, P7C 4T9;

2. I attended Lakehead University, Thunder Bay, Ontario, and graduated with an Honours Bachelor of Science Degree in Geology in 1984, and a Master of Science Degree in Geology in 1988;

3. I have been actively involved in the Canadian mining industry since 1980 and have been employed full-time as a geologist since 1986;

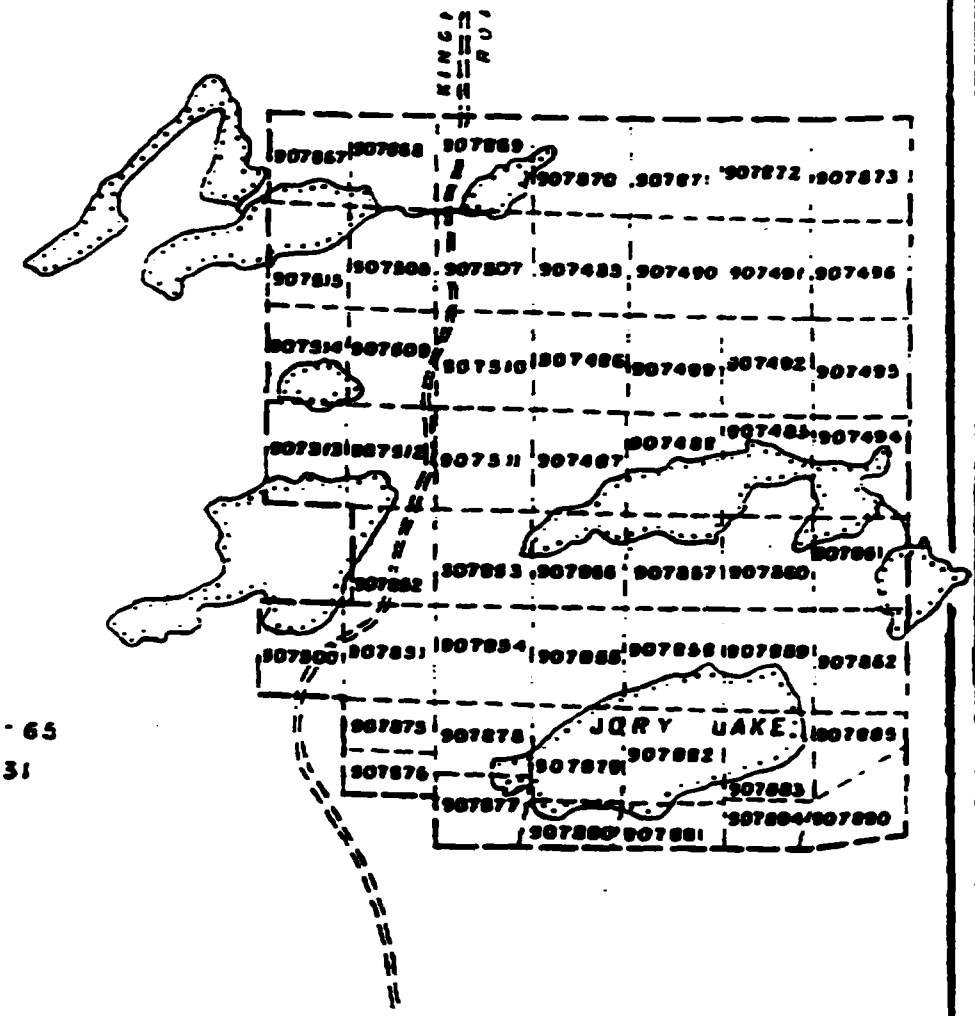
4. I am a Fellow of the Geological Association of Canada (Membership # F5452), a member of the Canadian Institute of Mining and Metallurgy, and a member of the Prospector's and Developer's Association;

5. This report is based on my own observations made while working on the property, and on study of previously written property reports; and

6. I have no interest, direct or indirect, nor do I expect to receive any such interest, in the property described in this report.

Dated November 1991 in Thunder Bay, Ontario.

David G. Laderoute, M.Sc., F.G.A.C.



49°45 LAPIERRE LAKE G-65

LEGAULT TWP. G-131

87°30'

0 2000 4000 6000 8000

FEET

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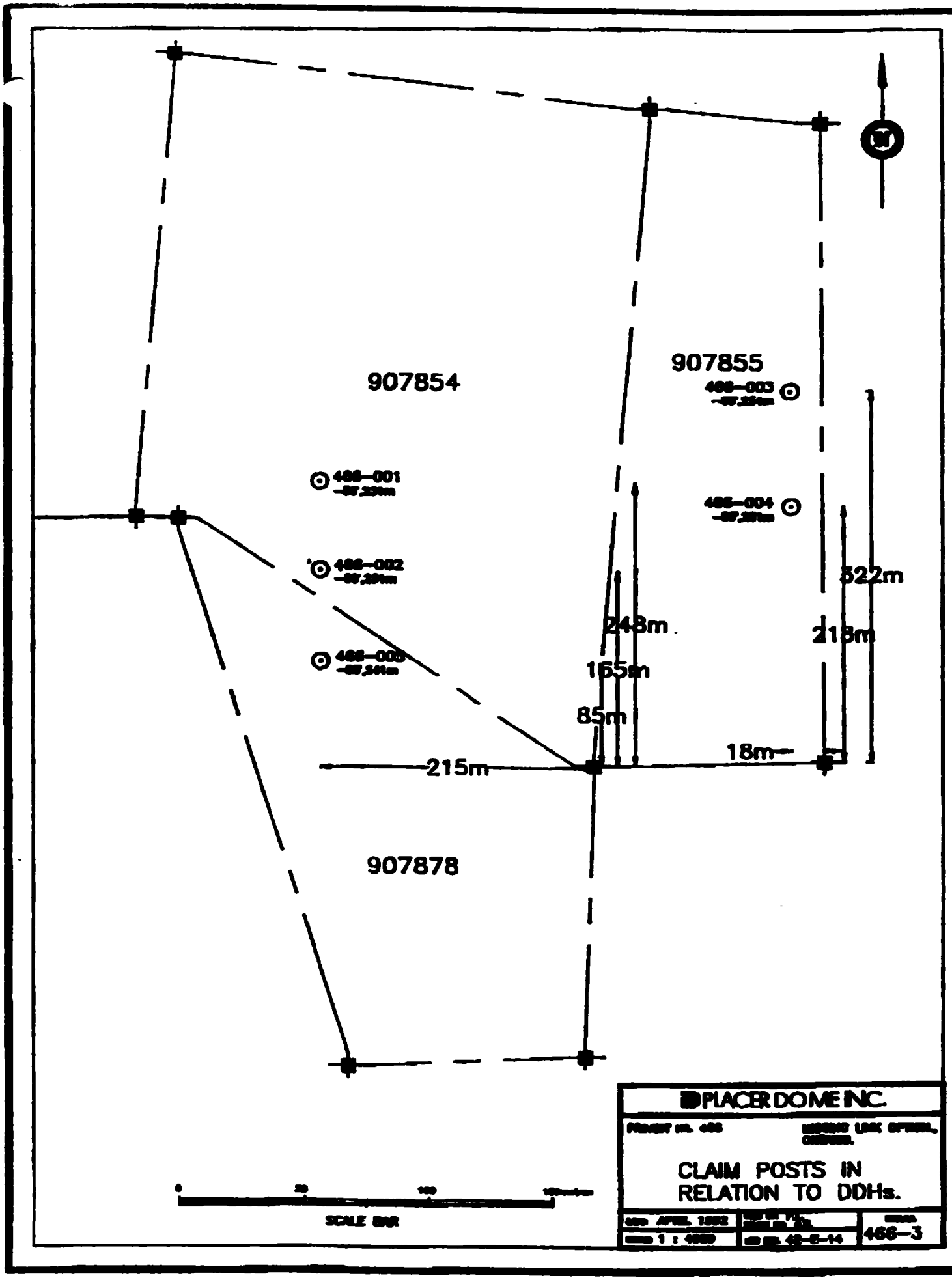
PLACER DOME INC.

PROJECT No. 466 — MISSING LINK SPECIAL, ONTARIO.

CLAIM MAP

APRIL, 1982 — 466-S


907854
907855
907878
322m
248m
218m
165m
85m
215m
18m
SCALE BAR
PLACER DOME INC.
CLAIM POSTS IN RELATION TO DDHs.
APRIL 1992
1 : 4000
466-3

PLACER DOME INC.

DIAMOND DRILL RECORD

REF CORD: -400.0 525.0 SURVEYED: NO

HOLE NO: 466-005

LOCATION: 4+00 S 9+25 E GRID: Missing Link Grid

PROPERTY: MISSING LINK OPTION
PROJECT 466

POST LOCATION: 466-005 is 215m W and 85m N of post #1 of TB 907878

SECTION:

AZIMUTH: .0 LENGTH: 541.0 ELEVATION: .0 LOGGED BY: DAVID B. LADERGUTE

DIP: -55.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC DATE LOGGED: 16-22 October 1991

STARTED: 16 October 1991 COMPLETED: 22 October 1991 CLAIM NO: 81m within TB 907878 and 460m within TB 907854

PURPOSE: TO TEST THE MISSING LINK SHEAR SYSTEM DOWN-DIP OF 466-001 AND 002 FOR GOLD MINERALIZATION BELOW A VERTICAL DEPTH OF 250m

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
50.00		-53.00	350.00		-38.00
100.00		-50.00	400.00		-37.00
150.00		-48.00	450.00		-35.00
200.00		-45.00	500.00		-34.00
250.00		-41.00	541.00		-32.00
300.00		-38.00			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	1.50	OVERBURDEN								
1.50	10.90	MAFIC TUFF Medium greyish green to dark green, massive to weakly foliated at 50 degrees to core axis, fine to medium-grained fine to medium grained ash tuff with locally up to 3% quartz-feldspar crystal fragments. Generally pervasive silicification, especially above 8.0, generally chloritized, minor epidote, carbonatization locally. 1 to 2% quartz-calcite microveins up to 5 millimetres wide at 20 to 50 degrees to core axis.								
10.90	112.30	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium to dark greyish green to green, massive to weakly foliated at 45 to 50 degrees to core axis, fine-grained. Generally pervasive chloritization, carbonatization, minor local epidote, patchy local silicification, possibly minor local patchy sericitization. 1% Quartz-calcite microveins up to 3 millimetres wide generally cross-cutting foliation at high angles i.e. 50 to 60 degrees. Minor hematite on fracture surfaces locally. 45.00 55.00 Density of quartz-calcite, quartz and calcite								

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		to 60 degrees. Minor hematite on fracture surfaces locally. 45.00 55.00 Density of quartz-calcite, quartz and calcite veins increases to 3 to 5% and width increases up to 10 centimetres. 60.00 85.00 Core is strongly fractured generally parallel to foliation, but often at variable angles relative to the core axis i.e. RQD over this interval is less than 50%. Local sections up to 1.0 metres wide containing abundant i.e. 20-50% rounded to sub-angular quartz and feldspar crystals up to 3 millimetres in size may be interbedded mafic to intermediate tuff. Minor magnetite occurs locally as very fine-grained to fine-grained aggregates in calcite microveins. Below 102.0 unit is strongly pervasively carbonatized.								
112.30	141.60	MEDIUM GRAINED MASSIVE TO WEAKLY FOLIATED MAFIC METAVOLCANICS Medium grayish green to buff yellow gray, massive, fine to medium-grained. Common buff yellow alteration may be propylitic. Spotty chloritization, minor local carbonatization. 2% Quartz microveins up to 1 centimetres wide at variable angles relative to the core axis. Sharp upper contact at 45 degrees to core axis, sharp lower contact at 90 degrees to core axis. Locally fractured and brecciated generally along fractures oriented at low angles (i.e. Less than 30 degrees) relative to the core axis. Trace very fine-grained disseminated pyrite. Unit includes local fine-grained sections up to 0.5 metres wide. Coarser grained sections tend to have higher RQD than more fine-grained sections. 130.40 130.60 Fracture zone with abundant Fe oxy-hydroxides on fracture surfaces i.e. Hydraulically active.								
141.60	211.50	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium to dark green, massive to weakly foliated at 45 to 50 degrees to core axis, fine-grained. Generally pervasive chloritization, local patchy pervasive carbonatization but otherwise calcite is generally								

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT AVERAGE
		confined to discrete microveins. Minor local patchy pervasive silicification, minor epidote. 3% Quartz-calcite and calcite microveins generally parallel to, but locally crosscutting foliation at low angles (i.e. Less than 30 degrees). 147.4 to 147.7, 170.2 to 170.3, 170.5 to 170.7 quartz-calcite vein zones containing abundant (i.e. 10-40%) tourmaline and minor hematite. Trace to 1% very fine-grained to fine-grained disseminated pyrite locally. Below approximately 190.0 1 to 3% pyrite occurs locally as fine to medium-grained disseminated grains and stringers, generally associated with calcite veinlets.							
211.50	243.00	MEDIUM GRAINED MASSIVE TO WEAKLY FOLIATED MAFIC METAVOLCANICS Medium to dark grayish green, massive to locally weakly foliated at 50 degrees to core axis, medium-grained. Generally pervasively chloritized, especially in the case of larger grains as distinct from finer interstitial grains, giving rise to a spotty or mottled appearance to much of unit. Local patchy epidote and minor hematite, generally associated with quartz veins. Unit is generally more siliceous than fine grained mafic volcanics in hole, but it is not clear if this is due to primary composition or secondary silicification. 1% Quartz and quartz-calcite veins up to 5 centimetres wide at variable angles relative to the core axis. Trace fine to medium-grained disseminated pyrite.							
243.00	281.30	MODERATELY FOLIATED TO WEAKLY SHEARED MAFIC METAVOLCANICS Medium to dark grayish green to green, generally weakly to moderately foliated at 60 degrees to core axis, fine-grained. Generally pervasively chloritized, patchy pervasive carbonatization, also abundant calcite microveins parallel to foliated. Minor epidote locally. Dark micaceous mineral occurring locally in up to 20% abundance, parallel to foliation, may be biotite. 1% Patchy irregular quartz veins. Trace to 1% fine to medium-grained pyrite locally associated with quartz-calcite veins.							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT AVERAGE
	267.50	271.00 ALTERATION ZONE generally bleached to a buff gray colour, and containing minor fuchsite and sericite. Generally similar to underlying unit.							
281.30	293.00	ALTERED FINE GRAINED MAFIC METAVOLCANICS Pale buff gray to gray, generally weakly foliated at 55 to 60 degrees to core axis, fine-grained. Generally pervasively buff altered and bleached, possibly due to cryptocrystalline sericitization. Wispy chlorite parallel to foliated is locally common. Carbonatization confined to discrete calcite and quartz-calcite microveins parallel to foliated. Diffuse contacts, suggesting that this is an alteration zone within surrounding volcanics. However, no controlling structure evident. 20% Quartz veins in lowermost 0.5m of unit; 1% otherwise. Quartz veins are generally parallel to foliated. 1 to 10% fine to medium-grained disseminated and stringer pyrite in uppermost 1.0m of unit associated with minor local shearing, sericitization and chloritization ; 1 to 10% disseminated fine-grained pyrite and locally 3% fine-grained magnetite associated with quartz veins in lowermost 1.0 metres of unit. Trace very fine-grained to fine-grained disseminated pyrite otherwise. 281.30 282.60 1 to 3% quartz veins, 1 to 10% pyrite, sericitized, chloritized. 292.00 293.00 1 to 20% quartz veins, 1 to 10% pyrite, up to 3% magnetite, sericitized, chloritized.	E41301 E41302	281.30 292.00	282.60 293.00	1.30 1.00	<.070 <.070		
293.00	333.40	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium to dark green, massive to weakly foliated at 60 degrees to core axis, fine-grained. Generally pervasively chloritized, minor epidote and hematite locally associated with quartz and quartz-calcite veins and microveins. 1% Quartz and quartz-calcite microveins and veins up to 5 centimetres wide, at variable orientations relative to the core axis. Trace fine to medium-grained disseminated pyrite.								

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT AVERAGE
333.40	357.50	MODERATELY FOLIATED TO WEAKLY SHEARED MAFIC METAVOLCANICS Light to medium grayish green to dark green, moderately foliated to weakly sheared at 60 degrees to core axis, fine-grained. Generally pervasively chloritized, weak to moderate pervasive carbonatization, minor local epidote, minor local patchy sericitization. 5% Quartz-calcite and calcite microveins generally parallel to and rarely crosscutting foliation. Darkest coloured portions of unit contain significant magnetite or pyrrhotite resulting in a moderate to strong magnetic response. Electrical conductivity response suggests that this material also contains graphite or very fine-grained conductive sulphides. Trace to 1% very fine-grained to fine-grained disseminated pyrite, generally in bands parallel to foliated.							
357.50	368.00	ALTERED FINE GRAINED MAFIC METAVOLCANICS Light to medium gray to buff grayish green, massive to weakly foliated at 60 degrees to core axis, fine-grained. Generally pervasive buff alteration, similar to unit from 281.3 to 293.0. Patchy sericitization, generally associated with quartz veins and microveins. Minor local carbonatization generally as discrete microveins parallel to foliated. 3% Quartz veins up to 5 centimetres wide. Trace to 2% fine-grained disseminated pyrite generally associated with quartz veins. 360.30 360.50 Graphitic-pyritic zone, probably interflow sediment. Portion of main unit immediately above this interflow is strongly fractured and friable; possible fault. 360.50 361.50 10% quartz veins, trace to 2% pyrite, sericitized.	E41303	360.50	361.50	1.00	<.070		
368.00	382.00	MODERATELY FOLIATED TO WEAKLY SHEARED MAFIC METAVOLCANICS Medium to dark grayish green to dark green, moderately foliated at 60 degrees to core axis (although this is locally disrupted by contortions in the foliation), fine to medium-grained. Generally pervasive chloritization, locally pervasive carbonatization, minor local epidote. 1 to 5% quartz-calcite microveins parallel to foliation,							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		1% quartz microveins crosscutting foliation at low core axis angles i.e. Less than 20 degrees. Trace disseminated fine-grained pyrite locally.								
382.00	398.60	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium to dark grayish green to green, massive to weakly foliated at 60 degrees to core axis, fine-grained. Generally pervasive chloritization, local patchy epidote, minor local spotty biotite, minor patchy silicification, moderate pervasive carbonatization in lowermost 3.0 metres of unit. Calcite confined to 1% discrete microveins at variable orientations relative to the core axis otherwise. Trace very fine-grained to fine-grained disseminated pyrite Local portions of unit up to 1.0 metres wide appear porphyrtic i.e. Contain 5 to 10% fine-grained plagioclase phenocryst.									
398.60	420.20	ALTERED FINE GRAINED MAFIC METAVOLCANICS Medium grayish green to medium buff gray, moderately foliated to sheared at 60 to 80 degrees to core axis (high degree of variation due to local contortions), fine-grained General buff alteration, moderate local chloritization, moderate sericitization, weak local pervasive carbonatization, minor weak patchy silicification, minor local spotty fuchsite. 1 to 5% quartz and quartz-calcite microveins parallel to shearing. Locally, quartz microveins crosscuts shearing at low angles relative to the core axis. Local sections contain sub-angular fragments in fine to medium-grained matrix suggesting local brecciation. Other sections up to 30 centimetres wide exhibit tight folding and contortion. 416.00 416.50 Graphitic section containing 5% coarse-grained pyrite, very friable. Probably included graphitic-pyritic interflow sediment. Trace very fine-grained disseminated pyrite generally, 1 to 5% fine to medium-grained pyrite locally. 398.60 400.10 3% quartz veins, buff altered, sericitized, minor biotite. 400.10 401.00 3% quartz veins, buff altered, moderately sericitized, carbonatized, trace pyrite. 401.00 402.50 3% quartz veins, buff altered, weakly	E41304	398.60	400.10	1.50	<.070			
			E41305	400.10	401.00	.90	<.070			
			E41306	401.00	402.50	1.50	<.070			
			E41307	402.50	404.00	1.50	<.070			
			E41308	404.00	405.50	1.50	<.070			
			E41309	405.50	407.00	1.50	<.070			
			E41310	407.00	408.50	1.50	<.070			
			E41311	408.50	410.00	1.50	<.070			
			E41312	410.00	411.50	1.50	<.070			
			E41313	411.50	413.00	1.50	<.070			
			E41314	413.00	414.50	1.50	<.070			
			E41315	414.50	416.00	1.50	<.070			
			E41316	416.00	417.50	1.50	<.070			
			E41317	417.50	419.00	1.50	<.070			
			E41318	419.00	420.20	1.20	<.070			

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT AVERAGE
		sericitized, locally chloritized, trace pyrite. 402.50 404.00 5% quartz veins, buff altered, weakly sericitized, minor biotite. 404.00 405.50 1% quartz veins, buff altered, moderately sericitized, chloritized, biotite. 405.50 407.00 Buff altered, weakly sericitized, moderately chloritized. 407.00 408.50 Locally contorted, brecciated, moderately sericitized, carbonatized, weakly chloritized. 408.50 410.00 Locally contorted, moderately sericitized, carbonatized, trace pyrite. 410.00 411.50 Buff altered, moderately sericitized, weakly chloritized, carbonatized. 411.50 413.00 1% quartz veins, buff altered, moderately sericitized, trace pyrite. 413.00 414.50 1% quartz veins, buff altered, weakly to moderately sericitized, carbonatized, trace to 3% pyrite. 414.50 416.00 Buff altered, moderately sericitized, trace to 1% pyrite. 416.00 417.50 5% quartz veins, trace to 5% pyrite, graphitic, buff altered. 417.50 419.00 Buff altered, moderately sericitized, trace to 2% pyrite. 419.00 420.20 3% quartz veins, weakly to moderately sericitized, chloritized, carbonatized, trace to 3% pyrite.							
420.20	457.30	PORPHYRITIC MAFIC FLOW Light gray to buff phenocrysts ; medium grayish green to dark green groundmass, moderately foliated at 60 to 65 degrees to core axis, porphyrtic. Generally pervasive chloritization, patchy pervasive carbonatization, moderate pervasive sericitization especially in uppermost 5.0 metres of unit. Minor biotite locally, minor epidote. 5 to 10% felsic (probably plagioclase) phenocrysts up to 3.0 millimetres in size generally as laths oriented sub-parallel to foliation. 5 to 10% quartz-calcite and calcite microveins generally parallel to foliation. Trace very fine-grained to fine-grained disseminated pyrite Unit includes sections up to 1.0 metres wide of fine to medium-grained non-porphyritic material that may be, at least in part, pyroclastic, based on possible fragments and quartz 'eyes' from 444.0 to 445.0.	E41319	452.80	454.30	1.50	<.070		

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT AVERAGE
		Relatively high sericite content suggests that unit may have a more intermediate composition than volcanics occurring higher in hole.							
		452.80 454.30 ALTERATION ZONE pervasively sericitized and buff altered similar to underlying unit, trace to 3% pyrite.							
		452.80 454.30 Buff altered, sericitized, trace to 3% pyrite							
457.30	464.00	ALTERED FINE GRAINED MAFIC METAVOLCANICS							
		Light to medium buff gray to greyish green, moderately foliated at 50 to 60 degrees to core axis, fine to medium-grained.	E41320	457.30	458.00	.70	<.070		
			E41321	458.00	459.50	1.50	<.070		
			E41322	459.50	461.00	1.50	<.070		
		Pervasive buff alteration, locally strong sericitization, minor wispy chloritization locally, minor local graphite, local patchy carbonatization.	E41323	461.00	462.50	1.50	<.070		
			E41324	462.50	464.00	1.50	<.070		
		1% Quartz and quartz-calcite veins up to 2 centimetres wide							
		Trace to 1% fine to medium-grained disseminated subhedral to euhedral pyrite.							
		457.30 458.00 Buff altered, sericitized, minor chloritization, trace pyrite.							
		458.00 459.50 5% quartz veins, buff altered, sericitized, minor chloritization, trace pyrite.							
		459.50 461.00 1% quartz veins, buff altered, sericitized, minor chloritization, carbonatization, trace to 3% pyrite.							
		461.00 462.50 1% quartz veins, buff altered, sericitized, 1 to 3% pyrite.							
		462.50 464.00 1% quartz veins, buff altered, sericitized, local graphite, 3% pyrite locally.							
464.00	491.80	ALTERED INTERBEDDED ARGILLITE AND MAFIC TO INTERMEDIATE VOLCANICS							
		Light to medium buff gray to dark gray, well bedded and laminated at 65 to 70 degrees to core axis, very fine-grained to fine-grained.	E41325	464.00	465.50	1.50	<.070		
			E41326	465.50	467.00	1.50	<.070		
			E41327	467.00	468.50	1.50	<.070		
		Pervasive buff alteration and local sericitization similar to overlying unit in lighter coloured, interbedded volcanic material. Minor patchy carbonatization and chloritization.	E41328	468.50	470.00	1.50	<.070		
			E41329	470.00	471.50	1.50	<.070		
			E41330	471.50	473.00	1.50	<.070		
			E41331	473.00	474.50	1.50	<.070		
		1% Quartz and minor quartz-calcite veins and microveins, generally crosscutting bedding at 20 to 30 degrees to core axis.	E41332	474.50	476.00	1.50	<.070		
		1% Fine to medium-grained disseminated subhedral to euhedral pyrite generally (however, see description of							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		sulphide-rich zone below). Unit differs from other argillites in other holes in that it contains less graphite, and contains abundant interbedded volcanic material that is probably pyroclastic in origin i.e. Fine to medium ash and lapilli tuff, based on observed fragment size. This volcanic material is likely mafic to intermediate in composition, based on bulk rock hardness, colour index, and abundance of sericite, similar to the unit from 420.2 to 457.3.								
		467.00 476.00 SULPHIDE-RICH ZONE, 1 to 3% pyrite generally, up to 20% pyrite locally, as fine to medium-grained stringers, aggregates and disseminated grains generally arranged parallel to bedding. Some of this pyrite is related to thin graphitic laminations, but most is associated with fine siliceous bands or hosted in silicate matrix. Minor pyrrhotite aggregates locally.								
		487.10 487.40 Quartz-rich graphitic fault zone, highly fractured and gouged at 60 to 70 degrees to core axis.								
		464.00 465.50 Buff altered, weakly sericitized, trace to 3% pyrite.								
		465.50 467.00 Buff altered, weakly sericitized, minor carbonatization, graphite, 2% pyrite.								
		467.00 468.50 Buff altered, weakly sericitized, trace to 3% pyrite, 1% pyrrhotite.								
		468.50 470.00 Buff altered, weakly to moderately sericitized, 1 to 5% pyrite.								
		470.00 471.50 Buff altered, moderately sericitized, 1 to 10% pyrite.								
		471.50 473.00 Buff altered, 3 to 5% quartz veins, 3 to 20% pyrite.								
		473.00 474.50 20% quartz veins, buff altered, 3 to 10% pyrite.								
		474.50 476.00 3% quartz veins, buff altered, 3 to 10% pyrite.								
491.80	511.30	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium grayish green, massive to locally weakly foliated at 65 degrees to core axis, fine-grained. Generally pervasive chloritization, minor local patchy carbonatization, epidote. Minor local quartz-calcite microveins associated with and								

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		parallel to foliation. Trace fine-grained pyrite locally.								
511.30	524.40	FINE TO MEDIUM GRAINED GABBRO Medium to dark grayish green, massive, fine to medium-grained. Generally chloritized, minor local carbonatization. Trace very fine-grained disseminated pyrite. Sharp contacts parallel to foliation in adjacent units. Lowermost 2.0 metres of unit is relatively fine-grained, possibly due to chilling.								
524.40	541.00	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS Medium grayish green, massive to weakly foliated at 65 degrees to core axis, fine-grained. Generally pervasive chloritization, local patchy pervasive carbonatization, minor local hematite and epidote. Unit is highly fractured i.e. RQD of less than 60%. 1% Quartz-calcite microveins at various orientations relative to the core axis.								
		END OF HOLE.								
		CASING LEFT IN HOLE.								
		CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE--NOTHING OF INTEREST.								
		DRILLING BY BRADLEY BROTHERS LTD., TIMMINS, ONTARIO.								
		CORE STORED IN JELLICOE, ONTARIO.								

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: PLACER DOME INC

383 MOONEY ST.
THUNDER BAY, ON
P7B 5L5

Project : 466
Comments: ATTN: D. LADEROUTE CC: D. STONE

Certificate Date 04-NOV-91
Invoice No. I9123805
P.O. Number

CERTIFICATE OF ANALYSIS A9123805

SAMPLE	PREP CODE		Au oz/T	Ag oz/T	As %
E41301	207	294	0.001	0.01	0.02
E41302	207	294	< 0.001	< 0.01	0.02
E41303	207	294	0.002	< 0.01	0.07
E41304	207	294	0.001	< 0.01	0.01
E41305	207	294	< 0.001	< 0.01	0.01
E41306	207	294	< 0.001	< 0.01	< 0.01
E41307	207	294	< 0.001	< 0.01	< 0.01
E41308	207	294	< 0.001	< 0.01	0.01
E41309	207	294	< 0.001	< 0.01	< 0.01
E41310	207	294	< 0.001	< 0.01	< 0.01
E41311	207	294	< 0.001	< 0.01	< 0.01
E41312	207	294	< 0.001	< 0.01	0.01
E41313	207	294	< 0.001	< 0.01	< 0.01
E41314	207	294	< 0.001	< 0.01	< 0.01
E41315	207	294	< 0.001	< 0.01	< 0.01
E41316	207	294	< 0.001	< 0.01	0.01
E41317	207	294	< 0.001	< 0.01	< 0.01
E41318	207	294	< 0.001	0.01	< 0.01
E41319	207	294	< 0.001	< 0.01	< 0.01
E41320	207	294	< 0.001	< 0.01	< 0.01
E41321	207	294	< 0.001	< 0.01	< 0.01
E41322	207	294	< 0.001	< 0.01	0.02
E41323	207	294	< 0.001	< 0.01	< 0.01
E41324	207	294	0.001	< 0.01	0.17
E41325	207	294	0.001	< 0.01	< 0.01
E41326	207	294	< 0.001	< 0.01	0.01
E41327	207	294	< 0.001	< 0.01	0.02
E41328	207	294	< 0.001	< 0.01	0.01
E41329	207	294	< 0.001	< 0.01	0.10
E41330	207	294	0.001	< 0.01	0.01
E41331	207	294	< 0.001	< 0.01	0.02
E41332	207	294	< 0.001	< 0.01	< 0.01

CERTIFICATION:

APPENDIX III

Certificate of DrillCore Geochemistry Results

Bondar-Clegg & Company Ltd.
[illegible] Kresick Road
Ottawa, Ontario
K1J
(613) 749-2220 Telex 053-3233

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PROJECT: 65-42967.0 (COMPLETE)

PROJECT: 665

PAGE 1

SAMPLE #	FROM	TO	Au ppm	Au ppb	Au2 ppb	Au3 ppb	Au4 ppb
16358	5.00	30	8.2	6			
16359	8.00	30	3.4	12			
16360	11.00	3A	1.3	5			
16361	14.00	3A	<1.0	<5			
16362	17.00	3A	<1.0	<5			
16363	20.00	3A	6.3	7			
16364	23.00	3A	11.0	<5			
16365	26.00	3A	1.8	<5			
16366	29.00	3A	10.0	<5			
16367	32.00	3A	13.0	<5			
16368	35.00	3A	46.0	<5			
16369	38.00	3A	7.2	<5			
16370	41.00	3A	1.5	5			
16371	44.00	3A	3.7	<5			
16372	47.00	3A	1.1	<5			
16373	50.00	3A	1.9	<5			
16374	53.00	3A	2.4	<5			
16375	56.00	3A	1.1	<5			
16376	59.00	3A	<1.0	<5			
16377	62.00	3A	<1.0	39			
16378	65.00	3A/3B	4.3	5			
16379	68.00	3A	<1.0	<5			
16380	71.00	3A	<1.0	5			
16381	74.00	3A	1.0	<5			
16382	77.00	3A	<1.0	<5			
16383	80.00	3A	3.7	7			
16384	83.00	3A	<1.0	<5			
16385	86.00	3A	<1.0	5			
16386	89.00	3A	1.0	<5			
16387	92.00	3A	3.9	11			
16388	95.00	3A	<1.0	5			
16389	98.00	3A	1.0	<5			
16390	101.00	3A	4.3	<5			
16391	104.00	3A	<1.0	<5			
16392	107.00	3A	<1.0	<5			
16393	110.00	3A	<1.0	15			
16394	113.00	3A/4	6.7	<5			
[illegible]	116.00	3A/4	[illegible]	[illegible]			
[illegible]	119.00	3A/4	3.[illegible]	[illegible]			
[illegible]	122.00	3A/4	[illegible]	[illegible]			

Bondar-Clegg & Company Ltd.
[illegible]
Ottawa, Ontario
K1[illegible]
(613) [illegible]

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[illegible]

DATE PRINTED: [illegible]-NOV-[illegible]
PROJECT: [illegible]
PAGE [illegible]

[illegible]	[illegible]	A[illegible] PPM	Au PPB	AU01 PPB	AU02 PPB	AU03 PPB
[illegible]	[illegible]	[illegible]	<5			
[illegible] 128.00	[illegible]	[illegible]	<5			
[illegible]	[illegible]	10.0	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
16404 143.00	3A	5.8	<5			
16405 146.00	3A	6.2	<5			
16406 149.00	3A	2.6	<5			
[illegible] 152.00	[illegible]	[illegible]	<5			
[illegible] 155.00	[illegible]	7.5	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	5			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	5			
[illegible]	[illegible]	1.8	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	1.6	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible] 171.00	[illegible]	4.1	<5			
[illegible] 174.00	[illegible]	3.3	<5			
[illegible]	[illegible]	5.3	<5			
[illegible]	[illegible]	[illegible]	[illegible]	205	[illegible]	276
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	<5			
[illegible]	[illegible]	[illegible]	[illegible]			

[illegible]
[illegible]
Ottawa, Ontario
K1[illegible]
[illegible] Telex [illegible]

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	[illegible]	[illegible]	[illegible]
16438 245.00 3A		[illegible]	<5			
[illegible] 248.00 3A		[illegible]	<5			
16440 251.00 3A		2.7	[illegible]			
16441 254.00 3A		[illegible]	6			
16442 257.00 3A		3.9	<5			
16443 260.00 3A		2.2	<5			
16444 263.00 3A		16.0	<5			
16445 266.00 3A		5.7	8			
16446 269.00 3A		60.0	<5			
16447 272.00 3A		18.0	<5			
16448 275.00 3A		3.8	<5			
16449 278.00 3A		3.2	<5			
16450 281.00 3A		28.0	10			
16451 284.00 3		[illegible]	<5			
16452 287.00		[illegible]	<5			
[illegible]		[illegible]	5			
16454 293.00		[illegible]	<5			
16455 296.00 3A		[illegible]	[illegible]			
[illegible] 299.00 3A		[illegible]	<5			
[illegible]		[illegible]	[illegible]			
[illegible] 305.00 3A		[illegible]	5			
16459 308.00 3A		3.9	<5			
[illegible] 311.00 3A		5.6	<5			
[illegible]		[illegible]	37			
[illegible] 317.00 3A		9.5	5			
[illegible] 3A		[illegible]	<5			
16464 323.00 3A		[illegible]	<5			
16465 [illegible] 3A		[illegible]	6			
[illegible] 3A		[illegible]	5			
[illegible] 3A		[illegible]	[illegible]			
[illegible]		[illegible]	<5			
16469 335.00		[illegible]	5			
16470 [illegible]		35.0	33			
[illegible]		[illegible]	[illegible]			
[illegible] 347.00		4.6	<5			
[illegible] 350.00		5.5	<5			
[illegible]		[illegible]	<5			
[illegible]		[illegible]	<5			
[illegible] 359.00		[illegible]	5			
[illegible]		[illegible]	5			

Geochemical Lab Report

BONDAR-CLEGG

DATE PRINTED: [illegible]
PROJECT: 466 PAGE [illegible]

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	AUP1 PPB	AUP2 PPB	AUP3 PPB
[illegible]		[illegible]	<5			
[illegible]		1.9	5			
[illegible]		[illegible]	[illegible]			
[illegible] 3B		4.1	<5			
16462 [illegible].00 3B		23.0	<5			
[illegible].00 3B		5.9	<5			
16484 383.00 3A		4.3	<5			
16485 386.00 3A		4.9	<5			
16486 [illegible].00 3A		6.0	<5			
[illegible].00 3A		[illegible].0	<5			
[illegible].00 3A		18.0	5			
[illegible] 398.00 3A		5.4	<5			
[illegible]		24.0	<5			
[illegible]		43.0	<5			
[illegible]		[illegible]	<5			
[illegible]		8.0	<5			
[illegible]		[illegible].0	<5			
[illegible]		53.0	<5			
[illegible]		28.[illegible]	<5			
[illegible]		[illegible]5.0	5			
[illegible] 3P		[illegible].0	<5			
[illegible] 426.00 3P		4.4	<5			
[illegible] 3P		[illegible].0	<5			
[illegible] 3P		32.0	<5			
[illegible] 3P		[illegible]	5			
[illegible] 3P		[illegible].0	<5			
[illegible] 3A		27.0	<5			
[illegible] 3P		16.0	5			
[illegible] 3P		26.0	<5			
[illegible] 3P		15.0	<5			
[illegible]		[illegible].6	<5			
[illegible] 458.00 3		235.0	9			
[illegible] 3		44.0	[illegible]			
[illegible] 3		61.0	<5			
[illegible] 66A		46.0	5			
[illegible] 66A		39.0	[illegible]			
[illegible] 66A		53.0	<5			
[illegible] 66A		[illegible]	5			
[illegible] 66A		[illegible].0	[illegible]			
[illegible] 66A		[illegible]	<5			

Bondar-Clegg & Company Ltd.
[illegible]
Ottawa, Ontario
K1J
(613) [illegible]-2220 Telex [illegible]

BONDAR-CLEGG

Geochemical Lab Report

DATE PRINTED: 6-NOV-91
PROJECT: 466 PAGE 5

REPORT: [illegible] (COMPLETE)

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	AUR1 PPB	AUR2 PPB	AUR3 PPB
165[illegible] 485.00 [illegible]	[illegible]	5				
[illegible]6519 488.00 [illegible]	54.[illegible]	5				
16520 491.00 63A	23.0	[illegible]				
1652[illegible] 494.00 3A	32.0	<5				
16522 497.00 3A	41.0	<5				
16523 500.00 3A	3.1	5				
16524 503.00 3A	4.4	5				
[illegible]6525 506.00 3A	4.8	<5				
16526 509.00 3A	[illegible]	[illegible]				
16527 512.00 10	<1.0	[illegible]				
16528 515.00 10	<1.0	<5				
[illegible]6529 518.00 10	<1.0	<5				
16530 52[illegible] 10	[illegible]	[illegible]				
16531 [illegible]	[illegible]	5				
16532 527.[illegible] 3A	[illegible]	5				
[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]				
16536 539.00 3A	[illegible]	<5				

[illegible]
K1J
[illegible]

BONDAR-CLEGG

Geochemical Lab Report

REPORT: [illegible]

STANDARD NAME	ELEMENT UNITS	[illegible]	Au PPB	[illegible] PPB	[illegible] PPB	[illegible] PPB
[illegible]			[illegible]	-	-	
BCC CHEMICAL BLANK			[illegible]	-	-	-
BCC CHEMICAL BLANK		-	<5	-	-	-
BCC CHEMICAL BLANK		-	<5	-	-	-
BCC CHEMICAL BLANK		-	<5	-	-	-
Number of Analyses			5	-	-	-
Mean Value		-	2.5	-	-	
Standard Deviation		-	0.00	-	-	-
Accepted Value		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	100	-	-	-
BCC ROCK PULP [illegible]-1		7.[illegible]	-	-		-
BCC ROCK PULP [illegible]-1		8.9	-	-	-	-
BCC ROCK PULP 1969-1		7.3	-	-	-	-
Number of Analyses		3	-	-		-
Mean Value		7.9[illegible]	-	-		
Standard Deviation		[illegible].852	-	-	-	-
Accepted Value		8.0	-		-	-
BCC Standard GS89-3		30.0	-	-	-	-
BCC Standard GS89-3		27.0	-	-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		28.50	-	-		
Standard Deviation		2.12[illegible]	-	-	-	
Accepted Value		30.0	-	-	-	-
BCC 100 PPB AU STD		-	99	-	-	-
Number of Analyses		-	1	-	-	-
Mean Value			99.0	-		
Standard Deviation		-	-	-	-	
Accepted Value		-	100	-	-	

BONDAR-CLEGG

Geochemical Lab Report

DATE PRINTED: 6-AUG-91
PROJECT: 466

[illegible]	ELEMENT	As	Au	AU#1	AU#2	AU#3
[illegible]	UNITS	PPM	PPB	PPB	PPB	PPB
[illegible]		302.0	-	-	-	-
[illegible]		295.0		-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		298.50	-	-	-	-
Standard Deviation		4.950	-	-	-	-
Accepted Value		320.0	-	-	-	-
[illegible]		-	116	-	-	-
Number of Analyses		-	1	-	-	-
Mean Value		-	116.0	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	110	-	-	-
[illegible]		-	584	-	-	-
Number of Analyses		-	1	-	-	-
Mean Value		-	584.0	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-

Bondar-Clegg
Ottawa Ontario
K1J
(613) 749-2220 Telex 053-4135

BC
BONDAR-CLEGG

Geochemical Lab Report

Sample	Element	Au
Number	Units	ppb
16385 [illegible] 3A		1.4
Duplicate		[illegible]
16388 95.00 3A		<1.0
Duplicate		<5
16396 111.00 3AP		6.3
Duplicate		6.0
16411 164.00 3A		2.4
Duplicate		<5
16423 200.00 3A		4.3
Duplicate		4.3
16434 [illegible] 3AP		6.7
Duplicate		[illegible]
16449 287.00 3		16.0
Duplicate		[illegible]
16457 331.00 3A		[illegible]
Duplicate		[illegible]
16470 [illegible] 3S		[illegible]
Duplicate		[illegible]
16481 374.00 3S		[illegible]
Duplicate		[illegible]
16503 440.00 3P		31.0
Duplicate		[illegible]
16510 451.00 3		44.3
Duplicate		46.0
16526 [illegible] 3A		[illegible]
Duplicate		[illegible]

APPENDIX IV

Drill Core Geochemistry Sample Record

PLACER DOME INC.

CORE SAMPLE RECORD

DDH No 466-005 PROJECT 466-5

HOLE LOCATION [illegible] DIP -55° AZIMUTH [illegible]°

BASE LINE BEARING [redacted] C90° SAMPLED BY [illegible]

DATE 6 - OCT 91

SAMPLE No	DEPTH	ROCK CODE	% SULPHIDES PY	PO	other	% VEIN QUARTZ	REMARKS	Au ppb	As ppm
16358	5.0	3D	3%				CHL, SIL	6	8.2
16359	8.0	3D					CHL, SIL	14	4.4
16360	11.0	3A					CHL CB	<5	1.3
16361	14.0	3A					CHL CB	<5	<1.0
16362	17.0	3A					CHL, CB	<5	<1.0
16363	20.0	3A	1%				CB, CHL	7	[illegible]
16364	23.0	3A					CHL CB	<5	11.0
16365	26.0	3A				20%	CHL, EP, CB	<5	1.4
16366	29.0	3A					CB, CHL	<5	10.0
16367	32.0	3A				5%	CHL, CB	<5	13.0
16368	35.0	3A	TR			3%	CB, CHL	<5	46.0
16369	38.0	3A					CHL, CB	<5	7.2
16370	41.0	3A				10%	CB, EP, CHL	<5	1.5
16371	44.0	3A	TR			1%	CHL, CB	<5	3.7
16372	47.0	3A	TR			5%	CB, CHL	<5	1.1
16373	50.0	3A	1%			10%	CHL, EP, CB	<5	1.9
16374	53.0	3A				3%	CHL, EP, CB	<5	2.4
16375	56.0	3A	TR				CB, CHL	<5	1.0
16376	59.0	3A	TR				CB, CHL	<5	<1.0
16377	62.0	3A					CHL	39	<1.0
16378	65.0	3A/3D					CHL, EP	<5	4.3
16379	68.0	3A					CHL MINOR CB	<5	<1.0
16380	71.0	3A				5%	CHL, CB	<5	<1.0
16381	74.0	3A				15%	CB, CHL	<5	1.0
16382	77.0	3A				5%	CHL, CB	<5	<1.0
16383	80.0	3A				5%	CHL, CB	<5	[illegible]
16384	83.0	3A	TR			5%	CB, CHL	<5	<1.0
16385	86.0	3A	TR				CHL	<5	<1.0
16386	89.0	3A	TR			5%	CHL CB	<5	<1.0
16387	92.0	3A	TR			1%	CHL, CB	14	4.5
16388	95.0	3A				5%	CB, CHL	<5	<1.0
16389	98.0	3A				5%	CB, CHL	<5	<1.0
16390	101.0	3A				20%	CHL, CB	<5	4.3
16391	104.0	3A				10%	CHL, CB, EP	<5	<1.0
16392	107.0	3A				20%	CHL, CB, EP	<5	<1.0
16393	110.0	3A	TR			5%	CB, CHL	16	<1.0

PLACER DOME INC.

CORE SAMPLE RECORD

DDH No 466-L05 PROJECT 466-5

HOLE LOCATION 1125E, 4445 DIP -55° AZIMUTH 357°

BASE LINE BEARING 000° SAMPLED BY P. LACERTE

DATE 6 OCT 91

SAMPLE No	DEPTH	ROCK CODE	% SULPHIDES PY	PO	other	%VEIN QUARTZ	REMARKS	Au ppb	As ppm
16394	113.0	3AM					PROPYLITIC CHL	<5	6.7
16395	116.0	3AM	TR				PROPYLITIC, CHL,	<5	19.0
[illegible]	[illegible]						EP		
16396	119.0	3AM				10%	EPIDOTIC, CHL	<5	8.3
16397	122.0	3AM					PROPYLITIC, CHL	<5	26.0
16398	125.0	3AM				15%	PROPYLITIC, CHL, CB	<5	24.0
16399	128.0	3AM	TR				[illegible] PROP, CHL, CB	<5	27.0
16400	131.0	3AM	TR				PROP, CHL, CB	<5	10.0
16401	134.0	3AM	TR				PROP, CHL, EP	<5	25.0
16402	137.0	3AM					PROP, CHL, EP, CB	<5	23.0
16403	140.0	3AM					PROP, CB, CHL	<5	37.0
16404	143.0	3A				16%	CB, CHL	<5	3.8
16405	146.0	3A				3%	CHL, CB	<5	6.2
16406	149.0	3A	1%				PROP, CHL, CB	<5	2.6
16407	152.0	3A					CB, CHL	<5	3.4
16408	155.0	3A					CHL, CB	<5	7.5
16409	158.0	3A	TR				CHL, CB	<5	3.2
16410	161.0	3A					CHL, CB	<5	2.0
16411	164.0	3A					CHL, CB	<5	2.4
16412	167.0	3A	TR				CHL, CB	11	<4.0
16413	170.0	3A					CHL, CB	<5	3.1
16414	173.0	3A					CB, CHL	<5	5.6
16415	176.0	3A					CB, CHL	<5	22.0
16416	179.0	3A				3%	CHL, CB	6	3.9
16417	182.0	3A				5%	CHL, CB	<5	47.0
16418	185.0	3A					CHL, CB	<5	16.0
16419	188.0	3A					CHL, CB	<5	11.0
16420	191.0	3A				3%	CHL, CB	<5	31.0
16421	194.0	3A				20%	CB, CHL, EP	<5	29
16422	197.0	3A	TR			10%	CHL, CB	<5	2.2
16423	200.0	3A	TR			5%	CHL, CB	<5	4.3
16424	203.0	3A	TR				CHL, CB	<5	<1.0
16425	206.0	3A	1%			<1%	CB, CHL	<5	1.8
16426	209.0	3A					CHL	<5	<1.0
16427	212.0	3AM	TR				CHL, EP	<5	6.7
16428	215.0	3AM					CHL	<5	<1.0

PLACER DOME INC.

CORE SAMPLE RECORD

DDH No 466-005 PROJECT 466-5

HOLE LOCATION 5+25E, 44005 DIP -55° AZIMUTH 357 000°

BASE LINE BEARING 090° SAMPLED BY D. LADEROUTE

DATE

SAMPLE No	DEPTH	ROCK CODE	% SULPHIDES PY	PO	other	%VEIN QUARTZ	REMARKS	Au ppb	As ppm
16429	218.0	3AM					CHL	<5	18.0
16430	221.0	3AM	TR			5%	CHL, CB	<5	4.1
16431	224.0	3AM					CHL, MINOR EP	<5	3.3
16432	227.0	3AM	TR				CHL	<5	3.3
16433	230.0	3AM				5%	CHL	1236	4.6
16434	233.0	3AM	1%				CHL	<5	4.0
16435	236.0	3AM					CHL, EP	<5	8.6
16436	239.0	3AM					CHL	<5	5.1
16437	242.0	3AM					CHL	<5	<1.0
16438	245.0	3A					CHL, CB	<5	12.0
16439	248.0	3A							
16440	251.0	3A	TR				CHL, CB	<5	12.0
16441	254.0	3A					CHL, CB	15	2.7
16442	257.0	3A	TR				CHL, MINOR CB	6	<1.0
16443	260.0	3A					CB, CHL	<5	3.9
16444	263.0	3A					CHL, CB	<5	2.4
16445	266.0	3A	2%				CHL, CB, MINOR EP(?)	<5	10.0
16446	269.0	3A					CB, CHL	8	5.7
16447	272.0	3A					BLEACHED, FU, CB	<5	60.0
16448	275.0	3A	TR				CB, CHL, SER	<5	18.0
16449	278.0	3A					CHL, CB	<5	3.8
16450	281.0	3A	TR			3%	CHL, CB	<5	3.2
16451	284.0	3	TR				CHL, CB	16	28.0
16452	287.0	3					BLEACHED CHL, SER	<5	91.0
16453	290.0	3	TR				BLCHD, CB, CHL	<5	18.0
16454	293.0	3	TR				BLCHD, CB, CHL	<5	38.0
16455	296.0	3A					CB, CHL	<5	36.0
16456	299.0	3A					CHL, SER, CB	<5	<1.0
16457	302.0	3A					CHL, CB	<5	12.0
16458	305.0	3A					CHL, CB	<5	8.1
16459	308.0	3A				TR EP	CHL	<5	10.0
16460	311.0	3A	TR				CHL, CB	<5	4.9
16461	314.0	3A	TR			10%	CHL, CB	<5	5.6
16462	317.0	3A	TR				CHL, EP, CB	37	220
16463	320.0	3A	TR				CHL	<5	9.5
							CHL	<5	11.0

PLACER DOME INC.

CORE SAMPLE RECORD

DDH No 466-005 PROJECT 466-5

HOLE LOCATION 5125E, 4400S DIP -55° AZIMUTH 357°

BASE LINE BEARING 090° SAMPLED BY D. LADEROUTE

DATE 16 OCT 91

SAMPLE No	DEPTH	ROCK CODE	% SULPHIDES PY	PO	other	%VEIN QUARTZ	REMARKS	Au ppb	As ppm
16464	323.0	3A	TR				CHL	<5	11.6
16465	326.0	3A	TR				CHL, CB, EP	6	14.6
16466	329.0	3A	1%				CHL, CB	<5	5.6
16467	332.0	3A					CHL, MINOR CB	<5	13.6
16468	335.0	3B					CB, CHL	<5	8.6
16469	338.0	3B					CB, EP, CHL	<5	11.0
16470	341.0	3B	2%				CB, CHL	33	25.6
16471	344.0	3B	1%				EP, CHL	<5	13.6
16472	347.0	3B	TR				CB, CHL, EP	<5	4.6
16473	350.0	3B					CHL, CB	<5	9.5
16474	353.0	3B					CHL, EP, CB	<5	16.6
16475	356.0	3B					CHL, CB	<5	4.8
16476	359.0	3				20%	CB, CHL, BUFF ALT	<5	1.9
16477	362.0	3	3%			10%	BUFF ALT SER	<5	125.
16478	365.0	3				5%	BUFF ALT SER	<5	69.6
16479	368.0	3					WK BUFF ALT	<5	4.6
16480	371.0	3B					CHL, CB	<5	12.6
16481	374.0	3B					CHL, EP	<5	4.1
16482	377.0	3B				5%	CHL, CB	<5	23.6
16483	380.0	3B	3%				CHL, EP, SER	<5	3.9
16484	383.0	3A					CHL, CB	<5	4.3
16485	386.0	3A					CHL, MINOR MT	<5	4.9
16486	389.0	3A					CHL, MINOR BI	<5	6.6
16487	392.0	3A					CHL, EP	<5	10.6
16488	395.0	3A					CHL	<5	18.6
16489	398.0	3A					CHL, CB	<5	5.4
16490	401.0	3					BUFF ALT, CB	<5	24.6
16491	404.0	3					BUFF ALT, SER	<5	43.6
16492	407.0	3					BUFF ALT, CB	<5	29.6
16493	410.0	3					BUFF ALT, CB	<5	8.6
16494	413.0	3				10%	BUFF ALT, CB	<5	12.6
16495	416.0	3	1%			60%	SER, GRAPHITE	<5	53.6
16496	419.0	3					BUFF ALT CB	<5	28.6
16497	422.0	3	2%				SER, CB	<5	15.6
16498	425.0	3P					CHL, MINOR SER	<5	15.6
16499	428.0	3P	2%			10%	CB CHL	<5	

Ministry of Northern Development and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9240-120

MR. OWEN

ersonal mation collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about is collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, dbury, Ontario, P3E 6A5, telephone (705) 670-7284.

structions:
- Please type or print and submit in duplica
- Refer to the Mining Act and Regulations f Recorder.
- A separate copy of this form must be con
- Technical reports and maps must accomp
- A sketch, showing the claims the work is assigned to, must accompany this form.

42E11NW0031 22 LEGAULT

9

900

corded Holder(s) Hylton Cox PLACER DOME INC. Ste 3500		Client No. 182746
dress Box 350, IBM Tower, Toronto, M5K 1N3 General Delivery, Beardmore, ON. P0T1G0		Telephone No. 807-875-2527
ning Division Thunder Bay.	Township/Area Lapierre + Legault Twp.	M or G Plan No. G-
Dates Work Performed From: August 28, 1991	To: Oct. 22, 1991	

ork Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	Diamond Drilling and Assaying.
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES
JUN 24 1992
RECEIVED

tal Assessment Work Claimed on the Attached Statement of Costs $ 152,224.80

ote: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

rsons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Placer Dome Inc.	Timmins, Ont.
Bradley Bros. Ltd.	Timmins, Ont.

tach a schedule if necessary)

rtification of Beneficial Interest * See Note No. 1 on reverse side

certify that at the time the work was performed, the claims covered in this work port were recorded in the current holder's name or held under a beneficial interest the current recorded holder.	Date: May 26/92	Recorded Holder or Agent (Signature):

rtification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after s completion and annexed report is true.

me and Address of Person Certifying: J. G. Clark. 618 N. Victors St. Thunder Bay.		
epone No. 7-345-2446	Date: May 26/92	Certified By (Signature):

r Office Use Only

otal Value Cr. Recorded: 152,225	Date Recorded: May 27/92	Mining Recorder: M.A. Weiman	Received Stamp: RECEIVED 92 MAY 27 AM 11 22 MINING LANDS BRANCH THUNDER BAY ONTARIO
	Deemed Approval Date:	Date Approved: June 16/92	
	Date Notice for Amendments Sent:		

(03/91)

Ministry of Northern Development and Mines

Ontario

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9240-120

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Diamond Drilling	152225.00	
			152225.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
		Total Direct Costs Total des coûts directs	152225.00

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
		Sub Total of Indirect Costs Total partiel des coûts indirects	0
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)	Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		152225.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit		Total Assessment Claimed
	x 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation		Évaluation totale demandée
	x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
That the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

That as Agent. I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	907854	1	342 102532.00			102533.00
	907855	1	49692.00			49692.00
	Total Number of Claims: 2		Total Value Work Done: 152225.00	Total Value Work Applied:	Total Assigned From:	Total Reserve: 152225.00

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

Mr. Owen

Ministry of Northern Development and Mines

Ont

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9240.103

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
PLACER DOME INC.		182746
Address		**Telephone No.**
STE. 3500, IBM TOWER, T-D CENTRE, TORONTO, ONTARIO M5K 1N3		(416) 868-6060
Mining Division	**Township/Area**	**M or G Plan No.**
THUNDER BAY	LAPIERRE TWP.	6-65
Dates Work Performed From: AUGUST 1991	To: SEPTEMBER 1991	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
X	Physical Work, Including Drilling	DIAMOND DRILLING
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 106998.18

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
BRADLEY BROTHERS LTD.	TIMMINS, ONTARIO
REPORT: D. LADEROUTE	46 TAYLOR DRIVE, THUNDER BAY, ONT. P7C 4T9

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	MAY 14, 1992	PER: M.L. VCISLO

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: JOHN M. MORGANTI

Telepone No.	Date	Certified By (Signature)
(416) 868-6060	MAY 14, 1992	PER: J.M. MORGANTI

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
106998	MAY 20/92	M.C. Wenman	
	Deemed Approval Date	Date Approved	
	Date Notice for Amendments Sent		

7241 (03/91)

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9240.103

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	7981.68	7981.68
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type: Bradley Bros.		
		91039.70	91039.70
Supplies Used Fournitures utilisées	Type: Gear Up		
	Grand & Toy		
	Beaver Lumber		
		273.75	273.75
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		99295.13

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type: Vehicle Exp.		
			3802.73
Food and Lodging Nourriture et hébergement			3900.32
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		7703.05
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		106998.18

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Land Manager (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (Titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

Signature: Per: M.L. Vcislo

Date: April 30, 1992

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
✓	907854	1	66494			66494
✓	907855	1	34906			34906
✓	907878	1	5598			5598
	3		106998			106998
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned	Total Reserve

:redits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

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- ☒ Credits are to be cut back equally over all claims contained in this report of work.
- ☐ Credits are to be cut back as priorized on the attached appendix.

ı the event that you have not specified your choice of priority, option one will be implemented.

e 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

e 2: If work has been performed on patented or leased land, please complete the following:

:ertify that the recorded holder had a beneficial interest in the patented leased land at the time the work was performed.	Signature	Date

G-170

DISPOSITION OF CROWN LANDS

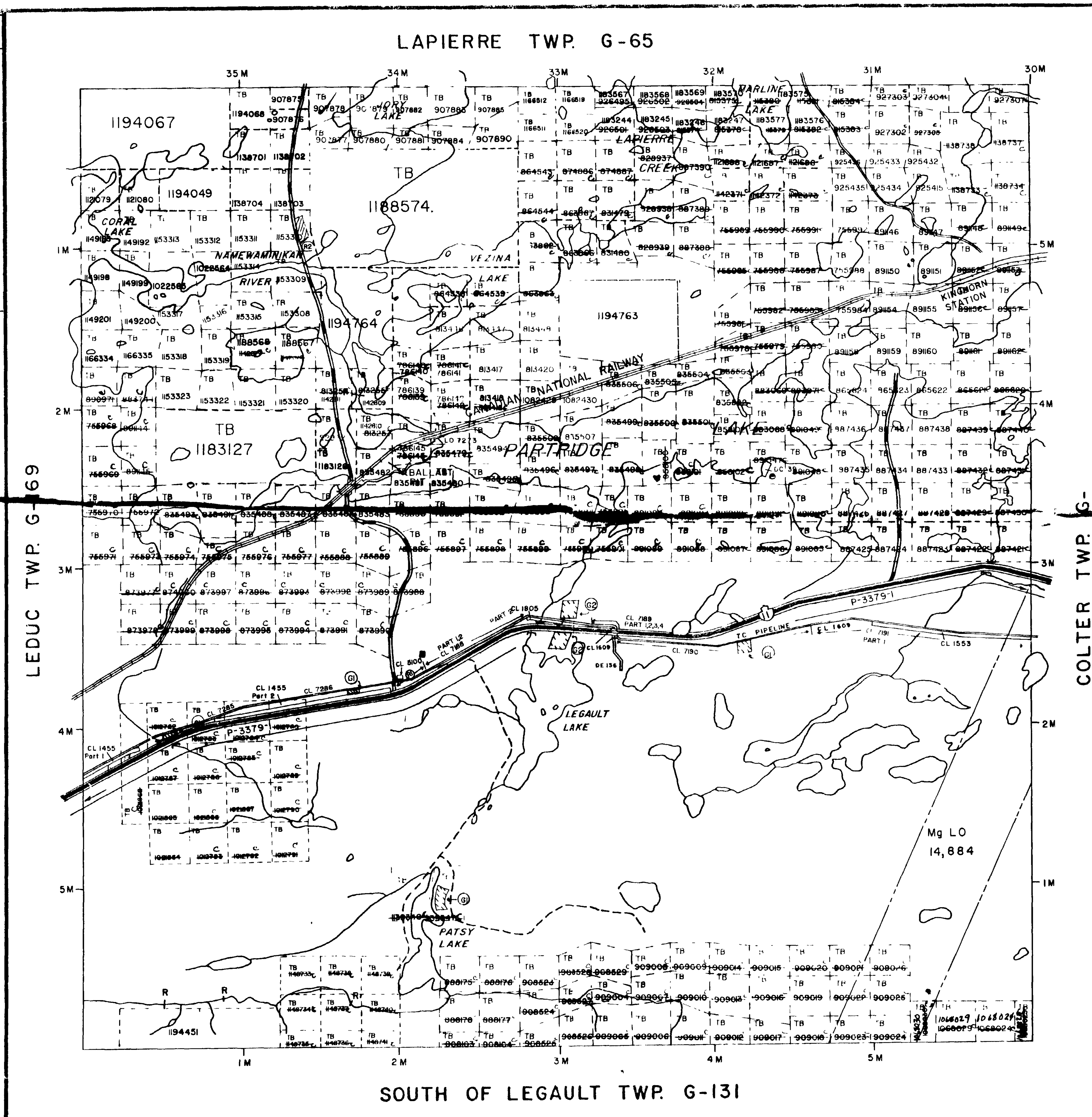
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC 63, SUBSEC 1

(G1) GRAVEL RESERVE
(G2) M.T.C GRAVEL PIT NO. 2C-16
(G3) M.T.C. GRAVEL PIT NO. 2C-17
(P1) ORDER W 81/87 NCR SRO WITHDRAWN- SEE LEGAULT TWP LANDROLL
(R2) PEND AGGREG APPL JULY05 91

THE SURFACE RIGHTS LYING WITHIN 40.25 m OF THE CENTER LINE OF THE TRANS CANADA PIPELINE RIGHT OF WAY ARE WITHDRAWN FROM STAKING OUT PROSPECTING, SALE OR LEASE BY ORDER W 01/91/ONT DATED SEPT 20, 1991 SECTION 112 OF THE NATIONAL ENERGY ACT APPLIES TO THIS AREA

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON



LEGEND

HIGHWAY AND ROUTE No
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

LAND USE PERMITS FOR COMMERCIAL TOURISM,OUTPOST CAMPS

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

LEGAULT

M.N.R. ADMINISTRATIVE DISTRICT

NIPIGON & GERALDTON

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ministry of Natural Resources — Land Management Branch
Ontario

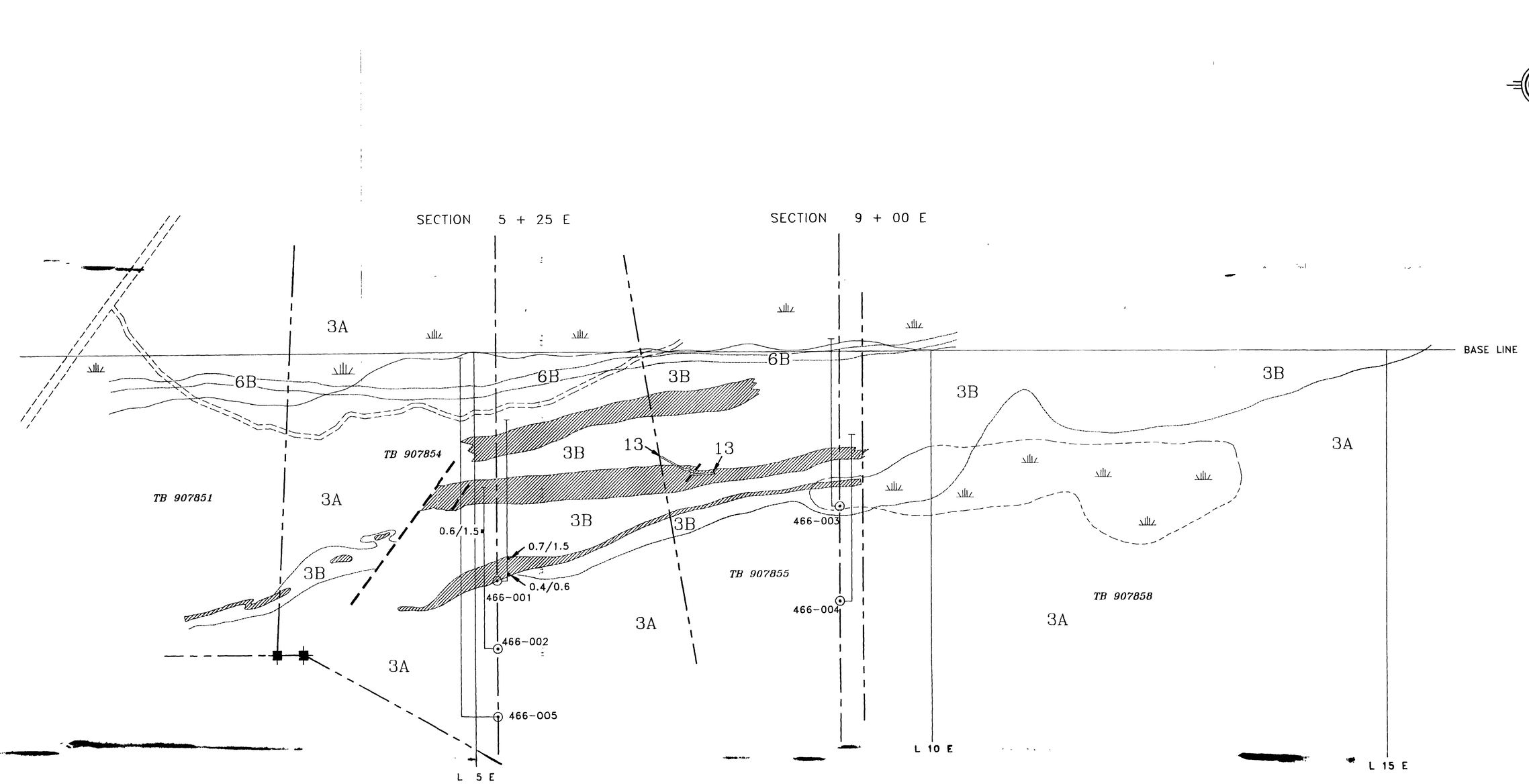
Date FEBRUARY, 1981
DATE SEPTEMBER, 1989

Number **G-170**

LEGAULT TWP.

42E11NW0031 22 LEGAULT

200



LEGEND

- GEOLOGICAL CONTACT
- FAULT
- 466-001 — DRILL HOLE w/ NUMBER
- CLAIM POST
- CLAIM LINE
- SECTION LINE
- SWAMP BOUNDARY
- ROAD

- 13 — DIABASE
- 10A — GABBRO
- 6B — ARGILLACEOUS METASEDIMENTS (GRAPHITIC/PYRITIC)
- 3B — MODERATELY FOLIATED TO WEAKLY SHEARED MAFIC METAVOLCANICS
- 3A — MASSIVE TO WEAKLY FOLIATED MAFIC METAVOLCANICS
- SHEARED AND ALTERED MAFIC METAVOLCANICS

NOTE

ASSAY VALUES GIVEN AS:
Au (grams/tonne)/DRILLED WIDTH (metres)

100 0 100
METRES

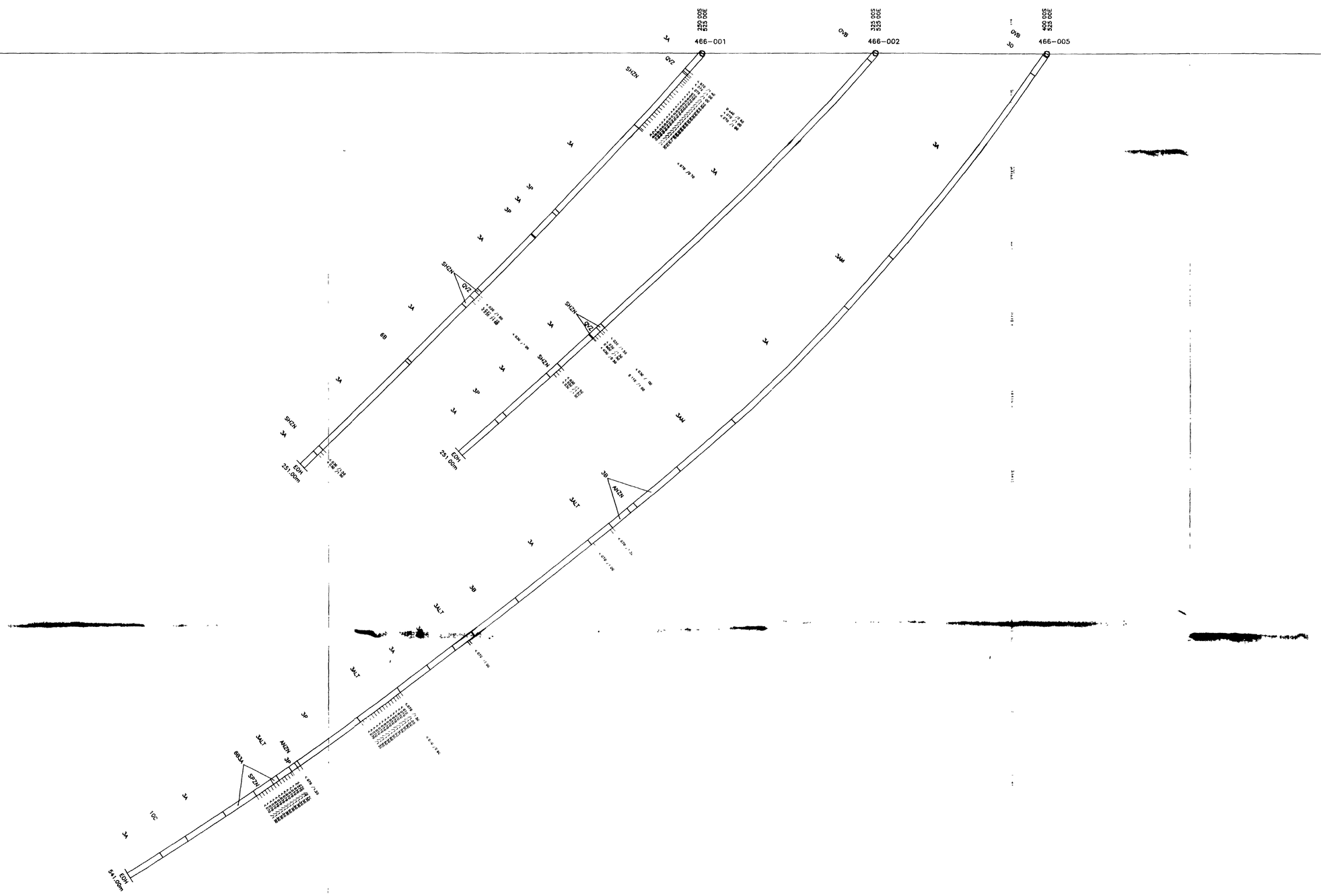
REV. 1 – DDH's ADDED – NOV., 1991

PLACER DOME INC.

PROJECT NO 466 MISSING LINK OPTION

COMPILATION MAP
(GEOLOGY/DIAMOND DRILLING)

DATE: SEPT., 1991	ORIG BY D.L. DRAWN BY R.C.	DWG NO 466-003-1
SCALE: 1 : 2500	NTS REF 42 E/14	



LEGEND

14	DIABASE
10C	FINE TO MEDIUM GRAINED GABBRO
6B	ARGILLACEOUS METASEDIMENTS
6B3A	ALTERED INTERBEDDED ARGILLITE AND MAFIC TO INTERMEDIATE VOLCANICS
3A	MASSIVE TO MODERATELY FOLIATED MAFIC METAVOLCANICS
MAF	MEDIUM GRAINED MASSIVE TO WEAKLY FOLIATED MAFIC METAVOLCANICS
3ALT	ALTERED FINE GRAINED MAFIC METAVOLCANICS
3B	MODERATELY FOLIATED TO WEAKLY SHEARED MAFIC METAVOLCANICS
3C	ALTERED MAFIC TO INTERMEDIATE VOLCANICS
3D	MAFIC TUFF
3F	PORPHYRITIC MAFIC FLOW
ANZN	ALTERATION ZONE
OVB	OVERBURDEN
QFBZ	QUARTZ FLOODED BRECCIA ZONE
QVZ	QUARTZ VEIN ZONE
SHZN	SHEARED AND ALTERED MAFIC METAVOLCANICS
SPZN	SULPHIDE-RICH ZONE

NOTE: Assays in grams per tonne/ meters

PLACER DOME INC.

PROJECT NO. 466

MISSING LINK OPTION
SECTION 5+25 E

DATE NOV. 1991	ORIG BY: DL/LP DRAWN BY:	DWG NO 466-00
SCALE 1 1000	NTS REF. 42 E/14	